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U.S. Department of Labor

U.S. Bureau of Labor Statistics

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Computer programmers

Nursing aides and order

Telecommunications specialists





U.S. Department of Labor Hilda L. Solis, Secretary

U.S. Bureau of Labor Statistics Keith Hall, Commissioner

The Monthly Labor Review is published monthly by the Bureau of Labor Statistics of the U.S. Department of Labor. The Review welcomes articles on employment and unemployment, compensation and working conditions, the labor force, labor-management relations, productivity and technology, occupational safety and health, demographic trends, and other economic developments.

The Review's audience includes economists, statisticians, labor relations practitioners (lawyers, arbitrators, etc.), sociologists, and other professionals concerned with labor related issues. Because the Review presents topics in labor economics in less forbidding formats than some social science journals, its audience also includes laypersons who are interested in the topics, but are not professionally trained economists, statisticians, and so forth.

In writing articles for the *Review*, authors should aim at the generalists in the audience on the assumption that the specialist will understand. Authors should use the simplest exposition of the subject consonant with accuracy and adherence to scientific methods of data collection, analysis, and drawings of conclusions. Papers should be factual and analytical, not polemical in tone. Potential articles, as well as communications on editorial matters, should be submitted to:

Executive Editor Monthly Labor Review U.S. Bureau of Labor Statistics Room 2850 Washington, DC 20212 Telephone: (202) 691–7911 Fax: (202) 691–5908 E-mail: mlr@bls.gov

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Schedule of Economic News Releases, July 2011

| Date | Time | Release |
|-----------------------------|----------|--|
| Friday, July 08, 2011 | 8:30 AM | Employment Situation for June 2011 |
| Tuesday, July 12, 2011 | 10:00 AM | Job Openings and Labor Turnover Survey for May 2011 |
| Wednesday, July 13, 2011 | 8:30 AM | U.S. Import and Export Price Indexes for June 2011 |
| Thursday, July 14, 2011 | 8:30 AM | Producer Price Index for June 2011 |
| Friday, July 15, 2011 | 8:30 AM | Consumer Price Index for June 2011 |
| Friday, July 15, 2011 | 8:30 AM | Real Earnings for June 2011 |
| Tuesday, July 19, 2011 | 10:00 AM | Usual Weekly Earnings of Wage and Salary Workers for Second Quarter 2011 |
| Friday, July 22, 2011 | 10:00 AM | Mass Layoffs for June 2011 |
| Friday, July 22, 2011 | 10:00 AM | Regional and State Employment and Unemployment for June 2011 |
| Friday, July 29, 2011 | 8:30 AM | Employment Cost Index for Second Quarter 2011 |

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The BLS calendar contains publication dates for most news releases scheduled to be issued by the BLS national office in upcoming months. It is updated as needed with additional news releases, usually at least a week before their scheduled publication date.

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The June Review

The article leading this month's Review examines changes in employment in establishments in which extended mass layoffs took place. Bureau authors Dina Itkin and Laurie Salmon analyze business establishment microdata—created from a combination of microdata from the Occupational Employment Statistics program and the Mass Layoff Statistics program—to look into how occupational employment was affected from 2000 to 2007. The authors reveal that jobs lost in establishments with extended mass layoffs tended to be those which were associated with little training and few analytical skills. Jobs in occupations associated with strong analytical skills and extensive technical training generally were retained, as were jobs in occupations that were core to their industry. The authors also include findings by industry as well as by geographic region.

As the baby-boom generation retires, it is in some ways redefining what "retirement" is. In this month's second article, Michael D. Giandrea of the Bureau, Kevin E. Cahill, and Joseph F. Quinn (the latter two from the Sloan Center on Aging & Work at Boston College) look into how this structural shift affects retirees. The authors find that retirement is no longer a "one-time, permanent event"; instead of retiring in this way, workers are increasingly likely to gradually exit the labor force by moving to another job, commonly referred to as a "bridge job," before permanently retiring. Using data from the Retirement History Survey, the article shows that a considerable number of

older Americans with career jobs returned to the labor force after having retired. In addition, the authors indicate that workers were more likely to reenter the workforce after retirement if they were younger, were in better health, or had a defined-contribution pension plan.

This issue of the *Review* concludes with an article that compares data from multiple surveys which seem to indicate that statistics on hours worked vary according to the survey method used. The authors conclude that "time-estimate questions" generate higher estimates of the time workers spend doing paid work than do time diaries. Time-estimate questions, such as those used by the Current Population Survey, are those in which respondents are asked to estimate the amount of time they spend or spent doing a certain activity, such as working or watching television. In contrast, the diary approach, as utilized by the American Time Use Survey and two surveys conducted in Belgium, involves asking respondents to recall their activities sequentially for a specific period such as the previous day, with the total of the day's activities summing to exactly 24 hours. The article discusses the various strengths and possible weaknesses of each approach and makes suggestions regarding potential survey improvements.

People with disabilities and employment

The unemployment rate among people with disabilities in 2010 was 14.8 percent, compared with 9.4 percent among people who did not have a disability, according to figures released this month by BLS from the Current Population Survey (CPS). The data also indicate that the share of adults with disabilities who were employed last year was 18.6 percent, compared with 63.5 percent among adults without disabilities. This gap in employment exists in part because people with disabilities tend to be older, and older people are less likely to be employed, regardless of disability status. The CPS, a household survey, asks respondents whether anyone in the household age 15 or older is deaf or has serious difficulty hearing; is blind or has serious difficulty seeing even when wearing glasses; has difficulty concentrating, remembering, or making decisions, because of a physical, mental, or emotional condition; has difficulty walking or climbing stairs; has difficulty bathing or dressing; or has difficulty doing errands alone, such as visiting a doctor's office or shopping, because of a physical, mental, or emotional condition. The news release regarding these data is available at www.bls.gov/news. release/archives/disabl 06242011. **htm.** Additional information is available at www.bls.gov/cps.

Executive editor retires

With the publication of this issue, William Parks II, executive editor of the Monthly Labor Review, retires from the Bureau of Labor Statistics. Bill's tenure at the Bureau is filled with noteworthy contributions to the agency and to the Review, and these contributions are a direct result of his knowledge of Bureau programs and data, his dedication to the goals and objectives of the organization, and his commitment to public service. \square

How occupational employment is affected by mass layoffs

An analysis of business establishment microdata—created by combining microdata from the Occupational Employment Statistics program and the Mass Layoff Statistics program—reveals that jobs lost between 2000 and 2007 in establishments where extended mass layoffs occurred tended to be those which required less training and fewer analytical skills; jobs in occupations that were core to the specific industry generally were retained

Dina Itkin and Laurie Salmon

'n recent years, mass layoffs have affected large numbers of workers.1 Even dur-Ling times of stable employment levels or economic expansion, mass layoffs occur because of cost-cutting initiatives, relocation of operations, changes in technology or consumer demand, or other reasons. Not surprisingly, some occupations are more affected by these layoffs than are others. By using a sample of establishments that had at least one extended mass layoff during the 2000-2007 period, this article examines the types of jobs affected by layoffs. An examination of this period offers insight into the mass layoff effects on occupational employment before the start of the 2007-2009 recession.2

By combining data from two Bureau of Labor Statistics programs—Mass Layoff Statistics (MLS) and Occupational Employment Statistics (OES)—pre- and post-layoff employment snapshots were compared for each sampled establishment. The total employment of the 4,520 establishments in the sample was more than 2.5 million before layoffs and less than 2.2 million after layoffs—an overall decline in employment of approximately 350,000 jobs, or 14 percent. This study focuses on changes in occupational employment overall and by industry, geographic region, and reason for the layoff.

The pattern of changes shows that, in

general, occupations that were retained or whose employment expanded after layoffs were those that tended to require analytical skills and extensive technical training, such as computer, financial, and legal analysts. Establishments generally let go of workers in occupations that tended to require less training, such as clerical and personal care occupations, and in occupations that tended to require mainly nonanalytical skills, such as material moving and production occupations. This finding was evident in the most commonly reported reason for layoffs.

This overall pattern was driven, in part, by the industries that experienced relatively large numbers of layoff events and by the occupations' relative importance in their respective industries. Layoffs in the manufacturing and information technology industries during the study period contributed to the employment declines in production and computer occupations; however, these occupations' relative importance to their respective industries seemed to lessen the impact of the layoff.

A second finding was that establishments were more likely to retain employment in occupations that are core to their industry. For example, establishments in finance and insurance industries tended to increase employment in business and financial operations occupations, schools tended to increase

Dina Itkin is an economist in the Office of Occupational and Unemployment Statistics, Bureau of Labor Statistics, Boston, MA. Email: itkin.dina@bls.gov. Laurie Salmon is a supervisory economist in the Office of Occupational Employment Statistics, Bureau of Labor Statistics, Washington, DC. Email: salmon. laurie@bls.gov.

employment of teachers, and hospitals tended to increase employment in healthcare occupations, despite layoffs in other occupations. Other industries saw declines in core occupations, but the declines were smaller than the declines in occupations with support functions.³ For example, manufacturing industries saw employment declines in most occupational groups, but production workers were laid off at lower rates than were production workers in other industries.

This finding was most noticeable in geographic regions where mass layoffs occurred in industries that were dominant in their economies. For example, the Midwest, which had higher employment concentrations in manufacturing and wholesale and retail trade industries than did other regions, lost relatively fewer workers in occupations core to those sectors: production, sales, and transportation occupations. The other regions had larger percentage declines in employment in these occupations. Likewise, the West region, which had relatively high concentrations of employment in motion picture and sound recording industries, lost relatively little employment in arts, design, entertainment, and media occupations.

Methodology and data description

The first step was to identify establishments that had an extended mass layoff and also had reported occupational employment data to the OES survey both before and after the layoff event. To obtain the largest number of sample observations, establishments that had a layoff during the 2000–2007 period were matched with OES data from 1999 to 2008.

MLS defines the universe of extended mass layoffs as private nonfarm establishments that had at least 50 initial claims for unemployment insurance benefits filed against them during a 5-week period, with at least 50 workers separated for more than 30 days. Companies were identified by their State-specific unemployment insurance (UI) number. From 2000 to 2007, there were 45,027 extended mass layoff events. Excluding Puerto Rico, the full MLS dataset contained 44,623 events. The OES data set comes from a nationwide establishment survey of occupational employment and wages. Some 400,000 business establishments are surveyed every year, and 2,611,373 distinct establishments reported data between January 1999 and May 2008.

If multiple layoffs occurred within a company and county, only the first layoff event was used, in order to best capture the occupations most vulnerable to layoff. Of the 44,623 layoff events, many were within both the same

company and county. Counting only the first event, there were 24,537 unique company/county layoff events. MLS records were matched to OES establishments by State, county, and UI account. There were 10,969 events that had at least one corresponding OES observation. An MLS record may match more than one of the company's establishments in the OES survey if there are several establishments within a county.

These "before" OES observations were linked to corresponding "after" observations by UI account number, State, county, and Reporting Unit Number (RUN, a number that identifies a particular physical establishment under a parent company or UI account). The sample included multiple matching pairs of OES observations, to maximize the chance of capturing the establishments that had layoffs. The sample included all branches within the county and UI account that had the same sets of physical establishments report both before and after the layoff. Hence, the study essentially examines the effect of company-level layoffs on staffing across branches within the county.

The study found 4,520 usable sets of "before layoff" and "after layoff" OES observations, a total of 9,040 observations. The 4,520 observations that were in both the OES and MLS data represented slightly more than 10 percent of the layoff events during the 2000–2007 period. Because total OES unweighted employment in these establishments before layoffs was 2,517,133, and total unweighted employment after layoffs was 2,165,688, the net loss was 351,445 jobs.⁶

Approximately 96 percent of the OES observations occurred within the 4 years preceding the layoff event, and nearly 90 percent of OES observations occurred within the 4 years following the layoff event. Table 1 shows the distribution of establishments by the number of years between the OES observation and the first layoff. The lag

| | ES observation ter extended | | er of years bef | fore and |
|-----------------|--------------------------------------|-----------------------------------|---|--|
| Number of years | Observa- tions be- fore layoff | Observa- tions after layoff | Cumulative percentage of total, before | Cumulative percentage of total, after |
| 0 | 715 | 416 | 15.8 | 9.2 |
| 1 | 1,342 | 1,081 | 45.5 | 33.1 |
| 2 | 1,303 | 1,237 | 74.3 | 60.5 |
| 3 | 754 | 857 | 91.0 | 79.4 |
| 4 | 232 | 442 | 96.2 | 89.2 |
| 5 | 101 | 230 | 98.4 | 94.3 |
| 6 | 55 | 170 | 99.6 | 98.1 |
| 7 | 17 | 84 | 100.0 | 99.9 |
| 8 | 1 | 3 | 100.0 | 100.0 |
| Total | 4,520 | 4,520 | n/a | n/a |

between data capture and layoff may impose limitations on the research findings. By the time the establishment's staffing was captured the second time, employment may have returned to its original levels, some workers may have been re-hired, or staffing could have been influenced by factors other than the layoff. There is also a chance that an establishment underwent layoffs before the study's time window.

Another limitation is that MLS captures layoffs at the company level within a county, whereas OES samples individual establishments within a company and county. Twothirds of the study units are known to be establishmentlevel matches because there exists only one establishment in the company and county. For the other one-third of study units, there is a chance that although MLS captured a layoff event in a company in a particular county, the matching OES units in the sample did not actually lay off any workers. The layoff might have occurred elsewhere in the company within the same county, but not necessarily in the physical units surveyed.

A third limitation is that because this study requires OES observations both before and after the layoff in order to detect staffing changes, firms that go out of business completely before OES is able to sample them again are not included. That is, the study includes only establishments that go out of business if the permanent closure occurred after the second OES observation. According to MLS statistics, there were 6,590 extended mass layoff events that resulted in permanent worksite closures from 2000 to 2007. Because these closures were likely not random with respect to each individual characteristic (e.g., industry, occupation, and region), there is attrition bias in the sample selection.

About half the establishments in the sample had fewer than 250 employees before layoffs. Table 2 shows the distribution of establishments by number of employees. After layoffs, there was an aggregate shift toward smaller establishments. The number of establishments that were either very small (1 to 9 employees), small (10 to 49 employees), or medium-sized (50 to 249 employees) increased, while the number of establishments with either a large (250 to 999 employees) or very large (more than 1,000 employees) size decreased.

Most establishments in the survey were in the West and Midwest regions (defined later in this article). There were also large numbers of establishments in the Southeast, Southwest, and New York-New Jersey regions. The Mountain-Plains, Mid-Atlantic, and New England regions had less representation in the study sample. Table 2 also shows the distribution of establishments by region.

The industry sectors that had more than 100 establishments each were manufacturing; retail trade; construction; health care and social assistance; administrative and support and waste management and remediation services; information; transportation and warehousing; accommodation and food services; finance and insurance; and arts, entertainment, and recreation. Table 2 shows the distribution of establishments by sector.

The primary reasons for layoffs that most establishments in the sample reported were slack work/insufficient demand/nonseasonal slowdown, reorganization or restructuring, contract completion, financial difficulty, an extreme weather-related event, business-ownership change, and contract cancellation. Table 3 shows the distribution of establishments in the sample by primary layoff reason.

Finally, the study categorizes occupations into two general groups: "analytical" and "nonanalytical." This categorization is based on the 2000 Standard Occupational Classification (SOC) system descriptions of tasks performed by each occupation and on Occupational Outlook Handbook descriptions, and are supported by O*NET.7 The SOC definitions of detailed occupations in the analytical group often include words describing analysis. In addition, occupations in the analytical group are related to skills and abilities such as written expression, speaking, critical thinking, and deductive and inductive reasoning. At the major occupational group level, the analytical group includes occupations such as legal, healthcare, and business and financial operations. On the other hand, occupations in the nonanalytical group are related to skills and abilities such as troubleshooting; repairing; dynamic, explosive, static, and trunk strength; and stamina. The nonanalytical group includes occupations such as production; transportation and material moving; office and administrative support; sales, installation, maintenance, and repair; building and grounds cleaning and maintenance; and protective service.

Employment changes by occupation

A comparison of employment before and after layoffs shows that the largest numbers of jobs lost were in occupations that involved clerical or nonanalytical labor; included among these jobs were those in the production, office and administrative support, and transportation and material moving occupational groups. Table 4 shows that, despite layoffs, seven of the occupational groups grew, including legal occupations; healthcare practitioners and technical; healthcare support; and food preparation and serving occupations. Employment in these occupations

Establishments by industry sector, establishment size, and geographic region, sorted by number of establishments in "before layoff" study sample

| Category | Number of establishments in full OES dataset, 1999–2008¹ | Number of unique company/county layoff events in full MLS dataset, 2000–2007 | Number of establishments in "before layoff" study sample | Number of establishments in "after layoff" study sample |
|---|---|--|---|--|
| Total number of establishments | ²2,822,082 | 24,750 | 4,520 | 4,520 |
| Industry group | | | | |
| Goods-producing industries | 374,801 | 12,778 | 2,154 | n/a |
| NAICS 31–33 Manufacturing | 202,453 | 9,321 | 1,604 | n/a |
| NAICS 23 Construction | 152,417 | 3,219 | 504 | n/a |
| NAICS 21 Mining | 10,330 | 238 | 46 | n/a |
| NAICS 11 Farming | 9,601 | 0 | 0 | n/a |
| Service-providing industries | 1,597,846 | 11,972 | 2,366 | n/a |
| NAICS 44–45 Retail trade | 261,270 | 1,717 | 560 | n/a |
| NAICS 62 Health care and social assistance | 192,536 | 1,016 | 298 | n/a |
| NAICS 56 Administrative and support and waste management and remediation services | 123,146 | 1,953 | 265 | n/a |
| NAICS 51 Information | 54,028 | 940 | 263 | n/a |
| NAICS 48–49 Transportation and warehousing | 79,839 | 1,381 | 222 | n/a |
| NAICS 72 Accommodation and food service | 129,017 | 1,235 | 200 | n/a |
| NAICS 52 Finance and insurance | 89,925 | 1,034 | 145 | n/a |
| NAICS 71 Arts, entertainment, and recreation | 45,099 | 348 | 101 | n/a |
| NAICS 81 Other services | 124,662 | 327 | 84 | n/a |
| NAICS 42 Wholesale trade | 134,951 | 689 | 82 | n/a |
| NAICS 54 Professional, scientific, and technical services | 155,903 | 853 | 68 | n/a |
| NAICS 61 Educational services | 74,382 | 117 | 36 | n/a |
| NAICS 22 Utilities | 9,298 | 70 | 15 | n/a |
| NAICS 55 Management of companies and enterprises | 17,427 | 92 | 14 | n/a |
| NAICS 53 Real estate and rental and leasing | 61,439 | 120 | 8 | n/a |
| NAICS 99 Public administration | 44,924 | 80 | 5 | n/a |
| Establishment size ³ | | | | |
| Establishments with 50–249 employees | 544,595 | n/a | 1,835 | 1,893 |
| Establishments with 250–999 employees | 110,750 | n/a | 1,701 | 1,474 |
| Establishments with 1,000 or more employees | 20,759 | n/a | 505 | 420 |
| Establishments with 10–49 employees | 1,106,893 | n/a | 400 | 547 |
| Establishments with 1–9 employees | 1,039,085 | n/a | 79 | 186 |
| Geographic region | | | | |
| West | 454,996 | 5,696 | 1,307 | n/a |
| Midwest | 539,060 | 5,680 | 1,211 | n/a |
| Southeast | 568,758 | 4,262 | 702 | n/a |
| Southwest | 353,174 | 2,264 | 492 | n/a |
| New York-New Jersey | 210,890 | 2,730 | 436 | n/a |
| Mountain-Plains | 213,473 | 1,078 | 251 | n/a |
| Mid-Atlantic | 283,567 | 1,849 | 91 | n/a |
| New England | 198,164 | 1,191 | 30 | n/a |

¹ Excluding Puerto Rico, Virgin Island, Guam

None of these 849,435 establishments were part of the MLS dataset. ³ MLS data do not include establishment size. Although the data include the number of separations, they are not comparable because not all establishments lay off the same proportion of employees.

increased 18 percent, 11 percent, 8 percent, and 4 percent, respectively. The occupational groups that grew were service-providing occupations and, with the exception of food preparation and serving occupations, tended to include higher paying and higher skilled occupations.

Even within the groups with the most job losses, detailed occupations that tended to have workers with more

training and education were least likely to experience layoffs. For instance, the detailed office support occupations whose employment shrank the most tended to have more workers whose educational attainment was a high school diploma and short-term on-the-job training.8 Detailed office support occupations with the greatest losses included customer service representatives; general office clerks;

² There are 849,435 establishments that have only an SIC code and no NAICS code: these establishments are not included in the NAICS data and so the sum of establishments by industry does not equal the total shown.

| Reason for layoff | Number of unique company/ county layoff events in full MLS dataset, 2000–2007 | Number of establishments in "before layoffs" study sample |
|---|---|--|
| Total number of establishments | 24,750 | 4,520 |
| Economic difficulties | 16,700 | 3,078 |
| Slack work/insufficient demand/non-seasonal business slowdown | 4195 | 926 |
| Reorganization or restructuring of company | 3021 | 757 |
| Contract completion | 2424 | 346 |
| Financial difficulty | 1966 | 277 |
| Bankruptcy | 1003 | 39 |
| Business-ownership change | 940 | 116 |
| Contract cancellation | 726 | 115 |
| Extreme weather-related event | 543 | 130 |
| Import competition | 487 | 74 |
| Domestic relocation | 313 | 39 |
| Overseas relocation | 188 | 26 |
| Product line discontinued | 187 | 49 |
| Cost control/cost cutting/increase profitability | 157 | 52 |
| Labor dispute/contract negotiations/strike | 143 | 36 |
| Plant or machine repair/maintenance | 96 | 18 |
| Material or supply shortage | 63 | 16 |
| Automation/technological advances | 39 | 15 |
| Model changeover | 39 | 13 |
| Excess inventory/saturated market | 35 | 4 |
| Non-natural disaster | 32 | 8 |
| Energy related | 30 | 3 |
| Hazardous work environment | 23 | 7 |
| Natural disaster (not weather related) | 23 | 8 |
| Governmental regulations/intervention | 14 | 0 |
| Domestic competition | 13 | 4 |
| Seasonal reasons | 6,072 | 1,304 |
| Seasonal | 4551 | 967 |
| Other seasonal | 916 | 184 |
| Vacation period/school related or otherwise | 605 | 153 |
| Other reasons | 1,978 | 138 |
| Data not provided: refusal | 1061 | 60 |
| Data not provided: does not know | 917 | 78 |

shipping and traffic clerks; first-line supervisors; secretaries (except legal, medical, and executive); bill and account collectors; and data entry keyers. Table 5 shows the 20 occupations with the largest declines in employment levels and table 6 shows those with the largest percent declines. For many of these occupations, most workers had an educational attainment level of high school diploma or equivalent.9

Among office support occupations that grew the most following layoffs were interviewers, medical secretaries, and payroll and timekeeping clerks. Table 7 shows the 20 occupations with the largest increases in employment after layoffs, and table 8 shows those with the largest percent increases. More workers in these occupations had the educational attainment of either a bachelor's degree, or some college or no degree.

Within the production occupations group, detailed occu-

pations with the most losses were team assemblers, miscellaneous metal and plastic workers, electrical and electronic equipment assemblers, slaughterers and meat packers, and first-line supervisors. For these types of assembly and fabrication jobs, a high school diploma was the most prevalent level of education, but experience and additional training were often needed for advanced assembly work. 10 Employment declines due to productivity growth and strong foreign competition in manufacturing¹¹ may have contributed to the job losses evident in the layoff study sample. In fact, a control group (to be explained in the next section) shows that employment in production occupations declined by 2 percent among establishments from 2004 to 2008 regardless of layoff status, while employment in production occupations declined by 20 percent during a similar period in establishments with mass layoffs.

Similarly, transportation occupations that lost the most

| Occupational group | Before layoffs | After layoffs | Change after layoffs | Percent change after layoffs |
|--|----------------|---------------|-------------------------|---------------------------------|
| Production | 560,997 | 441,624 | -119,373 | -21.3 |
| Office and administrative support | 379,743 | 307,211 | -72,532 | -19.1 |
| Transportation and material moving | 227,004 | 186,961 | -40,043 | -17.6 |
| Sales and related | 146,752 | 117,806 | -28,946 | -19.7 |
| Management | 116,128 | 94,388 | -21,740 | -18.7 |
| Installation, maintenance, and repair | 131,028 | 111,526 | -19,502 | -14.9 |
| Architecture and engineering | 125,699 | 106,762 | -18,937 | -15.1 |
| Personal care and service | 121,066 | 105,212 | -15,854 | -13.1 |
| Construction and extraction | 131,891 | 121,397 | -10,494 | -8.0 |
| Arts, design, entertainment, sports, and media | 34,291 | 28,389 | -5,902 | -17.2 |
| Protective service | 26,682 | 21,232 | -5,450 | -20.4 |
| Computer and mathematical science | 102,263 | 97,675 | -4,588 | -4.5 |
| Building and grounds cleaning and maintenance | 62,563 | 60,547 | -2,016 | -3.2 |
| Life, physical, and social science | 21,970 | 20,997 | -973 | -4.4 |
| Community and social services | 7,782 | 7,908 | 126 | 1.6 |
| Business and financial operations | 111,618 | 111,847 | 229 | 0.2 |
| Legal | 3,532 | 4,161 | 629 | 17.8 |
| Education, training, and library | 30,352 | 31,429 | 1,077 | 3.5 |
| Healthcare support | 19,209 | 20,800 | 1,591 | 8.3 |
| Food preparation and serving related | 81,386 | 84,849 | 3,463 | 4.3 |
| Healthcare practitioners and technical | 72,433 | 80,353 | 7,920 | 10.9 |

employment were those which involved predominantly nonanalytical skills and short-term on-the-job training: hand packers and packagers; freight, stock, and material hand movers; and industrial truck drivers. Conversely, employment increased in transportation occupations for jobs that required either more training, or certification or licensure: driver/sales workers, 12 as well as excavating and loading machine and dragline operators (with moderate-term on-the-job training being the most significant source of training for the two kinds of operators).

Although employment in the computer occupational group declined overall, employment grew in some of the most highly skilled occupations in the group: computer applications software engineers (which also saw the thirdhighest growth of all detailed occupations across groups) and computer and network systems analysts. Employment declined, however, among computer programmers and computer support specialists—occupations with job functions that, according to SOC definitions, involve less research and analysis.

Among business and financial operations occupations, employment increased in those which involved analysis and technical skills: management analysts, logisticians, accountants, financial analysts, and personal financial advisors. The most significant source of education for the five specified occupations was a bachelor's degree, and several of the occupations had high proportions of workers at the highest educational attainment level (doctoral

or professional degree). Conversely, most employment losses in this group were among occupations that generally required less academic preparation—training and development specialists, buyers, and cost estimators. The most significant source of education for buyers was longterm on-the-job training, and none of the aforementioned three occupations had high proportions of workers who had attained the highest educational level.¹³

The net number of jobs lost in each occupational group is a result of the rates at which companies laid off different types of workers, as well as the types of workers that tended to be employed in companies that had layoffs. To isolate these factors, the percent change is useful for assessing employment growth and decline relative to an occupation's initial employment level. (See tables 6 and 8.) The occupational groups that had the largest percent declines in employment were production, protective service, sales and related occupations, office and administrative support, and management. The groups with the highest percent growth in firms with mass layoffs were legal occupations and healthcare practitioner occupations. Healthcare practitioners; food preparation and serving; healthcare support; and education, training, and library occupations were the occupational groups with the highest levels of growth in employment. Some of the detailed occupations that grew were service-related occupations and included registered nurses, waiters and waitresses, cashiers, and interviewers. (See table 7.)

| | | | | Emplo | oyment | | Establishments | | | |
|---------|---|---------------------------------------|-------------------|------------------|---------|-------------------|---------------------------------|--------------------------------|---|--|
| SOC | Occupation | Occupational group | Before layoffs | After layoffs | Change | Percent change | Number reporting before layoffs | Number reporting after layoffs | Percent change in number reporting | |
| 51-2092 | Team assemblers | Production | 85,058 | 63,870 | -21,188 | -24.9 | 496 | 507 | 2.2 | |
| 41-2031 | Retail salespersons | Sales and related | 45,972 | 34,116 | -11,856 | -25.8 | 491 | 508 | 3.5 | |
| 43–4051 | Customer service representatives | Office and administrative support | 55,650 | 43,832 | -11,818 | -21.2 | 1394 | 1429 | 2.5 | |
| 51–4199 | Metal workers and plastic workers, all other | Production | 16,930 | 6,341 | -10,589 | -62.5 | 105 | 80 | -23.8 | |
| 51–2022 | Electrical and electronic equipment assemblers | Production | 22,914 | 14,684 | -8,230 | -35.9 | 186 | 177 | -4.8 | |
| 51–3023 | Slaughterers and meat packers | Production | 14,358 | 6,149 | -8,209 | -57.2 | 30 | 21 | -30.0 | |
| 53–7064 | Packers and packagers, hand | Transportation and material moving | 23,890 | 15,736 | -8,154 | -34.1 | 596 | 491 | -17.6 | |
| 51–1011 | First-line supervisors/managers of production and operating workers | Production | 30,617 | 22,657 | -7,960 | -26.0 | 1678 | 1578 | -6.0 | |
| 39–3091 | Amusement and recreation attendants | Personal care and service | 13,936 | 6,508 | -7,428 | -53.3 | 77 | 90 | 16.9 | |
| 43–9061 | Office clerks, general | Office and administrative support | 29,746 | 22,661 | -7,085 | -23.8 | 2004 | 1921 | -4.1 | |
| 15–1021 | Computer programmers | Computer and mathematical science | 13,857 | 7,183 | -6,674 | -48.2 | 697 | 528 | -24.2 | |
| 51–9061 | Inspectors, testers, sorters, samplers, and weighers | Production | 31,934 | 25,396 | -6,538 | -20.5 | 1170 | 1148 | -1.9 | |
| 51-9199 | Production workers, all other | Production | 25,968 | 19,498 | -6,470 | -24.9 | 375 | 309 | -17.6 | |
| 53–7062 | Laborers and freight, stock, and material movers, hand | Transportation and material moving | 52,270 | 45,992 | -6,278 | -12.0 | 1269 | 1244 | -2.0 | |
| 43–5071 | Shipping, receiving, and traffic clerks | Office and administrative support | 20,581 | 14,607 | -5,974 | -29.0 | 1678 | 1582 | -5.7 | |
| 41-9041 | Telemarketers | Sales and related | 13,182 | 7,586 | -5,596 | -42.5 | 117 | 113 | -3.4 | |
| 49-9042 | Maintenance and repair workers, general | Installation, maintenance, and repair | 32,387 | 26,801 | -5,586 | -17.2 | 1831 | 1907 | 4.2 | |
| 17–2199 | Engineers, all other | Architecture and engineering | 18,085 | 12,579 | -5,506 | -30.4 | 405 | 311 | -23.2 | |
| 53–7051 | Industrial truck and tractor operators | Transportation and material moving | 24,398 | 18,943 | -5,455 | -22.4 | 919 | 858 | -6.6 | |
| 11-9199 | Managers, all other | Management | 15,221 | 9,852 | -5,369 | -35.3 | 914 | 739 | -19.1 | |

Comparison with a control group. A control group serves to compare staffing changes among establishments that experienced layoffs with occupational changes in the economy as a whole. The change in published OES estimated employment from May 2004 to May 2008 was used as the control group. The May 2004 estimates are based on employment staffing patterns from November 2001 to May 2004. Likewise, the May 2008 estimates are based on staffing patterns from November 2005 to May 2008. These periods cover a large portion of the study sample frame. The employment changes for establishments that had layoffs and for the economy as a whole are shown in chart 1. The distance and direction from the 45-degree line show the differences in behavior between establish-

ments with layoffs and the economy as a whole. Legal occupations make up the only occupational group above the 45-degree line; the group is the only one that grew more in establishments with layoffs than in the control group

Quadrant I comprises occupational groups with employment growth in establishments that had layoffs (the study group) and in the economy as a whole (the control group). Groups that grew in employment in both the study and control subsets included healthcare and legal occupations; food preparation and serving; and education, training, and library occupations.

Occupational groups whose employment shrank in the study subset but grew in the control subset are shown in quadrant II. These groups were the most vulnerable to

| | | | | Emplo | yment | | Es | tablishmer | nts |
|---------|---|--|-------------------|------------------|--------|-------------------|---------------------------------|--------------------------------|---|
| SOC | Occupation | Occupational group | Before layoffs | After layoffs | Change | Percent change | Number reporting before layoffs | Number reporting after layoffs | Percent change in number reporting |
| 53-7072 | Pump operators, except wellhead pumpers | Transportation and material moving | 511 | 36 | -475 | -93.0 | 19 | 7 | -63.2 |
| 33-2011 | Fire fighters | Protective service | 2,850 | 240 | -2,610 | -91.6 | 16 | 11 | -31.3 |
| 43-2099 | Communications equipment operators, all other | Office and administra- tive support | 615 | 57 | -558 | -90.7 | 33 | 8 | -75.8 |
| 15-2099 | Mathematical scientists, all other | Computer and mathematical science | 365 | 37 | -328 | -89.9 | 17 | 10 | -41.2 |
| 51-6091 | Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers | Production | 3,933 | 427 | -3,506 | -89.1 | 17 | 15 | -11.8 |
| 49-2095 | Electrical and electronics repairers, powerhouse, substation, and relay | Installation, mainte- nance, and repair | 888 | 112 | -776 | -87.4 | 24 | 14 | -41.7 |
| 51-8012 | Power distributors and dispatchers | Production | 276 | 36 | -240 | -87.0 | 15 | 5 | -66.7 |
| 51-7099 | Woodworkers, all other | Production | 621 | 91 | -530 | -85.3 | 24 | 12 | -50.0 |
| 39-9021 | Personal and home care aides | Personal care and service | 2,140 | 323 | -1,817 | -84.9 | 26 | 14 | -46.2 |
| 53-2012 | Commercial pilots | Transportation and material moving | 1,438 | 273 | -1,165 | -81.0 | 30 | 32 | 6.7 |
| 51-2093 | Timing device assemblers, adjusters, and calibrators | Production | 431 | 106 | -325 | -75.4 | 13 | 10 | -23.1 |
| 43-5111 | Weighers, measurers, checkers, and samplers, recordkeeping | Office and administra- tive support | 5,560 | 1,407 | -4,153 | -74.7 | 325 | 251 | -22.8 |
| 51-4194 | Tool grinders, filers, and sharpeners | Production | 1,253 | 321 | -932 | -74.4 | 125 | 64 | -48.8 |
| 17-3021 | Aerospace engineering and operations technicians | Architecture and engineering | 2,618 | 735 | -1,883 | -71.9 | 30 | 21 | -30.0 |
| 51-2021 | Coil winders, tapers, and finishers | Production | 1,490 | 432 | -1,058 | -71.0 | 35 | 23 | -34.3 |
| 29-1199 | Health diagnosing and treating practitioners, all other | Healthcare practitioners and technical | 1,689 | 503 | -1,186 | -70.2 | 43 | 22 | -48.8 |
| 27-1027 | Set and exhibit designers | Arts, design, entertain- ment, sports, and media | 156 | 47 | -109 | -69.9 | 16 | 12 | -25.0 |
| 51-7031 | Model makers, wood | Production | 318 | 96 | -222 | -69.8 | 25 | 16 | -36.0 |
| 49-9045 | Refractory materials repairers, except brickmasons | Installation, mainte- nance, and repair | 81 | 25 | -56 | -69.1 | 10 | 6 | -40.0 |
| 27-4014 | Sound engineering technicians | Arts, design, entertain- ment, sports, and | | | | | | | |
| | | media | 277 | 86 | -191 | -69.0 | 30 | 19 | -36.7 |

layoff in struggling businesses despite overall growth elsewhere in the economy. The occupations with the greatest inverse relationship were arts, design, entertainment, sports, and media; sales; and protective service occupations. Quadrant III shows occupational groups whose employment shrank in both the control and study groups: production, transportation, and material moving; and management occupations.14

Finally, for comparison with another type of control, table 2 shows the distribution of the full OES dataset from 1999 to May 2008 by region, industry sector, and establishment size. Table 3 shows the distribution of the full MLS dataset of unique company/county layoff events from 2000 to 2007 by reason for layoff. A comparison shows

that the sample is representative of the full data set, but there are some exceptions. For example, manufacturing had more representation in the study sample than in the control group, which might explain why we see such large employment changes in production occupations.

Regression analysis. Comparing the employment change in the study group with published estimates of employment change is useful in assessing whether the study's results are reflected in the economy overall. Formal regression analysis achieves the same goal but also lets us empirically control for other factors, such as industry, geographic region, establishment size, and time between observations.

| | | | | Emplo | yment | Es | tablishmer | nts | |
|---------|---|--|-------------------|------------------|--------|-------------------|---------------------------------|--------------------------------|---|
| SOC | Occupation | Occupational group | Before layoffs | After layoffs | Change | Percent change | Number reporting before layoffs | Number reporting after layoffs | Percent change in number reporting |
| 29–1111 | Registered nurses | Healthcare practitioners and technical | 34,917 | 40,876 | 5,959 | 17.1 | 321 | 291 | -9.3 |
| 51–2031 | Engine and other machine assemblers | Production | 2,925 | 8,015 | 5,090 | 174.0 | 46 | 37 | -19.6 |
| 15–1031 | Computer software engineers, applications | Computer and math- ematical science | 16,704 | 21,679 | 4,975 | 29.8 | 393 | 447 | 13.7 |
| 51–2099 | Assemblers and fabricators, all other | Production | 42,913 | 46,901 | 3,988 | 9.3 | 257 | 190 | -26.1 |
| 35–3031 | Waiters and waitresses | Food preparation and serving related | 18,934 | 22,356 | 3,422 | 18.1 | 211 | 200 | -5.2 |
| 41-2011 | Cashiers | Sales and related | 23,293 | 26,514 | 3,221 | 13.8 | 669 | 655 | -2.1 |
| 43–4111 | Interviewers, except eligibility and loan | Office and administra- tive support | 4,294 | 7,057 | 2,763 | 64.3 | 79 | 90 | 13.9 |
| 13–1111 | Management analysts | Business and financial operations | 8,645 | 11,408 | 2,763 | 32.0 | 461 | 568 | 23.2 |
| 35–3022 | Counter attendants, cafeteria, food concession, and coffee shop | Food preparation and serving related | 4,183 | 6,928 | 2,745 | 65.6 | 174 | 155 | -10.9 |
| 17–2072 | Electronics engineers, except computer | Architecture and engi- neering | 6,205 | 8,779 | 2,574 | 41.5 | 205 | 224 | 9.3 |
| 51–9023 | Mixing and blending machine setters, operators, and tenders | Production | 3,293 | 5,558 | 2,265 | 68.8 | 188 | 172 | -8.5 |
| 13–1081 | Logisticians | Business and financial operations | 1,857 | 4,098 | 2,241 | 120.7 | 219 | 342 | 56.2 |
| 41–3099 | Sales representatives, services, all other | Sales and related | 6,002 | 7,879 | 1,877 | 31.3 | 214 | 458 | 114.0 |
| 31–1012 | Nursing aides, orderlies, and attendants | Healthcare support | 9,278 | 11,134 | 1,856 | 20.0 | 78 | 82 | 5.1 |
| 49–2022 | Telecommunications equipment installers and repairers, except line installers | Installation, mainte- nance, and repair | 4,898 | 6,708 | 1,810 | 37.0 | 141 | 158 | 12.1 |
| 49–9041 | Industrial machinery mechanics | Installation, mainte- nance, and repair | 10,244 | 11,929 | 1,685 | 16.4 | 484 | 558 | 15.3 |
| 19–1042 | Medical scientists, except epidemiologists | Life, physical, and social science | 1,522 | 3,203 | 1,681 | 110.4 | 37 | 36 | -2.7 |
| 47–2081 | Drywall and ceiling tile installers | Construction and extraction | 2,349 | 4,027 | 1,678 | 71.4 | 30 | 34 | 13.3 |
| 13–1079 | Human resources, training, and la- bor relations specialists, all other | Business and financial operations | 2,586 | 4,247 | 1,661 | 64.2 | 517 | 889 | 72.0 |
| 19–3021 | Market research analysts | Life, physical, and social science | 4,769 | 6,405 | 1,636 | 34.3 | 387 | 477 | 23.3 |

Two sets of OES observations were created to run a regression. The study group was the set of 4,520 establishments that had layoffs. The control group was the set of 205,339 establishments that reported twice to the OES survey in the study period—once in the 1999–2000 period and then again between November 2005 and May 2008—that was not in the study group.

There were 206,377 establishments that reported to OES in both sets. Approximately 1,000 establishments that had been in both the control group and the study group were deleted from the control group to prevent duplication, resulting in 205,339 remaining control observations. For each pair of matching establishments, the change in employment by occupational group was calculated. The other variables for this data set were region, goods-producing or service-providing industry groups, establishment size, and time between observations. The regression was based on a total of 209,859 records.

The econometric model used was

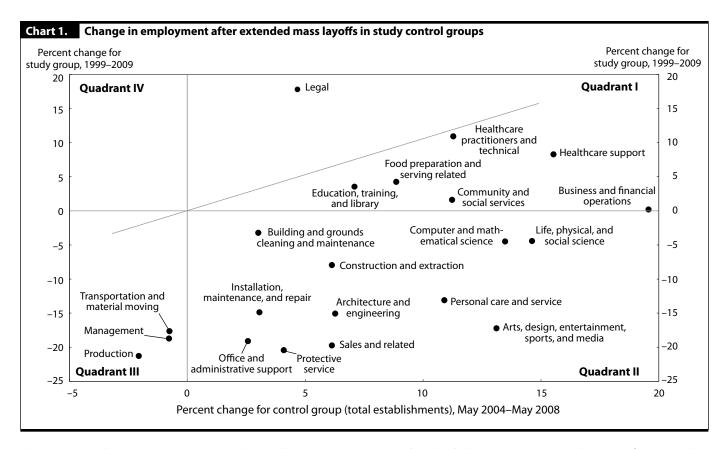
 Δ employment_{SOC} major group = $\beta_0 + \beta_1$ layoff_i + β_2 goods + β_3 totalemp_first_i + $\Sigma_j \delta_j I$ (geographic region_{ji}) + $\sum_{i} \gamma_{i} I$ (number of years between observations_{ii}) + ε_{i} ,

| | | | | Emplo | yment | | Es | Establishments | | | |
|---------|--|---|-------------------|------------------|--------|-------------------|--|--------------------------------|---|--|--|
| soc | Occupation | Occupational group | Before layoffs | After layoffs | Change | Percent change | Number reporting before layoffs | Number reporting after layoffs | Percent change in number reporting | | |
| 43-4061 | Eligibility interviewers, | Office and administrative support | 98 | 412 | 314 | 320.4 | 15 | 15 | 0.0 | | |
| 19-1012 | Food scientists and technologists | Life, physical, and social science | 60 | 191 | 131 | 218.3 | 19 | 44 | 131.6 | | |
| 39-9041 | Residential advisors | Personal care and service | 78 | 237 | 159 | 203.8 | 13 | 12 | -7.7 | | |
| 51-9193 | Cooling and freezing equip- ment operators and tenders | Production | 139 | 405 | 266 | 191.4 | 20 | 32 | 60.0 | | |
| 19-2012 | Physicists | Life, physical, and social science | 179 | 509 | 330 | 184.4 | 14 | 16 | 14.3 | | |
| 51-2031 | Engine and other machine assemblers | Production | 2,925 | 8,015 | 5,090 | 174.0 | 46 | 37 | -19.6 | | |
| 29-1129 | Therapists, all other | Healthcare practitioners and technical | 43 | 114 | 71 | 165.1 | 13 | 13 | 0.0 | | |
| 19-4011 | Agricultural and food science technicians | Life, physical, and social science | 194 | 506 | 312 | 160.8 | 42 | 40 | -4.8 | | |
| 35-2019 | Cooks, all other | Food preparation and serving related | 67 | 174 | 107 | 159.7 | 11 | 24 | 118.2 | | |
| 47-3011 | Helpers—brickmasons, block- masons, stonemasons, and tile and marble setters | Construction and extraction | 159 | 395 | 236 | 148.4 | 12 | 14 | 16.7 | | |
| 39-6032 | Transportation attendants, except flight attendants and baggage porters | Personal care and service | 933 | 2,239 | 1,306 | 140.0 | 29 | 31 | 6.9 | | |
| 11-9039 | Education administrators, all other | Management | 61 | 141 | 80 | 131.1 | 16 | 23 | 43.8 | | |
| 47-3014 | Helpers—painters, paperhang- ers, plasterers, and stucco masons | Construction and extraction | 131 | 300 | 169 | 129.0 | 12 | 19 | 58.3 | | |
| 29-9011 | Occupational health and safety specialists | Healthcare practitioners and technical | 438 | 992 | 554 | 126.5 | 180 | 293 | 62.8 | | |
| 27-1025 | Interior designers | Arts, design, entertain- ment, sports, and media | 175 | 394 | 219 | 125.1 | 37 | 67 | 81.1 | | |
| 29-9012 | Occupational health and safety technicians | Healthcare practitioners and technical | 142 | 316 | 174 | 122.5 | 44 | 85 | 93.2 | | |
| 13-1081 | Logisticians | Business and financial operations | 1,857 | 4,098 | 2,241 | 120.7 | 219 | 342 | 56.2 | | |
| 19-1042 | Medical scientists, except epidemiologists | Life, physical, and social science | 1,522 | 3,203 | 1,681 | 110.4 | 37 | 36 | -2.7 | | |
| 49-2098 | Security and fire alarm systems installers | Installation, maintenance, and repair | 271 | 563 | 292 | 107.7 | 20 | 13 | -35.0 | | |
| 11-3049 | Human resources managers, all other | Management | 909 | 1,851 | 942 | 103.6 | 331 | 637 | 92.4 | | |

where the dependent variable was the change in employment level for each major occupational group, calculated with the use of the first and second employment levels reported for each occupational group. Layoff was an indicator dummy variable for whether the establishment had a layoff; where layoff i = 1, a layoff occurred. Goods was a dummy variable for the combined goods-producing industries, as opposed to the service-providing industries. *Totalemp_first* was the total employment at the time of the first observation of the establishment. The geographic region dummy variables indicated geographic regions: West,

Southwest, Southeast, Mountain-Plains, New York-New Jersey, Midwest, Mid-Atlantic, and New England (captured in the intercept). Finally, there were nine dummy variables representing the number of years between observations, ranging from 1 to 9; 9 years was captured in the intercept.

In each of the 21 regressions, the significance of the layoff coefficient indicates whether the establishments in the study group were statistically different from establishments in the control group after controlling for these other variables. For example, some of the employment



change in production occupations in the study group may have been affected by the manufacturing plants that were letting production workers go regardless of whether the plant had mass layoffs. Appendix table A-1 shows the output for these regressions.

Of the 21 layoff indicator coefficients, 14 were statistically different from zero at the 5-percent significance level. Appendix table A-1 shows the layoff variable coefficients and their p-values. Because the dependent variable is the change in employment level, the coefficients of the variables are interpreted as the additional change in the employment of an occupation because of layoff.

Controlling for the preceding variables, the model indicated that an extended mass layoff was associated with a decline in employment for the following occupational groups: production; office and administrative support; sales and related; management; transportation and material moving; architecture and engineering; installation, maintenance, and repair; construction and extraction; personal care and service; and arts, design, entertainment, sports, and media. An extended mass layoff was associated with an additional employment decline of 20.8 percent in production occupations, on average.

Conversely, with the same variables controlled for, an extended mass layoff was associated with growth in employment for the following occupational groups (presented in descending order of magnitude of growth): food preparation and serving related; building and grounds cleaning and maintenance; business and financial operations; and legal.

These results are consistent with those set forth in the previous section, with some exceptions. The occupational groups with the largest declines in employment using regression also shrank relative to the control group in the first comparisons. That is, the occupations with the largest declines in the regression were generally in the lower left area of chart 1 (quadrant III and part of quadrant II); this is where declines were large in the group with layoffs relative to the economy as a whole. For the most part, occupational groups with differences that were not significant in the regression comparison were closest to the 45 degree line in the chart.

The largest differences between outcomes were in building and grounds cleaning and maintenance occupations and food preparation and serving related occupations. In the initial comparison, building and grounds cleaning and maintenance occupations grew in the economy and shrank in the layoff group. The regression comparison indicates that building and grounds cleaning and maintenances occupations grew more in the layoff group relative to the

control group. In both comparisons, food service occupations grew in the layoff group and in the control group. In the initial comparison to the economy as a whole, food service occupations grew less in the layoff group than in the control group; in the regression comparison to a control group, the food service occupations grew more in the layoff group than in the control group.

Differences in the comparison may in part be due to the differences in the control groups. The first control group, where the control is the entire economy, captures growth as a result of new establishments and may include a better representation of smaller establishments. The second control group, which matches existing establishments at two points in time, does not capture any "births," or new establishments, in the comparison period. Also, because the OES survey uses a probability-proportional-to-size sample, it is less likely that the matched set includes smaller establishments.

Seasonal versus "economic difficulties" reasons for layoffs. Another regression analysis was conducted to determine whether occupational changes differed significantly—after controlling for industry, region, time between observations, and establishment size—depending on whether the layoff was due to seasonal reasons. On the basis of the 4,520 observations from the study sample, the primary layoff reasons were grouped into three broad categories: "economic difficulties," "seasonal," and "other." The "economic difficulties" category included business demand, financial difficulty, reorganization or restructuring of the company, production, and domestic and overseas relocation reasons. The "other" category covered disaster/safety reasons and unidentified reasons. The "seasonal" category included seasonal, vacation period/school related or otherwise, and other seasonal reasons.¹⁵

The regression model used was

 Δ employment_{SOC major group} = $\beta_0 + \beta_1$ layoff_i × economic_i + β_2 layoff_i × seasonal_i + β_3 goods + β_4 totalemp_before_i + $\Sigma_i \delta_i I(\text{geographic region}_{ii}) + \Sigma_i \gamma_i I(\text{number of years between})$ observations_{ii}) + ε_i ,

where the dependent variable was the change in employment level for each SOC major occupational group, calculated with the use of employment levels reported for each occupational group in each establishment before and after layoff. Layoff was a dummy variable indicating whether the establishment had a layoff; where layoff i = 1, a layoff occurred. (In this data set, all observations had a lay-

off; value of 1.) Economic, seasonal, and other were dummy variables indicating the broad category of "reason for layoff." Goods was a dummy variable for the combined goodsproducing industries, as opposed to the service-providing industries. *Totalemp_before* was the total employment at the time of the first observation of the establishment. The geographic region dummy variables indicated geographic region: New England (captured in the intercept), New York-New Jersey, Mid-Atlantic, Southeast, Midwest, Southwest, Mountain-Plains, and West. Finally, there were nine dummy variables representing the number of years between observations, ranging from 1 to 9; 9 years was captured in the intercept.

Appendix table A-2 shows the output of these regressions. In none of the 21 regressions were the two reason variables (economic and seasonal) statistically different from each other at the 90-percent confidence level. This finding suggests that, after other variables were controlled for, the occupational changes did not differ significantly between seasonal and economic layoff reasons. The data show that, in the long term, establishments that had seasonal layoffs had staffing changes that were similar to establishments that had layoffs because of economic difficulties.¹⁶ It should be noted that some establishments that report seasonal change as their primary reason for layoff might also be undergoing other staffing changes. Because OES surveys take place at the same time each year, changes as a result of seasonal effects are mixed with other effects.

Occupations eliminated from establishments after layoffs. Another way to examine the effects of mass layoffs on jobs in a particular occupation is to look at the change in the number of establishments reporting employment in that occupation after the layoff. This approach allows an examination of whether and how often establishments choose to eliminate all workers in a certain occupation or, alternatively, choose to retain at least some employees in that occupation.

The occupations whose employment count changed from positive to zero were those which performed functions that businesses shed completely or outsourced after layoffs. These occupations were predominantly auxiliary administrative and managerial. The group whose occupations were most likely to be eliminated from establishments after layoffs was office and administrative support. Switchboard operators, including answering service, topped the list, with 363 establishments eliminating the occupation completely; the number of establishments reporting them dropped from 781 to 418. Several human resources occupations had the same fate: employment,

recruitment, and placement specialists; training and development specialists; human resources assistants; and payroll and timekeeping clerks. Other supporting administrative occupations affected were computer operators, data entry keyers, file and procurement clerks, and janitors and cleaners.

Conversely, establishments reporting occupations commonly found in many businesses such as general managers and administrative clerks (bookkeeping, general office, shipping, and payroll) tended to keep at least one of the employees in those occupations. The share of establishments completely eliminating these occupations was relatively low, ranging from 1 percent to 12 percent. Workers fulfilling these business functions apparently were considered essential for maintaining the basic operations of the company.

Many of the occupations with the largest employment losses overall were essential, or core, to their business, so the occupations tended to be retained within the establishment, although at much lower levels of employment. In fact, the three occupations with the largest employment declines—team assemblers, retail salespersons, and customer service representatives—existed in more establishments after layoffs than before; the number of jobs in the occupation, however, was smaller after the layoffs. Similarly, although employment in sales occupations declined overall by almost 29,000 jobs, more establishments reported having employment in sales occupations after layoffs. This finding could be a result of shifts in staffing patterns after restructuring. The effect of layoffs on employment in core occupations is discussed further in the next section.

Occupational changes by industry sector

This section examines occupational employment changes within and across industry groups. The first analysis shows that, within sectors, core occupations generally were retained. Looking across sectors, the second analysis uses regression to see how these changes differed between the goods-producing and service-providing industry groups.

Employment changes within sectors. Examining employment changes by industry sector provides insight into the effects of mass layoffs on the occupational structure of specific types of businesses. It allows the identification of core and support business functions in different industries and shows that the severity of mass layoffs in terms of job loss varied by occupation and the industry of the business experiencing a layoff.

After layoffs, industry sectors that followed the pattern of reducing employment in occupations requiring less specialized skills and maintaining or increasing employment in analytical occupations included information; finance and insurance; professional, scientific, and technical services; and the durable goods portion of the manufacturing sector. Examples of occupations with reduced employment in these sectors were sales and office workers; examples of occupations with increased employment were various types of analysts and engineers. These industry sectors—and particularly the durable goods manufacturing portion of the manufacturing sector—experienced large numbers of layoff events during the study period.

Establishments were more likely to retain employment in occupations that were core to their industry. (See table 9.) For example, employment in business and financial operations occupations grew in finance and insurance establishments with layoffs. The same was observed among teachers in the education sector, as well as among healthcare workers in hospitals, extraction workers in mining, and computer and mathematical science occupations in the information sector. Other sectors saw smaller declines in core occupations than in occupations that have support functions. For example, in the manufacturing industries, most occupational groups saw decreases, but production workers had lower percent declines in manufacturing than in several other industries. The same pattern was observed in core occupations for other industries, including installation and maintenance occupations in the utilities sector, transportation and material moving occupations in the transportation sector, and personal care and service and food preparation occupations in the accommodation and food services sector.

The overall pattern of reducing the number of jobs in occupations requiring less specialized skills and retaining jobs in analytical occupations was driven by the industry sectors with relatively large numbers of layoff events. These sectors included information (NAICS 51); finance and insurance (NAICS 52); professional, scientific, and technical services (NAICS 54); and the durable goods portion of the manufacturing sector (NAICS 33). Employment declined in these sectors for occupations requiring less specialized skills, such as sales and office workers, while increasing for various types of analysts and engineers.

In the fourth quarter of 2007, manufacturing industries accounted for 24 percent of private nonfarm extended layoff events. This study reflects that distribution, with the three manufacturing components—food, wood, and durable goods—experiencing the largest net losses in employment compared to other industries. In durable

| | Go | ods-produc | ing indu | stries gro | up | Infor- mation | | ncial ⁄ities | Professi | onal and bu | ısiness services |
|---|----------------|---------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|---------------------------------------|--|---|--|--|
| Occupational group | Mining (21) | Con- struction (23) | Manu- factur- ing (31) | Manu- factur- ing (32) | Manu- factur- ing (33) | Infor- mation (51) | Finance and in- surance (52) | Real es- tate and rental and leasing (53) | Professional, scientific, and technical services (54) | Manage- ment of compa- nies and enter- prises (55) | Administrative and support and waste manage- ment and reme- diation services (56) |
| Management | 18.7 | -3.4 | -43.2 | -11.5 | -13.9 | -51.0 | 2.4 | -43.8 | 5.3 | -59.2 | -27.7 |
| Business and financial operations | 118.6 | 20.2 | -29.2 | -17.0 | -1.7 | 6.6 | 2.1 | 2.5 | 59.8 | -26.7 | 2.9 |
| Computer and mathematical science | 57.6 | 5 | -43.4 | .1 | -10.6 | 13.8 | 11.6 | -28.7 | -16.1 | 3.3 | -17.9 |
| Architecture and engineering | 2.2 | -14.0 | -48.5 | -32.7 | -13.8 | -19.6 | 29.8 | .0 | -14.1 | 67.6 | -48.9 |
| Life, physical, and social science | 50.9 | 26.3 | 8.2 | -15.3 | -23.6 | 9.5 | 80.0 | (¹) | -2.1 | (1) | 8.0 |
| Community and social services | .0 | .0 | (1) | (1) | .0 | (1) | -54.5 | .0 | (1) | (1) | 218.0 |
| Legal | (¹) | 211.1 | -47.6 | 85.0 | 25.5 | 13.4 | 9.7 | (¹) | -14.0 | 2.6 | -3.8 |
| Education, training, and library | .0 | (1) | (1) | -100.0 | -6.7 | -71.9 | 94.1 | .0 | 37.5 | 12.8 | 91.2 |
| Arts, design, entertain- ment, sports, and media | (1) | -54.0 | -19.1 | 108.2 | .4 | -5.9 | 1.5 | -67.7 | -4.2 | -1.0 | -41.5 |
| Healthcare practitioners and technical | -11.7 | -20.6 | 12.6 | 91.0 | -19.7 | 73.9 | 14.3 | (¹) | -70.0 | -17.5 | 8.6 |
| Healthcare support | .0 | (1) | (1) | .0 | -50.0 | .0 | -23.3 | .0 | (1) | (1) | -64.9 |
| Protective service | 6.7 | -2.2 | -55.0 | -50.8 | -27.0 | -54.0 | -7.9 | -42.9 | .0 | -14.3 | -14.5 |
| Food preparation and serving related | (1) | -27.1 | 216.8 | -90.9 | -63.0 | -75.0 | 138.1 | -24.7 | (1) | -23.9 | 16.4 |
| Building and grounds cleaning and mainte- | | | | | | | | | | | |
| nance | 70.0 | -18.4 | -16.7 | -38.6 | -42.4 | -60.2 | -48.9 | (¹) | 46.0 | .6 | -1.5 |
| Personal care and service | (1) | -50.7 | (¹) | (1) | -50.0 | -55.4 | (1) | .0 | (¹) | -7.8 | 30.1 |
| Sales and related Office and administrative support | 208.6 | -31.6 4.1 | -24.0 -21.2 | 61.8 -16.5 | -16.5 -21.6 | -41.7 -34.3 | -35.2 -33.2 | -71.0 31.6 | –5.9 –21.7 | -73.8 -21.2 | -36.9 -20.6 |
| Construction and extraction | 25.5 | -2.8 | -42.6 | -35.9 | -29.2 | -57.3 | (1) | (¹) | -71.9 | (1) | 21.4 |
| Installation, maintenance, and repair | 3.9 | 7.4 | -13.0 | -27.2 | -22.6 | 8.1 | -26.8 | .0 | -60.4 | -22.3 | 12.1 |
| Production | -30.4 | 42.2 | -23.4 | -20.2 | -22.8 | -28.1 | 61.2 | (1) | -58.2 | -34.9 | 11.0 |
| Transportation and mate- | -12.8 | .0 | -17.0 | -30.9 | -22.1 | -47.9 | 31.4 | .2 | 3.4 | -65.9 | 8.2 |

goods manufacturing—which had the largest net employment loss of the three manufacturing components in the study—losses in employment levels were mostly in production occupations, such as team assemblers, electrical equipment assemblers, and weighers. Durable goods manufacturers hired workers in analytical occupations, such as electronics engineers, computer applications software engineers, and logisticians.

Within durable goods manufacturing, transportation

equipment manufacturing (NAICS 336) had the highest net employment loss. Table 10 shows the transportation equipment manufacturing occupations that shrank by more than 1,000 jobs in the study group. Most of the losses were in production occupations. Some occupations that grew were related to product design and engineering: computer software applications engineers, logisticians, commercial and industrial designers, and mechanical engineers.

| | | Trade, tra | insportati | ion, and ι | ıtilities | | | ion and h care | Leisur hospi | | Other ser- vices | Public admin- istration |
|---|-------------------|---------------------------------|-------------------------|-------------------------|----------------------------------|-------------------------------|---|---|--|--|--------------------------------|---------------------------------------|
| Occupational group | Utilities (22) | Whole- sale trade (42) | Retail trade (44) | Retail trade (45) | Trans- porta- tion (48) | Ware- hous- ing (49) | Educa- tional ser- vices (61) | Health care and social assis- tance (62) | Arts, entertain- ment, and recreation (71) | Accom- modation and food services (72) | Other ser- vices (81) | Public admin- istration (99) |
| Management | -21.9 | -28.4 | -34.4 | -17.0 | -25.1 | -26.0 | -6.9 | -7.7 | -7.6 | -25.1 | -11.3 | -3.5 |
| Business and financial operations | -24.1 | -22.7 | 1.4 | 8.6 | -11.2 | 13.9 | -2.3 | 6.4 | 48.2 | 9.9 | 25.4 | -16.4 |
| Computer and mathematical science | -37.3 | -26.5 | -1.8 | -9.6 | 13.2 | 31.9 | 1.6 | 4.0 | 57.9 | -2.4 | 86.4 | -30.1 |
| Architecture and engineering | -74.4 | 21.8 | -43.0 | -55.8 | -45.6 | 78.4 | 35.0 | -46.1 | 409.4 | -54.8 | -4.4 | -69.7 |
| Life, physical, and social science | -94.5 | -34.3 | 9.4 | -40.4 | -10.6 | .0 | 84.5 | -7.7 | -8.8 | -62.7 | 14.3 | (1) |
| Community and social services | .0 | .0 | .0 | .0 | (1) | .0 | -33.9 | 10.4 | (1) | (¹) | -29.3 | .0 |
| Legal | 20.8 | -31.5 | 270.0 | 81.3 | -29.5 | (1) | 33.3 | 104.5 | 472.7 | 109.1 | (1) | (1) |
| Education, training, and library | (1) | (1) | (¹) | (1) | -46.0 | .0 | 2.7 | 5.0 | -23.2 | -22.2 | 13.5 | (1) |
| Arts, design, entertain- ment, sports, and media | 161.4 | -19.2 | 21.1 | 34.4 | -9.9 | -90.0 | 12.6 | 22.9 | -48.6 | 9.4 | 126.6 | -42.8 |
| Healthcare practitioners and technical | (1) | -47.1 | 55.1 | 13.8 | -33.8 | 31.3 | -2.0 | 12.1 | -10.6 | 93.6 | 21.1 | (1) |
| Healthcare support | .0 | .0 | -38.0 | 108.2 | -19.4 | (1) | -5.0 | 11.4 | -91.4 | 48.7 | (¹) | .0 |
| Protective service | -91.9 | -44.7 | -68.1 | -12.3 | -10.2 | -34.1 | -11.0 | 9.7 | -35.9 | -1.8 | -42.0 | (¹) |
| Food preparation and serving related | .0 | -99.0 | 13.2 | -30.4 | 24.4 | (¹) | 15.4 | .5 | 76.3 | -6.5 | 23.5 | (1) |
| Building and grounds cleaning and maintenance | -81.4 | 35.9 | -49.0 | -22.2 | 13.0 | -64.7 | -2.2 | 8.7 | 52.4 | -5.0 | -16.4 | -35.9 |
| Personal care and service | (1) | .0 | -43.1 | -4.3 | -9.7 | (1) | -59.2 | -39.0 | -24.9 | -5.0 | 6 | .0 |
| Sales and related | 90.8 | -46.1 | 14.2 | -21.6 | -14.4 | -19.0 | 7.6 | 23.6 | -40.3 | -13.9 | -32.5 | 2400.0 |
| Office and administrative support | -40.5 | -33.7 | -10.7 | -11.9 | -21.3 | 42.9 | 2.1 | 6.7 | -8.0 | -5.2 | -25.8 | -45.3 |
| Construction and extraction | 85.5 | 50.3 | -41.3 | -80.4 | 32.3 | (¹) | -23.9 | -37.0 | -39.1 | 19.9 | -34.2 | 50.9 |
| Installation, maintenance, and repair | -18.4 | 12.5 | -9.7 | -16.4 | -15.5 | -79.1 | 26.6 | 31.4 | -11.3 | -6.3 | -49.5 | -28.6 |
| Production | -71.6 | -9.0 | -39.3 | -10.0 | 8.3 | 20.3 | -43.2 | -10.5 | 43.8 | -12.9 | -22.7 | -30.9 |
| Transportation and mate- rial moving | -12.5 | -25.5 | -16.4 | -19.0 | -15.0 | 12.7 | 348.3 | -40.6 | -21.4 | -9.5 | -65.8 | -53.9 |

Establishments that had layoffs in the information sector reduced employment in occupations that require less specialized training: sales supervisors and representatives, customer service representatives, and stock clerks. After layoffs, they had higher employment in occupations involving technical skills: computer software engineers; telecommunications equipment repairers; management, computer systems, and network systems analysts; and accountants and auditors.

Similarly, most finance and insurance businesses which had layoffs shed jobs in occupations that tended to pay less and that did not include analysis as a primary job function: clerical workers, such as customer service representatives, telemarketers, brokerage clerks, and general office clerks. These establishments increased employment in analytical occupations, such as computer systems analysts, financial analysts, market research analysts, and management analysts. They also added technical positions that tended to

| | | | Employment | | Establishments | | |
|---------|---|----------------|---------------|---------|---|--------------------------------------|--|
| soc | Occupation | Before layoffs | After layoffs | Change | Number reporting be- fore layoffs | Number reporting after layoffs | |
| 51-2092 | Team assemblers | 36,788 | 23,907 | -12,881 | 104 | 93 | |
| 51-4199 | Metal workers and plastic workers, all other | 13,208 | 5,068 | -8,140 | 39 | 42 | |
| 51-9199 | Production workers, all other | 10,973 | 6,496 | -4,477 | 59 | 55 | |
| 51–1011 | First-line supervisors/managers of production and operating workers | 8,683 | 5,681 | -3,002 | 228 | 205 | |
| 17-2011 | Aerospace engineers | 8,266 | 5,360 | -2,906 | 24 | 18 | |
| 51–2011 | Aircraft structure, surfaces, rigging, and systems assemblers | 6,801 | 4,228 | -2,573 | 15 | 11 | |
| 51-4121 | Welders, cutters, solderers, and brazers | 6,720 | 4,493 | -2,227 | 126 | 109 | |
| 51-4111 | Tool and die makers | 6,629 | 4,651 | -1,978 | 126 | 121 | |
| 53-7051 | Industrial truck and tractor operators | 5,090 | 3,195 | -1,895 | 117 | 115 | |
| 51-9061 | Inspectors, testers, sorters, samplers, and weighers | 9,020 | 7,357 | -1,663 | 184 | 175 | |
| 43-5061 | Production, planning, and expediting clerks | 3,060 | 1,469 | -1,591 | 159 | 143 | |
| 49-9042 | Maintenance and repair workers, general | 5,623 | 4,079 | -1,544 | 166 | 163 | |
| 53–7062 | Laborers and freight, stock, and material movers, hand | 4,831 | 3,371 | -1,460 | 99 | 97 | |
| 51-9122 | Painters, transportation equipment | 3,998 | 2,564 | -1,434 | 61 | 56 | |
| 13-1199 | Business operations specialists, all other | 6,966 | 5,698 | -1,268 | 105 | 88 | |
| 53-6051 | Transportation inspectors | 1,508 | 332 | -1,176 | 20 | 7 | |
| 51–4031 | Cutting, punching, and press machine setters, operators, and tenders, metal and plastic | 3,570 | 2,404 | -1,166 | 74 | 59 | |

be highly paid, such as computer software engineers, accountants and auditors, and personal financial advisors.

The professional, scientific, and technical services sector also followed this pattern. These businesses reduced the employment of general office clerks, computer support specialists, customer service representatives, and data entry keyers. They added computer systems analysts, management analysts, and market research analysts, in addition to accountants and auditors.

Most establishments in the health care and social assistance sector tended to lay off administrative support occupations not directly related to healthcare, such as general office and billing clerks. They hired health care workers including registered nurses, nursing aides, and licensed practical nurses. The number of medical secretaries grew, but by less than the employment decline among other administrative support occupations.

Four sectors fared relatively well after layoffs and grew in total employment. Those with net gains in employment were health care and social assistance (NAICS 62); educational services (NAICS 61); mining (NAICS 21); and postal service/couriers/warehousing (NAICS 49). (See table 9.) Within health care and social assistance—which was the sector with the highest net gain in employment—hospitals and ambulatory health care services grew the most, increasing the number of jobs with functions related to health care and administration: office and administrative

support, business and financial operations, management, and computer and mathematical science occupations. Production occupations experienced the largest losses; hospitals especially reduced the number of laundry and drycleaning jobs.

It is informative to examine the occupations that declined in employment after layoffs in sectors which nonetheless experienced net employment gains. Personal and home care aides lost the most employment overall in the health care sector. Mining establishments that underwent layoffs shed several occupations that required less specialized training and skills: general maintenance and repair workers, industrial truck and tractor operators, and machinery maintenance workers. They added operating engineers, industrial machinery mechanics, heavy and tractor-trailer truck drivers, and mobile heavy equipment mechanics.

Occupational changes in goods-producing versus service-providing establishments. A regression analysis was conducted to analyze the effect of layoffs by goods-producing and service-providing aggregations (simply termed "groups") on occupational employment, controlling for region, time between observations, and establishment size. The variables of interest were the two interaction dummy variables for layoff × group. To see if the large employment decline in production occupations in goods-producing industries was due to the overall decline in employment in production industries, the model also includes a non-interaction dummy variable for the group of goods-producing establishments. The regression was based on a total of 209,858 observations—205,339 control observations and 4,520 study observations.

The model used was

 $\Delta employment_{SOC\ major\ group} = \beta_0 + \beta_1\ layoff_i \times goods-producing\ group + \beta_2\ layoff_i \times service-providing\ group$ + β_3 totalemp_first_i + β_4 goods-producing group + $\Sigma_i \delta_i I(\text{geographic region}_{ii}) + \Sigma_i \gamma_i I(\text{number of years between})$ observations_{ii}) + ε_i ,

where the dependent variable was the change in employment level for each occupational group between the first observation and the second. Layoff was a dummy variable indicating whether the establishment had a layoff; where layoff i = 1, a layoff occurred. *Goods* was a dummy variable for the goods-producing aggregation, as opposed to the service-providing aggregation. Layoff × goods and layoff × service were interaction dummy variables. Totalemp_first was the total employment at the time of the first observation of the establishment. The geographic region dummy variables indicated geographic region: West, Southwest, Southeast, Mountain-Plains, New York-New Jersey, Midwest, Mid-Atlantic, and New England (captured in the intercept). Finally, there were nine dummy variables representing the number of years between observations, ranging from 1 to 9; 9 years was captured in the intercept.

With region, time between observations, and establishment size controlled for, an extended mass layoff in the goods-producing aggregation was associated with a greater employment decline than in the service-providing aggregation for two occupational groups: architecture and engineering; and installation, maintenance and repair. For production occupations, layoffs were associated with employment decline in the goods-producing group, while layoffs in the service-providing group were actually associated with slight employment growth (significant only at the 11-percent level). The differences between the interaction term coefficients were statistically significant, and the coefficients themselves were statistically significant. Appendix table A-3 shows the regression parameter estimates and statistics for the goods-producing and serviceproviding interaction variables.

With region, time between observations, and establishment size controlled for, an extended mass layoff in the service-providing aggregation was associated with a greater employment decline than in the aggregation of goods-

producing sectors for management and for sales and related occupations. For sales and office and administrative occupations, the employment decline was substantially greater in the service-providing group. In protective service occupations and personal care and service, a layoff in the service-providing group was associated with employment decline, while a layoff in the goods-producing group was associated with employment growth.

Conversely, in building and grounds cleaning and maintenance occupations, an extended mass layoff in the service-providing group was associated with greater employment growth than in the goods-producing group.

Finally, for three occupational groups, the individual goods-producing and service-providing group parameter estimates were significant, but the differences between the two were not. Employment in transportation and material moving occupations declined the same amount in both groups. The difference between them was not statistically significant. Similarly, employment in legal occupations and food preparation and serving-related occupations grew significantly in both the goods-producing and service-providing groups, but the difference between the two coefficients was not statistically significant.

Occupational changes by reason for layoff

The MLS program asks employers for a primary reason for the layoff. Employers could report 30 reasons for extended mass layoffs over the study period. These reasons can be grouped into six broad categories: business demand, financial, organizational, production, disaster/safety, and seasonal. Business demand accounted for 34 percent of the events in the fourth quarter of 2007, the highest in the economic reasons category excluding seasonal and other reasons. Extended mass layoffs stemming from financial issues accounted for 7 percent of layoff events, the next highest in the economic reasons category. (See table 11.)¹⁷

The pattern of employers retaining or adding workers in higher skilled analytical or technical occupations while letting go of workers in occupations that require nonanalytical or office and clerical skills was, in general, evident regardless of the reason for the layoff. It is apparent from table 11 that workers in production, material moving, installation and maintenance, and office and administrative support occupations were let go after almost all types of layoffs. The number of jobs in computer and mathematical science occupations, architecture and engineering occupations, and business and financial operations occupations either grew, or declined proportionally less than the number of jobs for lesser skilled workers, regardless of the

| | | | | Disaste | /safetv | | Financial | | | | | | |
|---|-------------------------------|-----------------------------|-----------------------------------|---|----------------------------|--|---|--|----------------------------------|---|-----------------|--|--------------------------------|
| Occupational group | Contract cancella- tion | Contract comple- tion | Do- mestic compe- tition | Excess inven- tory/sat- urated market | Import compe- tition | Slack work/in- sufficient demand/ non- seasonal business slowdown | Hazard- ous work envi- ron- ment | Natural disaster (not weather related) | Non- natural disas- ter | Extreme weather- related event | Bank- ruptcy | Cost con- trol/cost cutting/ increase profit- ability | Finan- cial dif- ficulty |
| Management | -21.4 | 1.3 | -55.0 | -24.3 | -36.7 | -22.0 | 9.3 | -9.1 | -32.9 | 13.1 | -16.9 | -39.5 | -13.0 |
| Business and financial operations Computer and mathematical | 9.4 | 21.8 | -78.6 | -23.5 | -10.6 | -7.5 | -21.4 | -16.1 | 280.0 | 4.2 | -27.0 | .3 | 9.0 |
| science Architecture and | -29.8 | -10.1 | (1) | (¹) | -25.1 | -12.4 | 5.0 | 77.8 | (1) | 5.9 | -27.0 | 41.3 | -20.3 |
| engineering | -51.2 | 23.5 | -43.8 | -44.4 | -25.2 | -26.2 | -2.0 | 170.4 | (1) | -7.2 | -46.3 | -76.1 | -15.5 |
| Life, physical, and social science | -49.6 | 11.5 | .0 | .0 | 25.0 | 19.6 | 57.1 | (1) | .0 | -40.2 | 218.4 | -36.8 | -2.1 |
| Community and | 60.4 | 00.0 | | | | 7. | • | | | 107.4 | (1) | | 100 |
| social services Legal | -69.4 46.7 | 92.2 8.7 | .0 | .0 | .0 (¹) | 7.4 10.8 | .0 .0 | .0 .0 | .0 | 107.4 (¹) | (¹) -22.5 | .0 11.4 | 10.8 .3 |
| Education, train- ing, and library | 32.6 | -14.8 | .0 | .0 | (1) | -35.3 | .0 | .0 | .0 | 281.3 | (¹) | (1) | 2.5 |
| Arts, design, entertainment, sports, and media | 14.2 | -81.4 | .0 | .0 | -51.3 | -10.1 | (¹) | (1) | .0 | 111.8 | -40.5 | 40.6 | -12.0 |
| Healthcare prac- titioners and | 27.2 | | (1) | | | | | | (1) | | | 22.5 | |
| technical Healthcare | -37.2 | 27.3 | .0 | (1) | -50.0 | -7.3 | (1) | (1) | (1) | -30.5 | -7.0 1.3 | 32.5 | 23.3 |
| support Protective service | (¹) –16.7 | (¹) -8.2 | .0 | .0 | .0 -44.4 | -42.5 -5.2 | .0 (¹) | .0 (¹) | .0 –29.4 | -47.8 -35.6 | -1.3 -23.2 | (¹) 50.3 | 6.8 30.4 |
| Food preparation and serving related | -72.7 | -16.3 | .0 | .0 | (1) | 0.6 | -100.0 | -3.3 | -23.9 | -23.4 | -15.6 | 7.9 | 21.2 |
| Building and grounds cleaning and maintenance | -6.9 | -6.2 | (1) | (1) | -57.2 | -4.5 | (¹) | -68.4 | 9.4 | -40.4 | -57.2 | 32.8 | 2.3 |
| Personal care | 0.5 | 0.2 | () | | 37.2 | 1.5 | () | 00.1 | 7.1 | 10.1 | 37.2 | 32.0 | 2.5 |
| and service | -31.4 | -43.0 | .0 | .0 | .0 | -16.3 | (1) | (1) | -68.4 | -40.2 | -9.1 | 50.3 | -11.6 |
| Sales and related | 5 | -38.2 | .0 | .0 | -58.3 | -24.3 | (1) | -32.4 | -16.1 | -29.1 | -29.3 | -17.4 | -21.8 |
| Office and administrative support | -34.9 | 1.0 | -55.6 | -2.9 | -36.8 | -15.6 | -36.7 | -51.2 | 22.7 | -27.4 | -17.7 | -27.7 | -11.2 |
| Construction and extraction | 19.8 | 1.2 | -42.0 | (1) | -39.2 | -13.8 | -28.8 | 22.3 | (1) | 49.7 | -56.6 | 88.2 | 3.7 |
| Installation, maintenance, | 13.0 | 1.2 | 42.0 | | -37.2 | -13.0 | -20.0 | 22.3 | | 45.7 | -50.0 | 00.2 | 3.7 |
| and repair | -14.5 | -22.2 | -21.1 | -27.7 | -51.9 | -14.3 | -4.6 | -9.1 | -20.5 | 12.7 | -27.0 | -26.6 | -14.0 |
| Production | -16.1 | -9.1 | -66.1 | -7.5 | -50.4 | -17.8 | -28.2 | 5.6 | -41.3 | 13.5 | -5.4 | -36.7 | -32.8 |
| Transportation and material | 12.1 | 140 | 60.4 | 72.7 | F2.5 | 7.5 | 46.1 | 41.0 | 75.6 | 21.0 | 12.2 | 2.6 | 24.4 |
| moving | -12.1 | 14.8 | -69.4 | -72.7 | -52.5 | -7.5 | -46.1 | -41.0 | 75.6 | -31.0 | -12.2 | 2.6 | -34.4 |

reason for the layoff, although there were some exceptions. At the detailed occupation level, employment of customer service representatives, general office clerks, and bookkeeping clerks declined after most types of layoffs.

This overall pattern was driven, in part, by layoffs due to a number of reasons: the reorganization or restructuring of a business, a change in ownership, financial difficulty, slack work, competition from imports, cost control or cost

| | Organiz | zational | | | | Produ | ction | | | | Other | |
|--|--|---|---|-------------------|---|---|---|--------------------------|--|--------------------------------------|----------------------------------|-----------------------------|
| Occupational group | Busi- ness- owner- ship change | Reor- ganiza- tion or re- struc- turing of com- pany | Auto- mation/ techno- logical ad- vances | Energy related | Govern- mental regula- tions/ inter- vention | Labor dispute/ contract nego- tiations/ strike | Mate- rial or supply short- age | Model change- over | Plant or ma- chine repair/ main- te- nance | Product line discon- tinued | Do- mestic reloca- tion | Overseas reloca- tion |
| Management | -37.3 | -12.5 | -45.0 | -36.8 | 0.0 | 21.1 | -19.0 | -31.1 | -13.0 | -31.8 | 11.5 | -60.1 |
| Business and financial operations | 25.1 | -4.0 | 7 | -18.6 | .0 | 8.9 | -20.7 | -30.9 | 16.2 | 146.5 | 40.6 | -16.0 |
| Computer and mathematical science | -17.1 | 9.3 | 57.7 | (¹) | .0 | 20.8 | 30.0 | -45.5 | 5.9 | 112.7 | 2.4 | -61.1 |
| Architecture and engineering | -26.6 | -12.7 | 111.6 | (1) | .0 | 48.5 | -7.2 | -47.1 | -3.8 | 36.3 | 14.0 | -57.7 |
| Life, physical, and social science | -47.4 | -11.3 | -75.5 | (¹) | .0 | -61.7 | -41.7 | -73.3 | -37.3 | -56.4 | -77.7 | -88.5 |
| Community and social services Legal | -14.0 12.4 | -17.1 14.7 | .0 (¹) | .0 .0 | .0 | .0 | .0 | .0 | .0 | .0 (¹) | .0 (¹) | .0 -46.2 |
| Education, train- ing, and library Arts, design, entertainment, | -95.3 | -31.4 | .0 | .0 | .0 | -45.5 | .0 | .0 | .0 | (1) | (1) | (1) |
| sports, and media Healthcare prac- | -55.7 | 46.1 | -14.3 | .0 | .0 | -1.8 | (1) | -100.0 | (¹) | 33.0 | 111.5 | 54.2 |
| titioners and technical | -17.5 | 5.9 | -15.8 | (¹) | .0 | 39.0 | (1) | -57.1 | (1) | -16.3 | -15.6 | -84.6 |
| Healthcare | 16.5 | 12.1 | (1) | _ | | 40.7 | | (1) | | (1) | (1) | (1) |
| support Protective service | -16.5 -57.9 | 13.1 –19.9 | (¹) -21.3 | .0 (¹) | .0 | 48.7 -4.8 | .0 (¹) | (¹) | .0 | (¹) 51.0 | (¹) -95.7 | (¹) -12.5 |
| Food preparation and serving related | -12.8 | 10.7 | -19.7 | .0 | .0 | 3.4 | .0 | 24.7 | -24.7 | (1) | 25.9 | -100.0 |
| Building and grounds cleaning and | | | | | | | | | | | | |
| maintenance Personal care | -25.4 | -6.3 -8.4 | -57.2 | (¹) | .0 | -34.6 | (1) | 14.3 | 355.6 | -26.4 | -85.7 | -15.9 |
| and service Sales and related | 9.9 -32.6 | -8.4 -23.3 | 33.8 -32.9 | -3.1 (¹) | .0 | -87.5 24.7 | .0 (¹) | (¹) -89.3 | .0 4.7 | .0 52.2 | 5.7 -2.2 | .0 –55.1 |
| Office and administrative support | -18.7 | -23.4 | -35.1 | 6.0 | .0 | -21.2 | -61.1 | -76.7 | 3.8 | -6.1 | -40.3 | 12.2 |
| Construction and extraction Installation, | -92.7 | -28.6 | -47.6 | (¹) | .0 | -70.4 | 2.1 | -1.0 | -70.0 | -18.3 | -93.8 | -75.0 |
| maintenance, and repair | -26.7 | -14.2 | -40.1 | -4.4 | .0 | 5.3 | -28.1 | 13.6 | -7.7 | -30.1 | -59.8 | -21.3 |
| Production Transportation | -31.4 | -29.3 | 160.7 | -28.9 | .0 | -26.4 | -13.4 | -8.6 | 1.9 | -29.2 | -68.8 | -36.7 |
| and material moving | -43.5 | -34.4 | -57.3 | -31.4 | .0 | -14.2 | -25.2 | 176.3 | -38.9 | 14.4 | -56.9 | -56.8 |

layoffs.

cutting, and the relocation of domestic work.¹⁸ These reasons accounted for a large number of layoffs and a large share of the employment losses among lesser

or otherwise;" or "other seasonal."

skilled occupations and increased employment in analytical or technical occupations during the period studied. Layoffs that occurred after either the reloca-

tion of domestic work or the discontinuation of a product line followed the pattern closely. However, the types of jobs affected by layoffs often depended on the reason for the layoff. Patterns within each group are examined next.

Organizational change. The largest cause of job loss from layoffs was organizational change, which includes the reorganization or restructuring of companies and changes in business ownership. Establishments that reorganized or restructured (representing 10 percent of all layoffs, the third most commonly reported reason for a layoff event¹⁹) tended to eliminate jobs in production occupations—these jobs declined by more than 27,000—and in administrative support occupations, such as customer service representatives, general office clerks, and data entry keyers; employment in administrative support occupations declined by 23,000. Businesses that reorganized or restructured also reduced jobs for occupations that involved less technical skill, such as retail salespersons, hand laborers, hand packers, team assemblers, and general maintenance workers. Employers cut back on jobs in some technical occupations and added jobs in others, resulting in a net gain in computer and mathematical occupations.

Reorganized and restructured establishments hired more workers in occupations that develop new software and applications—occupations such as computer systems and applications software engineers, computer systems analysts, computer hardware engineers, engineering managers, electronics engineers, telecommunications equipment installers, and logisticians—while reducing the number of other technical jobs—such as jobs for computer programmers, who primarily code programs for existing software. Some occupational groups, however, fared well after this type of layoff: arts, design, entertainment, sports, and media; education; legal; community and social service; and life, physical, and social sciences occupations.

Establishments with layoffs resulting from businessownership changes, the seventh most commonly reported reason for a layoff event,20 followed the pattern of shedding workers in less technical occupations and hiring additional analytical workers. After production, office and administrative, and transportation and material moving occupations, sales workers accounted for most of the job loss. Following layoffs induced by business-ownership changes, establishments had fewer workers in occupations related to sales, marketing, and maintenance; these occupations included customer service representatives, general office clerks, marketing managers, market research analysts, sales managers, janitors and cleaners, and maintenance and repair workers. The production occupa-

tion that lost the most employment was textile cutting machine setters, operators, and tenders. As was seen in businesses that reorganized, the computer occupations that declined in employment among establishments with business-ownership changes required less technical skill than those which increased in employment. Other occupations that grew involved financial and accounting business functions: among these occupations were payroll and timekeeping clerks; management analysts; bookkeeping, accounting, and auditing clerks; financial managers; and accountants and auditors.

Business demand. The second-largest cause of job loss from layoffs was a decline in business demand. Compared with other reasons for layoffs, business demand factors resulted in relatively greater losses of technical workers and also resulted in large losses of lesser skilled workers. Specifically, layoffs due to slack work, insufficient demand, and nonseasonal business slowdown resulted in the largest employment declines among any of the 30 reasons for layoffs. Production occupations accounted for the most losses after this type of layoff. The production occupations that topped the list of losses were aircraft structure, surfaces, rigging, and systems assemblers; miscellaneous metal and plastic workers; team assemblers; slaughterers and meat packers; electrical and electronic equipment assemblers; and production first-line supervisors.

Employment in computer and mathematical science occupations shrank after layoffs for at least four of the layoff reasons related to business demand, and business and financial occupations and architecture and engineering occupations lost employment from layoffs due to at least four of the reasons.

Layoffs because of slack work resulted in employment declines in many occupational groups, about a third of which were production jobs. Most affected were metal and plastic workers, team assemblers, production supervisors, electrical equipment assemblers, and sewing machine operators. The occupations that grew were hand laborers, computer applications software engineers, customer service representatives, stock clerks, and market research analysts.

After layoffs due to excess inventory and domestic competition, overall employment levels shrank in every occupational group in which employment had been reported before the layoffs; cutbacks occurred in both core and noncore occupations regardless of business function.

Financial. Financial-related reasons for layoffs include financial difficulty; bankruptcy; and measures to control

costs, cut costs, and increase profitability. As with layoffs related to business demand, financial-related layoffs resulted in job losses among skilled workers, in addition to losses among less skilled workers. Notable outcomes were a large decline in personal care and service occupations after bankruptcy, sales workers after cost control layoffs, and architecture and engineering occupations after financial difficulty.

The largest employment declines in layoffs due to general financial difficulty were in production, transportation and material moving, and office and administrative support occupations. Production occupations with job losses included inspectors, testers, and weighers; team assemblers; and production supervisors. This type of layoff also resulted in the employment of fewer transportation workers; recordkeeping weighers, measurers, checkers, and samplers; flight attendants; and parking lot attendants. Among computer and engineering jobs lost were computer programmers and computer systems software engineers, and applications engineers. The same set of establishments eventually hired workers for computer science occupations that were less research intensive in nature: computer systems analysts; network support and data communications analysts; and network and computer systems administrators. They also hired many more registered nurses, cashiers, and accountants and auditors.

Occupations that experienced employment cutbacks after bankruptcy were reservation and transportation ticket agents, stock clerks and order fillers, industrial truck and tractor operators, vehicle and equipment cleaners, and electronics engineers (except computer), among others.

Cost control and cost cutting resulted in large employment declines, in terms of both percentages and levels, among architecture and engineering occupations, but the change was concentrated in a few establishments. Establishments with this type of layoff had employment declines in several administrative support and sales occupations directly related to sales functions: customer service representatives; shipping, receiving, and traffic clerks; stock clerks and order fillers; and retail salespersons. These establishments also cut some production and maintenance workers who tended to be paid higher wages: supervisors of mechanics, installers, and repairers; transportation managers; and supervisors of production workers.

Some administrative support occupations whose employment grew after cost-cutting layoffs were those related to internal staffing and support: payroll and timekeeping clerks, human resources workers, administrative support supervisors, general office clerks, and bookkeeping and accounting clerks. In addition, employers whose layoffs were

a result of controlling or cutting costs hired workers for several laborer occupations that tended to be paid lower wages: hand laborers and freight and stock movers; and janitors and cleaners.

Production. The kinds of jobs lost from production-related extended mass layoffs related to the specific reason cited for the layoff. Although production worker employment shrank overall, it grew in establishments whose layoffs had been due to automation or technological advances. Transportation and material moving occupations grew in establishments whose layoffs had been due to model changeover or product line discontinuations.

After product line discontinuation, employment changes in a few large establishments accounted for the large decreases in production worker employment. Occupations that shrank included slaughterers and meat packers, assemblers and fabricators, transportation equipment painters, synthetic and glass fiber machine setters, inspectors and weighers, welders, semiconductor processors, and engine assemblers. Production occupations that grew included production worker helpers, packaging and filling machine operators, bakers, coating and painting machine operators, and upholsterers.

Layoffs due to plant or machine repair or maintenance tended to affect occupations directly related to the operation of machines and production systems, and more production workers were eventually added than dropped. Occupations whose employment decreased included inspectors and weighers, extruding and compacting machine operators, furnace operators and tenders, and chemical plant and system operators. Occupations with employment increases included metal and plastic drilling and boring machine tool operators; meat, poultry, and fish cutters and trimmers; cleaning and metal pickling equipment operators; and coating and spraying machine operators.

Occupations whose employment declined after *automa*tion/technological advances provide insight into the types of jobs at risk as technology advances. Declines occurred among engine machine assemblers, machine feeders and offbearers, metal and plastic computer-controlled machine tool operators, tool and die makers, data entry keyers, and tool grinders.

Disaster/safety. Disaster/safety concerns comprised a hazardous work environment, a natural (not weather related) disaster, a nonnatural disaster, and extreme weather-related events. Extreme weather-related events were responsible for most of the employment declines in this category. Jobs lost after layoffs that were due to extreme

weather-related events affected primarily service workers providing transportation (transit and intercity bus drivers), security (security guards), food service (waiters and waitresses and restaurant cooks), housekeeping (maids, housekeeping cleaners, and janitors), and entertainment (gaming dealers, and tour guides and escorts); many of these occupations may be affected by tourism. Job gains were in construction occupations.

Domestic and overseas relocation. Although the sample size of establishments that laid off workers due to domestic and overseas relocation is smaller than the sample for other layoff reasons (MLS ended the two series with the 2003 data), the study sample still had almost 300 units reporting under the former reason and more than 200 units under the latter—enough to study the outcomes of layoffs for these reasons.

After layoffs due to overseas relocation, only two occupational groups grew in employment: office and administrative support; and arts, design, entertainment, sports, and media. Detailed occupations that shrank included various assemblers, machine operators, hand laborers, and industrial and electronic engineers and their managers. Despite the reductions among major occupational groups, the establishments hired workers in occupations related to sales, shipping, human resources, and computer network support (such as stock, billing, and shipping clerks; sales representatives; network administrators; and human resource specialists).

After layoffs due to *domestic relocation*, ²¹ establishments reduced employment in two of the higher skilled groups: healthcare practitioner and technical occupations; and life, physical, and social science occupations. Establishments reduced employment in occupations involving nonanalytical skill, such as production; office and administrative support; transportation and material moving; installation, maintenance, and repair; protective service; building and grounds cleaning and maintenance; construction and extraction; and sales and related occupations. In contrast, the establishments with layoffs due to domestic relocations hired more analytical occupations: business and financial operations; architecture and engineering; management; arts, design, entertainment, sports, and media; computer and mathematical science; as well as personal care and service occupations.

Occupational changes by geographic region

Without regression analysis. The effect of layoffs on occupational employment levels varied across the country because of differences in industry composition, local labor market conditions, and other economic factors. In the entire MLS data set (the universe of mass layoff events during the 2000-2007 period), the Midwest, West, and Southeast regions had the most worker separations, with losses of 2.5, 2.2, and 1.2 million jobs, respectively. The New York-New Jersey, Mid-Atlantic, and Southwest regions had between 500,000 and 900,000 separations. New England and the Mountain-Plains region had the fewest number of worker separations, each less than 500,000 over the same period.

Table 12 shows the percent change in employment after layoffs, by geographic region and occupational group. The States within each region are shown in figure 1.

Occupational groups that shrank in employment across most regions involved administration, personal service, and mainly nonanalytical skills: production, sales, office and administrative support, protective service, management, transportation, installation, construction, personal care, and building maintenance. Employment in occupation groups involving analytical skills grew in more regions than did other occupations. Business and financial operations, legal, computer and mathematical science, healthcare practitioner and technical, and community and social service occupations had lower percent declines in employment in most regions relative to declines among other occupational groups.

Within regions, the pattern of reducing employment in occupations involving clerical and nonanalytical skills while retaining jobs requiring analytical skills was most prevalent in the Mid-Atlantic, New England, New York-New Jersey, and Southwest regions. The first three regions have high concentrations of industries that experienced relatively large numbers of layoffs. Establishments undergoing layoffs in the Mid-Atlantic region shed team assemblers; data entry keyers; shipping, receiving, and order clerks; retail salespersons; and hand laborers. The Mid-Atlantic establishments added financial analysts, industrial machinery mechanics, and computer systems analysts.

The primary finding in this regional analysis was that when entire industries retained or increased employment in occupations core to their business, the pattern also manifested itself throughout most of the geographic regions. In 6 of the 8 geographic areas—all except the Southeast and Southwest—employers either added workers or lost fewer workers in job functions core to the industries dominant in their economies. The industry distribution of each region's employment was used to estimate which industries were dominant.²²

In the Midwest region, which had the most worker

| Occupational group | New England | New York–New Jersey | Mid– Atlantic | Southeast | Midwest | Southwest | Mountain- Plains | West |
|--|----------------|---------------------------|------------------|-----------|---------|-----------|---------------------|-------|
| Management | -38.5 | 24.7 | -47.2 | -26.2 | -18.0 | -34.2 | -39.9 | -15.5 |
| Business and financial operations | 70.4 | 20.1 | -21.5 | -12.6 | -7.4 | 8.4 | 35.7 | -3.3 |
| Computer and mathematical science | -25.6 | 35.9 | 31.7 | 5 | -5.5 | -13.3 | -3.0 | -16.4 |
| Architecture and engineering | -63.8 | -16.0 | -26.4 | -9.0 | -20.9 | -4.9 | -9.1 | -17.5 |
| Life, physical, and social science | -69.5 | 17.8 | 261.4 | -7.3 | 20.6 | -50.4 | -44.1 | -31.1 |
| Community and social services | .0 | 3.7 | 67.2 | 16.8 | -2.7 | -6.8 | -10.6 | 1.8 |
| Legal | 19.57 | 49.8 | .9 | 7.5 | 56.4 | -27.8 | 44.1 | -2.5 |
| Education, training, and library | -35.6 | 21.0 | -30.8 | -33.3 | 4.4 | 4.1 | -2.2 | 8.5 |
| Arts, design, entertainment, sports, and media | -78.1 | 26.7 | 27.7 | -58.0 | 1.9 | -22.0 | -12.4 | -8.7 |
| Healthcare practitioners and technical | (¹) | 5.2 | 8 | -3.4 | -9.9 | 79.6 | -13.5 | 6.3 |
| Healthcare support | (¹) | 26.2 | (¹) | 12.6 | -24.0 | 78.5 | -34.4 | -11.3 |
| Protective service | (¹) | -40.4 | -12.1 | -32.6 | -8.0 | -20.5 | -63.0 | -6.0 |
| Food preparation and serving related | (¹) | .7 | -42.6 | 67.0 | -27.9 | -1.3 | -20.0 | 1.0 |
| Building and grounds cleaning and maintenance | -16.8 | -7.6 | -30.8 | 24.1 | -3.9 | 8 | -50.4 | -2.6 |
| Personal care and service | (¹) | -20.3 | -39.5 | -30.9 | -3.7 | -3.1 | -9.6 | -4.2 |
| Sales and related | -64.0 | -38.0 | -23.9 | -24.8 | -11.9 | -22.6 | -19.7 | -13.7 |
| Office and administrative support | -29.7 | -21.9 | -30.5 | -21.4 | -9.1 | -16.2 | -21.8 | -23.8 |
| Construction and extraction | 3.1 | -13.0 | -16.7 | -2.6 | -14.0 | -11.7 | -15.1 | 1 |
| Installation, maintenance, and repair | -39.1 | -11.7 | -28.5 | -25.8 | -14.4 | 27.2 | -15.9 | -21.4 |
| Production | -52.8 | -17.6 | -28.1 | -31.3 | -18.3 | -4.9 | -24.3 | -19.8 |
| Transportation and material moving | -3.0 | -29.8 | -26.9 | -28.8 | -12.3 | -14.6 | 9.6 | -16.7 |

separations, food preparation and serving-related occupations composed the group that experienced the largest percent decline in employment. The Midwest division²³ had relatively high employment concentrations in manufacturing (15.7 percent) and wholesale and retail trade (15.2 percent) in 2004. After layoffs, Midwest region employment in the occupations core to these sectors-production, sales, and transportation and material moving occupations—showed relatively small losses. The other regions had larger percent declines in employment in these occupations.

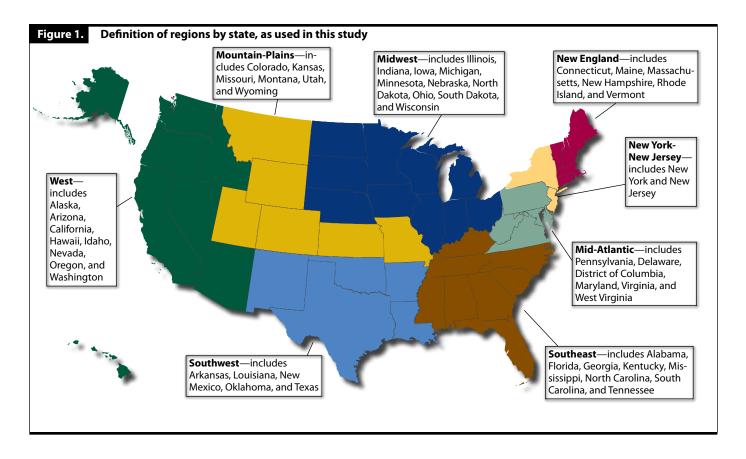
Likewise, the Pacific division²⁴ had relatively high concentrations of employment in the information sector (3.0 percent)—particularly in motion picture and sound recording industries—and the study's West region lost relatively little employment in the arts, design, entertainment, and media occupations, which are core to this industry.

New York and New Jersey, which both have relatively high proportions of their employment in the information and financial activities sectors, tended to hire workers in the sectors' core occupations.²⁵ Employers in the New York-New Jersey region hired workers in analytical occupations such as computer applications engineers, management and computer systems analysts, accountants, and industrial engineers; they let go of retail salespersons, parking lot attendants, team assemblers, hand laborers, and telemarketers.

Employers in New England cut jobs of office and production worker supervisors, general maintenance workers, janitors and cleaners, and stock clerks. Meanwhile, they hired accountants and financial managers. New England had relatively high concentrations of employment in the education (9.8 percent), health care (14.4 percent), and finance and insurance (6 percent) sectors. After layoffs, businesses in the region added workers in occupations that are core to some of these industries; employment in business and financial operations occupations increased by 70 percent in the study group.

Employers in the Mountain-Plains region also followed the pattern of shedding relatively few workers in occupations core to the industries that dominate the region's economy. In 2004, among all Census regions, the Mountain division²⁶ was the geographic area with the highest concentrations of employment in leisure and hospitality (11.2 percent). Perhaps, as a result, the region had lower percent declines in employment in food preparation, personal care, and sales occupations than did other regions.

As noted earlier, however, not every region followed the pattern of retaining or increasing jobs in occupations core to the region's dominant industries, in part due to changing technology, consumer trends, or business practices. The combined South Atlantic and East South Central Census divisions—together approximating the study's Southeast region²⁷—had relatively high employment con-



centrations in the transportation and utilities industries but lost a comparatively large number of jobs in transportation and material moving occupations. Similarly, the Southwest region deviated from the pattern of regions retaining occupations core to dominant industries. Relative to other regions, the Census-defined West South Central division²⁸ had a high proportion of employment in the mining sector (1.5 percent) and the telecommunications industry (1.2 percent). In May 2008, telecommunications businesses were one of the largest employers of telemarketers. After layoffs, however, the study's Southwest region had fewer telemarketers.

Regression analysis. A final regression analysis was conducted to analyze the effect of layoffs on occupational employment by geographic region, controlling for industry, time between observations, and establishment size. The variables of interest were the eight interaction terms for layoff × region. The model included non-interaction dummies for all regions except the Mountain-Plains region, so the interaction terms did not combine the impacts of being located in a particular region with having layoffs in that region. The regression was based on a total of 209,858 observations: 205,339 control observations and 4,520 study observations.

The model used was

 Δ employment_{SOC} major group = $\beta_0 + \beta_1$ layoff_i × West + β_2 layoff_i × Southwest + β_3 layoff_i × Southeast + β_4 layoff_i × Mountain-Plains + β₅ layoff_i × New York-New Jersey + β_6 layoff_i × Midwest + β_7 layoff_i × Mid-Atlantic + β_8 layoff_i × New England + β_9 goods + β_{10} totalemp_first_i + $\sum_{i} \delta_{i} I(\text{geographic region}_{ii}) + \sum_{i} \gamma_{i} I(\text{number of years between})$ observations_{ii}) + ε_i ,

where the dependent variable was the change in employment level for each occupational group between the first and second observations. Layoff was a dummy variable indicating whether the establishment had a layoff; where layoff; = 1, a layoff occurred. The *geographic region* dummy variables indicated geographic region: West, Southwest, Southeast, Mountain-Plains, New York-New Jersey, Midwest, Mid-Atlantic, and New England. Geographic region included non-interaction dummies for all regions except the Mountain-Plains region. Layoff × [region] was an interaction dummy variable. Goods was a dummy variable for the goods-producing aggregation, as opposed to the service-providing aggregation. *Totalemp_first* was the total employment in the establishment at the time of the first observation. Finally, there were nine dummy variables

representing the number of years between observations, ranging from 1 to 9; 9 years was captured in the intercept.

In general, the Mid-Atlantic region saw the most substantial employment change for many occupational groups, compared with other regions. Appendix table A-4 shows the regression output for the eight regional interaction variables. For seven occupational groups, an extended mass layoff was associated with a decline in additional employment in all geographic areas (where a change was statistically significant). Production employment shrank in every region, most noticeably in the Mid-Atlantic, followed by the Southwest, Mountain-Plains, New England, and Midwest regions. Production employment declined the least in New York-New Jersey. Employment in transportation and material moving occupations declined the most in the Mid-Atlantic, Southeast, and New York-New Jersey regions. It grew only in the Mountain-Plains. Employment in office and administrative support occupations declined the most in the Mid-Atlantic region and the least in the Mountain-Plains.

Similarly, employment in sales and related occupations declined in all regions; the largest decline was in New York-New Jersey and the Southeast, and the smallest was in the Midwest. Construction and extraction employment shrank everywhere (where a change was statistically significant), especially in the Midwest. Finally, architecture and engineering employment declined substantially in New England and fell the least in the Southeast.

For four occupational groups, an extended mass layoff was associated with a decline in additional employment in nearly all geographic areas (where statistically significant). Healthcare practitioners and technical employment grew only in the Southwest and actually declined in the Midwest and Southeast. Similarly, healthcare support employment grew only in the Southwest and declined in the West and Midwest. Management employment declined the most in the Mid-Atlantic and Mountain-Plains, and grew only in New York-New Jersey. Employment in the arts, design, entertainment, sports, and media occupational group declined the most in the Southeast and New England, and grew only in New York-New Jersey.

In contrast, for three occupational groups, an extended mass layoff was associated with an increase in additional employment in all geographic areas (where statistically significant). Employment in legal occupations grew the most in New York-New Jersey. The Southeast was the region with the most growth in building and grounds cleaning and maintenance employment, and also in food preparation and serving occupations employment.

Finally, the regression yielded mixed results for five occupational groups. Business and financial operations grew the most in New England and the Mountain-Plains, but declined in the Southeast and Midwest. Computer and mathematical science employment grew the most in the Mid-Atlantic and New York-New Jersey regions, but declined in the West and Southwest. Life, physical, and social science employment grew the most in the Mid-Atlantic, and declined the most in the Southwest. Personal care and service employment grew in the Midwest and declined the most in the Southeast. Installation, maintenance and repair employment grew in the Southwest and shrank the most in the Southeast and New England. Finally, protective service employment grew in the Midwest but declined in New York-New Jersey and the Southeast.

DURING THE PERIOD COVERED BY THIS STUDY, the economy experienced both the dot-com bubble burst and large numbers of layoffs in manufacturing. The occupations that were most affected in establishments with layoffs were those which generally involved nonanalytical skills and abilities and tended to represent business support functions, while the occupations whose employment level was relatively unaffected by the layoffs were those which involved analytical skills and abilities or were core to their business. Today's labor market turbulence can be found in different industries, such as real estate and finance. Repeating the study with newer data would reveal whether the patterns observed in this analysis hold under different economic circumstances. In addition, using data further from the layoff date, rather than the first observation after the first layoff, might reveal different long-term restructuring outcomes.

NOTES

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¹ According to the MLS, during the first quarter of 2009, there were 3,979 extended mass layoff events, resulting in the separation of

705,141 workers from their jobs for at least 31 days. In the first quarter of 2011, there were 1,397 mass layoff events that resulted in 190,895 separations. Extended mass layoff events and separations have shown an over-the-year decrease for six consecutive quarters. BLS Mass Layoff Statistics are available at http://www.bls.gov/news.release/mslo. toc.htm (visited June 28, 2011). Extended mass layoff data have been available since second quarter 1995.

- ² Recessions are identified by the National Bureau of Economic Research (NBER). For a list of recession start and end dates, see "U.S. Business Cycle Expansions and Contractions" (Cambridge, MA, National Bureau of Economic Research, June 20, 2011), http://www.nber. org/cycles/cyclesmain.html (visited June 20, 2011).
- ³ This article uses the term "function" differently than does the MLS program, so the data are not comparable.
- ⁴ Approximately 30 days after a mass layoff begins, the employer is contacted for additional information.
- The universe of OES establishments from which the study sample was drawn includes only usable units that passed all BLS tests and that reported all requested employment data and all or partial wage data.
- ⁶ Farming, fishing, and forestry occupations were included in the total calculations, but were not included in the analysis, because MLS and OES data include only nonfarm industries.
- ⁷ See "O*NET OnLine: Browse by O*NET Data," http://online. onetcenter.org/find/descriptor/browse/Abilities (visited July 26, 2010). O*NET identifies six descriptors (categories of occupational information): knowledge, skills, abilities, work activities, interests, and work values. Each descriptor has a set of elements, and each element has importance scores for all O*NET occupations.

Occupations in the "analytical" group have high importance scores in skills such as reading comprehension; writing; speaking; math; science; critical thinking; complex problem solving; judgment and decision making; systems analysis; active listening; monitoring; social perceptiveness; coordination; persuasion; negotiation; instructing; service orientation; and management of time, financial, material, and personnel resources. "Analytical" occupations also have high importance scores in elements such as deductive and inductive reasoning, fluency of ideas, informative ordering, mathematical reasoning, memorization, number facility, oral and written expression and comprehension, perceptual speed, and problem sensitivity.

Occupations in the "nonanalytical" group have high importance scores in nonanalytical skills such as equipment maintenance, troubleshooting, repairing, and quality control analysis. These occupations have high importance scores in nonanalytical abilities such as dynamic and extent flexibility; dynamic, explosive, static, and trunk strength; gross body coordination and equilibrium, and stamina. "Nonanalytical" occupations also tend to possess elements of psychomotor abilities, such as control precision and manual dexterity.

- ⁸ Education and training data come from "Employment Projections: EPP Tables—Occupations" (U.S. Bureau of Labor Statistics, no date), table 1.11, http://www.bls.gov/emp/#tables, (visited July 27, 2010). This observation references an occupation's distribution of employment by educational attainment (found in the table). See also Occupational Outlook Handbook, 2010-11 Edition (U.S. Bureau of Labor Statistics, no date), http://www.bls.gov/oco (visited June 13, 2011). Information about general office clerks, customer service representatives, and secretaries and administrative assistants is also from the Handbook, at http://www.bls.gov/oco/ocos130.htm#training, http:// www.bls.gov/oco/ocos280.htm#training, and http://www.bls.gov/ oco/ocos151.htm#training, respectively (visited July 27, 2010).
 - ⁹ "Employment Projections: EPP Tables—Occupations."
- 10 See "Assemblers and Fabricators," in Occupational Outlook Handbook, 2010-11 Edition, http://www.bls.gov/oco/ocos217.htm (visited July 27, 2010).
- ¹¹ See Career Guide to Industries, 2010-11 Edition (Bureau of Labor Statistics, no date), http://www.bls.gov/oco/cg (visited June 13,

2011).

- ¹² See "Truck Drivers and Driver/Sales Workers: Training, Other qualifications, and Advancement," in Occupational Outlook Handbook, 2010-11 Edition, http://www.bls.gov/oco/ocos246.htm#training (visited July 27, 2010).
- ¹³ "Employment Projections: EPP Tables—Occupations."
- ¹⁴ The reduced employment in management occupations overall may be, in part, a result of improvements in the classification of managers in the OES survey. The interpretation of the employment change in management occupations should be made with caution.
- 15 Layoffs because of contract completion or contract cancellation could be attributable to seasonal factors, but, for the purposes of this study, they were included in the "economic difficulties" category.
- ¹⁶ Because the OES program surveys the same establishment at the same time each year, staffing pattern changes in the seasonal layoffs category are long-term changes rather than the result of seasonal changes.
- ¹⁷ See "Mass Layoff Statistics" (U.S. Bureau of Labor Statistics, no date), http://www.bls.gov/mls (visited Mar. 18, 2010).
- MLS ended the domestic/foreign relocation series with the 2003 data. Relocation of work was then replaced by movement of work data. The category of controlling costs was added as a reason in 2007.
- 19 The rankings excluded seasonal layoffs—although they were included in the count of total mass layoffs.
- ²⁰ The rankings excluded seasonal layoffs, refusal to respond, "other," and "does not know" as reasons for layoffs-although they were included in the count of total mass layoffs.
- ²¹ The data relating to domestic relocation reflect occupations with at least 10 establishments reporting them initially.
- From Geographic Profile of Employment and Unemployment, 2004, "Table 7. Census regions and divisions: percent distribution of employed persons by industry, sex, race, and Hispanic or Latino ethnicity, 2004 annual averages" (U.S. Bureau of Labor Statistics, January 2009), also available online at http://www.bls.gov/opub/gp/pdf/ gp04_07.pdf (visited June 13, 2011).
- ²³ The Midwest division is similar to the study's Midwest region but also includes Missouri and Kansas.
- ²⁴ The Pacific division is similar to the study's West region but excludes Arizona, Idaho, and Nevada.
- ²⁵ From Geographic Profile of Employment and Unemployment, 2004, "Table 20. States: percent distribution of employed persons by sex, race, Hispanic or Latino ethnicity, and industry, 2004 annual averages" (U.S. Bureau of Labor Statistics, January 2009), also available online at http://www.bls.gov/opub/gp/pdf/gp04_20.pdf (visited June 13, 2011).
- ²⁶ The Mountain division is similar to the study's Mountain-Plains region but excludes Missouri and Kansas and includes Arizona and New Mexico.
- ²⁷ The South Atlantic and East South Central Census divisions are similar to the study's Southeast region, except that the combined Census-defined divisions include Virginia, Delaware, the District of Columbia and West Virginia; these four jurisdictions are all in the study's Mid-Atlantic region.
- ²⁸ The West South Central division is similar to the study's Southwest region but excludes New Mexico.

Appendix tables: Output for regressions

Table A-1. Output for 21 regressions of occupational group on layoff; and control variables (industry, region, establishment size, and number of years between observations)

| Dependent variable (change in employment in occupational group) | Layoff _i parameter estimate | Standard error on layoff; parameter estimate | t-value | <i>p</i> -value |
|---|--|---|---------|-----------------|
| Production | -20.76 | 1.00 | -20.86 | <.0001 |
| Office and administrative support | -10.97 | 1.23 | -8.91 | <.0001 |
| Sales and related | -7.66 | .51 | -15.05 | <.0001 |
| Management | -6.13 | .43 | -14.27 | <.0001 |
| Transportation and material moving | -6.04 | .79 | -7.69 | <.0001 |
| Architecture and engineering | -4.29 | .54 | -7.96 | <.0001 |
| Installation, maintenance, and repair | -3.38 | .46 | -7.41 | <.0001 |
| Construction and extraction | -1.92 | .43 | -4.42 | <.0001 |
| Education | -1.61 | 1.54 | -1.05 | .2938 |
| Personal care and service | -1.28 | .61 | -2.1 | .0356 |
| Arts, design, entertainment, sports, and media | -1.13 | .32 | -3.51 | .0004 |
| Computer and mathematical science | 48 | .67 | 71 | .4792 |
| Healthcare practitioner and technical | 05 | .78 | 06 | .9513 |
| Protective service | 04 | .40 | 09 | .9263 |
| Healthcare support | 03 | .39 | 08 | .9371 |
| Life, physical, and social science | 03 | .34 | 09 | .9309 |
| Legal | .60 | .11 | 5.32 | <.0001 |
| Community and social services | .68 | .44 | 1.54 | .1225 |
| Business and financial operations | 1.28 | .48 | 2.66 | .0078 |
| Building and grounds cleaning and maintenance | 2.62 | .37 | 7.09 | <.0001 |
| Food preparation and serving related | 5.36 | .58 | 9.27 | <.0001 |

NOTE: Table excludes output for control variables to conserve space, and excludes farming, fishing, and forestry occupations. Degrees of freedom=1 for all regressions.

Table A-2. Output for 21 regressions of occupational group on economic, seasonal, and control variables (industry, region, establishment size, and number of years between observations)

| Dependent variable (change in employment in occupational group) | Interaction term | Coefficient | Standard error | <i>t</i> -value | <i>p</i> -value | Are the two interac- tion terms significantly different? | |
|---|--|-------------|-------------------|-----------------|-----------------|--|--|
| Management | layoff _i *economic _i | 0.00 | 3.49 | 0 | 0.9996 | no | |
| Management | layoff _i *seasonal _i | 65 | 3.68 | 18 | .8608 | no | |
| Business and financial | layoff _i *economic _i | 3.73 | 4.11 | .91 | .3633 | no | |
| operations | layoff _i *seasonal _i | .12 | 4.33 | .03 | .9781 | 110 | |
| Computer and | layoff _i *economic _i | 1.36 | 5.43 | .25 | .8022 | no | |
| mathematical science | layoff _i *seasonal _i | -1.56 | 5.72 | 27 | .7858 | 110 | |
| Architecture and | layoff _i *economic _i | .69 | 5.80 | .12 | .906 | no | |
| engineering | layoff _i *seasonal _i | 3.53 | 6.12 | .58 | .5645 | 110 | |
| Life, physical, and social | layoff _i *economic _i | 32 | 2.05 | 16 | .8767 | no | |
| science | layoff _i *seasonal _i | .68 | 2.16 | .31 | .7536 | | |
| Community and social | layoff _i *economic _i | 33 | .69 | 48 | .6341 | no | |
| services | layoff _i *seasonal _i | 14 | .73 | 19 | .8514 | | |
| Legal | layoff _i *economic _i | .04 | .38 | .1 | .9174 | no | |
| -5- | layoff _i *seasonal _i | .11 | .40 | .27 | .7853 | | |
| Education | layoff _i *economic _i | -1.31 | 2.13 | 61 | .539 | no | |
| | layoff _i *seasonal _i | .88 | 2.25 | .39 | .6963 | | |
| Arts, design, entertainment, | layoff _i *economic _i | 6.11 | 4.15 | 1.47 | .1408 | no | |
| sports, and media | layoff _i *seasonal _i | -3.47 | 4.37 | 79 | .4279 | | |
| Healthcare practitioner and | layoff _i *economic _i | 7.60 | 6.93 | 1.1 | .2726 | no | |
| technical | layoff _i *seasonal _i | 6.62 | 7.31 | .91 | .365 | | |
| Healthcare support | layoff _i *economic _i | 3.03 | 1.85 | 1.64 | .1007 | no | |
| ricarricare support | layoff _i *seasonal _i | 2.45 | 1.94 | 1.26 | .2078 | | |
| Protective service | layoff _i *economic _i | 3.41 | 1.74 | 1.96 | .0505 | no | |
| . Total and set the | layoff _i *seasonal _i | -1.05 | 1.84 | 57 | .5689 | | |
| Food preparation and | layoff _i *economic _i | -9.22 | 7.75 | -1.19 | .2341 | no | |
| serving related | layoff _i *seasonal _i | 6.21 | 8.16 | .76 | .4465 | | |
| Building and grounds clean- | layoff _i *economic _i | 18 | 2.80 | 07 | .9476 | no | |
| ing and maintenance | layoff _i *seasonal _i | 4.36 | 2.95 | 1.48 | .1393 | | |
| Personal care and service | layoff _i *economic _i | 7.66 | 5.65 | 1.36 | .1752 | no | |
| . c.so.i.a. care and service | layoff _i *seasonal _i | 60 | 5.96 | 1 | .9197 | | |
| Sales and related | layoff _i *economic _i | -4.80 | 5.90 | 81 | .4167 | no | |
| Juics and related | layoff _i *seasonal _i | -4.70 | 6.22 | 76 | .4499 | 110 | |
| Office and administrative | layoff _i *economic _i | 7.87 | 9.58 | .82 | .4114 | no | |
| support | layoff _i *seasonal _i | 11.47 | 10.10 | 1.14 | .2563 | 110 | |
| Construction and extraction | layoff _i *economic _i | -4.50 | 4.07 | -1.11 | .2686 | no | |
| Construction and extraction | layoff _i *seasonal _i | -6.86 | 4.29 | -1.6 | .1098 | 110 | |
| Installation, maintenance, | layoff _i *economic _i | 3.26 | 5.28 | .62 | .5374 | no | |
| and repair | layoff _i *seasonal _i | 4.52 | 5.57 | .81 | .4169 | 110 | |
| Production | layoff _i *economic _i | -15.62 | 12.30 | -1.27 | .2041 | no | |
| Troduction | layoff _i *seasonal _i | .10 | 12.96 | .01 | .9941 | 110 | |
| Transportation and material | layoff _i *economic _i | -2.67 | 7.47 | 36 | .721 | - | |
| moving | layoff _i *seasonal _i | -4.55 | 7.88 | 58 | .5631 | no | |

NOTE: Table excludes output for control variables to conserve space, and excludes farming, fishing, and forestry occupations. Degrees of freedom=1 for all regressions.

Table A-3. Output for 21 regressions of occupational group on layoff; goods-producing group, layoff; service-providing group, and control variables (region, establishment size, years between observations, and goods-producing group)

| Dependent variable (change in employment in occupational group) | Interaction term | Coefficient | Standard error | t-value | <i>p</i> –value | Are the parameter estimates signifi- cantly different at the 5-percent signifi- cance level? |
|---|--|-------------|-------------------|---------|-----------------|--|
| Management | layoff _i *goods _i | -4.94 | 0.55 | -8.92 | <.0001 | yes |
| Management | layoff _i * service _i | -7.12 | .52 | -13.77 | <.0001 | yes |
| Business and financial | layoff _i * goods _i | .85 | .62 | 1.36 | .173 | no |
| operations | layoff _i * service _i | 1.65 | .58 | 2.83 | .0046 | 110 |
| Computer and mathematical | layoff _i * goods _i | 92 | .86 | -1.06 | .2869 | |
| science | layoff _i * service _i | 11 | .81 | 13 | .8948 | no |
| Architecture and | layoff _i * goods _i | -7.45 | .69 | -10.76 | <.0001 | Voc. |
| engineering | layoff _i * service _i | -1.66 | .65 | -2.57 | .0102 | yes |
| Life, physical, and social | layoff;*goods; | 51 | .44 | -1.16 | .2445 | |
| science | layoff;*service; | .37 | .41 | .9 | .3694 | yes |
| Community and social | layoff;*goods; | .82 | .57 | 1.44 | .1503 | |
| services | layoff _i *service _i | .57 | .53 | 1.07 | .2838 | no |
| | layoff _i *goods _i | .62 | .14 | 4.27 | <.0001 | |
| Legal | layoff _i * service _i | .58 | .14 | 4.31 | <.0001 | no |
| | layoff _i *goods _i | -1.13 | 1.98 | 57 | .5685 | |
| Education | layoff _i * service _i | -2.01 | 1.85 | -1.09 | .2761 | no |
| Arts, design, entertainment, | layoff _i *goods _i | .01 | .41 | .01 | .9898 | |
| sports, and media | layoff _i * service _i | -2.06 | .39 | -5.34 | <.0001 | yes |
| Healthcare practitioner and | layoff;*goods; | -1.29 | 1.01 | -1.27 | .203 | |
| technical | layoff _i *service _i | .98 | .94 | 1.03 | .3015 | no |
| | layoff _i *goods _i | 11 | .50 | 22 | .8277 | |
| Healthcare support | layoff _i * service _i | .03 | .46 | .07 | .942 | no |
| | layoff _i *goods _i | 1.12 | .52 | 2.17 | .0298 | |
| Protective service | layoff _i * service _i | -1.00 | .48 | -2.06 | .0392 | yes |
| Fardanantian | layoff _i *goods _i | 4.47 | .74 | 6.01 | <.0001 | |
| Food preparation and serving related | , , | 6.09 | .70 | 8.75 | <.0001 | no |
| 3 | layoff;*service; | | | | | |
| Building and grounds cleaning and maintenance | layoff _i *goods _i | 2.17 | .47 | 4.57 | <.0001 | yes |
| cleaning and maintenance | layoff _i * service _i | 2.99 | .44 | 6.72 | <.0001 | |
| Personal care and service | layoff _i *goods _i | 1.82 | .78 | 2.32 | .0204 | yes |
| | layoff _i *service _i | -3.84 | .73 | -5.24 | <.0001 | |
| Sales and related | layoff _i *goods _i | -1.87 | .65 | -2.86 | .0042 | yes |
| | layoff _i *service _i | -12.44 | .61 | -20.32 | <.0001 | · |
| Office and administrative | layoff _i *goods _i | -1.28 | 1.58 | 81 | .4202 | yes |
| support | layoff _i * service _i | -18.99 | 1.48 | -12.82 | <.0001 | ŕ |
| Construction and extraction | layoff _i *goods _i | -4.33 | .56 | -7.76 | <.0001 | yes |
| | layoff _i * service _i | .08 | .52 | .15 | .8812 | , |
| Installation, maintenance, | layoff _i *goods _i | -5.16 | .59 | -8.77 | <.0001 | yes |
| and repair | layoff _i *service _i | -1.92 | .55 | -3.48 | .0005 | , 55 |
| Production | layoff _i *goods _i | -48.17 | 1.28 | -37.71 | <.0001 | yes |
| | layoff _i *service _i | 1.91 | 1.19 | 1.6 | .1093 | , , , |
| Transportation and material | layoff _i *goods _i | -5.83 | 1.01 | -5.77 | <.0001 | no |
| moving | layoff _i *service _i | -6.22 | .95 | -6.58 | <.0001 | 110 |

NOTE: Table excludes output for control variables to conserve space, and excludes farming, fishing, and forestry occupations. Degrees of freedom=1 for all regressions.

| variables, and controls | | | | | | | | | | | |
|--|--|-------------------------|--------------------------|------------------------|--------------------------|------------------------|-------------------------|-------------------------|------------------------|--|--|
| Dependent variable (change in employ- | Output for | | 1 | | Interacti | on term | T | · | | | |
| ment in occupa- tional group) | interaction terms | New England | New York/ New Jersey | Mid- Atlantic | Southeast | Midwest | Southwest | Mountain- Plains | West | | |
| | Coefficient | -12.26 | 3.81 | -14.92 | -7.06 | -5.55 | -10.03 | -13.47 | -5.80 | | |
| Management | Standard error <i>p</i> –value | 3.85 .00 | 1.06 .00 | 2.23 <.0001 | .84 <.0001 | .67 <.0001 | 1.04 <.0001 | 1.35 <.0001 | .67 <.0001 | | |
| Business and financial operations | Coefficient Standard error <i>p</i> –value | 20.99 4.32 <.0001 | 6.32 1.19 <.0001 | -4.36 2.50 .08 | -2.06 .95 .03 | 92 .76 .23 | 2.87 1.17 .01 | 11.57 1.52 <.0001 | .16 .75 .83 | | |
| Computer and mathematical science | Coefficient Standard error p-value | -8.69 6.02 .15 | 9.13 1.66 <.0001 | 9.78 3.49 .01 | .50 1.32 .70 | 15 1.05 .88 | -3.82 1.62 .02 | -1.00 2.12 .64 | -3.98 1.04 .00 | | |
| Architecture and engineering | Coefficient Standard error p-value | -11.21 4.82 .02 | -2.81 1.33 .03 | -2.65 2.79 .34 | -2.05 1.06 .05 | -5.25 .84 <.0001 | -1.85 1.30 .16 | -3.89 1.70 .02 | -6.03 .84 <.0001 | | |
| Life, physical, and social science | Coefficient Standard error p-value | -1.15 3.05 .71 | 1.49 .84 .08 | 8.60 1.77 <.0001 | 05 .67 .94 | 1.36 .53 .01 | -2.04 .82 .01 | -1.54 1.07 .15 | -1.40 .53 .01 | | |
| Community and social service | Coefficient Standard error p-value | .52 3.97 .90 | .23 1.09 .83 | 1.74 2.30 .45 | 1.30 .87 .13 | .74 .70 .29 | .49 1.07 .64 | .71 1.40 .61 | .45 .69 .51 | | |
| Legal | Coefficient Standard error p-value | .61 1.01 .54 | 1.01 .28 .00 | .54 .58 .35 | .56 .22 .01 | .79 .18 <.0001 | .22 .27 .42 | .75 .36 .03 | .39 .17 .03 | | |
| Education | Coefficient Standard error p-value | -2.69 13.76 .85 | 3.00 3.79 .43 | -3.56 7.97 .66 | -4.65 3.01 .12 | 61 2.41 .80 | -3.11 3.71 .40 | -3.36 4.84 .49 | -1.48 2.38 .54 | | |
| Arts, design, entertainment, sports, media | Coefficient Standard error p-value | -5.61 2.87 .05 | 1.45 .79 .07 | 2.14 1.67 .20 | -6.31 .63 <.0001 | .18 .50 .72 | -1.03 .78 .19 | 56 1.01 .58 | 81 .50 .10 | | |
| Healthcare practitioners and technical | Coefficient Standard error p-value | -1.11 7.02 .87 | -1.07 1.94 .58 | -2.99 4.07 .46 | -2.78 1.54 .07 | -3.12 1.23 .01 | 17.20 1.90 <.0001 | -2.61 2.47 .29 | 68 1.22 .58 | | |
| Healthcare support | Coefficient Standard error p-value | 13 3.45 .97 | .79 .95 .40 | .27 2.00 .89 | 11 .75 .89 | -1.19 .60 .05 | 4.74 .93 <.0001 | 20 1.21 .87 | 90 .60 .13 | | |
| Protective service | Coefficient Standard error p-value | .38 3.60 .92 | -1.55 .99 .12 | 1.29 2.09 .54 | -1.63 .79 .04 | 1.30 .63 .04 | 02 .97 .99 | -1.61 1.27 .20 | .34 .62 .58 | | |
| Food preparation and serving related | Coefficient Standard error p-value | 3.53 5.18 .50 | 4.56 1.43 .00 | -2.83 3.00 .35 | 15.58 1.13 <.0001 | 2.29 .91 .01 | 4.68 1.40 .00 | 2.11 1.82 .25 | 4.77 .90 <.0001 | | |
| Building and grounds cleaning and maintenance | Coefficient Standard error <i>p</i> -value | 1.45 3.30 .66 | .71 .91 .44 | 2.02 1.91 .29 | 5.12 .72 <.0001 | 2.91 .58 <.0001 | 3.06 .89 .00 | 11 1.16 .93 | 2.23 .57 <.0001 | | |
| Personal care and service | Coefficient Standard error <i>p</i> –value | 2.33 5.45 .67 | -3.43 1.50 .02 | -7.18 3.16 .02 | -10.05 1.19 <.0001 | 1.76 .95 .07 | .89 1.47 .55 | .40 1.92 .83 | .39 .94 .68 | | |
| Sales and related | Coefficient Standard error p-value | -9.54 4.56 .04 | -16.01 1.26 <.0001 | -7.41 2.64 .01 | -10.39 1.00 <.0001 | -4.05 .80 <.0001 | -9.25 1.23 <.0001 | -7.05 1.60 <.0001 | -6.20 .79 <.0001 | | |

Table A-4. Output for regressions of change in employment in each occupational group on all 8 layoff region interaction variables, and controls

| Dependent variable | Output for | | | | Interact | ion term | | | |
|--|--|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| (change in employ- ment in occupa- tional group) | interaction terms | New England | New York/ New Jersey | Mid– Atlantic | Southeast | Midwest | Southwest | Mountain- Plains | West |
| Office and administrative support | Coefficient Standard error p-value | -18.65 11.02 .09 | -13.33 3.03 <.0001 | -29.98 6.39 <.0001 | -15.98 2.41 <.0001 | -0.07 1.93 .97 | -14.21 2.98 <.0001 | -12.41 3.88 .00 | -15.12 1.91 <.0001 |
| Construction and extraction | Coefficient Standard error p-value | .80 3.88 .84 | -2.49 1.07 .02 | -2.62 2.25 .25 | .27 .85 .75 | -4.14 .68 <.0001 | -2.32 1.05 .03 | -3.54 1.37 .01 | 16 .67 .81 |
| Installation, maintenance, and repair | Coefficient Standard error p-value | -8.15 4.09 .05 | -1.19 1.13 .29 | -7.78 2.37 .00 | -10.40 .89 <.0001 | -3.12 .72 <.0001 | 9.23 1.10 <.0001 | -4.77 1.44 .00 | -4.52 .71 <.0001 |
| Production | Coefficient Standard error p-value | -29.86 8.90 .00 | -7.14 2.45 .00 | -53.37 5.16 <.0001 | -48.97 1.95 <.0001 | -23.78 1.56 <.0001 | 55 2.40 .82 | -42.18 3.13 <.0001 | -6.93 1.54 <.0001 |
| Transportation and material moving | Coefficient Standard error p-value | 1.66 7.03 .81 | -12.61 1.94 <.0001 | -15.27 4.08 .00 | -14.35 1.54 <.0001 | -4.61 1.23 .00 | -4.59 1.90 .02 | 7.54 2.48 .00 | -3.95 1.22 .00 |

NOTE: Table excludes output for control variables to conserve space, and excludes farming, fishing, and forestry occupations. Degrees of freedom=1 for all regressions.

Reentering the labor force after retirement

Data from the longitudinal Health and Retirement Study indicate that approximately 15 percent of older Americans with career jobs returned to the labor force after having retired; respondents were more likely to reenter the workforce if they were younger, were in better health, or had a defined-contribution pension plan

Kevin E. Cahill, Michael D. Giandrea, and Joseph F. Quinn

Kevin E. Cahill is a research economist at the Sloan Center on Aging & Work at Boston College, Chestnut Hill, MA; Joseph F. Quinn is the James P. McIntyre Professor of Economics in the Department of Economics at Boston College and is also affiliated with the Sloan Center on Aging & Work; Michael D. Giandrea is a research economist in the Office of Productivity and Technology, Bureau of Labor Statistics, Washington, DC. Email: giandrea.michael@bls.gov. All views expressed in this article are those of the authors and do not necessarily reflect the views or policies of the Bureau of Labor Statistics. The Alfred P. Sloan Foundation supported this research through a grant to the Sloan Center on Aging & Work at

or most older Americans with fulltime career jobs, retirement is not a one-time, permanent event. Instead, their exits from the labor force are more gradual, with many career workers moving to another job before leaving the labor force completely. Jobs that follow full-time career employment and precede complete withdrawal from the labor force are commonly known as bridge jobs. The prevalence and determinants of bridge jobs have been studied extensively in the literature on retirement. In a summary of such literature from the 1970s and 1980s, Joseph Quinn, Richard Burkhauser, and Daniel Meyers concluded that, for many older Americans, retirement is a process.² Data from the Retirement History Survey (RHS), a longitudinal dataset of older American men and unmarried women conducted from 1969 to 1979, show that the majority of older career workers had changed jobs or exited and reentered the labor force following career employment, where "career" was defined as the longest spell of employment with a single firm.3

More recent data from the Health and Retirement Study (HRS) confirm these earlier findings and reveal that one-time permanent retirements are the exception rather than the rule. Examining data from

the first three waves of the HRS, spanning 1992 to 1996, Quinn estimated that, at a minimum, between one-third and one-half of older career workers would experience a transition to bridgejob employment prior to complete withdrawal from the labor force.4 Extending Quinn's study with more recent data, Cahill, Giandrea, and Quinn found that, between 1992 and 2002, approximately 60 percent of older workers who had left a career job moved to a bridge job prior to exiting the labor force. In a followup study, these authors found a similar prevalence of bridge jobs among a slightly younger cohort of HRS respondents known as the "War Babies."6

People take bridge jobs for many reasons. For some, bridge jobs are a way to remain active through work or to try something new. For others, bridge jobs are a financial necessity, a result of a changing landscape in which workers are faced with a "do-it-yourself" approach to retirement income security.⁷ The movement away from traditional defined-benefit pensions over the past 30 years has been a pivotal part of this change.8 Between 1983 and 2004, the percentage of workers with a pension who had only a defined-benefit plan decreased from 62 percent to 20 percent. The percentage with both a defined-benefit and a defined-contribution plan also declined over the same period, from 26 percent to 17 percent, although these percentages are somewhat sensitive to the underlying

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data source. 10 More recent data from 2007 indicate that, among family heads who participated in an employerbased pension, 18 percent had only a defined-benefit pension and another 18 percent had both a definedbenefit and a defined-contribution plan. 11 Further, many of the remaining defined-benefit plans have been converted to cash balance plans.¹²

In defined-contribution plans, workers decide how much to contribute and how to invest their funds. 13 One implication of this shift is that more employees—those with defined-contribution plans—are assuming the investment risk associated with their pension plans. The result is that the pension wealth of many older workers and retirees is now more susceptible to financial market fluctuations than in the past. Further, any changes to Social Security are likely to reduce or delay benefits in order to maintain the solvency of the program.¹⁴

One way that individuals can insure against uncertainty in retirement is to reenter the labor force after "retiring." Reentry can come about in two ways. First, it can be planned, as a way to move out of career employment gradually by taking a break from paid work for a certain length of time before moving to another job. Planned reentry is one way to extend the worklife of those who would have otherwise remained out of the labor force. Indeed, older workers are already extending their worklives, as a century-old trend toward earlier and earlier retirement among American men halted in the mid-1980s and then reversed.¹⁵ Labor force participation rates among older men and especially women have increased in recent years.¹⁶

When reentry is not planned, the option to rejoin the workforce provides a form of insurance against unforeseen contingencies. Workers initially may leave the labor force and adjust their consumption to match their retirement income. Although this approach has the disadvantage of potentially reducing one's living standard, the retiree may still be better off if the reduction in consumption is offset by the additional leisure. Reentry can then serve as a backup plan in the event that an individual's standard of living in retirement falls short of expectations.

Viewed this way, the possibility of reentry blurs what it means to retire. Moreover, if contingent reentry is common, an examination of work decisions later in life might not provide a complete picture of the transitional nature of retirement. A fraction of those who leave the labor force directly from their full-time career jobs may actually be expecting to return to work if retirement is not fulfilling or if retirement income proves inadequate. In fact, some of these workers will return to work and

some will not. One study suggests that a substantial change in retirement income may be needed to induce this type of contingent reentry: Courtney Coile and Phillip Levine used HRS data to examine reentry in the context of the booming stock market valuations of the late 1990s and the subsequent bust from 2000 to 2002.¹⁷ They found no statistically significant impact of the stock market decline on the rate of reentry.

The literature to date indicates that a sizable minority of older workers reenters the labor force following an initial exit. Quinn, Burkhauser, and Meyers reported that about 10 percent of career workers interviewed for the RHS reentered the labor force after being out for at least 2 years. The authors noted that this estimate was likely to be a lower bound because reentry could have occurred beyond the RHS observation period, which ended in 1979. A subsequent study by David Blau investigated transitions among older workers and found a higher rate of reentry: approximately 26 percent of older men who were not employed moved to either part-time or full-time employment later, while 23 percent of part-time employed older men returned to fulltime employment.¹⁹ Blau also found that the quarterly hazard rate for moving from being out of the labor force to full-time employment was 5 percent for 56-year-olds.²⁰ This rate remained high until age 62 and then fell below 1 percent by age 64. The hazard rate of reentry into part-time employment among older workers was below 1.2 percent for the ages examined.

In a particularly relevant recent study, Nicole Maestas examined the extent to which workers anticipated, prior to retirement, that they might reenter the labor force after retirement.²¹ Using the first six waves of HRS data, Maestas analyzed retirement transitions partly on the basis of selfidentified retirement status. She found that about one-half of workers retired in the "traditional" fashion, directly from either full-time or part-time employment to full retirement, defined as complete withdrawal from the labor force. She then focused on the transitions that workers made from retirement: from complete retirement to partial retirement (the latter being a self-report of "retirement" combined with non-full-time employment), from complete retirement to full-time employment, and from partial retirement to full-time employment. Maestas found that at least 25 percent of retirees had returned to the labor force by 2002 (the last wave of the HRS survey examined in her study). As expected, reentry into the labor force was substantially higher among those who first retired in their early to mid-50s than among those who first retired later in life. Maestas established that returning to the labor force is common among retirees and that more than 80 percent of those who reentered anticipated doing so prior to retirement. Labor market reentry is another method by which workers can smooth the transition from employment to full retirement.

A drawback of some reentry studies is their reliance on self-

reported retirement, which is not consistently defined across respondents. This article addresses that issue by using the respondent's actual work status at the time of each survey to identify retirement transitions. Using nine waves of HRS data, the article focuses on the prevalence and determinants of reentering the workforce after retirement. This period covered by the nine waves, from 1992 to 2008, makes it possible to observe many different work histories and reveals a variety of interesting paths to retirement.

The next section describes the dataset and methods used in the analysis that follows, with a detailed description of a key subsample: workers who have had a full-time career job in their work history. The final two sections present and summarize the findings obtained from the analysis.

Data and methods

The HRS is an ongoing nationally representative longitudinal survey of older Americans that began in 1992.²² The survey, which includes detailed information on the demographic and economic characteristics of the sample, has been conducted every other year since 1992, with data currently available through 2008. The initial group of about 12,600 respondents (from approximately 7,600 households) varied in age from 51 to 61 years at the time of their first interview in 1992. Attrition from one wave to the next ranged from 4 percent to 9 percent, and about 62 percent of the original sample remained after 16 years.²³ For the purposes of this article, a key feature of the survey is a set of questions related to the respondents' work status in each wave. The longitudinal nature of the dataset permits an analysis of each individual's job decisions over time, including the way in which the person exits the labor force. Because the focus of the article is labor force exit and retirement patterns, the sample is restricted to respondents who worked at some point after age 49. As the following tabulation of HRS "core" respondents—those who were ages 51 to 61 in 1992—shows, 91 percent of the men and 78 percent of the women had work experience after age 49:

| Survey participation or work status | Total | Men | Women |
|---|--------|-------|-------|
| Participated in wave 1: | | | |
| Sample size | 12,652 | 5,869 | 6,783 |
| Worked after age 49: | | | |
| Sample size | 10,639 | 5,353 | 5,286 |
| Percent of HRS core | 84 | 91 | 78 |
| Had a full-time career job after age 49 |): | | |
| Sample size | 7,432 | 4,288 | 3,144 |
| Percent of HRS core | 59 | 73 | 46 |
| In a full-time career job in 1992: | | | |
| Sample size | 5,617 | 3,061 | 2,556 |
| Percent of HRS core | 44 | 52 | 38 |

Also noted in this tabulation are those who worked in a full-time career job after age 49, including those who had a job in 1992 that ultimately became a full-time career job. A full-time career job is defined as a job in which an individual works at least 1,600 hours per year for at least 10 years. The initial questionnaire asked about a respondent's current (in 1992) job and all previous jobs that lasted 5 or more years. This information makes it possible to determine whether a respondent ever held a full-time career job. Further, respondents who were not working at the time of the initial interview were asked about the most recent job held, regardless of tenure. In all, as shown in the tabulation, 73 percent of men and 46 percent of women had a full-time career job after age 49.

The bulk of the analysis that follows utilizes just those with full-time career jobs at the time of the first (1992) interview, because the first HRS survey contains key questions about demographics and job characteristics. In the HRS, 52 percent of men (n = 3,061) and 38 percent of women (n =2,556) had a full-time career job in 1992.

Results

The analysis begins with the group of HRS respondents who held a full-time career job after age 49. As shown in the following tabulation, in 2008 slightly more than 40 percent of these men and women either were still in a fulltime career job or were working in a bridge job:24

| Work status in 2008 | Men | Women |
|--|------|-------|
| Still in a full-time career job | 22.6 | 23.3 |
| Moved to a bridge job: | | |
| Still in a bridge job | 20.9 | 18.7 |
| Moved out of the labor force | 23.1 | 23.0 |
| Still out of the labor force | 21.2 | 21.1 |
| Reentered the labor force | 1.9 | 1.9 |
| Exited directly from a full-time career job. | 33.4 | 35.1 |
| Still out of the labor force | 27.0 | 29.2 |
| Reentered the labor force | 6.4 | 5.9 |

The respondents of interest in this study are the remainder: those who had left the labor force by 2008, as did 56 percent of the men and 58 percent of the women.²⁵ As shown in the tabulation, some left the labor force directly from full-time career employment (about 33 percent of the men and 35 percent of the women) while others left from a postcareer bridge job (another 23 percent of the men and 23 percent of the women).26 Of those who did exit the labor force, about 15 percent ((1.9 + 6.4)/56.5) of the men and about 13 percent ((1.9 + 5.9)/58.1) of the women later returned.

Demographic and economic characteristics of labor force reentrants. What factors are associated with reentry? To answer this question, rates of reentry are examined across various demographic and economic categories, measured at the time the respondents left their full-time career jobs. However, because much of this information is not available if the respondent's full-time career job ended before the first interview, respondents here were restricted to those who had a full-time career job in 1992. This restriction reduced the sample size from 7,432 to 5,617. Of these remaining respondents, 1,559 men and 1,311 women (see sample sizes at the bottom of table 1) subsequently left the labor force for two or more consecutive survey waves and 15 percent of them (16 percent of the men and 14 percent of the women) later returned. These reentry percentages are close to those derived from the slightly larger sample mentioned earlier, which included all those with a full-time career job after age 49.

Reentry was more common among those who were younger and in better health at the time of their transition from their full-time career job. (See table 1 for reentry rates by various demographics characteristics.) Rates of reentry declined with age for both men and women. For men, the rate of reentry dropped from 22 percent for those less than 56 years of age, to 16 percent for those ages 56 to 61, 13 percent for those 62 to 64, and only 8 percent among those 65 years and older. The rate of reentry associated with each age category was slightly lower for women than for men, but the pattern by age was the same. For women, the rate of reentry was 20 percent for those less than age 56 at the time of transition and to just 3 percent for those 65 years and older.

Health status also appears to be an important factor in the decision to reenter; reentry was highest for those who rated their health as excellent or very

Table 1. Reentry status of HRS core respondents with a full-time career job in 1992 who exited the workforce for at least two survey waves, by selected demographic characteristics

[In percent]

| | Mer | 1 | Women | | | |
|------------------------------|------------------------------|-----------|------------------------------|-----------|--|--|
| Characteristic | Still out of the labor force | Reentered | Still out of the labor force | Reentered | | |
| Age prior to transition:1 | | | | | | |
| Less than 56 years | 78 | 22 | 80 | 20 | | |
| 56– 61 years | 84 | 16 | 87 | 13 | | |
| 62– 64 years | 87 | 13 | 91 | 9 | | |
| 65 years and older | 92 | 8 | 97 | 3 | | |
| Subjective health status:2 | | | | | | |
| Excellent or very good | 82 | 18 | 84 | 16 | | |
| Good | 88 | 12 | 88 | 12 | | |
| Fair or poor | 90 | 10 | 93 | 7 | | |
| Education: | | | | | | |
| College degree | 83 | 17 | 85 | 15 | | |
| Less than college degree | 85 | 15 | 86 | 14 | | |
| Marital status: ³ | | | | | | |
| Married | 84 | 16 | 86 | 14 | | |
| Not married | 87 | 13 | 86 | 14 | | |
| Dependent children status:⁴ | | | | | | |
| Has dependent children | 82 | 18 | 82 | 18 | | |
| Has no dependent children | 85 | 15 | 88 | 12 | | |
| Spouse's health status: | | | | | | |
| Excellent or very good | 85 | 15 | 87 | 13 | | |
| Good | 86 | 14 | 85 | 15 | | |
| Fair or poor | 86 | 14 | 88 | 12 | | |
| Spouse's employment status: | | | | | | |
| Employed | 83 | 17 | 85 | 15 | | |
| Not employed | 86 | 14 | 87 | 13 | | |
| Sample size | 1,315 | 244 | 1,129 | 182 | | |

Differences in the rate of reentry by age among men, among women, and across gender are statistically significant at the 1-percent level.

NOTE: HRS core respondents are those who were 51 to 61 years old in 1992. Demographic characteristics are defined as of the survey wave prior to work force exit. In some cases, a value could not be determined in the survey wave prior to transition.

SOURCE: Authors' calculations based on the Health and Retirement Study (HRS).

Differences in the rate of reentry by subjective health status among men and among women are statistically significant at the 1-percent level.

³ Differences in the rate of rentry by marital status across gender are statistically significant at the 1-percent level.

⁴ Differences in the rate of reentry by child dependency status among women and across gender are statistically significant at the 1-percent level.

good prior to leaving their career jobs and lowest for those who rated their health as fair or poor. In particular, 18 percent of the men and 16 percent of the women with excellent or very good health reentered, compared with just 10 percent of the men and 7 percent of the women with fair or poor health and intermediate percentages (12 percent) for men and women with self-described good health. This finding may indicate that healthy men and women have more opportunity to rejoin the labor market, or they may face broader choices of occupations and industries.

One other notable finding from the examination of demographic characteristics is that women with dependent children at the time they left full-time career employment were significantly more likely to reenter the workforce than those without dependent children (18 percent and 12 percent, respectively); this was not true for men.

In addition to these differences by demographic characteristics, rates of reentry differed across various economic categories, including those associated with an individual's full-time career job. (See table 2.) The rate of reentry was lower among those with only definedbenefit pensions compared with those with only defined-contribution pensions or no pension, but the difference, which was more pronounced among women than men, was not statistically significant at the 10-percent level. These results are consistent with the literature on bridge jobs, which finds that those with defined-benefit plans are less likely to experience gradual retirement.²⁷ The results are also consistent with the idea that those with definedbenefit plans have a more financially stable retirement than those with no pensions or with defined-contribution pensions and therefore may be less likely to reenter the labor force to supplement their retirement income.

Labor market reentry also appeared

Table 2.

Reentry status of HRS core respondents with a full-time career job in 1992 who exited the workforce for at least two survey waves, by selected economic characteristics

[In percent]

| | Mei | n | Women | | | |
|--|------------------------------|-----------|------------------------------|-----------|--|--|
| Characteristic | Still out of the labor force | Reentered | Still out of the labor force | Reentered | | |
| Health insurance status: | | | | | | |
| Not covered on career job | 88 | 12 | 88 | 12 | | |
| Covered and would maintain coverage | 85 | 15 | 86 | 14 | | |
| Covered and would lose coverage | 85 | 15 | 90 | 10 | | |
| Pension status: | | | | | | |
| No pension | 85 | 15 | 85 | 15 | | |
| Defined benefit only | 87 | 13 | 89 | 11 | | |
| Defined contribution only | 84 | 16 | 83 | 17 | | |
| Defined benefit and defined contribution | 77 | 23 | 89 | 11 | | |
| Category of employment ¹ | | | | | | |
| Self-employed | 82 | 18 | 77 | 23 | | |
| Wage-and-salary worker | 85 | 15 | 87 | 13 | | |
| Occupation status: ² | | | | | | |
| White collar, highly skilled | 84 | 16 | 86 | 14 | | |
| White collar, other | 85 | 15 | 87 | 13 | | |
| Blue collar, highly skilled | 83 | 17 | 86 | 14 | | |
| Blue collar, other | 87 | 13 | 86 | 14 | | |
| Wage rate: ² | | | | | | |
| \$0-\$10/hour | 82 | 18 | 85 | 15 | | |
| \$10-\$20/hour | 86 | 14 | 87 | 13 | | |
| \$20-\$50/hour | 85 | 15 | 87 | 13 | | |
| More than \$50/hour | 83 | 17 | 85 | 15 | | |
| Wealth (nonpension, nonhousing assets): | | | | | | |
| \$0-\$25,000 | 83 | 17 | 87 | 13 | | |
| \$25,000-\$100,000 | 85 | 15 | 83 | 17 | | |
| \$100,000-\$500,000 | 86 | 14 | 87 | 13 | | |
| More than \$500,000 | 82 | 18 | 90 | 10 | | |
| Home ownership status: ³ | | | | | | |
| Do not own home | 80 | 20 | 86 | 14 | | |
| Own home | 85 | 15 | 86 | 14 | | |
| Sample size | 1,315 | 244 | 1,129 | 182 | | |

¹ Differences in the rate of reentry by category of employment among women are statistically significant at the 1-percent level.

NOTE: HRS core respondents are those who were 51 to 61 years old in 1992. Economic characteristics are defined as of the survey wave prior to work force exit. In some cases, a value could not be determined in the survey wave prior to transition.

SOURCE: Authors' calculations based on Health and Retirement Study (HRS).

² Differences in the rate of reentry by occupational status and wage rate across gender are statistically significant at the 1-percent level.

³ Differences in the rate of rentry by home ownership status among men are statistically significant at the 5-percent level.

to be slightly more common among those with the lowest wage rates (less than \$10/hour) and the highest wage rates (more than \$50/hour) than those in the middle at the time of transition. The differences by wage rate, however, were not statistically significant. This u-shaped pattern also has been observed in the literature on bridge jobs, with workers at both ends of the socioeconomic scale being more likely to utilize bridge jobs on the way out than those in the middle—those at the lower end because they have to and those at the upper end because they want to.²⁸

Among men, the rate of reentry was higher for those who did not own a home than for those who did. For many older Americans, their home is their largest nonpension asset. Overall, more than 55 percent of all those who exited had less than \$100,000 in nonpension, nonhousing assets prior to leaving their full-time career jobs (data not shown in table 2).

Given the flexibility associated with self-employment, it seems, a priori, that the rate of reentry would be higher for respondents who were self-employed in their full-time career jobs than for analogous wage-and-salary workers. This turned out to be true, but only among the women in the sample. Self-employed men were not significantly more likely to reenter the workforce than wage-and-salary men. One possible explanation for this finding among men is that the self-employed can ease out of their career jobs by reducing their hours (an option less likely on wage-andsalary jobs), thereby decreasing the need to change jobs later in life in order to retire gradually. Another possibility in this bivariate analysis (here and throughout tables 1 and 2) is that other factors, which are not held constant, may be blurring the impact of self-employment.

Determinants of reentry. Logistic regression was used to examine simultaneously the determinants of labor force reentry later in life. Individuals were included in the regression if they were in a full-time career job in 1992 and were subsequently out of the labor force for at least two consecutive survey waves. The dependent variable equals 1 if an individual later reentered the labor force and equals 0 otherwise. The explanatory variables consist of the demographic and economic characteristics previously described, as well as some other variables.²⁹ All time-varying variables, such as age, health status, and spouse's employment status, were measured as of the time of the transition from full-time career employment. Regressions were run for men and women separately. Selected marginal effects from the regressions, evaluated at sample means, are reported in table 3.

Consistent with the results of Maestas, one of the strongest predictors of reentry was age.30 The older respondents were at the time they left their full-time career jobs, the less likely they were to reenter the labor force. Men and women who were ages 56 to 61 at the time of their transition, for example, were about 5 percentage points less likely to reenter than those younger than age 56 (the control group for age); men and women who were ages 62 to 64 were, respectively, 8 percentage points and 11 percentage points less likely to reenter than those younger than 56; and men and women ages 65 and older were, respectively, 14 percentage points and 23 percentage points less likely to reenter than those younger than 56. All the age coefficients were statistically significant.

With age controlled for, respondents who rated their health as either fair or poor at the time of the transition were less likely to reenter the labor force than those who rated their health as good (the control group for health) and those who rated their health as either very good or excellent were more likely than the control group to reenter. Only one of the four health coefficients ("excellent or very good" and "fair or poor," for men and for women) was statistically significant, but the other three were close to significant at the 10-percent level.

Pension status, home ownership, and spousal work status also were significant determinants of reentry among men. Men with only a defined-contribution pension plan, and therefore with some of their retirement wealth subject to market risk, were about 5 percentage points more likely to reenter the labor force than those without a pension; in contrast, those with only a defined-benefit plan were no more likely to reenter than those without a pension. The same defined-contribution effect appears for women, although the coefficient is not quite significant at the 10-percent level. These results are consistent with the descriptive results presented in table 2.

One difference between the descriptive and multivariate analyses is the impact of having an employed spouse. In the descriptive analysis, both men and women with a working spouse were more likely to reenter the labor force than those without a working spouse. (See table 1.) In the multivariate analysis, however, although the point estimates are similar (about +.04), this result is statistically significant for the men only. Men (but not women) who owned a home were 5 percentage points less likely to reenter, suggesting that home ownership is a sign of financial stability in retirement. Finally, self-employed women (but not men) were significantly more likely (about 7 percentage points) to reenter than wage-and-salary women, a finding that is also consistent with the descriptive results.

THE EVIDENCE PRESENTED IN THIS ARTICLE suggests that returning to the labor force plays an important role in the retirement process. According to 1992-2008 data

Table 3. Selected marginal effects from logistic regression, HRS core respondents with a full-time career job in 1992 who were not working for at least two consecutive interviews following full-time career employment

| | Mei | 1 | Women | | | |
|--|-----------------|---------|-----------------|-----------------|--|--|
| Variable | Marginal effect | p-value | Marginal effect | p- value | | |
| Age: | | | | | | |
| 55 years or younger | | | | | | |
| 56–61 years | 1-0.053 | 0.019 | 1-0.055 | 0.004 | | |
| 62–64 years | 1078 | .005 | 1105 | .001 | | |
| 65 years or older | 1142 | .000 | 1230 | .000 | | |
| Respondent's health status: | | | | | | |
| Excellent or very good | .033 | .107 | .030 | .124 | | |
| Good | | | | | | |
| Fair or poor | 042 | .196 | 1077 | .018 | | |
| Spouse's health status: | | | | | | |
| Excellent or very good | 017 | .476 | 015 | .535 | | |
| Good | | | | | | |
| Fair or poor | .004 | .911 | 026 | .456 | | |
| Education: | | | | | | |
| Less than high school | .017 | .487 | .039 | .100 | | |
| High school graduate | | | | | | |
| College graduate | .022 | .406 | .013 | .647 | | |
| Married | 031 | .322 | 046 | .151 | | |
| Has dependent child | 2.040 | .091 | .027 | .154 | | |
| | .040 | .051 | .027 | .134 | | |
| Health insurance status: | | | | | | |
| Portable | 011 | .606 | .004 | .833 | | |
| Nonportable | | ••• | | ••• | | |
| None | 063 | .176 | 056 | .184 | | |
| Pension status: | | | | | | |
| Defined benefit only | .011 | .629 | 010 | .642 | | |
| Defined contribution only | 1.048 | .034 | .035 | .119 | | |
| Defined benefit and defined contribution | .021 | .630 | 038 | .533 | | |
| None | | | | | | |
| Occupational status: | | | | | | |
| White collar, highly skilled | 017 | .579 | 010 | .739 | | |
| White collar, other | 019 | .578 | 035 | .176 | | |
| Blue collar, high skilled | .016 | .541 | 002 | .952 | | |
| Blue collar, other | | | | | | |
| Self-employed | .040 | .227 | 1.071 | .024 | | |
| Spouse works | 1.046 | .036 | .039 | .149 | | |
| Own home | ²045 | .068 | .018 | .471 | | |

¹ Statistically significant at the 5-percent level.

NOTE: HRS core respondents are those who were 51 to 61 years in 1992. Dependent variable: reentered labor force (reentered = 1).

Besides controlling for the variables shown, the regression controlled for ethnicity, wage, wage squared, wealth, wealth squared, and region.

SOURCE: Authors' calculations based on Health and Retirement Study (HRS).

 $^{^{\}rm 2}\,$ Statistically significant at the 10-percent level.

from the Health and Retirement Study, about 15 percent of older career workers who left the labor force subsequently returned to work. This rate of reentry is higher than the 10-percent rate estimated by Quinn, Burkhauser, and Meyers with data from the 1970s³¹ and lower than the recent "unretirement" rate identified by Maestas, which exceeded 20 percent.³² The difference is due in part to the more restrictive requirement used in this article of being observed to be out of the labor force during at least two survey waves, compared with Maestas's definition, which combined a measure of hours worked with self-reported retirement status. The two-wave requirement means that reentries after labor market departures that did not overlap two HRS surveys will not be counted and therefore that the 15 percent estimated here should be viewed as a lower bound.

The determinants of reentry among older Americans are similar to those of other job transitions late in life, such as transitions from career employment to bridge jobs, as described by Quinn, by Cahill, Giandrea, and Quinn, and by Ruhm.³³ Respondents were more likely to reenter after leaving the labor force if they were younger and in good health; also, female HRS respondents were more likely to do so if they had dependent children at the time of the transition. Individuals with employer-provided defined-contribution pensions in their full-time career job were more likely to reenter than those without pensions, whereas those with defined-benefit plans were not. Finally, men who did not own a home and those whose wives were still working were more likely to reenter.

The findings presented here provide additional evidence beyond that in the existing literature that retirement transitions are diverse and that many workers' exits from the labor force are not permanent. This ability to reverse retirement decisions may become increasingly important to older Americans in the years ahead as the effects of the shift in employer-provided pensions from defined-benefit to defined-contribution plans set in. Older Americans who once would have relied on a steady source of retirement income from defined-benefit plans now face the risk of outliving their assets. In light of this reality, these workers may recon-

sider some aspects of their retirement plans. One response to the risk of outliving one's assets is to reduce consumption to allow existing assets to last longer. Working longer—delaying the age at which one permanently leaves the labor force—is another option, one with advantages for both individuals and society as a whole, because living standards can be maintained and national output is increased. With the possibility of reentry, older Americans can exit the labor force and retain the option of working again if necessary.

For reentry to be a viable option, however, a retiree must have confidence that a job will be available if needed. This issue of labor demand was not a large concern during much of the past 20 years, with unemployment mostly in the 4- to 6-percent range. More recently, however, in light of persistently higher unemployment rates, older Americans might well be less confident about finding a job after exiting the labor force, perhaps limiting the extent to which reentry is viewed as a viable option in retirement.

Because of uncertainty about finding a new job if needed, older workers may be reluctant to leave a career job later in life. Instead, they may choose to remain in career employment in order to accumulate additional wealth for retirement. Further, older retirees hoping to work again may experience a reduction in living standards if their job search drags on. In that case, some will turn to social programs they would otherwise not have needed. Indeed, labor demand might be a key consideration in older workers' assessments of labor force reentry as a way to supplement inadequate retirement income.

Recent research on when and how Americans retire, as well as this and other studies on labor force reentry, has established that the work patterns of older Americans are many and varied. Retirement is not a one-time, permanent event for most older Americans, even for those who initially leave the labor force directly from career employment. A sizable minority of the latter subsequently return to the labor force. When reentry is considered together with the prevalence of bridge jobs, it becomes clear that retirement from a career job is indeed a process that takes place over time for the majority of older Americans.

Notes

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 - ¹³ Munnell and Sundén, Coming Up Short.
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- ¹⁷ See Courtney C. Coile and Phillip B. Levine, "Bulls, Bears, and Retirement Behavior," Industrial and Labor Relations Review, April 2006, pp. 408-29.
 - ¹⁸ Quinn, Burkhauser, and Myers, Passing the Torch.
- 19 See David M. Blau, "Labor Force Dynamics of Older Men," Econometrica, January 1994, pp. 117-56.
- ²⁰ Hazard rate, in this context, refers to the conditional probability of entering full employment in a particular quarter given that one is still out of the labor force at the beginning of that quarter.
- ²¹ See Nicole Maestas, "Back to Work: Expectations and Realizations of Work after Retirement," Journal of Human Resources, summer 2010, pp. 719-48.
- ²² See F. Thomas Juster and Richard Suzman, "An Overview of the Health and Retirement Study," Journal of Human Resources, Special Issue on the Health and Retirement Study: Data Quality and Early Results, vol. 30, 1995, pp. S7-S56; and Growing Older in America: The Health & Retirement Study (U.S. Department of Health and Human Services, 2007), http://www.nia.nih.gov/ResearchInformation/ExtramuralPrograms/ Behavioral And Social Research/HRS.htm (visited Dec. 12, 2010).
- ²³ Attrition is due to many factors, including the death of the respondent, an inability to locate the respondent, or refusal to participate in the survey.
- ²⁴ Respondents classified as "still in a full-time career job" are those who were in a full-time career job in 2008 and those who were last observed as being in a full-time career job.
- ²⁵ Respondents who were judged to have left the labor force were required to be out of the labor force for at least two surveys in order to avoid misclassifying those who had only a temporary lull in employment—for example, someone who left a career job just before the 2004 survey and moved to a bridge job several weeks later, but just after the 2004 survey. Therefore, a respondent had to exit the labor force before the 2004 interview in order to qualify for reentry status. For example, a respondent who worked in 2002, was out of the labor force in 2004 and 2006, and was back in the workforce in 2008 would qualify.
- ²⁶ The survey was unable to identify retirement transitions for about 8 percent of the sample. These individuals are not reflected in
- ²⁷ See, for example, Cahill, Giandrea, and Quinn, "Retirement Patterns.'
- ²⁹ Other variables included in the regression, but not shown in table 3, are ethnicity, wage rate, financial wealth, and region. The coefficients of these variables were not statistically significant at the 5-percent level.
 - 30 Maestas, "Back to Work."
 - ³¹ Quinn, Burkhauser, and Myers, Passing the Torch.
 - 32 Maestas, "Back to Work."
- ³³ See Quinn, "Retirement Patterns"; Cahill, Giandrea, and Quinn, "Retirement Patterns"; and Ruhm, "Bridge Jobs."

The overestimated workweek revisited

Data from the American Time Use Survey (ATUS) and a Belgian national survey using weekly diaries indicate that, when asked to estimate their number of work hours, employed respondents tend to overestimate their work hours by 5–10 percent in relation to the work hours they report in their time diaries; most of the overestimation is accounted for by respondents who estimate longer work hours

John P. Robinson, Steven Martin, Ignace Glorieux, and Joeri Minnen

ntil recently, most data about the public's time use came from survey questions that ask respondents to estimate how much time they spend or spent on an activity during a particular period, usually a week or day (often "last week" or "yesterday"); an example is "How many hours a week (day) do you spend working (watching television, doing house cleaning, etc.)?"There is a rich body of historical U.S. data that rely solely on this method, which can be called "the time-estimate approach"; in this article, questions asked with this approach generally are referred to as "time-estimate questions" or simply "estimate questions." As examples of the time-estimate approach, the Current Population Survey (CPS) is used to calculate data on time spent working, the Independent Sector (a coalition of charities, corporate giving foundations, and foundations) and other organizations estimate time spent doing volunteer work, the Census Bureau and the U.S. Department of Transportation estimate time spent traveling, and the Roper Organization and the General Social Survey are sources of data on time spent watching television. In Middletown Families, Theodore Caplow and colleagues

used the responses to a number of estimate questions to support their arguments about changes in daily life in the United States, and in Bowling Alone, Robert Putnam used similar data to support his arguments about declining social capital in the Nation.1

The most widely used time estimates of work hours come from the CPS, in which respondents estimate how many hours they worked the previous week as well as estimating the "usual" number of hours per week that they work. The CPS has been considered the premier data source for assessing the extent of and changes in the work patterns of men and women in the United States. One of the great advantages of CPS-type estimate questions is that they are asked of very large samples with high response rates. For example, the CPS surveys about 60,000 households every month for all 12 months of the year regarding work and job-search activities, and these questions have been asked over a very long period, extending back four or more decades. The CPS data thus make it possible to identify not only trends in the overall average number of hours worked, but also trends in hours worked by sex, by age, by marital status, by presence and ages of children, and by other demographics. Juliet Schor, for example, used these data to support her conclusion that Americans are overworked.²

John P. Robinson is a professor of sociology and Steven Martin is a former assistant professor of sociology, both at the University of Maryland, College Park. Ignace Glorieux is a professor of sociology and Joeri Minnen is a Ph.D. student, both at Vrije Universiteit Brussel (the Free University of Brussels) in Belgium. Email: jpr@umd.edu

Time-estimate questions have drawbacks, however. Recalling details about time spent in an activity involves complicated calculations. Asking someone "How many hours do you work?" assumes that each respondent interprets "work" the same way, searches his or her memory for *all* episodes of work during an extended period, and is able to properly add up all the lengths of all the episodes across the day or across days in the previous week. Another problem with survey estimate questions is that the respondents are expected to provide on-the-spot answers in a few seconds. What seems at first to be a simple estimation turns out to involve several steps that are quite difficult to perform, even for a respondent with regular and clear work hours and a repetitive daily routine.

An alternative to the time-estimate approach is the time-diary approach. The appeal of time diaries is that respondents are not asked to make complex, vague, or subjective calculations, but simply to recall their activities sequentially for a specific period, usually the previous day. In that way, it becomes possible to reduce the respondents' recall period, to cover all daily activity, and to ensure that the account of one's day respects the "zero-sum" property of time (since the respondents' daily activities must total to exactly 24 hours).

The first U.S. national time-diary studies were conducted at the University of Michigan in 1965 and 1976 and subsequently at the University of Maryland. Since 2003, diaries have been collected by the U.S. Census Bureau for the Bureau of Labor Statistics American Time Use Survey (ATUS), which uses much larger samples of respondents than the earlier studies used. The people in the ATUS sample are age 15 and older and are asked to report all their activities for the previous day. All ATUS respondents are interviewed by telephone.³

Despite its usefulness, the diary method is not without its own problems. Respondents can still distort, embellish or even lie outright about what they do. When asked to recall what they did, many simply cannot remember and may substitute a habitual activity for what actually took place. In addition, the method demands a fair amount of time and effort from both the interviewer and the respondent, although survey respondents often enjoy the task of recalling their daily activities.

Analysts might wish for fuller or more verifiable accounts of activity than the oral retrospective diary accounts in the ATUS. Among the alternatives that have been undertaken are "experience sampling method" (ESM) studies, in which respondents report what they are doing when an electronic "beeper" goes off at random moments during the day; the observational approach employed in

the Middletown Media Studies of Ball State University, in which participants are shadowed throughout the day by an observer who digitally records their activity every 10 seconds; and less precise observational approaches, such as those which have been used often in anthropology.⁴ Nonetheless, diaries are a richer and more contextualized source of information about people's activities than any present alternative, particularly because of their high response rate and 24-hour-per-day coverage.

Time estimates versus diary figures

The results from time-diary studies challenge many existing beliefs. Most notably, time-diary-based estimates of paid work hours typically are lower than estimates derived from the CPS.⁵ Perhaps because of the diary's implicit constraint on the numbers of hours in a day (all activities must add up to exactly 24 hours), diary respondents tend to report fewer hours at work per day or week than respondents to time-estimate questions. Responding to questions of the type "How many hours do you usually work (or did you work last week)?" workers within the range of 35- to 45-hour work weeks tend to report relatively similar work hours when filling out time diaries and when answering questions asked with the time-estimate approach, but the higher the respondent's estimated number of hours per workweek, the larger is the gap between the estimates obtained with the two approaches. Workers estimating 50- to 80-hour workweeks had progressively greater gaps between this estimate and what they reported in their diaries. This suggests that data obtained from time-estimate questions tend to follow the pattern of "The greater the estimate, the greater the overestimate."

Jerry Jacobs has challenged this notion of inaccurate estimates, arguing that the gap was simply a result of the familiar "regression to the mean" phenomenon. He produced statistical models that could account for these gaps. Using more recent data from the ATUS, Harley Frazis and Jay Stewart found no notable difference between diary data and data from estimate questions, also arguing that any gaps might result from regression to the mean. However, Frazis and Stewarts' results were mainly for days in "reference weeks" during the month and not for days in other weeks of the month.

Previous findings about the gap

In contrast to many previous studies, it is argued here that, in comparing responses to estimate questions about time

spent working with data from time diaries on time spent working, there are several findings from both recent and earlier time-diary research that support the conclusion that the gap between answers to estimate questions and time-diary figures is persistent and consistent (although it does not appear to be especially large) and that respondents tend to give even more inaccurate answers when asked estimate questions about a number of different nonwork daily activities, like housework and sleep.

This section of the article presents arguments and findings from the literature that relate to the gap. Each argument or finding is in italics and is followed by an explanation.

Estimates across all, or almost all, activities ultimately sum to more than 168 hours per week. In some studies, respondents have been asked to estimate the durations of virtually all their daily activities, not just work or housework, but sleep, TV, and socializing, among many others. When asked to provide such daily and weekly estimates, survey respondents tend to give estimates that add up to considerably more than the 168 hours in each week. David R. Chase and Geoffrey C. Godbey obtained similar results when they asked members of swimming and tennis clubs how many times they had used the club during the previous 12 months and checked their responses against the sign-in system each club had. For both types of clubs, almost half of all respondents overestimated the actual number of times they participated by more than 100 percent.⁷ In other words, there seems to be a tendency for respondents to inflate estimates, either by double counting activities that were done simultaneously or by giving socially desirable responses (as argued later in this article).

The gap in work hours is found in several other countries. John Robinson and Jonathan Gershuny found consistent overreporting of paid work hours by employed people, not only in the United States but also in 10 other Western countries. In each country, diary work hours were lower than the number of hours that workers gave in response to estimate questions.8 The gap was also observed in more recent diary studies conducted in three other countries: Russia, China and Japan.

The gap was smaller in the 1960s and has varied over time. John Robinson and Ann Bostrom have noted that the size of the gap was notably smaller in 1965 when the first national diary study was conducted. In 1965, the gap was 1.3 hours; in 1975, 3.6 hours; and in 1985, 6.2 hours. The gap then decreased to 2.7 hours for the 1993-95 period,

increased to 3.7 hours for the 1998–2001 period, and fell to 2.4 hours for the 2003-07 period.

The changing magnitude of the discrepancy since 1965 makes it difficult to argue that the discrepancy simply results from a "regression to the mean" effect, given that there was little evidence of a discrepancy in the earlier studies. It is argued here that, instead, with the movement of the labor force into more service occupations and other occupations in which work schedules are becoming more irregular (with no time clock to punch as a vivid reminder), workers have fewer benchmarks to use in estimating the number of hours in their workweek.

The gap is in evidence for estimates of work hours arrived at with more precise methods. Alain Chenu and John Robinson have described a national diary study in France in which workers were asked to complete a "work grid" over a 1-week period, recording for each day the precise times they began and ended work.¹⁰ The grid not only showed work hours that were much closer to diary figures than workers' standard time estimates were, but also showed the pattern of higher discrepancies among respondents giving higher estimates.

Even larger overestimates have been found for time spent on housework. Both a study by Margaret Marini and Beth Shelton and another by Julie E. Press and Eleanor Townsley found notably shorter times spent on various housework tasks, like cooking and cleaning, in national time diaries than in answers to time-estimate questions from the 1984 National Survey of Families and Households (NSFH).¹¹ The NSFH questions about housework are of particular interest because they deal with unpaid work in society, which is a productive area of daily activity outside of paid work and is of considerable economic relevance, and because they have been extensively analyzed in the family studies literature.

However, both the Marini and Shelton and the Press and Townsley studies had to depend on data from separate time-diary and time-estimate surveys. In the 1998–2001 national diary study described in chapter 2 of Changing Rhythms of American Familiy Life, by Suzanne M. Bianchi, John P. Robinson, and Melissa A. Milkie, both the time-estimate data and daily diary data were collected from the *same* respondents, making it possible to show that the discrepancy between the two datasets is not a result of confounding factors. 12 Indeed, across each of nine separate household tasks, like cooking and laundry, respondents estimated higher numbers of hours for housework than they reported in their time diaries. After the time spent doing these nine tasks was added up, it was found that, per week, men estimated a total of 23 hours of housework versus 10 hours in the diary, and women estimated 32 hours versus 17 hours in the diary. Including housework done as a secondary activity (multitasking) in the diary did decrease that gap, but by only 2 hours for men and 3 hours for women. Moreover, the authors found that reducing the time-estimate recall period by changing from a "last week" to a single "yesterday" estimate did not reduce the gap between the estimate and diary figures, even though that "yesterday" was the diary day itself. Furthermore, when the time-estimate data and time-diary data are plotted against each other, the same pattern emerges, with the largest overestimates of housework reported by those estimating the most housework.

The gap is found in using weekly as well as daily time diaries. Another way to compare standard estimates with diary figures involves the use of weekly diaries, and this method may be better since here one is using the same weekly reference period instead of comparing a day with a week. A study conducted this way thus can move beyond the assumption that daily diary figures can be synthetically aggregated to produce average weekly figures, an assumption that was made in creating work-hour categories for this article. Weekly diaries were used in two studies conducted in Belgium, which are the second main data source for this article; the first source is the ATUS and CPS.

A hypothesis about the gap

Unlike the case for paid work hours, for which the discrepancy between answers to estimate questions and diary figures is in the 5-percent to 10-percent range, the gap for housework is almost double. This suggests that, although purporting to be measuring the same phenomena, estimate figures and diary figures might better be treated as highly correlated but essentially different from each other. In this article, it is hypothesized that there is not a single "mean" to which to regress, but instead at least two separate means—one for answers to estimate questions and a second for diary figures.

Despite the methodological concerns regarding different wordings of estimate questions—with some asking respondents about "last week," others about a "usual week," and so forth—there is evidence in table 1 which suggests that there are in fact two means; specifically, the averages of work hours that respondents estimated are very similar to one another for a given demographic, the diary figures are very similar to one another for a given demographic,

and the gaps between the two datasets are very visible. An answer to a time-estimate question is a *perception* rather than a number arrived at through pure addition, and the perception probably is influenced by implicit or explicit work-hour arrangements between the employer and the employee; in addition, the perception is not formally verified. Moreover, it appears that even more "means" of work hours are introduced by the other observational measures described in the introductory section of this article; for example, "beeper" studies have found notable amounts of time at work being spent on nonwork activities.

The ATUS and the CPS

The ATUS is a survey of adults age 15 and older that has been conducted across each year since 2003 in the United States with a nationally representative sample. The present study analyzes 2003-07 data from the ATUS and the CPS. Although people ages 15 years and older were interviewed, only those ages 18-64 who were employed are considered here. Between January 1 of 2003 and December 31 of 2007, more than 70,000 adults ages 15 and over were interviewed for the ATUS, with an overall response rate of about 56 percent. The interviews were conducted by telephone by interviewers from the U.S. Census Bureau and were spread across the entire year, with just over 1,500 interviews a month in 2003 and just over 1,000 per month in 2004–07. Approximately half of the interviews asked about weekdays, and the other half asked about (more variable) weekend days.

Each respondent completed a "yesterday diary" for the 24 hours of the previous day, following procedures described in the ATUS section of the BLS Web site. Additionally, the survey includes an estimate question about work hours in addition to demographic and background questions. Other background information and information about works hours had been collected from one randomly chosen member in that household—not necessarily the same respondent—who had been interviewed eight times over the previous 2 years as part of the CPS; the CPS contains two estimate questions about work hours. The ATUS is funded by the Bureau of Labor Statistics and was not specifically designed to be comparable to earlier national time-diary surveys, although it has resulted in diary figures highly similar to those from the earlier surveys. ¹³

The diary figures include all activity clearly reported as work in the diary, including short breaks and social events that took place during the workday. Two work-related activities that were not coded as work in these diaries were the commute to and from work and breaks for lunch or

Table 1. The mean number of hours that respondents directly estimated working, their mean number of work hours according to their diaries, and the difference between the two, 2003-07 data

| 1 or more hours | | | 20 | or more ho | urs | 35 or more hours | | | |
|--|-----------|-------|----------------------------|------------|-------|----------------------------|-----------|-------|----------------------------|
| Estimate question | Estimated | Diary | Estimate minus diary | Estimated | Diary | Estimate minus diary | Estimated | Diary | Estimate minus diary |
| All workers | | | | | | | | | |
| ATUS question about "usual" work hours | 39.5 | 36.3 | 3.2 | 41.3 | 37.4 | 3.9 | 44.0 | 40.4 | 3.6 |
| CPS question about "usual" work hours | 39.5 | 35.9 | 3.6 | 41.3 | 37.3 | 4.0 | 43.5 | 38.1 | 5.4 |
| CPS question about work hours "last week" | 38.7 | 35.9 | 2.8 | 41.3 | 37.6 | 3.7 | 43.5 | 40.4 | 3.1 |
| Women | | | | | | | | | |
| ATUS question about "usual" work hours | 35.5 | 32.3 | 3.2 | 38.4 | 34.8 | 3.6 | 41.9 | 37.4 | 4.5 |
| CPS question about "usual" work hours | 36.7 | 32.1 | 4.6 | 39.1 | 33.9 | 5.2 | 42.2 | 36.2 | 6.0 |
| CPS question about work hours "last week" | 35.5 | 31.9 | 3.6 | 38.7 | 33.5 | 5.2 | 43.9 | 37.6 | 6.3 |
| Men | | | | | | | | | |
| ATUS question about "usual" work hours | 42.7 | 40.6 | 2.1 | 44.2 | 41.8 | 2.4 | 45.8 | 42.8 | 3.0 |
| CPS question about "usual" work hours | 42.5 | 40.0 | 2.5 | 43.6 | 40.7 | 2.9 | 44.8 | 41.7 | 3.1 |
| CPS question about work hours "last week" | 42.5 | 40.0 | 2.5 | 43.8 | 41.3 | 2.5 | 46.7 | 42.8 | 3.9 |

NOTE: The diary data differ within a given column and demographic because the diaries are matched with the people who answered the respective estimate questions (the ATUS estimate question and the two

from the CPS) so as to calculate reliable "estimate minus diary" figures. SOURCES: The American Time Use Survey and the Current Population Survey.

other meals. In order to generate synthetic weekly estimates from these daily diaries, data for each day were aggregated. Thus, if respondents averaged 7 hours of paid work as recorded in the diary for Monday, 8 hours as recorded for Tuesday through Thursday, 6 hours for Friday, 3 hours for Saturday, and 0 hour for Sunday, the aggregated weekly diary time for this sample would be (7 + 8 + 8 + 8 + 6 + 3 + 0 = 40 hours.

Three estimate questions (each composed of two subquestions) are asked about work hours, one question asked in the ATUS and the other two asked in the CPS. The ATUS asks the following:

1) a) How many hours do you usually work per week at your main job? and b) How many hours do you usually work per week at your other jobs?

The other two questions are the ones the original household respondent had answered for all employed household members in the CPS interview 2–5 months previous to the ATUS survey. One question is the same as the one asked in the ATUS:

2) a) How many hours do you usually work per week at your main job? and b) How many hours do you usually work per week at your other jobs?

The other question in the CPS interview was in regard to each worker's actual work hours from the previous week:

3) Last week, how many hours did you actually work at your main job? and b) Last week, how many hours did you actually work at your other jobs?

Note that all these questions include second jobs in the total, as do the diary figures for all working people.

The mean values for the responses to each of these three estimate questions appear in table 1 alongside the mean work hours that were calculated from the diary for the same groups of people that answered the respective estimate questions. The diary figures were weighted such that equal weight is given to each day of the week.

ATUS and CPS results

As can be seen in table 1, the three questions presented in the previous section of this article resulted in remarkably similar mean estimates. The hours worked as calculated from the diary are in another column, and the differences between the data in these two columns are shown in the third column. These three columns exist across the three categories of workers in the table. In order to show that the gap between the work hours given in response to estimate questions and the work hours calculated from diaries applies both to workers with heavier workweeks and to those with lighter workweeks, data are provided for three categories of workers: 1) those estimating 1 or more hours of work per week, 2) those estimating 20 or more hours of work a week, and 3) those estimating 35 or more hours of work a week. In addition, the data are calculated for all workers together and also calculated separately for female and male workers.

It can be seen that, for both the questions about usual work hours and the question about work hours from the previous week, and for both female and male workers, the estimates are larger than the diary figures, as hypothesized and as found in previous studies. That gap tends to be larger for full-time workers than for full-time and part-time workers together, and larger for women than men. The gap between the answers to the CPS question on actual hours and the diary data is lower than both of the other gaps for men and women together, but not lower than both for men and women separately. The "estimatediary" gaps range from 2.1 hours to 6.3 hours; in other words, relative to the work hours they recorded in their diaries, when asked how many hours they usually worked or had worked the previous week, people overestimated by between 5 percent and 12 percent.

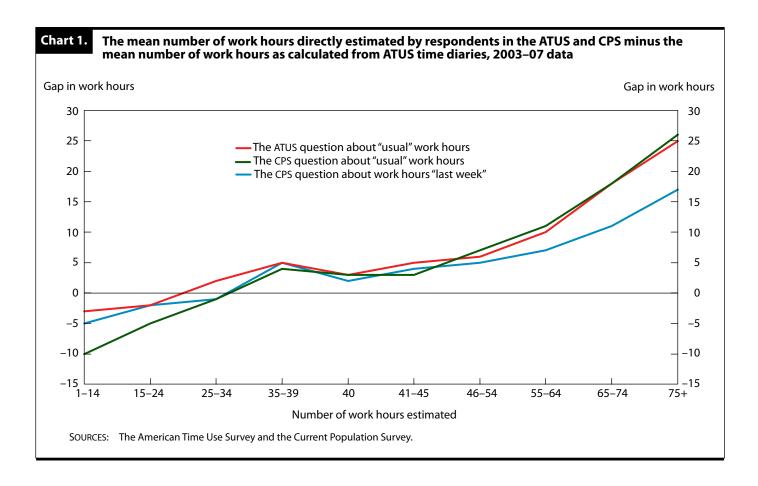
Averaged across all years, estimated works hours come to over 39 hours of work per week, whereas the diary figures averaged closer to 36 hours. Chart 1 shows the gap as a function of the estimated number of hours worked for each of the three estimate questions. The chart shows the familiar "greater estimate, greater overestimate" pattern from previous gap studies. As might be expected, compared with the diary figures, the responses to the CPS question about work hours during the prior week differed the least, and the responses to the CPS question about usual hours (asked 2–5 months previously) differed the most, with the responses to the ATUS question about usual work hours in between. Nonetheless, the three lines on the chart are remarkably close and similar to one other.

If chart 1 were also to show these gaps by sex, the general pattern would hold both for women and for men, although for both sexes the gap is not as marked as in most previous studies. Note that the same "greater estimate, greater overestimate" pattern in chart 1 holds after multivariate adjustment for each respondent's age, education, marital status and parental status.

Weekly time diary studies in Belgium

National time-diary data were gathered in Flanders, the Dutch-speaking part of northern Belgium in 1999 and in 2004 by data collectors who visited people's homes. Respondents were selected randomly from the government's General Register (containing all Belgians) in 1999 and from a commercial mailing list (claiming to contain more than 95 percent of Belgians) in 2004. A total of 1,533 respondents ages 16 to 75 years took part in the 1999 study, and a total of 1,780 respondents ages 18 to 75 years participated in the 2004 study. In both studies the field work took place between mid-April and mid-July and from the first of September to the end of October. The response rate in 1999 was about 27 percent; in 2004, it was approximately 37 percent. After adjustments for invalid addresses, deceased persons, those who did not speak Dutch, those who were sick, people who were handicapped in a way that prevented them from responding, and those who were on vacation or business travel during the period, the response rates increased to 29 percent for the 1999 study and to 42 percent for the 2004 study. Although these response rates are low, they are higher than one might have expected given that the survey involved a fairly high level of respondent burden. In addition, both datasets were weighted for educational level, sex, and age to be in accordance with national demographic figures. The diary weeks and the starting days were both assigned randomly across respondents. For this article, the data from the two studies were pooled. Only people ages 18 to 64 years old who had a job were selected (n = 1,796: 977 men and 819 women).

Respondents were contacted in person. After instructions from the interviewers on how to record their activities, respondents filled out a multipage diary for the next 7 consecutive days, describing on each page their main activities with the starting and ending times for each activity, and also writing down secondary activities occurring simultaneously, the location of each activity, any means of



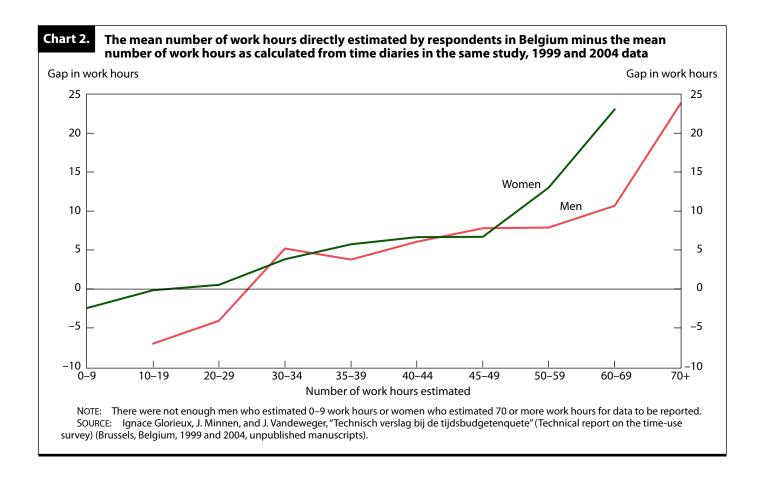
transport taken during the activity, and the people whom they were with while doing all activities. The respondents were instructed to carry the diary with them throughout the day. It was an open-interval diary, meaning that respondents could report exact starting and ending times. To record their main and secondary activities, they were instructed to refer to a list of 163 activities (154 in 1999) that had been created with the intent to cover all relevant human activity. If respondents felt that one or more of their activities were not on the list, they could write it out in their own words. The use of a precoded activity list has the advantage of steering respondents toward employing the same level of detail in reporting their activities.

The diary information was supplemented in both surveys by two questionnaires. The first was administered face-to-face before the diary period and contained mainly questions on sociodemographic factors, attitudes, and other background information, as well as instructions for filling out the diary correctly. The first questionnaire asked the following question on work hours: "How many hours do you generally spend per week (weekend included) on paid work? By work we mean all the work you do for your main job, including paid and unpaid overtime. Thus, it is

the real time you work on your main job. Please do not include the time you travel between home and work."

The question has the advantage over the aforementioned CPS questions of asking respondents to exclude their work commute. Respondents were not explicitly asked to exclude meal times. However, since the preceding question asked about the number of hours that respondents were contracted to work, it should have been clear to the respondents not to take meal times into account. Nevertheless, this ambiguity could be a factor behind the discrepancies between diary times and people's responses to the estimate question about work hours. The estimate question was repeated for those respondents with a second job. These two estimates (one for the first job, the other for the second) were counted together to arrive at one estimate of the total amount of time spent on paid work per week. This general estimate was then coded into 1 of the 10 work-hour categories shown in chart 2.

During the second visit to the respondent, the interviewer checked over the diary with the respondent to resolve any problems or ambiguities in the diary before collecting it. The interviewer also conducted the second questionnaire, which asked whether respondents had dif-



ficulties managing their time and also asked about the division of labor within the household.¹⁴

The advantage of these Belgian data over the ATUS diary data is that they cover an entire week of activities for each individual rather than a single day. Moreover, the estimate question in the Belgian survey asks about general work hours to provide a firm benchmark against which to compare actual work hours as reported in the diary, rather than asking for a "last week" (actual) estimate that may not have been typical.

Results from the Belgian studies

Chart 2 displays data from the Belgian studies and is similar to chart 1 in that it measures estimated work hours on the x-axis and the difference between estimated hours and diary hours on the y-axis. It can be seen that chart 2 conforms to the "greater estimate, greater overestimate" pattern in chart 1 and in previous studies. Perhaps not surprisingly, people who worked "normal hours" (in the 30- to 49-hour range) overestimated their work hours by the smallest amount. As in chart 1 and earlier studies, respondents working less than 30 hours were found

to underestimate their work hours relative to the hours reported in their diaries, counter to the pattern for those working 50 or more hours found in these and other studies. (In the Belgian studies, the overestimate begins even before the 40- to 44-hour range.) In these Belgian studies and a number of others, women, on the whole, seem to overestimate time spent at work more than men do; this is especially true among people who estimate working 50 hours or more. For the sample as a whole, there is a clear general tendency for the estimated number of work hours to be larger than the number calculated from the weekly diary, which is consistent with the hypothesis that that there are "diary means" and "estimate means" and that one should not expect a one-to-one correspondence between the two.

Possible reasons for the gap

As noted earlier, there may still be ambiguities in survey questions that underlie gaps between people's responses to estimate questions and the hours they report in time diaries. The possibility that respondents might include their time spent commuting or on their lunch breaks in their estimates of work hours was minimized in the Belgian survey, but the possibility still exists. Moreover, it is also possible that workers fail to subtract time lost to household crises or other sudden nonwork demands (such as the need to take care of a sick child or repair one's car).

Another factor behind the aforementioned gap may be the well-known survey phenomenon of social desirability.¹⁵ Respondents may believe that low estimates of time spent on paid work or housework estimates could be taken as a sign of being lazy or irresponsible. It seems that the effect of social desirability is a factor behind the discrepancies shown in chapter 2 of Changing Rhythms of American Family Life between respondents' estimates of time spent on housework and parallel diary figures. In the ATUS and CPS results calculated for this article, however, the gaps for paid work and housework—approximately 2-3 hours a week for paid work and 10-15 hours a week for housework and family care—are much smaller, both in relative and absolute terms. The housework estimates are almost double the corresponding diary figures, whereas respondents' estimates of paid work hours average 5-10 percent higher than the hours figures calculated from their diaries. (The housework diary figures in Changing Rhythms were quite close to those reported in the 2003– 07 ATUS diaries.)

There are, as might be expected, several other reasons for the lower overestimates of paid work compared with the overestimates of housework. Paid work hours are far more regularized and often have fixed schedules, with coworkers and supervisors monitoring and depending on reciprocal work activity. When people do unpaid work at home, new home appliances often make it possible to multitask (for example, by doing childcare and other tasks as the washing machine is running); thus, many housework activities become blended together, making it virtually impossible to get an accurate count of hours spent without videotaping the people in the sample or having an observer record their activities.

The misestimation of time in a socially desirable direction seems to carry over to other activities as well, such as attendance at religious services and volunteering. Respondents overestimated their time at religious services by almost 50 percent—1.5 estimated weekly hours, compared with about 1.0 hour in the ATUS diaries. As with other examples of overestimation, there could be simple explanations for such a pattern: people arriving late or leaving early from services, people counting socializing after a service as time at the service, people including driving time, etc. However, the social desirability explanation does seem to fit this overestimation of time, given that religion

is, for the most part, a highly valued activity in American society. Religious services usually have clear start and end times and a regularized agenda, which might help explain why the overestimation for religious services is lower than that for volunteering, in which respondents report engaging for an average of 2 hours a week, compared with the mean weekly ATUS diary figure of about 1 hour.

The social desirability argument also fits with two other activities for which respondents underestimate their weekly hours spent relative to the diary, namely, sleep and free time. Since the first diary study in 1965, respondents have consistently reported somewhere around 8 hours of sleep in their diaries (and closer to 8.5 hours a day in ATUS), yet several surveys contain estimates of closer to 7 hours.¹⁶ And when asked to estimate how many hours of free time they have per week (with an accompanying definition of the seven most common types of free time, including watching TV and socializing), respondents report less than 20 hours per week, compared with at least 35 hours in the ATUS diary.

An argument different from that of social desirability would be needed to explain the underestimation of work hours by those with shorter workweeks and the unemployed. It was anecdotally reported that, in one study of workers classified as unemployed (from lists of such workers), when interviews ran longer than expected, several of these "unemployed" interviewees broke off the interview by saying, in effect, "I'm sorry, but I have to go to work." These workers either still considered themselves unemployed (possibly because they were underemployed) or did not take fully into account the hours they were putting in, perhaps because their work schedule was irregular or unpredictable.

Time estimates are not invariably overestimates. However, for more "productive" activities, it appears the estimates are subject to the common survey issue of social desirability, although far more for unpaid housework than for paid work.

THIS ARTICLE HAS COMPARED DATA from time diaries on the number of hours people worked with data gathered from employed respondents who were asked to estimate directly the number of hours they usually work or actually worked. Results suggest that, overall, the "estimate questions" generate higher estimates of the time men and women spend doing paid work than do figures from daily diaries that are extrapolated across the week. Moreover, there is consistent evidence that larger discrepancies tend to arise from respondents who estimate more hours in their workweek. In Changing Rhythms of American Family *Life*, there was little indication that reducing the estimate timeframe from a week to a day decreased the gap between the estimates respondents gave and the work hours they reported in their time diaries, providing further evidence that data on work hours obtained from estimate questions ought to be treated as a different concept or variable than the figures generated obtained from diaries.

These estimate-diary comparisons are consistent with earlier U.S. diary studies and those from several other countries in that they show minor overestimates of hours spent at work, mainly due to workers who estimate the greatest (60 or more) number of hours at work. This difference in the accuracy of estimates between people who work more hours and those who work fewer hours may be due to those estimating longer workweeks (and the diaries confirm that they do work longer hours than those giving lower estimates) feeling overworked during hours when other workers are enjoying their time off from work.

These hypotheses for why some groups seem to estimate work time more accurately than others could be supported by follow-up questions that ask respondents if they had to take off any time from work during the "diary day" for personal reasons. Another potential avenue for research would be to identify workers in the ATUS data who have service jobs or other jobs that allow nonwork activities as an official part of the workday and to compare their work hours with workers whose jobs do not allow nonwork activities as part of the workday.

Another approach would involve a panel study design and weekly diaries. Workers would first be asked to estimate their work hours for the upcoming week. They would then be asked to fill out a diary for each of the next 7 days. When the interviewer returns to collect the week's worth of diary entries, the interviewer would ask the respondent to estimate how many hours he or she worked over the previous 7 days and then compare those answers with the hours in the weekly diary. The study would be strengthened by other methods of estimating the workweek, such as the "work grid" described in Chenu and Robinson's article. 17

Ultimately, however, there will be a need to employ more intensive and verifiable methods, presumably employing some method of direct observation. Currently, work activity is something of a "black box," in that researchers must depend on respondents' self-reported accounts of work. When diary respondents say that they were working during a given part of the workday, even if that time was spent purely on socializing or recreation having no relevance to work, it is counted as work time. Thus, some unknown percentage of the reports of "work" in diaries include time spent using the Internet or telephone for personal matters, having water-cooler discussions, daydreaming, and doing dozens of other nonwork activities. Until some form of "beeper" or on-site observation study focused on work hours is conducted, however, the factors behind the gap between respondents' estimates and their diary entries remain open to speculation.

Notes

ACKNOWLEDGMENTS: Special appreciation is given to the National Science Foundation for supporting the survey research that formed the basis for the present study, and to the Maryland Population Research Center for its support via a grant from the National Institutes of Health. The Belgian research was funded by FWO-Flanders.

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- ² Juliet B. Schor, The Overworked American: The Unexpected Decline of Leisure (New York, NY, Basic Books, 1992).
- ³ See http://www.bls.gov/tus (visited May 27, 2011) for more information about the ATUS. In addition, see Katherine G. Abraham, Aaron Maitland, and Suzanne M. Bianchi, "Nonresponse in the American Time Use Survey: Who Is Missing from the Data and How Much Does It Matter?" Public Opinion Quarterly, 2006, vol. 70, no. 5, pp. 676-703. More general reviews of the diary method can be found in William Michelson, Time Use: Expanding Explanation in the Social

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- ⁵ See John P. Robinson and Ann Bostrom, "The overestimated workweek? What time diary measures suggest," Monthly Labor Review, August 1994, pp. 11-23; and John Robinson and Jonathan Gershuny,

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- ¹⁴ More details on the field procedures used in this study can be found in Ignace Glorieux, Joeri Minnen, and Jessie Vandeweyer Technisch verslag bij de tijdsbudgetenquete (Technical report on the time-use survey (Vrije Universiteit Brussel, Brussels, Belgium, 2005); and Ignace Glorieux, S. Koelet and M. Moens, Technisch verslag bij de tijdsbudgetenquete (Vrije Universiteit Brussel, Brussels, Belgium, 2000). Both of these reports are unpublished.
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- ¹⁶ National Sleep Foundation Bedroom Poll: Summary of Findings, http://www.sleepfoundation.org/sites/default/files/bedroompoll/ NSF_Bedroom_Poll_Report.pdf (visited June 22, 2011).
- ¹⁷ Chenu and Robinson, "Synchronicity in the work schedules of working couples."

The "golden years": who gets there and how?

An American dream is that, after a worklife of four or five decades, we will have won a hard-earned retirement, pension (or at least annuity) in hand, ready to enjoy our "golden years." But not as many as we would like actually realize that dream: far too many seniors live entirely on Social Security or on some combination of Social Security and meager savings. Why is this so? In "Financial Literacy and Retirement Planning in the United States," (National Bureau of Economic Research, Working Paper 17108, June 2011), Annamaria Lusardi and Olivia S. Mitchell attribute the situation to a failure to plan for retirement, based on a widespread lack of knowledge of even the rudiments of economics and finances.

The authors rated Americans' financial knowledge through the use of three simple multiple-choice questions. As an example, here is one of them:

1) Suppose you had \$100 in a savings account and the interest rate was 2% per year. After 5 years, how much do you think you would have in the account if you left the money to grow?

> More than \$102 Exactly \$102 Less than \$102 Do not know Refuse to answer

The respondents' answers to the three questions demonstrated that "a discouragingly low number" of Americans could be said to be even minimally financially literate, especially "given the question's simplicity and the fact that respondents did not have to make a calculation but could merely select from a set of

answers" (p. 4). The number of correct answers improved with the age of the respondent, but not by much. Across all age groups, 46 percent got the first two questions (but not the third) right and just 30 percent got all three questions right. Financial literacy was lowest among those under age 35 and those older than 65.

A statistically significant finding is that women were less financially literate than men and were more likely than men to state that they could not answer a question—the latter finding being "indicative of very low levels of knowledge" (p. 6). As might be expected, financial literacy is positively correlated with educational attainment: those without a high school diploma are the least financially literate, and the number of correct answers to the questions rises with the respondent's education level.

Among racial and ethnic groups, Hispanic and African-American respondents were less financially literate than White and Asian-American respondents. The lower financial literacy of Hispanics may be related to their tendency not to hold checking accounts and their avoidance of banks in general. (The direction of the putative causality is uncertain.) The results on racial and ethnic groups support similar findings in the literature.

An interesting finding is that respondents appear to believe that they are more financially literate than they really are: almost 70 percent believe that they are above the median with regard to financial knowledge, a percentage that far exceeds what the questions show about their actual knowledge. The young, however, seem more self-aware than older respondents: those in the youngest age group (age 25–34) rate themselves the lowest of any age group, whereas 27 percent of respondents age 65 and older give themselves the highest possible selfrated score; furthermore, the older respondents' average self-rating is higher than that of any other age group. This misplaced confidence "may explain why older people often are offered less financially attractive deals than other groups" (p. 8).

Finally, respondents were asked whether they "ever tried to figure out how much [they] need to save for retirement" (p. 9). On a discouraging note, just 43 percent answered this question in the affirmative and that merely meant that they had at some time tried to do so, not that they in fact did figure out how much they needed.

To learn whether financial literacy and retirement planning were correlated, the financial literacy of those who planned for retirement was compared with the financial literacy of those who did not so plan. Those who got all three financial literacy questions right were found to be much more likely to have tried to figure out how much they needed to save for retirement. The authors then used a multivariate model to examine the links between financial literacy and retirement planning in detail. Under two distinct measures of financial literacy, an ordinary least squares regression showed a positive, statistically significant coefficient. That is to say, financial literacy is positively linked to planning for retirement. For instance, those who answered all three financial literacy questions correctly were almost 10 percentage points more likely to plan for retirement than those who got at least one question wrong, and those who answered one or more financial literacy questions correctly were 4 percentage points more likely to plan than those who got none right.

Innovation and economic growth

The Past and Future of America's Economy: Long Waves of Innovation that Power Cycles of Growth. By Robert D. Atkinson, Northampton, MA, Edward Elgar Publishing, Inc., 2004, 368 pp., \$140.00/cloth.

I was a little reluctant to accept this book for review given its age; how could something written before the December 2007 beginning of a serious recession still apply today? I am glad I decided to open the book and read a few chapters before I closed my mind. Robert Atkinson takes a far broader view of economic history. He thinks in time spans roughly 10 times as long as the approximately 5 years averaged by post World War II business cycles.

The first half of *The Past and Future* of America's Economy is a very readable and competent survey of the longterm trends of American economic history and their driving technological themes. From about 1840 to about 1890, economic growth was driven by the transformation of the economy from a horse-driven agricultural society into an increasingly urban, steam-powered, "mercantile/ craft" economy. From 1890 to 1940, a steel-framed, producer-oriented "factory-based industrial" economy ran its course. From 1940 to 1990, the economy was marked by "corporate mass production" and its concomitant mass consumption. In the 1990s, the economy morphed into the "entrepreneurial, knowledgebased" model we are riding in today.

All of this comports with my admittedly general knowledge of the broad themes of economic

history, and where Atkinson's narrative brushes areas I have more specialized knowledge of (productivity and other labor statistics, for example) it does not raise any issues. In fact, this narrative by itself is worth the read, not only because it is a well-written summary of a history that seems to get short shrift in economic education, but also because it allows the reader to ask the big questions: What is the driver of growth in an economy? What does that imply for production, consumption, capital, labor, and the whole host of social and economic issues?

Atkinson presents the information technology revolution, globalization, and entrepreneurial dynamism of the era that started in about 1990 as being so fundamentally different from what went before it as to have completely rewritten the old rules. No longer are the big questions those of controlling the business cycle; for example, "Will quantitative easing work?" or "Which tax plan most encourages recovery?" Instead, the big questions are "How do we promote long-term technological innovation and productivity growth?" and "How do we build a more humane economy?" Once again, it seems, the death of the business cycle has been announced prematurely.

To be fair, if I had written this review shortly after Atkinson wrote the book, I would have been in at least weak agreement with this pronouncement. Business cycles were less frequent, shorter, and milder than they had been. Even today, after absorbing the most recent downturn into the averages, recessions are less frequent. They would not seem to be milder and shorter, however. (The average duration of the last three recessions has been about 11

months compared to 10 months for the post-WWII era.)

So, one of the big questions Atkinson was unable to ask was, "What are the new characteristics of the business cycle that we should take into account?" One answer, perhaps a small one, is that recoveries tend to be termed "jobless." In October 2002, an information Web site sought to explain the term "jobless recovery" by pointing out that, rather than hire new employees, many employers instead began purchasing business equipment, implementing productivity improvements, and demanding more hours from their workers. In May 2003, roughly 18 months into the recovery from the 2001 recession, The Economist reported "Of all the signs that America's economy is sputtering, none is more striking than the jobs market."

While this explanation is interesting, a recent report from the San Francisco Fed leads me to discount it somewhat. "In the earlier recoveries [of 1975, 1980, and 1983], employment growth was strong, as was (inflation-adjusted) business investment in equipment and software. In contrast, during the 1990s recovery, employment was essentially flat, while business investment grew only modestly, and during the most recent recovery [of 2001], employment and business investment in equipment and software actually fell."

In sum, Atkinson wrote a book that takes a long view and asks large questions in its first half. The second half attempts large answers but, in hindsight, suffers from the lack of additional data that we enjoy now. My own take is that the "small" questions of the business cycle and its ramifications are still pretty big after all, because most innovation

and growth policies work better in an environment of economic stability. As far as the specific innovation and economic growth solutions Atkinson proposed, my questions ranged from the relatively small, "Is a Department of Homeland Security-model collection of tech-oriented government agencies (such as his

proposed National Innovation Corporation) the right organizational tool for innovation?" to the pretty large "Even given that private profitseeking markets may indeed underinvest in research and development, is a rent-seeking market for government favor any better?"

In a more stable day, those may be

among the questions asked, and certainly this book ought to be among those read.

> —Richard M. Devens Principal Consultant First XV Communications Formerly Executive Editor Monthly Labor Review

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Notes on Current Labor Statistics

This section of the Review presents the principal statistical series collected and calculated by the Bureau of Labor Statistics: series on labor force; employment; unemployment; 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 usually are revised in the March issue of the 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 All-Items 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 \times 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 International 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

n.e.c. = not elsewhere classified.

n.e.s. = not elsewhere specified.

- preliminary. To increase the timeliness of some series, preliminary figures are issued based on representative but incomplete returns.
- revised. Generally, this revision reflects the availability of later data, but also may reflect other adjustments.

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 season-

ally 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 2007 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 service-providing industries, data are collected for nonsupervisory workers, which include most employees except those in executive, managerial, and supervisory posi-

tions. 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 6month 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

With the release of data for January 2010, the CES program introduced its annual revision of national estimates of employment, hours, and earnings from the monthly survey of nonfarm establishments. Each year, the CES survey realigns its sample-based estimates to incorporate universe counts of employment—a process known as benchmarking. Comprehensive counts of employment, or benchmarks, are derived primarily from unemployment insurance (UI) tax reports that nearly all employers are required to file with State Workforce Agencies. With the release in June 2003, CES completed the transition from its original quota sample design to a probability-based sample design. The industry-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 ES-202 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 12th 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 us 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(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 2007, publications presenting data from the Covered Employment and Wages program have

switched to the 2007 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 county-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 the operations 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 information 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 supplemental 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 2007 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 combined 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 paymentin-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 period—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 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 family 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

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 annuallyweighted 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 organization 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 adjusted to 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 definitions 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 and 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 job seekers. 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 Introduction and Appendix B. Country Notes in International Comparisons of Annual Labor Force Statistics, Adjusted to U.S. Concepts, 10 Countries, 1997–2009, on the Internet at www.bls.gov/ilc/flscomparelf.htm, and the Notes for Table 1 in the monthly report International Unemployment Rates and Employment Indexes, Seasonally Adjusted, 2008–2010,

on the Internet at www.bls.gov/ilc/intl_unemployment_rates_monthly.htm.

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 19 countries. These measures are trend comparisons—that is, series that measure changes over time—rather 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, manufacturing 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 the United States, the output measure is a chain-weighted index of real value added produced by the Bureau of Economic Analysis. BLS uses this series here to preserve international comparability. However, for its domestic industry measures, shown in tables 47-50 in this section, BLS uses a different output measures called "sectoral output," which 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, Singapore, and Sweden, compensation is increased to account for important taxes on payroll or employment. For the Czech Republic, Finland, and the United Kingdom, compensation is reduced in certain years 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.

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 more in-depth information on sources and methods, see http:// www.bls.gov/news.release/prod4.toc.htm.

FOR ADDITIONAL INFORMATION on international comparisons, contact the Division of International Labor Comparisons: (202) 691–5654 or ilchelp@bls.gov.

Occupational Injury and Illness Data

(Tables 54-55)

Survey of Occupational Injuries and Illnesses

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 ac-

counts, 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) 691–6175, or the Internet at: www.bls.gov/iif/

1. Labor market indicators

| Selected indicators | 2009 2010 | | 2009 | | | | 2010 | | | | 2011 |
|---|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Selected malcators | 2009 | 2010 | - 1 | II | III | IV | I | II | III | IV | I |
| Employment data | | | | | | | | | | | |
| Employment status of the civilian noninstitutional | | | | | | | | | | | |
| population (household survey):1 | | | | | | | | | | | |
| Labor force participation rate | 65.4 | 64.7 | 65.7 | 65.7 | 65.3 | 64.9 | 64.8 | 64.9 | 64.7 | 64.5 | 64.2 |
| Employment-population ratio | 59.3 | 58.5 | 60.3 | 59.6 | 59.0 | 58.4 | 58.5 | 58.6 | 58.5 | 58.3 | 58.4 |
| Unemployment rate | 9.3 | 9.6 | 8.2 | 9.3 | 9.7 | 10.0 | 9.7 | 9.6 | 9.6 | 9.6 | 8.9 |
| Men | 10.3 | 10.5 | 9.0 | 10.4 | 10.8 | 11.1 | 10.7 | 10.6 | 10.5 | 10.3 | 9.4 |
| 16 to 24 years | 20.1 | 20.8 | 18.1 | 20.0 | 20.7 | 22.0 | 21.5 | 20.9 | 20.7 | 20.2 | 19.0 |
| 25 years and older | 8.8 | 8.9 | 7.6 | 8.9 | 9.4 | 9.5 | 9.0 | 9.0 | 9.0 | 8.8 | 7.9 |
| Women | 8.1 | 8.6 | 7.3 | 8.0 | 8.4 | 8.7 | 8.5 | 8.6 | 8.6 | 8.8 | 8.5 |
| 16 to 24 years | 14.9 | 15.8 | 13.2 | 14.6 | 15.6 | 15.9 | 15.5 | 16.0 | 15.5 | 16.4 | 16.5 |
| 25 years and older | 6.9 | 7.4 | 6.3 | 6.9 | 7.1 | 7.5 | 7.4 | 7.4 | 7.4 | 7.6 | 7.1 |
| Employment, nonfarm (payroll data), in thousands: 1 | | | | | | | | | | | |
| Total nonfarm | 130,807 | 129,818 | 132,041 | 130,493 | 129,726 | 129,320 | 129,438 | 129,981 | 129,844 | 130,260 | 130,784 |
| Total private | 108,252 | 107,337 | 109,473 | 107,936 | 107,221 | 106,835 | 106,916 | 107,258 | 107,570 | 108,008 | 108,594 |
| Goods-producing | 18,557 | 17,755 | 19,233 | 18,417 | 18,026 | 17,765 | 17,701 | 17,763 | 17,784 | 17,797 | 17,953 |
| Manufacturing | 11,847 | 11,524 | 12,213 | 11,728 | 11,579 | 11,456 | 11,471 | 11,548 | 11,545 | 11,565 | 11,677 |
| Service-providing | 112,249 | 112,064 | 112,808 | 112,076 | 111,700 | 111,555 | 111,737 | 112,218 | 112,060 | 112,463 | 112,831 |
| Average hours: | | | | | | | | | | | |
| Total private | 33.1 | 33.4 | 33.1 | 33.0 | 33.0 | 33.2 | 33.3 | 33.4 | 33.5 | 33.5 | 33.6 |
| Manufacturing | 39.8 | 41.1 | 39.3 | 39.6 | 40.0 | 40.6 | 41.0 | 41.0 | 41.3 | 41.3 | 41.5 |
| Overtime | 2.9 | 3.8 | 2.6 | 2.8 | 3.0 | 3.5 | 3.7 | 3.8 | 3.9 | 4.0 | 4.3 |
| Employment Cost Index ^{1, 2, 3} | | | | | | | | | | | |
| Total compensation: | | | | | | | | | | | |
| Civilian nonfarm ⁴ | | | | | _ | | _ | | _ | | _ |
| | 1.4 | 2.0 | .4 | .3 | .5 | .2 | .7 | .4 | .5 | .3 | .7 |
| Private nonfarm | 1.2 | 2.1 | .4 | .3 | .4 | .2 | .8 | .5 | .4 | .3 | .7 |
| Goods-producing ⁵ | 1.0 | 2.3 | .4 | .3 | .2 | .2 | 1.0 | .5 | .6 | .1 | .8 |
| Service-providing ⁵ | 1.3 | 2.0 | .4 | .3 | .4 | .3 | .7 | .4 | .4 | .4 | .7 |
| State and local government | 2.3 | 1.8 | .6 | .4 | 1.0 | .3 | .3 | .2 | 1.0 | .3 | .3 |
| Workers by bargaining status (private nonfarm): | | | | | | | | | | | |
| Union | 2.9 | 3.3 | 1.0 | .6 | .6 | .5 | 1.5 | .8 | .8 | .2 | .7 |
| Nonunion | .9 | 1.8 | .3 | .2 | .3 | .2 | .7 | .5 | .4 | .3 | .8 |

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. based data.

<sup>Quarterly data seasonally adjusted.
Annual changes are December-to-December changes. Quarterly changes are calculated using the last month of each quarter.
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.</sup>

⁴ Excludes Federal and private household workers.

⁵ Goods-producing industries include mining, construction, and manufacturing. Serviceproviding industries include all other private sector industries.

2. Annual and quarterly percent changes in compensation, prices, and productivity

| Selected measures | 2009 | 2010 | | 20 | 09 | | | 20 | 10 | | 2011 |
|---|-------|------|------|------|------|------|-----|------|------|-----|------|
| Selected measures | 2009 | 2010 | I | II | III | IV | I | II | III | IV | I |
| Compensation data ^{1, 2, 3} | | | | | | | | | | | |
| Employment Cost Index—compensation: | | | | | | | | | | | |
| Civilian nonfarm | 1.4 | 2.0 | 0.4 | 0.3 | 0.5 | 0.2 | 0.7 | 0.4 | 0.5 | 0.3 | 0.7 |
| Private nonfarm | 1.2 | 2.1 | .4 | .3 | .4 | .2 | .8 | .5 | .4 | .3 | .7 |
| Employment Cost Index—wages and salaries: | | | | | | | | | | | |
| Civilian nonfarm | 1.5 | 1.6 | .4 | .3 | .5 | .3 | .4 | .4 | .4 | .4 | .4 |
| Private nonfarm | 1.3 | 1.8 | .4 | .3 | .5 | .3 | .5 | .4 | .4 | .4 | .4 |
| Price data ¹ | | | | | | | | | | | |
| Consumer Price Index (All Urban Consumers): All Items | 4 | 1.6 | 1.2 | 1.4 | .1 | .0 | .8 | .2 | .2 | .3 | 2.0 |
| Producer Price Index: | | | | | | | | | | | |
| Finished goods | -2.6 | 4.2 | .2 | 3.1 | 6 | 1.6 | 1.8 | 1 | .6 | 1.4 | 3.7 |
| Finished consumer goods | -3.9 | 5.6 | .3 | 4.3 | 7 | 1.9 | 2.4 | 1 | .7 | 1.8 | 4.8 |
| Capital equipment | 1.9 | .4 | 2 | 2 | 4 | .8 | .0 | 1 | .0 | .5 | .6 |
| Intermediate materials, supplies, and components | -8.4 | 6.3 | -2.1 | 2.8 | 1.2 | 1.1 | 2.6 | 1.2 | .4 | 2.0 | 5.1 |
| Crude materials | -30.4 | 21.1 | -7.2 | 12.3 | -3.5 | 12.7 | 8.8 | -4.2 | 2.7 | 8.5 | 9.1 |
| Productivity data ⁴ | | | | | | | | | | | |
| Output per hour of all persons: | | | | | | | | | | | |
| Business sector | 3.7 | 3.9 | 3.9 | 8.8 | 6.8 | 6.8 | 4.2 | -1.7 | 2.6 | 2.7 | .7 |
| Nonfarm business sector | 3.7 | 3.9 | 3.8 | 8.9 | 6.5 | 6.7 | 4.6 | -1.7 | 2.3 | 2.9 | 1.6 |
| Nonfinancial corporations 5 | 2.0 | 5.7 | -3.8 | 5.0 | 5.3 | 13.8 | 9.7 | .3 | -3.2 | 2.6 | _ |

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

only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.

3. Alternative measures of wage and compensation changes

| | | Quar | erly ch | ange | | | Four qu | arters e | nding— | |
|--|------|------|---------|------|------|-----|---------|----------|--------|------|
| Components | | 20 | 10 | | 2011 | | 20 | 10 | | 2011 |
| | I | II | III | IV | I | I | II | III | IV | I |
| Average hourly compensation: 1 | | | | | | | | | | |
| All persons, business sector | -0.4 | 2.9 | 2.7 | 1.7 | 2.4 | 3.6 | 2.0 | 1.9 | 1.7 | 2.5 |
| All persons, nonfarm business sector | 2 | 3.1 | 2.5 | 1.9 | 2.6 | 3.6 | 2.0 | 1.9 | 1.8 | 2.5 |
| Employment Cost Index—compensation: 2 | | | | | | | | | | |
| Civilian nonfarm ³ | .7 | .4 | .5 | .3 | .7 | 1.7 | 1.9 | 1.9 | 2.0 | 2.0 |
| Private nonfarm | .8 | .5 | .4 | .3 | .7 | 1.6 | 1.9 | 2.0 | 2.1 | 2.0 |
| Union | 1.5 | .8 | .8 | .2 | .7 | 3.4 | 3.6 | 3.7 | 3.3 | 2.5 |
| Nonunion | .7 | .5 | .4 | .3 | .8 | 1.4 | 1.6 | 1.7 | 1.8 | 1.9 |
| State and local government | .3 | .2 | 1.0 | .3 | .3 | 2.0 | 1.7 | 1.8 | 1.8 | 1.8 |
| Employment Cost Index—wages and salaries: ² | | | | | | | | | | |
| Civilian nonfarm ³ | .4 | .4 | .4 | .4 | .4 | 1.5 | 1.6 | 1.5 | 1.6 | 1.6 |
| Private nonfarm | .5 | .4 | .4 | .4 | .4 | 1.5 | 1.6 | 1.6 | 1.8 | 1.6 |
| Union | .5 | .5 | .5 | .2 | .6 | 2.5 | 2.3 | 2.3 | 1.8 | 1.9 |
| Nonunion | .5 | .4 | .4 | .3 | .4 | 1.3 | 1.5 | 1.6 | 1.6 | 1.6 |
| State and local government | .2 | .2 | .6 | .2 | .3 | 1.6 | 1.3 | 1.2 | 1.2 | 1.2 |

Seasonally adjusted. "Quarterly average" is percent change from a quarter ago, at an annual rate.

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.

calculated using the last mount in each quarter. Compensation and 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

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.

² The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard

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 a | average | | | | | 2010 | | | | | <u></u> | 20 | 11 | |
|--|------------------|----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|
| Employment status | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| TOTAL | | | | | | | | | | | | | | | |
| Civilian noninstitutional | | | | | | | | | | | | | | | |
| population ¹ | 235,801 | 237,830 | 237,329 | 237,499 | 237,690 | 237,890 | 238,099 | 238,322 | 238,530 | 238,715 | 238,889 | 238,704 | 238,851 | 239,000 | 239,14 |
| Civilian labor force | 154,142 | 153,889 | 154,520 | 154,237 | 153,684 | 153,628 | 154,117 | 154,124 | 153,960 | 153,950 | 153,690 | 153,186 | 153,246 | 153,406 | 153,42 |
| Participation rate | 65.4 | 64.7 | 65.1 | 64.9 | 64.7 | 64.6 | 64.7 | 64.7 | 64.5 | 64.5 | 64.3 | 64.2 | 64.2 | 64.2 | 64.2 |
| Employed Employment-pop- | 139,877 | 139,064 | 139,382 | 139,353 | 139,092 | 138,991 | 139,267 | 139,378 | 139,084 | 138,909 | 139,206 | 139,323 | 139,573 | 139,864 | 139,67 |
| ulation ratio ² | 59.3 | 58.5 | 58.7 | 58.7 | 58.5 | 58.4 | 58.5 | 58.5 | 58.3 | 58.2 | 58.3 | 58.4 | 58.4 | 58.5 | 58. |
| Unemployed | 14,265 | 14,825 | 15,138 | 14,884 | 14,593 | 14,637 | 14,849 | 14,746 | 14,876 | 15,041 | 14,485 | 13,863 | 13,673 | 13,542 | 13,74 |
| Unemployment rate | 9.3 | 9.6 | 9.8 | 9.6 | 9.5 | 9.5 | 9.6 | 9.6 | 9.7 | 9.8 | 9.4 | 9.0 | 8.9 | 8.8 | 9. |
| Not in the labor force | 81,659 | 83,941 | 82,809 | 83,262 | 84,006 | 84,262 | 83,983 | 84,198 | 84,570 | 84,765 | 85,199 | 85,518 | 85,605 | 85,594 | 85,72 |
| Men, 20 years and over | | | | | | | | | | | | | | | |
| Civilian noninstitutional | | | | | | | | | | | | | | | |
| population 1 | 105,493 | 106,596 | 106,301 | 106,407 | 106,522 | 106,641 | 106,761 | 106,887 | 107,007 | 107,114 | 107,216 | 107,203 | 107,292 | 107,381 | 107,469 |
| Civilian labor force | 78,897 | 78,994 | 79,279 | 79,178 | 79,094 | 78,993 | 79,295 | 79,289 | 79,016 | 78,980 | 78,906 | 78,506 | 78,795 | 78,764 | 78,85 |
| Participation rate | 74.8 | 74.1 | 74.6 | 74.4 | 74.3 | 74.1 | 74.3 | 74.2 | 73.8 | 73.7 | 73.6 | 73.2 | 73.4 | 73.4 | 73.4 |
| Employed | 71,341 | 71,230 | 71,348 | 71,451 | 71,329 | 71,340 | 71,505 | 71,559 | 71,365 | 71,130 | 71,480 | 71,589 | 71,954 | 71,959 | 71,93 |
| Employment-pop- | | | | | | | | | | | | | | | |
| ulation ratio ² | 67.6 7,555 | 66.8 7,763 | 67.1 7,931 | 67.1 | 67.0 7,765 | 66.9 | 67.0 7,789 | 66.9 | 66.7 7,651 | 66.4 7,849 | 66.7 7,426 | 66.8 6,917 | 67.1 6,841 | 67.0 6,805 | 66. 6,91 |
| Unemployed Unemployment rate | 9.6 | 9.8 | 10.0 | 7,728 9.8 | 9.8 | 7,653 9.7 | 9.8 | 7,729 9.7 | 9.7 | 9.9 | 9.4 | 8.8 | 8.7 | 8.6 | 8. |
| Not in the labor force | 26,596 | 27,603 | 27,022 | 27,229 | 27,428 | 27,648 | 27,467 | 27,599 | 27,991 | 28,134 | 28,310 | 28,698 | 28,497 | 28,617 | 28,61 |
| 1101 111 1110 111001 101001111111 | | ,, | , | , | , | | , | , | | | , | | | | |
| Women, 20 years and over | | | | | | | | | | | | | | | |
| Civilian noninstitutional | | | | | | | | | | | | | | | |
| population ¹ | 113,265 | 114,333 | 114,066 | 114,160 | 114,264 | 114,372 | 114,481 | 114,596 | 114,704 | 114,801 | 114,894 | 114,637 | 114,714 | 114,792 | 114,868 |
| Civilian labor force | 68,856 | 68,990 | 69,167 | 69,057 | 68,826 | 68,797 | 68,883 | 69,082 | 69,018 | 69,151 | 69,027 | 68,839 | 68,802 | 68,898 | 68,896 |
| Participation rate | 60.8 | 60.3 | 60.6 | 60.5 | 60.2 | 60.2 | 60.2 | 60.3 | 60.2 | 60.2 | 60.1 | 60.0 | 60.0 | 60.0 | 60.0 |
| Employed | 63,699 | 63,456 | 63,501 | 63,487 | 63,483 | 63,340 | 63,379 | 63,562 | 63,400 | 63,385 | 63,428 | 63,392 | 63,319 | 63,566 | 63,479 |
| Employment-pop- | | | | | | | | | | | | | | | |
| ulation ratio ² | 56.2 5,157 | 55.5 5,534 | 55.7 5,665 | 55.6 5,570 | 55.6 5,343 | 55.4 5,458 | 55.4 | 55.5 5,520 | 55.3 5,618 | 55.2 5,766 | 55.2 5,599 | 55.3 5,447 | 55.2 5,483 | 55.4 5,332 | 55.3 5,417 |
| Unemployed Unemployment rate | 7.5 | 8.0 | 8.2 | 5,570 8.1 | 7.8 | 7.9 | 5,504 8.0 | 8.0 | 8.1 | 8.3 | 8.1 | 5,447 7.9 | 8.0 | 7.7 | 7.9 |
| Not in the labor force | 44,409 | 45,343 | 44,899 | 45,103 | 45,438 | 45,575 | 45,598 | 45,514 | 45,687 | 45,651 | 45,867 | 45,798 | 45,912 | 45,894 | 45,972 |
| | , | | | , | , | | , | | , | , | , | | , | , | |
| Both sexes, 16 to 19 years | | | | | | | | | | | | | | | |
| Civilian noninstitutional | | | | | | | | | | | | | | | |
| population ¹ | 17,043 | 16,901 | 16,962 | 16,932 | 16,904 | 16,877 | 16,857 | 16,839 | 16,819 | 16,800 | 16,780 | 16,863 | 16,845 | 16,827 | 16,809 |
| Civilian labor force | 6,390 | 5,906 | 6,074 | 6,002 | 5,764 | 5,838 | 5,939 | 5,754 | 5,927 | 5,820 | 5,757 | 5,841 | 5,649 | 5,744 | 5,669 |
| Participation rate | 37.5 | 34.9 | 35.8 | 35.4 | 34.1 | 34.6 | 35.2 | 34.2 | 35.2 | 34.6 | 34.3 | 34.6 | 33.5 | 34.1 | 33.7 |
| Employed | 4,837 | 4,378 | 4,533 | 4,416 | 4,279 | 4,312 | 4,383 | 4,256 | 4,319 | 4,393 | 4,298 | 4,341 | 4,300 | 4,339 | 4,255 |
| Employment-pop- | 28.4 | 25.9 | 26.7 | 26.1 | 25.3 | 25.5 | 26.0 | 25.3 | 25.7 | 26.2 | 25.6 | 25.7 | 25.5 | 25.8 | 25.3 |
| ulation ratio ² Unemployed | 1,552 | 1,528 | 1,542 | 1,586 | 25.3 1,485 | 25.5 1,526 | 1,556 | 1,497 | 1,607 | 1,426 | 1,460 | 1,500 | 1,350 | 25.8 1,405 | 1,413 |
| Unemployment rate | 24.3 | 25.9 | 25.4 | 26.4 | 25.8 | 26.1 | 26.2 | 26.0 | 27.1 | 24.5 | 25.4 | 25.7 | 23.9 | 24.5 | 24.9 |
| Not in the labor force | 10,654 | 10,995 | 10,888 | 10,931 | 11,140 | 11,039 | 10,918 | 11,085 | 10,893 | 10,980 | 11,022 | 11,022 | 11,196 | 11,083 | 11,140 |
| | | | | | | | | | | | | | | | |
| White ³ | | | | | | | | | | | | | | | |
| Civilian noninstitutional | | | | | | | | | | | | | | | |
| population ¹ | | 192,075 | 191,749 | 191,856 | 191,979 | 192,109 | 192,245 | 192,391 | 192,527 | 192,641 | 192,749 | 192,516 | 192,601 | 192,688 | 192,771 |
| Civilian labor force | 125,644 | 125,084 | 125,739 | 125,327 | 124,964 | 125,094 | 125,358 | 125,333 | 124,914 | 124,824 | 124,700 | 124,192 | 124,237 | 124,497 | 124,650 |
| Participation rate | 65.8 | 65.1 | 65.6 | 65.3 114,350 | 65.1 | 65.1 | 65.2 | 65.1 114,433 | 64.9 | 64.8 | 64.7 | 64.5 | 64.5 | 64.6 | 64.7 |
| Employed Employment-pop- | . 114,996 | 114,168 | 114,465 | 114,350 | 114,176 | 114,312 | 114,457 | 114,433 | 113,975 | 113,728 | 114,079 | 114,197 | 114,330 | 114,706 | 114,652 |
| ulation ratio ² | 60.2 | 59.4 | 59.7 | 59.6 | 59.5 | 59.5 | 59.5 | 59.5 | 59.2 | 59.0 | 59.2 | 59.3 | 59.4 | 59.5 | 59.5 |
| Unemployed | 10,648 | 10,916 | 11,275 | 10,977 | 10,788 | 10,782 | 10,901 | 10,899 | 10,940 | 11,096 | 10,620 | 9,995 | 9,907 | 9,791 | 9,998 |
| Unemployment rate | 8.5 | 8.7 | 9.0 | 8.8 | 8.6 | 8.6 | 8.7 | 8.7 | 8.8 | 8.9 | 8.5 | 8.0 | 8.0 | 7.9 | 8.0 |
| Not in the labor force | 65,258 | 66,991 | 66,009 | 66,529 | 67,015 | 67,016 | 66,887 | 67,058 | 67,612 | 67,817 | 68,049 | 68,325 | 68,364 | 68,191 | 68,122 |
| Diank au Afria A 3 | | | | | | | | | | | | | | | |
| Black or African American ³ | | | | | | | | | | | | | | | |
| Civilian noninstitutional | 00.5. | 00 | 00 : | 00 | 00 | 00 = : : | 00 | 00 == : | 00 | 00 | | 00 | | | 05.5 |
| population ¹ | 28,241 | 28,708 | 28,624 | 28,653 | 28,685 | 28,718 | 28,755 | 28,794 | 28,831 | 28,865 | 28,896 | 28,947 | 28,976 | 29,005 | 29,035 |
| Civilian labor force | 17,632 | 17,862 | 17,967 | 17,961 | 17,745 | 17,676 | 17,876 | 17,777 | 17,946 | 18,020 | 17,958 | 17,857 | 17,865 | 17,836 | 17,849 |
| Participation rate | . 62.4 15,025 | 62.2 15,010 | 62.8 14,996 | 62.7 15,175 | 61.9 15,020 | 61.5 14,908 | 62.2 14,972 | 61.7 14,920 | 62.2 15,127 | 62.4 15,142 | 62.1 15,119 | 61.7 15,048 | 61.7 15,124 | 61.5 | 61.5 14,966 |
| Employed Employment-pop- | 10,025 | 15,010 | 14,996 | 10,175 | 15,020 | 14,908 | 14,972 | 14,920 | 10,127 | 10,142 | 15,119 | 10,048 | 10,124 | 15,067 | 14,960 |
| ulation ratio ² | 53.2 | 52.3 | 52.4 | 53.0 | 52.4 | 51.9 | 52.1 | 51.8 | 52.5 | 52.5 | 52.3 | 52.0 | 52.2 | 51.9 | 51. |
| Unemployed | 2,606 | 2,852 | 2,971 | 2,785 | 2,725 | 2,767 | 2,904 | 2,857 | 2,818 | 2,878 | 2,839 | 2,809 | 2,741 | 2,769 | 2,88 |
| Unemployment rate | 14.8 | 16.0 | 16.5 | 15.5 | 15.4 | 15.7 | 16.2 | 16.1 | 15.7 | 16.0 | 15.8 | 15.7 | 15.3 | 15.5 | 16. |
| | 10,609 | 10,846 | 10,657 | 10,692 | 10,941 | 11,043 | 10,879 | 11,017 | 10,885 | 10,845 | 10,939 | 11,090 | 11,112 | 11,169 | 11,18 |

4. Continued—Employment status of the population, by sex, age, race, and Hispanic origin, monthly data seasonally adjusted

[Numbers in thousands]

| Employment status | Annual a | average | | | | | 2010 | | | | | | 20 | 11 | |
|----------------------------|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Linployment status | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Hispanic or Latino | | | | | | | | | | | | | | | |
| ethnicity | | | | | | | | | | | | | | | |
| Civilian noninstitutional | | | | | | | | | | | | | | | |
| population ¹ | 32,891 | 33,713 | 33,498 | 33,578 | 33,662 | 33,747 | 33,836 | 33,927 | 34,014 | 34,102 | 34,188 | 34,001 | 34,079 | 34,155 | 34,233 |
| Civilian labor force | | 22,748 | 22,674 | 22,739 | 22,677 | 22,737 | 22,733 | 22,896 | 22,814 | 22,915 | 22,868 | 22,823 | 22,519 | 22,676 | 22,798 |
| Participation rate | 68.0 | 67.5 | 67.7 | 67.7 | 67.4 | 67.4 | 67.2 | 67.5 | 67.1 | 67.2 | 66.9 | 67.1 | 66.1 | 66.4 | 66.6 |
| Employed | 19,647 | 19,906 | 19,854 | 19,913 | 19,867 | 19,980 | 19,991 | 20,042 | 19,936 | 19,899 | 19,906 | 20,099 | 19,912 | 20,105 | 20,110 |
| Employment-pop- | | | | | | | | | | | | | | | |
| ulation ratio ² | 59.7 | 59.0 | 59.3 | 59.3 | 59.0 | 59.2 | 59.1 | 59.1 | 58.6 | 58.4 | 58.2 | 59.1 | 58.4 | 58.9 | 58.7 |
| Unemployed | 0 700 | 2,843 | 2,820 | 2,826 | 2,810 | 2,757 | 2,742 | 2,854 | 2,878 | 3,016 | 2,962 | 2,724 | 2,606 | 2,571 | 2,688 |
| Unemployment rate | 40.4 | 12.5 | 12.4 | 12.4 | 12.4 | 12.1 | 12.1 | 12.5 | 12.6 | 13.2 | 13.0 | 11.9 | 11.6 | 11.3 | 11.8 |
| Not in the labor force | 10,539 | 10,964 | 10,824 | 10,839 | 10,986 | 11,010 | 11,102 | 11,031 | 11,201 | 11,188 | 11,320 | 11,178 | 11,561 | 11,479 | 11,435 |

¹ The population figures are not seasonally adjusted.

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]

| Calcated actomories | Annual | average | | | | | 2010 | | | | | | 20 | 11 | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Selected categories | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Characteristic | | | | | | | | | | | | | | | |
| Employed, 16 years and older | 139,877 | 139,064 | 139,382 | 139,353 | 139,092 | 138,991 | 139,267 | 139,378 | 139,084 | 138,909 | 139,206 | 139,323 | 139,573 | 139,864 | 139,674 |
| Men | 73,670 | 73,359 | 73,526 | 73,603 | 73,385 | 73,466 | 73,600 | 73,594 | 73,470 | 73,337 | 73,600 | 73,800 | 74,122 | 74,108 | 73,973 |
| Women | 66,208 | 65,705 | 65,856 | 65,750 | 65,706 | 65,526 | 65,667 | 65,784 | 65,613 | 65,572 | 65,605 | 65,523 | 65,451 | 65,756 | 65,702 |
| Married men, spouse | | | | | | | | | | | | | | | |
| present | 43,998 | 43,292 | 43,248 | 43,343 | 43,341 | 43,372 | 43,418 | 43,701 | 43,301 | 43,130 | 43,081 | 42,915 | 42,957 | 42,880 | 42,987 |
| Married women, spouse | | | | | | | | | | | | | | | |
| present | 35,207 | 34,582 | 34,592 | 34,231 | 34,359 | 34,345 | 34,271 | 34,469 | 34,553 | 34,543 | 34,612 | 34,571 | 34,496 | 34,236 | 34,062 |
| Persons at work part time ¹ | | | | | | | | | | | | | | | |
| All industries: | | | | | | | | | | | | | | | |
| Part time for economic | | | | | | | | | | | | | | | |
| reasons | 8,913 | 8,874 | 9,146 | 8,776 | 8,631 | 8,533 | 8,883 | 9,506 | 9,100 | 8,960 | 8,931 | 8,407 | 8,340 | 8,433 | 8,600 |
| Slack work or business | | | | | | | | | | | | | | | |
| conditions | 6,648 | 6,174 | 6,247 | 6,141 | 6,172 | 6,164 | 6,357 | 6,732 | 6,174 | 6,025 | 6,011 | 5,771 | 5,630 | 5,595 | 5,689 |
| Could only find part-time | | | | | | | | | | | | | | | |
| work | 1,966 | 2,375 | 2,492 | 2,299 | 2,123 | 2,301 | 2,379 | 2,478 | 2,564 | 2,557 | 2,568 | 2,510 | 2,415 | 2,332 | 2,480 |
| Part time for noneconomic | | | | | | | | | | | | | | | |
| reasons | 18,710 | 18,251 | 18,035 | 17,977 | 17,963 | 18,219 | 18,566 | 18,256 | 18,230 | 18,326 | 18,184 | 17,929 | 18,220 | 18,417 | 18,282 |
| Nonagricultural industries: | | | | | | | | | | | | | | | |
| Part time for economic | | | | | | | | | | | | | | | |
| reasons | 8,791 | 8,744 | 9,048 | 8,630 | 8,482 | 8,384 | 8,752 | 9,380 | 8,991 | 8,822 | 8,789 | 8,242 | 8,248 | 8,265 | 8,475 |
| Slack work or business | | | | | | | | | | | | | | | |
| conditions | 6,556 | 6,087 | 6,186 | 6,038 | 6,080 | 6,051 | 6,276 | 6,649 | 6,108 | 5,941 | 5,911 | 5,661 | 5,558 | 5,504 | 5,581 |
| Could only find part-time | | | | | | | | | | | | | | | |
| work | 1,955 | 2,358 | 2,480 | 2,282 | 2,098 | 2,235 | 2,347 | 2,454 | 2,534 | 2,555 | 2,542 | 2,513 | 2,383 | 2,305 | 2,457 |
| Part time for noneconomic | | | | | | | | | | | | | | | |
| reasons | 18,372 | 17,911 | 17,733 | 17,691 | 17,694 | 17,886 | 18,175 | 17,911 | 17,848 | 17,929 | 17,829 | 17,552 | 17,835 | 17,984 | 17,967 |

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

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

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

6. Selected unemployment indicators, monthly data seasonally adjusted

[Unemployment rates]

| Colored cotonosico | Annual | average | | | | | 2011 | | | | | | 20 | 11 | |
|---|--------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Selected categories | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Characteristic | | | | | | | | | | | | | | | |
| Total, 16 years and older | 9.3 | 9.6 | 9.8 | 9.6 | 9.5 | 9.5 | 9.6 | 9.6 | 9.7 | 9.8 | 9.4 | 9.0 | 8.9 | 8.8 | 9.0 |
| Both sexes, 16 to 19 years | 24.3 | 25.9 | 25.4 | 26.4 | 25.8 | 26.1 | 26.2 | 26.0 | 27.1 | 24.5 | 25.4 | 25.7 | 23.9 | 24.5 | 24.9 |
| Men, 20 years and older | 9.6 | 9.8 | 10.0 | 9.8 | 9.8 | 9.7 | 9.8 | 9.7 | 9.7 | 9.9 | 9.4 | 8.8 | 8.7 | 8.6 | 8.8 |
| Women, 20 years and older | 7.5 | 8.0 | 8.2 | 8.1 | 7.8 | 7.9 | 8.0 | 8.0 | 8.1 | 8.3 | 8.1 | 7.9 | 8.0 | 7.7 | 7.9 |
| White, total ¹ | 8.5 | 8.7 | 9.0 | 8.8 | 8.6 | 8.6 | 8.7 | 8.7 | 8.8 | 8.9 | 8.5 | 8.0 | 8.0 | 7.9 | 8.0 |
| Both sexes, 16 to 19 years | 21.8 | 23.2 | 23.4 | 24.2 | 23.2 | 23.4 | 23.7 | 23.3 | 23.4 | 21.1 | 22.5 | 22.8 | 21.3 | 21.6 | 22.3 |
| Men, 16 to 19 years | 25.2 | 26.3 | 27.2 | 26.6 | 27.1 | 26.2 | 27.0 | 26.8 | 26.0 | 23.3 | 25.7 | 24.4 | 22.5 | 23.3 | 24.8 |
| Women, 16 to 19 years | 18.4 | 20.0 | 19.6 | 21.8 | 19.3 | 20.4 | 20.4 | 19.9 | 20.8 | 18.7 | 19.1 | 21.0 | 20.0 | 19.9 | 19.8 |
| Men, 20 years and older | | 8.9 | 9.3 | 8.8 | 8.9 | 8.8 | 8.9 | 8.9 | 8.9 | 9.1 | 8.5 | 7.9 | 7.8 | 7.7 | 7.9 |
| Women, 20 years and older | 6.8 | 7.2 | 7.3 | 7.3 | 7.1 | 7.1 | 7.1 | 7.2 | 7.3 | 7.5 | 7.3 | 7.0 | 7.1 | 6.9 | 7.0 |
| Black or African American, total 1 | 14.8 | 16.0 | 16.5 | 15.5 | 15.4 | 15.7 | 16.2 | 16.1 | 15.7 | 16.0 | 15.8 | 15.7 | 15.3 | 15.5 | 16.1 |
| Both sexes, 16 to 19 years | 39.5 | 43.0 | 38.3 | 38.5 | 40.4 | 41.3 | 45.7 | 49.2 | 47.7 | 46.3 | 44.2 | 45.4 | 38.4 | 42.1 | 41.6 |
| Men, 16 to 19 years | 46.0 | 45.4 | 37.0 | 36.4 | 43.7 | 44.6 | 51.2 | 48.3 | 51.3 | 49.5 | 42.5 | 47.9 | 41.9 | 40.3 | 45.5 |
| Women, 16 to 19 years | 33.4 | 40.5 | 39.7 | 40.2 | 37.0 | 37.7 | 39.5 | 50.1 | 44.0 | 43.1 | 45.8 | 42.6 | 34.9 | 43.8 | 37.9 |
| Men, 20 years and older | 16.3 | 17.3 | 17.7 | 17.1 | 17.4 | 16.7 | 17.2 | 17.4 | 16.2 | 16.6 | 16.5 | 16.5 | 16.2 | 16.8 | 17.0 |
| Women, 20 years and older | 11.5 | 12.8 | 13.8 | 12.4 | 11.8 | 12.9 | 13.2 | 12.7 | 12.8 | 13.1 | 13.2 | 12.9 | 13.0 | 12.5 | 13.4 |
| Hispanic or Latino ethnicity | 12.1 | 12.5 | 12.4 | 12.4 | 12.4 | 12.1 | 12.1 | 12.5 | 12.6 | 13.2 | 13.0 | 11.9 | 11.6 | 11.3 | 11.8 |
| Married men, spouse present | 6.6 | 6.8 | 6.7 | 6.7 | 6.8 | 6.6 | 6.8 | 6.8 | 6.9 | 6.9 | 6.6 | 5.8 | 5.8 | 5.9 | 6.0 |
| Married women, spouse present | 5.5 | 5.9 | 6.2 | 6.2 | 5.9 | 5.8 | 5.9 | 5.7 | 5.7 | 5.8 | 5.6 | 5.6 | 5.4 | 5.7 | 5.7 |
| Full-time workers | 10.0 | 10.4 | 10.6 | 10.4 | 10.2 | 10.2 | 10.3 | 10.4 | 10.5 | 10.7 | 10.2 | 9.7 | 9.5 | 9.4 | 9.6 |
| Part-time workers | 6.0 | 6.3 | 6.5 | 6.6 | 6.4 | 6.4 | 6.7 | 6.1 | 6.3 | 5.8 | 6.0 | 6.2 | 6.5 | 6.3 | 6.4 |
| Educational attainment ² | | | | | | | | | | | | | | | 1 |
| Less than a high school diploma | 14.6 | 14.9 | 14.7 | 14.9 | 14.1 | 13.9 | 14.2 | 15.4 | 15.3 | 15.7 | 15.3 | 14.2 | 13.9 | 13.7 | 14.6 |
| High school graduates, no college 3 | 9.7 | 10.3 | 10.5 | 10.8 | 10.7 | 10.1 | 10.2 | 10.0 | 10.1 | 10.0 | 9.8 | 9.4 | 9.5 | 9.5 | 9.7 |
| Some college or associate degree | 8.0 | 8.4 | 8.3 | 8.3 | 8.3 | 8.4 | 8.7 | 9.1 | 8.5 | 8.7 | 8.1 | 8.0 | 7.8 | 7.4 | 7.5 |
| Bachelor's degree and higher ⁴ | 4.6 | 4.7 | 4.8 | 4.6 | 4.4 | 4.5 | 4.6 | 4.5 | 4.7 | 5.1 | 4.8 | 4.2 | 4.3 | 4.4 | 4.5 |

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

7. Duration of unemployment, monthly data seasonally adjusted

[Numbers in thousands]

| Weeks of | | | | | 2010 | | | | | | 20 | 11 | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| unemployment | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| | | | | | | | | | | | | | |
| Less than 5 weeks | 2,695 | 2,763 | 2,779 | 2,833 | 2,756 | 2,872 | 2,659 | 2,824 | 2,725 | 2,678 | 2,390 | 2,449 | 2,691 |
| 5 to 14 weeks | 3,000 | 3,060 | 3,138 | 3,098 | 3,604 | 3,329 | 3,427 | 3,336 | 3,184 | 3,016 | 3,094 | 2,914 | 2,907 |
| 15 weeks and over | 8,933 | 8,884 | 8,900 | 8,709 | 8,471 | 8,517 | 8,734 | 8,843 | 8,647 | 8,495 | 8,172 | 8,078 | 7,845 |
| 15 to 26 weeks | 2,274 | 2,174 | 2,209 | 2,171 | 2,210 | 2,364 | 2,500 | 2,515 | 2,205 | 2,285 | 2,179 | 1,957 | 2,006 |
| 27 weeks and over | 6,659 | 6,710 | 6,691 | 6,539 | 6,261 | 6,153 | 6,234 | 6,328 | 6,441 | 6,210 | 5,993 | 6,122 | 5,839 |
| Mean duration, in weeks | 33.1 | 34.3 | 34.8 | 33.9 | 33.5 | 33.4 | 33.9 | 33.9 | 34.2 | 36.9 | 37.1 | 39.0 | 38.3 |
| Median duration, in weeks | 21.6 | 22.8 | 25.5 | 21.7 | 20.6 | 20.5 | 21.3 | 21.7 | 22.4 | 21.8 | 21.2 | 21.7 | 20.7 |

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

² Data refer to persons 25 years and older.

8. Unemployed persons by reason for unemployment, monthly data seasonally adjusted

[Numbers in thousands]

| Reason for | Annual a | average | | | | | 2010 | | | | | | 20 | 11 | |
|-------------------------|----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| unemployment | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Job losers ¹ | 9,160 | 9,250 | 9,237 | 9,194 | 9,097 | 9,090 | 9,285 | 9,286 | 9,070 | 9,471 | 8,923 | 8,519 | 8,334 | 8,209 | 8,144 |
| On temporary layoff | 1,630 | 1,431 | 1,356 | 1,448 | 1,403 | 1,268 | 1,505 | 1,340 | 1,293 | 1,430 | 1,402 | 1,249 | 1,270 | 1,197 | 1,251 |
| Not on temporary layoff | 7,530 | 7,819 | 7,881 | 7,746 | 7,694 | 7,822 | 7,780 | 7,947 | 7,777 | 8,042 | 7,521 | 7,270 | 7,064 | 7,013 | 6,894 |
| Job leavers | 882 | 889 | 933 | 966 | 897 | 896 | 868 | 809 | 854 | 864 | 914 | 910 | 898 | 896 | 942 |
| Reentrants | 3,187 | 3,466 | 3,749 | 3,430 | 3,272 | 3,417 | 3,418 | 3,441 | 3,498 | 3,427 | 3,408 | 3,357 | 3,352 | 3,262 | 3,375 |
| New entrants | 1,035 | 1,220 | 1,217 | 1,192 | 1,147 | 1,197 | 1,260 | 1,193 | 1,278 | 1,269 | 1,311 | 1,351 | 1,337 | 1,360 | 1,346 |
| Percent of unemployed | | | | | | | | | | | | | | | |
| Job losers ¹ | 64.2 | 62.4 | 61.0 | 62.2 | 63.1 | 62.3 | 62.6 | 63.0 | 61.7 | 63.0 | 61.3 | 60.3 | 59.9 | 59.8 | 59.0 |
| On temporary layoff | 11.4 | 9.6 | 9.0 | 9.8 | 9.7 | 8.7 | 10.1 | 9.1 | 8.8 | 9.5 | 9.6 | 8.8 | 9.1 | 8.7 | 9.1 |
| Not on temporary layoff | 52.8 | 52.7 | 52.1 | 52.4 | 53.4 | 53.6 | 52.5 | 54.0 | 52.9 | 53.5 | 51.7 | 51.4 | 50.7 | 51.1 | 49.9 |
| Job leavers | 6.2 | 6.0 | 6.2 | 6.5 | 6.2 | 6.1 | 5.9 | 5.5 | 5.8 | 5.8 | 6.3 | 6.4 | 6.4 | 6.5 | 6.8 |
| Reentrants | 22.3 | 23.4 | 24.8 | 23.2 | 22.7 | 23.4 | 23.0 | 23.4 | 23.8 | 22.8 | 23.4 | 23.7 | 24.1 | 23.8 | 24.4 |
| New entrants | 7.3 | 8.2 | 8.0 | 8.1 | 8.0 | 8.2 | 8.5 | 8.1 | 8.7 | 8.4 | 9.0 | 9.6 | 9.6 | 9.9 | 9.8 |
| Percent of civilian | | | | | | | | | | | | | | | |
| labor force | | | | | | | | | | | | | | | |
| Job losers ¹ | 5.9 | 6.0 | 6.0 | 6.0 | 5.9 | 5.9 | 6.0 | 6.0 | 5.9 | 6.2 | 5.8 | 5.6 | 5.4 | 5.4 | 5.3 |
| Job leavers | .6 | .6 | .6 | .6 | .6 | .6 | .6 | .5 | .6 | .6 | .6 | .6 | .6 | .6 | .6 |
| Reentrants | 2.1 | 2.3 | 2.4 | 2.2 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | 2.2 |
| New entrants | .7 | .8 | .8 | .8 | .7 | .8 | .8 | .8 | .8 | .8 | .9 | .9 | .9 | .9 | .9 |

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 | | | | | 2010 | | | | | | 20 | 11 | |
|---------------------------|--------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Sex and age | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Total, 16 years and older | 9.3 | 9.6 | 9.8 | 9.6 | 9.5 | 9.5 | 9.6 | 9.6 | 9.7 | 9.8 | 9.4 | 9.0 | 8.9 | 8.8 | 9.0 |
| 16 to 24 years | 17.6 | 18.4 | 19.5 | 18.0 | 18.2 | 18.5 | 18.1 | 17.9 | 18.6 | 18.3 | 18.1 | 18.1 | 17.7 | 17.6 | 17.6 |
| 16 to 19 years | 24.3 | 25.9 | 25.4 | 26.4 | 25.8 | 26.1 | 26.2 | 26.0 | 27.1 | 24.5 | 25.4 | 25.7 | 23.9 | 24.5 | 24.9 |
| 16 to 17 years | 25.9 | 29.1 | 29.2 | 29.8 | 29.3 | 30.4 | 31.2 | 30.0 | 30.3 | 24.9 | 27.1 | 27.8 | 28.8 | 29.0 | 31.4 |
| 18 to 19 years | 23.4 | 24.2 | 24.1 | 24.9 | 24.0 | 23.7 | 23.8 | 23.3 | 24.7 | 24.2 | 24.5 | 24.6 | 21.5 | 22.5 | 22.2 |
| 20 to 24 years | 14.7 | 15.5 | 17.1 | 14.6 | 15.3 | 15.6 | 14.9 | 14.9 | 15.3 | 15.9 | 15.3 | 15.2 | 15.4 | 15.0 | 14.9 |
| 25 years and older | 7.9 | 8.2 | 8.3 | 8.3 | 8.2 | 8.1 | 8.3 | 8.3 | 8.2 | 8.4 | 8.1 | 7.6 | 7.6 | 7.4 | 7.6 |
| 25 to 54 years | 8.3 | 8.6 | 8.6 | 8.7 | 8.5 | 8.4 | 8.6 | 8.7 | 8.5 | 8.7 | 8.5 | 7.9 | 7.9 | 7.8 | 8.0 |
| 55 years and older | 6.6 | 7.0 | 7.0 | 7.1 | 6.9 | 6.9 | 7.3 | 7.2 | 7.2 | 7.2 | 6.9 | 6.7 | 6.4 | 6.5 | 6.5 |
| Men, 16 years and older | . 10.3 | 10.5 | 10.7 | 10.4 | 10.5 | 10.4 | 10.5 | 10.4 | 10.4 | 10.5 | 10.1 | 9.5 | 9.3 | 9.3 | 9.4 |
| 16 to 24 years | . 20.1 | 20.8 | 22.4 | 19.4 | 20.9 | 21.1 | 20.6 | 20.3 | 20.1 | 20.5 | 19.9 | 19.0 | 18.9 | 19.0 | 19.2 |
| 16 to 19 years | 27.8 | 28.8 | 29.2 | 28.2 | 29.2 | 29.0 | 29.5 | 29.3 | 29.4 | 26.6 | 27.8 | 27.2 | 25.9 | 26.2 | 28.1 |
| 16 to 17 years | . 28.7 | 31.8 | 32.3 | 32.4 | 33.0 | 32.4 | 32.8 | 33.3 | 33.8 | 28.5 | 29.0 | 29.1 | 28.5 | 28.5 | 32.7 |
| 18 to 19 years | . 27.4 | 27.4 | 27.7 | 26.4 | 27.3 | 26.7 | 27.8 | 26.2 | 26.8 | 25.5 | 27.4 | 26.6 | 24.8 | 25.3 | 26.4 |
| 20 to 24 years | 17.0 | 17.8 | 19.8 | 16.1 | 17.8 | 18.2 | 17.3 | 17.1 | 16.5 | 18.1 | 16.9 | 15.9 | 16.4 | 16.4 | 16.1 |
| 25 years and older | 8.8 | 8.9 | 8.9 | 9.0 | 9.0 | 8.8 | 9.1 | 9.0 | 8.9 | 9.0 | 8.6 | 8.0 | 7.9 | 7.8 | 7.9 |
| 25 to 54 years | 9.2 | 9.3 | 9.3 | 9.4 | 9.4 | 9.1 | 9.2 | 9.3 | 9.1 | 9.3 | 8.9 | 8.3 | 8.1 | 8.0 | 8.2 |
| 55 years and older | 7.0 | 7.7 | 7.5 | 7.6 | 7.6 | 7.8 | 8.5 | 7.9 | 8.3 | 8.0 | 7.2 | 7.1 | 7.1 | 6.8 | 6.9 |
| Women, 16 years and older | 8.1 | 8.6 | 8.7 | 8.8 | 8.3 | 8.5 | 8.6 | 8.6 | 8.8 | 8.9 | 8.7 | 8.5 | 8.5 | 8.3 | 8.4 |
| 16 to 24 years | . 14.9 | 15.8 | 16.3 | 16.4 | 15.3 | 15.7 | 15.4 | 15.4 | 17.0 | 15.9 | 16.1 | 17.1 | 16.3 | 16.1 | 16.0 |
| 16 to 19 years | . 20.7 | 22.8 | 21.5 | 24.7 | 22.2 | 23.2 | 22.9 | 22.8 | 24.8 | 22.3 | 22.8 | 24.0 | 21.8 | 22.7 | 21.8 |
| 16 to 17 years | 23.1 | 26.5 | 26.1 | 27.3 | 25.8 | 28.4 | 29.6 | 26.8 | 27.0 | 21.2 | 25.2 | 26.4 | 29.1 | 29.5 | 30.1 |
| 18 t0 19 years | 19.4 | 20.9 | 20.2 | 23.3 | 20.5 | 20.6 | 19.7 | 20.4 | 22.6 | 22.8 | 21.5 | 22.5 | 17.8 | 19.7 | 17.9 |
| 20 to 24 years | . 12.3 | 13.0 | 14.2 | 13.0 | 12.5 | 12.7 | 12.3 | 12.4 | 13.9 | 13.5 | 13.5 | 14.4 | 14.2 | 13.5 | 13.7 |
| 25 years and older | 6.9 | 7.4 | 7.5 | 7.6 | 7.2 | 7.3 | 7.4 | 7.4 | 7.5 | 7.7 | 7.5 | 7.1 | 7.2 | 7.1 | 7.3 |
| 25 to 54 years | 7.2 | 7.8 | 7.9 | 7.8 | 7.5 | 7.7 | 7.8 | 7.9 | 7.9 | 8.1 | 7.9 | 7.5 | 7.7 | 7.5 | 7.7 |
| 55 years and older1 | 6.0 | 6.2 | 5.7 | 5.9 | 6.5 | 6.9 | 6.9 | 6.4 | 5.9 | 6.2 | 5.8 | 6.3 | 5.7 | 5.8 | 5.4 |

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

| _ | Mar. | Feb. | Mar. | _ | Mar. | Feb. | Mar. |
|----------------------|------|-------------------|-------------------|----------------|------|-------------------|-------------------|
| State | 2010 | 2011 ^p | 2011 ^p | State | 2010 | 2011 ^p | 2011 ^p |
| Alabama | 10.0 | 9.3 | 9.2 | Missouri | 9.6 | 9.4 | 9.1 |
| Alaska | 8.2 | 7.6 | 7.4 | Montana | 7.1 | 7.4 | 7.4 |
| Arizona | 10.1 | 9.6 | 9.5 | Nebraska | 4.9 | 4.3 | 4.2 |
| Arkansas | 7.9 | 7.8 | 7.7 | Nevada | 14.8 | 13.6 | 13.2 |
| California | 12.4 | 12.1 | 12.0 | New Hampshire | 6.4 | 5.4 | 5.2 |
| Colorado | 9.0 | 9.3 | 9.2 | New Jersey | 9.7 | 9.2 | 9.3 |
| Connecticut | 9.2 | 9.0 | 9.1 | New Mexico | 8.2 | 8.7 | 8.1 |
| Delaware | 8.6 | 8.5 | 8.3 | New York | 8.8 | 8.2 | 8.0 |
| District of Columbia | 10.1 | 9.5 | 9.5 | North Carolina | 11.3 | 9.8 | 9.7 |
| Florida | 11.3 | 11.5 | 11.1 | North Dakota | 4.0 | 3.7 | 3.6 |
| Georgia | 10.2 | 10.2 | 10.0 | Ohio | 10.5 | 9.2 | 8.9 |
| Hawaii | 6.8 | 6.3 | 6.3 | Oklahoma | 7.3 | 6.5 | 6.1 |
| Idaho | 9.0 | 9.7 | 9.7 | Oregon | 11.0 | 10.2 | 9.9 |
| Illinois | 11.0 | 8.9 | 8.8 | Pennsylvania | 8.8 | 8.0 | 7.8 |
| Indiana | 10.6 | 8.8 | 8.5 | Rhode Island | 11.8 | 11.2 | 11.0 |
| lowa | 6.1 | 6.0 | 6.1 | South Carolina | 11.5 | 10.2 | 9.9 |
| Kansas | 7.2 | 6.8 | 6.8 | South Dakota | 5.1 | 4.8 | 4.9 |
| Kentucky | 10.8 | 10.4 | 10.2 | Tennessee | 10.2 | 9.5 | 9.5 |
| Louisiana | 7.2 | 7.9 | 8.1 | Texas | 8.2 | 8.2 | 8.1 |
| Maine | 8.3 | 7.5 | 7.6 | Utah | 8.0 | 7.7 | 7.6 |
| Maryland | 7.6 | 7.1 | 6.9 | Vermont | 6.6 | 5.6 | 5.4 |
| Massachusetts | 8.7 | 8.2 | 8.0 | Virginia | 7.1 | 6.4 | 6.2 |
| Michigan | 13.3 | 10.4 | 10.3 | Washington | 9.9 | 9.1 | 9.2 |
| Minnesota | 7.6 | 6.7 | 6.6 | West Virginia | 8.8 | 9.4 | 9.1 |
| Mississippi | 10.8 | 10.2 | 10.2 | Wisconsin | 9.0 | 7.4 | 7.4 |
| | | | | Wyoming | 7.3 | 6.2 | 6.2 |

p = preliminary

11. Employment of workers on nonfarm payrolls by State, seasonally adjusted

| State | Mar. 2010 | Feb. 2011 ^p | Mar. 2011 ^p | State | Mar. 2010 | Feb. 2011 ^p | Mar. 2011 ^p |
|----------------------|--------------|---------------------------|---------------------------|----------------|--------------|---------------------------|---------------------------|
| Alabama | 2,144,821 | 2,123,067 | 2,132,376 | Missouri | 3,027,149 | 3,016,118 | 3,020,793 |
| Alaska | 361.179 | 363.306 | 363,706 | Montana | 497,116 | 498.129 | 499,140 |
| Arizona | 3,180,297 | 3.171.584 | 3,180,281 | Nebraska | 979.462 | 980.758 | 984.262 |
| Arkansas | 1.351.795 | 1,365,408 | 1,369,842 | Nevada | 1.360.911 | 1,315,992 | 1,317,903 |
| California | 18,217,386 | | 18,078,299 | New Hampshire | 745,253 | 744,980 | 744,405 |
| Colorado | 2,704,538 | 2,677,768 | 2,686,491 | New Jersey | 4,527,853 | 4,480,557 | 4,493,450 |
| Connecticut | 1,898,538 | 1,896,761 | 1,898,239 | New Mexico | 951,919 | 955,544 | 951,595 |
| Delaware | 429,217 | 424,056 | 425,145 | New York | 9,677,291 | 9,590,817 | 9,582,634 |
| District of Columbia | 336,432 | 334,289 | 334,366 | North Carolina | 4,561,830 | 4,466,980 | 4,478,418 |
| Florida | 9,195,815 | 9,264,634 | 9,251,792 | North Dakota | 370,108 | 372,110 | 372,746 |
| Georgia | 4,710,792 | 4,678,945 | 4,678,737 | Ohio | 5,910,488 | 5,897,839 | 5,898,117 |
| Hawaii | 629,199 | 631,901 | 633,897 | Oklahoma | 1,761,359 | 1,741,720 | 1,737,697 |
| Idaho | 757,733 | 760,710 | 762,922 | Oregon | 1,983,548 | 1,995,187 | 1,997,417 |
| Illinois | 6,647,391 | 6,614,917 | 6,602,134 | Pennsylvania | 6,362,567 | 6,361,289 | 6,364,005 |
| Indiana | 3,153,309 | 3,117,090 | 3,118,360 | Rhode Island | 575,305 | 573,831 | 571,971 |
| lowa | 1,669,325 | 1,680,579 | 1,683,612 | South Carolina | 2,169,577 | 2,154,838 | 2,152,400 |
| Kansas | 1,505,720 | 1,504,370 | 1,506,029 | South Dakota | 443,668 | 447,545 | 448,601 |
| Kentucky | 2,085,822 | 2,103,176 | 2,110,336 | Tennessee | 3,061,493 | 3,087,053 | 3,103,196 |
| Louisiana | 2,075,803 | 2,082,877 | 2,076,517 | Texas | 12,110,678 | 12,214,178 | 12,232,574 |
| Maine | 698,531 | 698,800 | 698,199 | Utah | 1,378,239 | 1,355,952 | 1,357,155 |
| Maryland | 2,984,969 | 2,973,874 | 2,982,607 | Vermont | 361,274 | 363,660 | 364,483 |
| Massachusetts | 3,493,926 | 3,501,407 | 3,503,277 | Virginia | 4,195,888 | 4,185,858 | 4,193,818 |
| Michigan | 4,818,454 | 4,739,994 | 4,745,277 | Washington | 3,538,832 | 3,508,108 | 3,501,073 |
| Minnesota | 2,966,601 | 2,962,476 | 2,964,800 | West Virginia | 786,662 | 782,636 | 782,720 |
| Mississippi | 1,313,290 | 1,332,139 | 1,336,852 | Wisconsin | 3,081,932 | 3,048,976 | 3,059,572 |
| | | | | Wyoming | 295,737 | 291,167 | 292,096 |

NOTE: Some data in this table may differ from data published elsewhere because of the continual updating of the database.

^p = preliminary

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

| [In thousands] | | , | | | | | | | | | | | | | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Industry | Annual | average | | | | | 2010 | | | | | | 20 | 11 | |
| | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| TOTAL NONFARM | 130,807 | 129,818 | 129,715 | 130,173 | 129,981 | 129,932 | 129,873 | 129,844 | 130,015 | 130,108 | 130,260 | 130,328 | 130,563 | 130,757 | 130,989 |
| TOTAL PRIVATE | 108,252 | 107,337 | 107,145 | 107,193 | 107,258 | 107,351 | 107,461 | 107,570 | 107,713 | 107,841 | 108,008 | 108,102 | 108,363 | 108,582 | 108,833 |
| GOODS-PRODUCING | 18,557 | 17,755 | 17,762 | 17,763 | 17,763 | 17,791 | 17,790 | 17,784 | 17,785 | 17,793 | 17,797 | 17,835 | 17,916 | 17,956 | 17,994 |
| Natural resources and | 00.4 | 705 | 007 | 000 | 704 | 744 | 710 | 705 | 704 | 705 | 704 | 700 | 744 | 750 | 700 |
| mining Logging | 694 50.4 | 705 49.5 | 687 51.0 | 698 50.8 | 704 50.2 | 711 50.5 | 719 50.7 | 725 49.5 | 734 49.1 | 735 47.8 | 734 47.2 | 739 48.1 | 744 48.4 | 759 49.8 | 768 47.8 |
| Mining | 643.3 | 655.9 | 636.2 | 647.3 | 653.5 | 660.1 | 668.3 | 675.0 | 685.0 | 686.8 | 686.7 | 691.0 | 695.1 | 708.9 | 719.8 |
| Oil and gas extraction | 159.8 | 158.9 | 157.8 | 159.0 | 158.1 | 158.2 | 159.8 | 160.9 | 162.5 | 161.2 | 161.6 | 163.4 | 165.0 | 167.2 | 168.7 |
| Mining, except oil and gas 1 | 208.3 81.5 | 202.9 80.6 | 201.3 79.3 | 202.4 80.6 | 202.6 80.5 | 202.9 80.6 | 204.3 81.1 | 205.2 81.8 | 206.1 82.4 | 206.1 82.6 | 205.6 83.2 | 205.1 83.2 | 206.1 83.0 | 208.1 83.9 | 210.9 85.3 |
| Coal mining Support activities for mining | 275.2 | 294.1 | 277.1 | 285.9 | 292.8 | 299.0 | 304.2 | 308.9 | 316.4 | 319.5 | 319.5 | 322.5 | 324.0 | 333.6 | 340.2 |
| Construction | 6,016 | 5,526 | 5,566 | 5,529 | 5,511 | 5,500 | 5,520 | 5,514 | 5,512 | 5,504 | 5,498 | 5,478 | 5,517 | 5,522 | 5,527 |
| Construction of buildings | 1,357.2 851.3 | 1,231.6 828.6 | 1,249.7 | 1,243.3 820.3 | 1,231.2 823.4 | 1,221.8 825.9 | 1,221.5 | 1,223.0 | 1,217.1 | 1,219.0 | 1,222.1 | 1,219.7 | 1,221.4 839.0 | 1,224.2 839.3 | 1,220.0 851.6 |
| Heavy and civil engineering Speciality trade contractors | 3,807.9 | 3,465.5 | 831.6 3,484.7 | 3,465.6 | 3,456.6 | 3,452.4 | 837.3 3,461.1 | 841.4 3,449.4 | 845.1 3,450.1 | 845.7 3,439.7 | 834.2 3,441.2 | 830.5 3,427.8 | 3,456.5 | 3,458.0 | 3,455.8 |
| Manufacturing | 11,847 | 11,524 | 11,509 | 11,536 | 11,548 | 11,580 | 11,551 | 11,545 | 11,539 | 11,554 | 11,565 | 11,618 | 11,655 | 11,675 | 11,699 |
| Production workers | 8,322 | 8,075 | 8,072 | 8,091 | 8,103 | 8,123 | 8,094 | 8,083 | 8,072 | 8,080 | 8,093 | 8,133 | 8,162 | 8,188 | 8,214 |
| Production workers | 7,284 4,990 | 7,067 4,831 | 7,039 4,815 | 7,065 4,833 | 7,079 4,849 | 7,114 4,874 | 7,092 4,851 | 7,095 4,852 | 7,097 4,846 | 7,113 4,854 | 7,126 4,865 | 7,183 4,906 | 7,211 4,929 | 7,232 4,953 | 7,250 4,969 |
| Wood products | 358.7 | 341.1 | 345.1 | 346.2 | 347.4 | 342.8 | 340.0 | 337.7 | 336.0 | 337.7 | 337.4 | 340.9 | 343.1 | 342.7 | 340.2 |
| Nonmetallic mineral products | 394.3 | 372.0 | 372.2 | 374.4 | 373.0 | 371.6 | 370.7 | 372.5 | 371.8 | 370.6 | 367.5 | 369.6 | 371.4 | 372.1 | 371.4 |
| Primary metals | 362.1 1,311.6 | 360.7 1,284.6 | 357.8 1,271.2 | 361.0 1,279.7 | 363.8 1,286.6 | 365.2 1,295.2 | 365.0 1,296.1 | 365.2 1,299.9 | 365.3 1,300.6 | 366.6 1,305.7 | 368.2 1,312.5 | 369.4 1,323.2 | 374.5 1,329.8 | 376.4 1,339.0 | 380.9 1,344.7 |
| Fabricated metal products Machinery | 1,028.6 | 992.9 | 986.8 | 992.0 | 996.1 | 998.2 | 997.6 | 998.4 | 1,000.2 | 1,007.3 | 1,010.2 | 1,018.3 | 1,025.8 | 1,030.8 | 1,036.1 |
| Computer and electronic | | | | | | | | | | | | | | | |
| products ¹ | 1,136.9 | 1,100.1 | 1,094.8 | 1,096.9 | 1,099.5 | 1,101.4 | 1,103.0 | 1,103.0 | 1,102.9 | 1,106.7 | 1,111.1 | 1,115.2 | 1,117.9 | 1,119.6 | 1,123.1 |
| equipment Communications equipment | 166.4 120.5 | 161.6 118.0 | 159.6 116.1 | 159.9 117.3 | 160.6 118.1 | 161.8 118.2 | 162.4 119.2 | 162.2 119.3 | 163.5 120.1 | 164.9 119.6 | 166.1 119.0 | 167.6 119.2 | 169.7 117.8 | 169.5 118.3 | 170.0 119.6 |
| Semiconductors and | | | | | | | | | | | | | | | |
| electronic components | 378.1 | 369.7 | 368.0 | 368.9 | 370.5 | 371.3 | 373.2 | 372.0 | 372.1 | 372.9 | 375.5 | 377.5 | 380.1 | 382.3 | 383.2 |
| Electronic instruments | 421.6 | 406.0 | 405.6 | 405.5 | 405.1 | 405.4 | 404.3 | 405.8 | 403.8 | 405.5 | 406.2 | 406.3 | 405.2 | 404.1 | 404.1 |
| Electrical equipment and appliances | 373.6 | 360.7 | 358.0 | 359.4 | 359.2 | 362.1 | 362.3 | 363.9 | 364.7 | 365.2 | 367.7 | 368.2 | 368.5 | 368.1 | 368.8 |
| Transportation equipment | 1,347.9 | 1,329.9 | 1,326.3 | 1,329.3 | 1,327.3 | 1,353.5 | 1,334.5 | 1,332.5 | 1,333.3 | 1,332.7 | 1,329.8 | 1,351.8 | 1,354.0 | 1,357.1 | 1,360.1 |
| Furniture and related | | | | | | | | | | | | | | | |
| products | 385.7 | 357.4 | 359.5 | 358.8 | 360.1 | 356.8 | 356.9 | 355.7 | 354.5 | 351.4 | 350.3 | 352.2 | 350.6 | 351.1 | 350.3 |
| Miscellaneous manufacturing | 584.4 | 567.6 | 567.3 | 567.1 | 565.9 | 566.7 | 566.0 | 566.3 | 567.5 | 569.5 | 571.2 | 574.2 | 575.5 | 575.0 | 574.2 |
| Nondurable goods Production workers | 4,563 3,332 | 4,457 3,244 | 4,470 3,257 | 4,471 3,258 | 4,469 3,254 | 4,466 3,249 | 4,459 3,243 | 4,450 3,231 | 4,442 3,226 | 4,441 3,226 | 4,439 3,228 | 4,435 3,227 | 4,444 3,233 | 4,443 3,235 | 4,449 3,245 |
| Food manufacturing | 1,456.4 | 1,446.8 | 1,450.8 | 1,451.4 | 1,452.7 | 1,451.4 | 1,449.2 | 1,445.2 | 1,440.3 | 1,442.1 | 1,444.9 | 1,446.9 | 1,452.6 | 1,449.7 | 1,456.0 |
| Beverages and tobacco | | | | | | | | | | | | | | | |
| products | 187.4 | 182.3 | 183.4 | 182.9 | 182.3 | 180.3 | 181.4 | 183.2 | 184.4 | 183.8 | 182.4 | 177.6 | 180.2 | 179.8 | 180.6 |
| Textile mills | 124.4 | 119.3 | 119.7 | 119.5 | 119.8 | 119.8 | 118.8 | 118.8 | 118.8 | 119.0 | 119.8 | 119.9 | 120.8 | 121.4 | 121.9 |
| Textile product mills Apparel | 125.7 167.5 | 118.5 157.7 | 119.5 158.3 | 120.0 157.4 | 119.9 156.5 | 119.9 156.7 | 118.8 155.8 | 118.5 155.0 | 117.1 156.6 | 115.8 157.1 | 116.3 157.6 | 115.6 157.9 | 116.4 156.3 | 116.4 156.2 | 116.2 157.1 |
| Leather and allied products | 29.0 | 27.8 | 26.7 | 27.3 | 27.6 | 27.4 | 28.1 | 28.0 | 28.3 | 28.7 | 28.5 | 28.2 | 29.1 | 29.2 | 29.0 |
| Paper and paper products | 407.0 | 396.8 | 397.6 | 397.7 | 397.5 | 396.5 | 396.7 | 396.8 | 396.6 | 396.2 | 396.8 | 396.5 | 397.4 | 397.5 | 397.9 |
| Printing and related support | | | | | | | | | | | | | | | |
| activities | 521.8 | 486.9 114.0 | 490.4 115.6 | 490.3 114.1 | 489.1 114.4 | 489.1 114.3 | 485.8 114.1 | 483.0 114.0 | 481.3 | 480.9 113.2 | 476.2 113.0 | 476.4 | 474.5 112.6 | 473.5 | 472.4 112.9 |
| Petroleum and coal products Chemicals | 115.3 804.1 | 783.8 | 785.4 | 785.9 | 783.6 | 782.8 | 782.6 | 781.8 | 115.5 779.4 | 777.8 | 777.5 | 111.6 773.9 | 774.9 | 112.7 776.1 | 777.3 |
| Plastics and rubber products | 624.9 | 623.2 | 622.5 | 624.5 | 625.6 | 628.0 | 627.8 | 625.4 | 623.9 | 626.4 | 626.1 | 630.2 | 629.5 | 630.6 | 628.1 |
| SERVICE-PROVIDING | 112,249 | 112,064 | 111,953 | 112,410 | 112,218 | 112,141 | 112,083 | 112,060 | 112,230 | 112,315 | 112,463 | 112,493 | 112,647 | 112,801 | 112,995 |
| PRIVATE SERVICE- | | | | | | | | | | | | | | | |
| PROVIDING | 89,695 | 89,582 | 89,383 | 89,430 | 89,495 | 89,560 | 89,671 | 89,786 | 89,928 | 90,048 | 90,211 | 90,267 | 90,447 | 90,626 | 90,839 |
| Trade, transportation, | | | | | | | | | | | | | | | |
| and utilities | 24,906 | 24,605 | 24,581 | 24,584 | 24,587 | 24,609 | 24,601 | 24,627 | 24,670 | 24,684 | 24,746 | 24,740 | 24,775 | 24,791 | 24,869 |
| Wholesale trade Durable goods | 5,586.6 2,809.9 | 5,456.0 2,719.4 | 5,445.9 2,710.1 | 5,444.6 2.714.8 | 5,450.7 2,712.3 | 5,453.8 2,717.6 | 5,454.5 2.718.5 | 5,456.0 2,722.4 | 5,467.4 2,728.3 | 5,475.7 2,733.7 | 5,479.5 2,736.0 | 5,492.4 2,744.6 | 5,508.2 2,755.9 | 5,522.6 2,764.0 | 5,527.9 2,766.7 |
| Nondurable goods | 1,966.1 | 1,931.6 | 1,934.5 | 1,928.0 | | 1,929.9 | 1,930.5 | 1,928.7 | 1,931.8 | 1,932.7 | 1,935.5 | 1,939.6 | 1,941.7 | 1,945.7 | 1,946.5 |
| Electronic markets and | | | | | | | | | | | | | | | |
| agents and brokers | 810.7 | 805.1 | 801.3 | 801.8 | 808.3 | 806.3 | 805.5 | 804.9 | 807.3 | 809.3 | 808.0 | 808.2 | 810.6 | 812.9 | 814.7 |
| Retail trade | 14,522.4 | 14,413.9 | 14,424.3 | 14,421.0 | 14,408.5 | 14,419.3 | 14,412.6 | 14,430.3 | 14,456.6 | 14,441.0 | 14,447.2 | 14,477.7 | 14,477.8 | 14,472.2 | 14,536.2 |
| Motor vehicles and parts | | | | | | | | | | | | | | | |
| dealers ¹ Automobile dealers | 1,637.5 | 1,624.5 | 1,621.3 1,003.2 | 1,624.4 1,001.6 | 1,619.5 1,002.4 | 1,616.5 1,001.9 | 1,622.9 | 1,627.3 1,007.0 | 1,634.9 1,012.6 | 1,643.1 1,018.7 | 1,648.1 1,021.4 | 1,650.8 1,023.3 | 1,656.2 1,026.9 | 1,659.9 1,030.1 | 1,667.3 |
| | 1,018.2 | 1,006.4 | 1,003.2 | 1,001.6 | 1,002.4 | 1,001.9 | 1,004.5 | 1,007.0 | 1,012.0 | 1,018.7 | 1,021.4 | 1,023.3 | 1,026.9 | 1,030.1 | 1,035.3 |
| Furniture and home furnishings stores | 449.2 | 436.3 | 436.6 | 436.7 | 437.6 | 435.0 | 432.8 | 436.0 | 439.6 | 435.8 | 435.8 | 435.4 | 434.7 | 435.1 | 435.1 |
| | 773.2 | -50.5 | -50.0 | 700.7 | -51.0 | -55.0 | 702.0 | -50.0 | -00.0 | -55.0 | 700.0 | 700.4 | 707.7 | 700.1 | -55.1 |
| Electronics and appliance stores | 491.0 | 497.5 | 492.4 | 494.2 | 493.6 | 494.7 | 497.5 | 500.8 | 506.1 | 508.6 | 503.2 | 500.0 | 496.4 | 496.3 | 501.4 |
| | | 50 | | | | | | | | | | | | 22.0 | |

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

| Industry | Annual | average | | | | | 2010 | | | | | | 20 | 11 | |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| Building material and garden | | | | | | | | | | | | | | | |
| supply stores | 1,155.6 | 1,125.7 | 1,146.5 | 1,139.1 | 1,123.9 | 1,120.8 | 1,118.9 | 1,115.1 | 1,109.9 | 1,112.0 | 1,112.0 | 1,117.3 | 1,115.2 | 1,124.1 | 1,131. |
| Food and beverage stores | 2,830.0 | 2,810.5 | 2,814.2 | 2,811.2 | 2,806.8 | 2,808.4 | 2,811.1 | 2,812.4 | 2,810.6 | 2,810.9 | 2,814.1 | 2,816.1 | 2,818.1 | 2,819.9 | 2,832. |
| Health and personal care | 986.0 | 978.9 | 979.6 | 980.7 | 979.5 | 978.1 | 976.3 | 976.3 | 977.6 | 976.4 | 970.9 | 971.9 | 971.1 | 969.7 | 971. |
| stores | 825.5 | 816.4 | 816.4 | 817.8 | 815.5 | 820.2 | 816.6 | 816.0 | 814.4 | 815.3 | 816.1 | 814.9 | 813.2 | 814.5 | 816. |
| Clothing and clothing | | | | | | | | | | | | | | | |
| accessories stores | 1,363.9 | 1,376.5 | 1,373.9 | 1,372.1 | 1,376.1 | 1,378.2 | 1,377.7 | 1,388.0 | 1,401.1 | 1,404.4 | 1,405.4 | 1,412.1 | 1,417.0 | 1,418.5 | 1,422. |
| Sporting goods, hobby, | | | | | | | | | | | | | | | |
| book, and music stores | 614.0 | 600.5 | 602.7 | 600.0 | 601.0 | 600.6 | 599.0 | 597.8 | 597.4 | 600.4 | 601.5 | 597.6 | 598.3 | 598.9 | 597. |
| General merchandise stores1 Department stores | 2,966.2 1,472.9 | 2,970.6 1,487.6 | 2,959.2 1,486.1 | 2,965.1 1.487.2 | 2,974.3 1,493.0 | 2,987.0 1,497.3 | 2,983.6 1,496.9 | 2,986.1 1,495.8 | 2,988.2 1,495.1 | 2,968.2 1,484.3 | 2,972.8 1,484.2 | 2,987.2 1,498.9 | 2,984.7 1,499.5 | 2,958.0 1,488.4 | 2,984. 1,498. |
| Miscellaneous store retailers | 782.4 | 760.4 | 763.9 | 761.5 | 759.6 | 760.7 | 757.9 | 756.6 | 757.8 | 754.9 | 753.9 | 758.7 | 758.9 | 762.8 | 761. |
| Nonstore retailers | 421.1 | 416.1 | 417.6 | 418.2 | 421.1 | 419.1 | 418.3 | 417.9 | 419.0 | 411.0 | 413.4 | 415.7 | 414.0 | 414.5 | 414. |
| Transportation and | 4 226 4 | 4 400 5 | 4.456.0 | 4 46E 0 | 4 4 7 5 0 | 4 404 0 | 4 4 0 4 4 | 4 400 4 | 4 406 0 | 4 240 2 | 4 260 4 | 4 224 2 | 4 220 2 | 4 246 2 | 4,253. |
| warehousing | 4,236.4 462.8 | 4,183.5 464.2 | 4,156.3 461.9 | 4,165.3 463.4 | 4,175.8 463.7 | 4,184.8 462.6 | 4,184.1 462.8 | 4,192.4 463.4 | 4,196.2 463.7 | 4,218.3 466.9 | 4,268.4 467.7 | 4,221.2 469.3 | 4,238.2 470.5 | 4,246.2 472.6 | 4,253. |
| Rail transportation | 218.2 | 214.9 | 211.8 | 212.2 | 214.4 | 216.0 | 217.1 | 217.6 | 218.4 | 219.0 | 218.5 | 219.1 | 220.1 | 221.5 | 221. |
| Water transportation Truck transportation | 63.4 1,268.2 | 62.8 1,244.1 | 61.9 1,237.5 | 62.8 1,241.2 | 63.1 1,241.9 | 62.8 1,246.7 | 62.8 1,248.4 | 62.8 1,248.5 | 63.5 1,250.2 | 64.2 1,256.0 | 64.7 1,255.9 | 65.1 1,255.2 | 66.2 1,265.2 | 64.6 1,270.7 | 64. 1,274. |
| | 1,200.2 | 1,244.1 | 1,207.0 | 1,241.2 | 1,241.0 | 1,240.7 | 1,240.4 | 1,240.0 | 1,200.2 | 1,200.0 | 1,200.0 | 1,200.2 | 1,200.2 | 1,270.7 | 1,274. |
| Transit and ground passenger transportation | 421.7 | 432.4 | 425.5 | 424.5 | 427.6 | 437.5 | 433.7 | 438.6 | 442.9 | 444.3 | 445.2 | 443.9 | 445.1 | 444.8 | 448. |
| Pipeline transportation | 42.6 | 42.4 | 42.5 | 41.9 | 42.1 | 41.9 | 42.3 | 41.9 | 41.8 | 41.9 | 42.3 | 42.4 | 42.6 | 43.2 | 43. |
| Scenic and sightseeing | | | | | | | | | | | | | | | |
| transportation | 27.6 | 27.3 | 27.6 | 27.7 | 27.8 | 27.6 | 27.5 | 27.6 | 28.1 | 27.1 | 26.7 | 27.1 | 27.2 | 28.0 | 26. |
| Support activities for | 5 40 F | - 40 A | 500 d | | = 40 A | | - 40 O | = 40.0 | = 40.0 | = 40.0 | = 100 | - 10 1 | | 5500 | |
| transportation Couriers and messengers | 548.5 546.3 | 540.1 527.1 | 538.1 521.0 | 541.4 520.4 | 543.4 520.6 | 544.4 518.3 | 543.2 518.9 | 542.3 521.0 | 543.0 516.5 | 540.6 527.3 | 542.0 573.6 | 546.1 524.9 | 550.5 522.2 | 552.3 521.6 | 555. 520. |
| Warehousing and storage | 637.1 | 628.3 | 628.5 | 629.8 | 631.2 | 627.0 | 627.4 | 628.7 | 628.1 | 631.0 | 631.8 | 628.1 | 628.6 | 626.9 | 627.3 |
| Utilities | 560.0 | 551.9 | 554.1 | 553.4 | 551.7 | 550.7 | 550.2 | 548.6 | 549.8 | 549.3 | 551.2 | 548.9 | 550.6 | 550.1 | 551.0 |
| Information | 2,804 | 2,711 | 2,716 | 2,715 | 2,701 | 2,706 | 2,711 | 2,701 | 2,697 | 2,699 | 2,694 | 2,687 | 2,684 | 2,683 | 2,68 |
| Publishing industries, except Internet | 796.4 | 761.0 | 762.4 | 761.9 | 760.5 | 760.5 | 761.3 | 759.4 | 758.9 | 757.2 | 756.9 | 756.2 | 757.7 | 756.1 | 756.8 |
| Motion picture and sound | | | | | | | | | | | | | | | |
| recording industries | 357.6 | 372.0 | 370.2 | 375.7 | 365.8 | 372.8 | 378.2 | 373.3 | 372.0 | 373.4 | 372.6 | 371.1 | 365.2 | 367.5 | 364.5 |
| Broadcasting, except Internet. | 300.5 | 294.5 | 294.6 | 293.6 | 293.6 | 294.8 | 295.7 | 296.1 | 296.0 | 296.3 | 295.7 | 295.8 | 297.1 | 296.1 | 295.8 |
| Internet publishing and | | | | | | | | | | | | | | | |
| broadcasting Telecommunications | 965.7 | 899.7 | 906.5 | 901.0 | 898.3 | 894.1 | 892.0 | 887.7 | 886.2 | 886.0 | 881.8 | 876.8 | 875.9 | 872.4 | 871.0 |
| ISPs, search portals, and | 000.7 | 000 | 000.0 | 001.0 | 000.0 | 00 | 002.0 | 001.11 | 000.2 | 000.0 | 001.0 | 0,0.0 | 0,0.0 | 0.2 | 0, |
| data processing | 248.5 | 242.0 | 243.2 | 242.3 | 241.7 | 241.5 | 240.4 | 240.5 | 240.6 | 240.4 | 241.0 | 239.8 | 239.8 | 240.1 | 239.8 |
| Other information services | 135.0 | 141.5 | 139.5 | 140.5 | 141.0 | 142.5 | 143.0 | 143.5 | 143.3 | 145.3 | 145.7 | 147.0 | 148.3 | 150.7 | 153.9 |
| Financial activities Finance and insurance | 7,769 5,774.9 | 7,630 5,691.3 | 7,648 5,695.7 | 7,640 5,694.4 | 7,628 5,689.4 | 7,618 5,686.7 | 7,616 5,684.0 | 7,616 5,686.7 | 7,617 5,685.6 | 7,616 5,685.3 | 7,617 5,681.5 | 7,607 5,677.0 | 7,606 5,669.8 | 7,611 5,668.5 | 7,609 5,665.5 |
| | 5,774.5 | 3,031.3 | 3,033.7 | 3,034.4 | 3,003.4 | 3,000.7 | 3,004.0 | 3,000.7 | 3,003.0 | 5,005.5 | 3,001.3 | 3,077.0 | 3,003.0 | 3,000.3 | 3,000. |
| Monetary authorities— central bank | 21.0 | 20.8 | 20.6 | 20.7 | 20.6 | 20.7 | 20.6 | 20.7 | 20.8 | 21.1 | 21.2 | 21.1 | 21.0 | 21.1 | 21.0 |
| Credit intermediation and | | | | | | | | | | | | | | | |
| related activities ¹ | 2,590.2 | 2,544.7 | 2,540.3 | 2,542.3 | 2,540.9 | 2,541.8 | 2,542.6 | 2,547.2 | 2,552.0 | 2,552.1 | 2,549.0 | 2,543.9 | 2,539.7 | 2,536.8 | 2,535.9 |
| Depository credit | , | ,- | , | ,- | , | ,- | ,- | ,- | , | , | , | , | , | , | , |
| intermediation ¹ | 1,753.8 | 1,733.4 | 1,729.9 | 1,731.2 | 1,732.2 | 1,732.4 | 1,733.0 | 1,735.8 | 1,738.9 | 1,740.9 | 1,741.9 | 1,743.1 | 1,744.2 | 1,746.3 | 1,749.0 |
| Commercial banking | 1,316.9 | 1,308.4 | 1,305.2 | 1,305.2 | 1,306.0 | 1,307.6 | 1,308.8 | 1,310.8 | 1,313.8 | 1,314.4 | 1,316.4 | 1,315.8 | 1,316.3 | 1,317.6 | 1,320.4 |
| Securities, commodity | | | | | | | | | | | | | | | |
| contracts, investments | 811.3 | 800.9 | 802.0 | 801.5 | 801.8 | 803.0 | 801.2 | 805.5 | 800.3 | 801.2 | 803.1 | 804.7 | 806.7 | 807.4 | 807.9 |
| Insurance carriers and | | | | | | | | | | | | | | | |
| related activities | 2,264.1 | 2,238.0 | 2,245.8 | 2,242.6 | 2,238.8 | 2,233.8 | 2,232.6 | 2,226.6 | 2,225.7 | 2,224.0 | 2,221.7 | 2,220.1 | 2,215.1 | 2,215.9 | 2,213.7 |
| Funds, trusts, and other | 00 / | 86.9 | 87.0 | 87.3 | 07.2 | 97.4 | 97.0 | 96.7 | 96 9 | 86.9 | 86.5 | 97.2 | 072 | 07.2 | 07/ |
| financial vehicles | 88.4 | 00.9 | 67.0 | 07.3 | 87.3 | 87.4 | 87.0 | 86.7 | 86.8 | 00.9 | 00.0 | 87.2 | 87.3 | 87.3 | 87.0 |
| Real estate and rental and leasing | 1,994.0 | 1,938.9 | 1.952.2 | 1,945.9 | 1,938.9 | 1,931.7 | 1,931.5 | 1,928.9 | 1,931.7 | 1,930.6 | 1.935.3 | 1,929.5 | 1,935.7 | 1,942.8 | 1,943.5 |
| Real estate | 1,420.2 | 1,395.5 | 1,406.0 | 1,400.5 | 1,393.2 | 1,387.8 | 1,389.5 | 1,389.8 | 1,391.6 | 1,388.0 | 1,395.0 | 1,390.8 | 1,394.7 | 1,396.2 | 1,400. |
| Rental and leasing services | 547.3 | 518.2 | 520.9 | 520.2 | 520.9 | 519.1 | 517.2 | 514.3 | 514.7 | 517.3 | 515.0 | 513.0 | 515.4 | 520.9 | 517.1 |
| Lessors of nonfinancial | | 0.50 | 05.0 | 05.0 | 0.4.0 | | 0.4.0 | 0.4.0 | 05.4 | 05.0 | 05.0 | 05.7 | 05.0 | 05.7 | |
| intangible assets | 26.5 | 25.2 | 25.3 | 25.2 | 24.8 | 24.8 | 24.8 | 24.8 | 25.4 | 25.3 | 25.3 | 25.7 | 25.6 | 25.7 | 25.7 |
| Professional and business services | 16,579 | 16,688 | 16,615 | 16,640 | 16,683 | 16,681 | 16,711 | 16,719 | 16,759 | 16,844 | 16,902 | 16,953 | 16,991 | 17,066 | 17,110 |
| Professional and technical | 10,579 | 10,008 | 10,013 | 10,040 | 10,003 | 10,001 | 10,711 | 10,719 | 10,759 | 10,044 | 10,902 | 10,903 | 10,991 | 17,000 | 17,110 |
| | 7,508.5 | 7,424.0 | 7,416.2 | 7,407.0 | 7,408.5 | 7,414.8 | 7,430.6 | 7,414.1 | 7,422.9 | 7,455.1 | 7,469.4 | 7,486.6 | 7,507.1 | 7,549.6 | 7,575. |
| services ¹ Legal services | 1,124.9 | 1,113.7 | 1,113.2 | 1,113.1 | 1,109.7 | 1,111.2 | 1,113.8 | 1,115.7 | 1,115.9 | 1,116.1 | 1,113.7 | 1,115.1 | 1,113.5 | 1,112.1 | 1,111. |
| Accounting and bookkeeping | | | | | | | | | | | | | | | |
| | 914.2 | 888.3 | 891.3 | 884.8 | 881.8 | 882.0 | 887.6 | 875.6 | 871.4 | 893.3 | 881.8 | 883.3 | 879.5 | 904.3 | 908.5 |
| services | | | | | | | | | | | | | | | |
| Architectural and engineering services | 1,324.7 | 1,276.7 | 1,278.5 | 1,277.0 | 1,274.0 | 1,275.2 | 1,276.4 | 1,273.7 | 1,272.6 | 1,273.9 | 1,278.5 | 1,280.5 | 1,289.2 | 1,291.3 | 1,295.6 |

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

[In thousands]

| Industry | Annual | average | | | | | 2010 | | | , | | | 20 | 11 | |
|--|---|---|---------------------|---|---|---------------------|---------------------|---|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| industry | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| Computer systems design and related services | . 1,422.6 | 1,441.5 | 1,433.5 | 1,434.8 | 1,436.3 | 1,441.7 | 1,445.9 | 1,447.1 | 1,456.9 | 1,459.6 | 1,464.9 | 1,472.1 | 1,477.6 | 1,485.7 | 1,491.5 |
| Management and technical consulting services | 994.9 | 991.4 | 987.4 | 982.7 | 991.6 | 990.0 | 989.6 | 991.5 | 994.6 | 1,000.3 | 1,008.1 | 1,011.8 | 1,020.4 | 1,022.7 | 1,032.9 |
| Management of companies and enterprises | 1,866.9 | 1,863.0 | 1,859.0 | 1,861.3 | 1,863.9 | 1,862.8 | 1,864.9 | 1,870.6 | 1,869.9 | 1,870.8 | 1,873.3 | 1,871.4 | 1,870.5 | 1,875.8 | 1,877.5 |
| Administrative and waste services | . 7,203.3 | 7.401.0 | 7,339.6 | 7,371.2 | 7,410.9 | 7,403.2 | 7,415.8 | 7,434.6 | 7,466.3 | 7,517.9 | 7,559.6 | 7,594.6 | 7,613.6 | 7,641.0 | 7,662.2 |
| Administrative and support | | , | | | | | | | | | · | | | | |
| services ¹ | 6,851.6 2,480.8 | 7,044.3 2,716.7 | 6,987.8 2,664.8 | 7,014.5 2,696.9 | 7,052.8 2,728.9 | 7,041.9 2,713.8 | 7,054.2 2,719.6 | 7,074.1 | 7,106.6 2,765.8 | 7,159.1 2,808.0 | 7,199.8 2,843.6 | 7,234.7 2,867.1 | 7,252.3 2,881.2 | 7,279.4 2,910.3 | 7,299.8 2,913.3 |
| Employment services ¹ Temporary help services | 1,823.3 | 2,716.7 | 2,004.8 | 2,057.5 | 2,726.9 | 2,713.8 | 2,719.6 | 2,745.7 2,110.1 | 2,765.8 | 2,006.0 | 2,207.2 | 2,206.1 | 2,001.2 | 2,910.3 | 2,913.3 |
| Business support services Services to buildings | 820.0 | 806.4 | 804.3 | 804.1 | 805.1 | 808.5 | 809.1 | 807.6 | 809.2 | 808.8 | 805.2 | 805.4 | 806.1 | 802.3 | 803.5 |
| and dwellings | 1,753.3 | 1,742.5 | 1,741.0 | 1,740.0 | 1,741.1 | 1,744.9 | 1,747.3 | 1,747.2 | 1,747.9 | 1,754.5 | 1,765.0 | 1,770.5 | 1,765.1 | 1,763.3 | 1,768.5 |
| Waste management and | 054.7 | 050.7 | 054.0 | 050.7 | 050.4 | 004.0 | 004.0 | 000 5 | 050.7 | 050.0 | 050.0 | 050.0 | 004.0 | 004.0 | 000.4 |
| remediation services Educational and health | . 351.7 | 356.7 | 351.8 | 356.7 | 358.1 | 361.3 | 361.6 | 360.5 | 359.7 | 358.8 | 359.8 | 359.9 | 361.3 | 361.6 | 362.4 |
| Services Educational services | 19,193 3,090.4 | 19,564 3,149.6 | 19,482 3,135.2 | 19,508 3,138.2 | 19,535 3,147.0 | 19,571 3,154.9 | 19,612 3,160.3 | 19,631 3,145.1 | 19,695 3,170.1 | 19,732 3,176.9 | 19,760 3,179.5 | 19,789 3,190.0 | 19,832 3,205.6 | 19,865 3,203.1 | 19,919 3,215.7 |
| Health care and social assistance | 16,102.7 | 16,414.5 | 16,346.3 | 16,369.7 | 16,388.1 | 16,416.3 | 16,451.2 | 16,485.5 | 16,524.4 | 16,555.3 | 16,580.6 | 16,598.5 | 16,626.1 | 16,662.1 | 16,703.1 |
| Ambulatory health care | | | | | | | | | | | | | | | |
| services ¹ | 5,793.4 | 5,975.8 | 5,942.4 | 5,954.8 | 5,961.8 | 5,980.2 | 5,996.1 | 6,013.5 | 6,033.4 | 6,039.7 | 6,051.3 | 6,056.1 | 6,073.0 | 6,088.5 | 6,108.4 |
| Offices of physicians | . 2,279.1 | 2,315.8 | 2,309.8 | 2,311.6 | 2,312.7 | 2,314.1 | 2,318.8 | 2,322.2 | 2,327.8 | 2,324.5 | 2,330.0 | 2,333.4 | 2,334.4 | 2,343.4 | 2,350.3 |
| Outpatient care centers Home health care services | 557.5 | 599.6 1,080.6 | 597.9 1,073.5 | 597.5 1,074.2 | 598.6 1,074.6 | 600.7 1,082.2 | 603.5 1,084.4 | 604.5 1,091.7 | 607.2 1,096.1 | 607.2 1,099.6 | 611.4 1,102.3 | 611.8 1,105.0 | 614.7 1,113.4 | 615.6 1,112.8 | 617.8 1,115.8 |
| Hospitals | 4,667.4 | 4,685.3 | 4.679.6 | 4,678.5 | 4,682.5 | 4,681.0 | 4,686.5 | 4,690.5 | 4,694.1 | 4,701.5 | 4,708.0 | 4,712.0 | 4,718.8 | 4,728.6 | 4,740.1 |
| Nursing and residential | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ., | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,00110 | 1,00010 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,10110 | ., | ., | 1,1 1010 | ., | ., |
| care facilities 1 | 3,082.2 | 3,129.1 | 3,117.5 | 3,120.8 | 3,125.5 | 3,133.3 | 3,139.0 | 3,140.9 | 3,147.5 | 3,153.6 | 3,163.1 | 3,167.7 | 3,171.0 | 3,175.6 | 3,180.9 |
| Nursing care facilities | 1,644.9 | 1,660.8 | 1,656.4 | 1,657.7 | 1,659.1 | 1,662.6 | 1,663.4 | 1,664.6 | 1,667.0 | 1,674.1 | 1,674.8 | 1,679.4 | 1,677.5 | 1,680.3 | 1,680.7 |
| Social assistance 1 | 2,559.8 | 2,624.3 | 2,606.8 | 2,615.6 | 2,618.3 | 2,621.8 | 2,629.6 | 2,640.6 | 2,649.4 | 2,660.5 | 2,658.2 | 2,662.7 | 2,663.3 | 2,669.4 | 2,673.7 |
| Child day care services | 852.8 | 851.8 | 851.3 | 852.6 | 850.5 | 847.1 | 851.5 | 855.4 | 856.1 | 858.4 | 856.6 | 860.2 | 858.3 | 860.5 | 861.5 |
| Leisure and hospitality | 13,077 | 13,020 | 12,998 | 12,995 | 13,018 | 13,013 | 13,051 | 13,103 | 13,072 | 13,057 | 13,074 | 13,071 | 13,125 | 13,171 | 13,203 |
| Arts, entertainment, and recreation | 1,915.5 | 1,908.6 | 1,908.0 | 1,899.8 | 1,920.9 | 1,924.1 | 1,925.2 | 1,933.3 | 1,899.8 | 1,895.0 | 1,896.4 | 1,886.5 | 1,897.0 | 1,904.7 | 1,904.5 |
| Performing arts and spectator sports | . 396.8 | 410.0 | 404.2 | 411.1 | 412.7 | 419.3 | 423.2 | 429.7 | 404.8 | 410.6 | 410.5 | 406.8 | 413.8 | 415.6 | 409.9 |
| Museums, historical sites, zoos, and parks | 129.4 | 127.3 | 127.6 | 127.0 | 127.6 | 127.8 | 127.0 | 126.8 | 125.9 | 126.6 | 127.2 | 128.0 | 129.5 | 129.7 | 131.0 |
| Amusements, gambling, and recreation | . 1,389.2 | 1,371.3 | 1,376.2 | 1,361.7 | 1,380.6 | 1,377.0 | 1,375.0 | 1,376.8 | 1,369.1 | 1,357.8 | 1,358.7 | 1,351.7 | 1,353.7 | 1,359.4 | 1,363.6 |
| Accommodations and | | | | | | | | | | | | | | | |
| food services | 11,161.9 1,763.0 | 11,110.9 1,759.1 | 11,090.4 1,750.7 | 11,095.3 1,758.3 | 11,097.5 1,768.2 | 11,088.6 1,774.1 | 11,125.3 1,781.4 | 11,169.7 1,772.7 | 11,172.4 1,766.2 | 11,162.0 1,759.3 | 11,177.4 1,763.3 | 11,184.3 1,769.0 | 11,228.2 1,773.1 | 11,266.3 1,783.4 | 11,298.4 1,787.4 |
| Food services and drinking | | | | | | | | | | | | | | | |
| places | 9,398.9 | 9,351.8 | 9,339.7 | 9,337.0 | 9,329.3 | 9,314.5 | 9,343.9 | 9,397.0 | 9,406.2 | 9,402.7 | 9,414.1 | 9,415.3 | 9,455.1 | 9,482.9 | 9,511.0 |
| Other services | 5,367 1,150.4 | 5,364 1,136.8 | 5,343 1,134.7 | 5,348 1,139.0 | 5,343 1,134.3 | 5,362 1,136.5 | 5,369 1,139.6 | 5,389 1,141.2 | 5,418 1,145.2 | 5,416 1,144.7 | 5,418 1,142.3 | 5,420 1,148.5 | 5,434 1,149.8 | 5,439 1,152.2 | 5,441 1,150.2 |
| Personal and laundry services | 1,280.6 | 1,264.8 | 1,265.4 | 1,264.4 | 1,262.8 | 1,260.9 | 1,258.2 | 1,263.3 | | 1,269.9 | 1,271.6 | 1,268.0 | 1,276.0 | 1,278.5 | 1,279.0 |
| Membership associations and organizations | 2,936.0 | 2,962.3 | 2,943.1 | 2,944.2 | 2,946.0 | 2,964.5 | 2,970.8 | 2,984.0 | 3,000.0 | 3,001.4 | 3,004.1 | 3,003.3 | 3,007.8 | 3,008.7 | 3,012.2 |
| Government | 22,555 | 22,482 | 22,570 | 22,980 | 22,723 | 22,581 | 22,412 | 22,274 | 22,302 | 22,267 | 22,252 | 22,226 | 22,200 | 22,175 | 22,156 |
| Federal | 2,832 | 2,968 | 2,985 | 3,413 | 3,184 | 3,041 | 2,927 | 2,850 | 2,847 | 2,844 | 2,853 | 2,850 | 2,853 | 2,854 | 2,850 |
| Federal, except U.S. Postal | | 0.04. | 0.00- | 0 | 0 | 0.00- | 0 | 0.55 | 0 10- | 0.00- | 0.01 | 0.01- | 0 2 | 0.00- | 0.015 |
| ServiceU.S. Postal Service | 2,128.5 703.4 | 2,311.7 656.4 | 2,323.3 662.0 | 2,753.3 659.7 | 2,527.8 656.5 | 2,388.2 652.4 | 2,275.7 651.7 | 2,200.6 648.9 | 2,199.9 646.6 | 2,200.4 643.1 | 2,210.0 643.4 | 2,210.8 639.1 | 2,216.5 636.5 | 2,220.3 633.7 | 2,217.8 632.4 |
| State | 5,169 | 5,142 | 5,138 | 5,135 | 5,134 | 5,154 | 5,132 | 5,138 | 5,146 | 5,144 | 5,140 | 5,136 | 5,121 | 5,119 | 5,113 |
| Education | 2,360.2 | 2,377.1 | 2,364.5 | 2,367.1 | 2,369.5 | 2,393.3 | 2,378.1 | 2,383.7 | 2,393.7 | 2,392.9 | 2,392.6 | 2,396.0 | 2,393.3 | 2,397.2 | 2,397.0 |
| Other State government | 2,808.8 | 2,764.4 | 2,773.7 | 2,768.1 | 2,764.4 | 2,760.8 | 2,754.0 | 2,753.9 | 2,752.2 | 2,751.4 | 2,747.3 | 2,739.6 | 2,728.0 | 2,721.4 | 2,716.1 |
| Local | . 14,554 | 14,372 | 14,447 | 14,432 | 14,405 | 14,386 | 14,353 | 14,286 | 14,309 | 14,279 | 14,259 | 14,240 | 14,226 | 14,202 | 14,193 |
| Education Other local government | 8,078.8 6,474.9 | 8,010.4 6,361.2 | 8,058.1 6,388.5 | 8,052.5 6,379.7 | 8,039.0 6,366.1 | 8,030.1 6,355.6 | 8,004.1 6,349.2 | 7,948.6 6,337.3 | 7,980.0 6,328.6 | 7,961.9 6,316.6 | 7,951.8 6,307.3 | 7,939.3 6,300.8 | 7,932.2 6,293.3 | 7,918.0 6,284.4 | 7,919.2 6,273.4 |
| 5 100a. govorimion | 5, 77 7.3 | 0,001.2 | 0,000.0 | 0,010.1 | 5,500.1 | 5,555.0 | 5,545.2 | 5,507.0 | 5,520.0 | 5,510.0 | 0,007.0 | 5,500.0 | 0,200.0 | 0,207.4 | o, ∟ 70.∓ |

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 workers¹ on private nonfarm payrolls, by industry, monthly data seasonally adjusted

| data seasonally adjusted | Annual | average | | | | | 2010 | | | | | | 20 |)11 | |
|-------------------------------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------------|-------------------|
| Industry | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| TOTAL PRIVATE | . 33.1 | 33.4 | 33.4 | 33.4 | 33.4 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.4 | 33.6 | 33.6 | 33.6 |
| GOODS-PRODUCING | 39.2 | 40.4 | 40.5 | 40.5 | 40.3 | 40.3 | 40.5 | 40.7 | 40.6 | 40.5 | 40.5 | 40.2 | 40.7 | 40.7 | 40.8 |
| Natural resources and mining | 43.2 | 44.6 | 44.7 | 45.3 | 44.7 | 44.7 | 45.5 | 44.6 | 44.6 | 44.7 | 44.9 | 46.2 | 45.9 | 46.0 | 46.7 |
| Construction | 37.6 | 38.4 | 38.8 | 38.1 | 38.3 | 38.2 | 38.6 | 39.0 | 38.9 | 38.7 | 38.6 | 37.6 | 38.7 | 38.6 | 38.8 |
| Manufacturing | | 41.1 | 41.2 | 41.5 | 41.0 | 41.1 | 41.1 | 41.3 | 41.2 | 41.2 | 41.3 | 41.1 | 41.3 | 41.4 | 41.4 |
| Overtime hours | 2.9 | 3.8 | 3.8 | 4.0 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | 4.0 | 4.1 | 4.2 | 4.2 | 4.1 |
| Durable goods Overtime hours | | 41.3 3.8 | 41.4 3.8 | 41.6 3.9 | 41.3 3.8 | 41.4 3.8 | 41.3 3.8 | 41.4 3.9 | 41.4 3.9 | 41.6 4.0 | 41.6 4.1 | 41.5 4.1 | 41.7 4.3 | 41.9 4.4 | 41.7 4.2 |
| Wood products | 37.4 | 39.1 | 39.7 | 39.6 | 38.8 | 38.2 | 38.5 | 39.4 | 39.2 | 39.4 | 39.4 | 39.4 | 39.3 | 40.2 | 39.9 |
| Nonmetallic mineral products | - | 41.7 | 41.7 | 41.7 | 41.6 | 41.6 | 41.6 | 41.7 | 42.2 | 42.0 | 41.9 | 41.3 | 41.9 | 42.4 | 42.2 |
| Primary metals | 40.7 | 43.7 | 43.9 | 44.3 | 43.7 | 43.6 | 43.5 | 43.8 | 44.0 | 44.3 | 44.7 | 44.1 | 44.6 | 44.9 | 45.0 |
| Fabricated metal products | 39.4 | 41.4 | 41.3 | 41.6 | 41.4 | 41.5 | 41.6 | 41.7 | 41.4 | 41.8 | 41.9 | 41.8 | 41.7 | 41.9 | 41.9 |
| Machinery | 40.1 | 42.1 | 41.8 | 42.2 | 42.2 | 42.2 | 42.3 | 42.5 | 42.5 | 42.6 | 42.9 | 43.1 | 43.1 | 43.0 | 42.8 |
| Computer and electronic products | 40.4 | 40.9 | 41.1 | 41.3 | 40.7 | 41.0 | 41.0 | 40.9 | 40.8 | 40.5 | 40.6 | 40.4 | 40.4 | 40.3 | 40.3 |
| Electrical equipment and appliances | 39.3 | 41.1 | 41.5 | 41.4 | 41.7 | 41.5 | 41.6 | 41.1 | 41.5 | 41.2 | 41.1 | 40.9 | 40.4 | 41.2 | 40.7 |
| Transportation equipment | 41.2 | 42.9 | 42.8 | 43.2 | 42.9 | 43.0 | 42.6 | 42.7 | 42.8 | 43.0 | 42.6 | 42.4 | 43.2 | 43.5 | 42.7 |
| Furniture and related products | 37.7 | 38.5 | 38.6 | 38.7 | 38.2 | 38.3 | 38.2 | 38.4 | 38.4 | 39.7 | 39.6 | 39.5 | 39.9 | 40.1 | 40.1 |
| Miscellaneous manufacturing | 38.5 | 38.7 | 38.8 | 39.3 | 38.7 | 38.7 | 38.2 | 38.4 | 38.3 | 38.6 | 38.9 | 38.8 | 39.3 | 38.8 | 38.7 |
| Nondurable goods | 39.8 | 40.8 | 40.9 | 41.2 | 40.5 | 40.7 | 40.9 | 41.0 | 40.9 | 40.6 | 40.7 | 40.5 | 40.8 | 40.7 | 40.9 |
| Overtime hours | 3.2 | 3.8 | 3.9 | 4.1 | 3.8 | 3.7 | 3.9 | 3.9 | 4.0 | 3.9 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 |
| Food manufacturing | 40.0 | 40.7 | 40.8 | 40.9 | 40.5 | 40.7 | 40.8 | 41.2 | 40.8 | 40.3 | 40.2 | 39.9 | 39.9 | 39.8 | 40.3 |
| Beverage and tobacco products | 35.7 | 37.5 | 35.5 | 38.9 | 36.5 | 38.1 | 39.1 | 38.7 | 40.5 | 37.5 | 38.2 | 38.3 | 38.7 | 39.0 | 38.9 |
| Textile mills | 37.7 | 41.3 | 42.6 | 42.3 | 41.2 | 41.3 | 41.7 | 41.6 | 40.4 | 40.1 | 40.9 | 39.0 | 41.6 | 41.2 | 42.0 |
| Textile product mills | 37.9 | 39.0 | 39.2 | 39.1 | 37.9 | 38.3 | 37.9 | 39.0 | 39.4 | 39.4 | 39.2 | 37.9 | 39.1 | 39.2 | 39.2 |
| Apparel | 36.0 | 36.6 | 36.4 | 36.1 | 36.3 | 36.0 | 36.7 | 36.5 | 37.2 | 37.2 | 37.8 | 37.6 | 38.7 | 38.4 | 38.5 |
| Leather and allied products | 33.6 | 39.1 | 38.6 | 38.6 | 38.9 | 39.4 | 39.7 | 39.9 | 39.5 | 40.4 | 40.3 | 41.1 | 40.0 | 39.0 | 39.2 |
| Paper and paper products | 41.8 | 42.9 | 42.8 | 43.2 | 42.6 | 42.9 | 42.9 | 43.0 | 43.0 | 42.7 | 43.2 | 42.6 | 43.5 | 43.7 | 42.8 |
| Printing and related support | | | | | | | | | | | | | | | |
| activities | 38.0 | 38.2 | 38.6 | 38.8 | 38.5 | 38.3 | 38.5 | 38.4 | 38.2 | 37.6 | 37.8 | 37.7 | 38.2 | 37.9 | 38.0 |
| Petroleum and coal products | 43.4 | 43.0 | 43.9 | 43.5 | 42.6 | 42.6 | 43.3 | 43.2 | 44.0 | 43.5 | 42.3 | 42.8 | 42.7 | 42.6 | 43.8 |
| Chemicals | 41.4 | 42.2 | 42.2 | 42.4 | 41.5 | 41.8 | 42.1 41.7 | 42.2 | 42.1 | 42.4 | 42.5 | 42.7 | 42.5 | 42.7 | 43.2 42.0 |
| Plastics and rubber products | 40.2 | 41.9 | 42.5 | 42.8 | 42.0 | 41.7 | 41.7 | 41.6 | 41.6 | 42.0 | 41.9 | 42.0 | 42.0 | 42.0 | 42.0 |
| PRIVATE SERVICE- PROVIDING | . 32.1 | 32.2 | 32.2 | 32.2 | 32.2 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.4 | 32.4 | 32.4 |
| | . 32.1 | 32.2 | 32.2 | 32.2 | 32.2 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.4 | 32.4 | 32.4 |
| Trade, transportation, and | 00.0 | 00.0 | 20.0 | 20.0 | 20.0 | 20.4 | 20.4 | 20.0 | 20.4 | 00.5 | 00.0 | 20.5 | 20.0 | 20.0 | 00 - |
| utilities | | 33.3 | 33.2 | 33.3 | 33.2 | 33.4 | 33.4 | 33.3 | 33.4 | 33.5 | 33.6 | 33.5 | 33.6 | 33.6 | 33.7 |
| Wholesale trade | 37.6 | 37.9 | 37.9 | 38.0 | 37.8 | 38.0 | 38.1 | 38.2 | 38.2 | 38.1 | 38.2 | 38.3 | 38.4 | 38.5 | 38.5 |
| Retail trade | 29.9 | 30.2 | 30.1 | 30.2 | 30.1 | 30.4 | 30.3 | 30.1 | 30.2 | 30.3 | 30.5 | 30.4 | 30.3 | 30.3 | 30.5 |
| Transportation and warehousing | 36.0 | 37.1 | 37.1 | 36.9 | 37.2 | 37.3 | 37.3 | 37.2 | 37.4 | 37.6 | 37.7 | 37.4 | 38.0 | 38.0 | 37.9 |
| Utilities | 42.0 | 42.1 | 41.8 | 42.2 | 42.1 | 42.2 | 42.3 | 42.1 | 42.6 | 42.3 | 42.2 | 42.4 | 42.3 | 42.7 | 42.8 |
| Information | 36.6 36.1 | 36.3 36.1 | 36.4 36.2 | 36.5 36.3 | 36.5 | 36.2 | 36.4 36.4 | 36.1 | 36.3 | 36.4 | 36.1 | 36.3 36.3 | 36.4 | 36.3 36.2 | 36.4 36.2 |
| Financial activities | 30.1 | 30.1 | 30.2 | 30.3 | 36.3 | 36.2 | 30.4 | 36.3 | 36.3 | 36.2 | 36.3 | 30.3 | 36.3 | 30.2 | 30.2 |
| Professional and business | 24.7 | 25.4 | 25.0 | 25.4 | 25.0 | 25.0 | 25.4 | 25.0 | 25.0 | 25.0 | 25.0 | 25.4 | 25.0 | 25.4 | 25.0 |
| services | 34.7 | 35.1 | 35.0 | 35.1 | 35.0 | 35.2 | 35.1 | 35.2 | 35.3 | 35.2 | 35.3 | 35.1 | 35.2 | 35.1 | 35.3 |
| Education and health services | | 32.1 | 32.2 | 32.2 | 32.2 | 32.1 | 32.2 | 32.2 | 32.3 | 32.1 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 |
| Leisure and hospitality | 24.8 | 24.8 | 24.9 | 24.8 | 24.7 | 24.9 | 24.9 | 24.8 | 24.9 | 24.9 | 24.7 | 24.7 | 24.8 | 24.9 | 24.9 |
| Other services | . 30.5 | 30.7 | 30.7 | 30.7 | 30.7 | 30.8 | 30.8 | 30.8 | 30.8 | 30.6 | 30.7 | 30.7 | 30.8 | 30.8 | 30.7 |

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. p = preliminary.

14. Average hourly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls, by industry, monthly data seasonally adjusted

| In death. | Annual | average | | | | | 2010 | | | | | | 20 | 11 | |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|
| Industry | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| TOTAL PRIVATE | | | | | | | | | | | | | | | |
| Current dollars | \$18.63 | \$19.07 | \$18.98 | \$19.03 | \$19.05 | \$19.08 | \$19.13 | \$19.14 | \$19.23 | \$19.24 | \$19.23 | \$19.31 | \$19.32 | \$19.32 | \$19.37 |
| Constant (1982) dollars | 8.89 | 8.91 | 8.89 | 8.93 | 8.97 | 8.94 | 8.94 | 8.93 | 8.94 | 8.94 | 8.89 | 8.88 | 8.83 | 8.78 | 8.76 |
| GOODS-PRODUCING | . 19.90 | 20.28 | 20.18 | 20.21 | 20.24 | 20.26 | 20.33 | 20.33 | 20.41 | 20.45 | 20.49 | 20.55 | 20.57 | 20.59 | 20.59 |
| Natural resources and mining | 23.29 | 23.83 | 23.79 | 23.76 | 23.86 | 23.92 | 23.87 | 24.10 | 23.86 | 24.02 | 24.02 | 24.14 | 24.18 | 24.33 | 23.88 |
| Construction | 22.66 | 23.22 | 23.07 | 23.10 | 23.16 | 23.22 | 23.30 | 23.21 | 23.38 | 23.42 | 23.44 | 23.48 | 23.51 | 23.49 | 23.57 |
| Manufacturing | 18.24 | 18.61 | 18.51 | 18.59 | 18.59 | 18.60 | 18.63 | 18.65 | 18.71 | 18.75 | 18.80 | 18.91 | 18.89 | 18.91 | 18.91 |
| Excluding overtime | 17.59 | 17.78 | 17.69 | 17.74 | 17.77 | 17.78 | 17.81 | 17.81 | 17.86 | 17.88 | 17.93 | 18.01 | 17.98 | 18.00 | 18.02 |
| Durable goods | 19.36 | 19.80 | 19.70 | 19.78 | 19.76 | 19.76 | 19.79 | 19.81 | 19.88 | 19.94 | 20.03 | 20.14 | 20.12 | 20.12 | 20.14 |
| Nondurable goods | 16.56 | 16.80 | 16.74 | 16.81 | 16.81 | 16.84 | 16.88 | 16.89 | 16.92 | 16.91 | 16.91 | 16.99 | 16.98 | 17.01 | 16.99 |
| PRIVATE SERVICE-PRIVATE SERVICE- | | | | | | | | | | | | | | | |
| PROVIDING | . 18.35 | 18.81 | 18.73 | 18.78 | 18.80 | 18.83 | 18.87 | 18.88 | 18.98 | 18.98 | 18.97 | 19.05 | 19.05 | 19.05 | 19.12 |
| Trade,transportation, and | | | | | | | | | | | | | | | |
| utilities | 16.48 | 16.83 | 16.78 | 16.81 | 16.81 | 16.81 | 16.84 | 16.90 | 16.99 | 16.96 | 16.97 | 17.04 | 17.05 | 17.07 | 17.10 |
| Wholesale trade | 20.84 | 21.53 | 21.45 | 21.47 | 21.51 | 21.55 | 21.55 | 21.64 | 21.82 | 21.73 | 21.79 | 21.90 | 21.86 | 21.84 | 21.91 |
| Retail trade | 13.01 | 13.24 | 13.20 | 13.20 | 13.22 | 13.23 | 13.25 | 13.29 | 13.38 | 13.37 | 13.36 | 13.37 | 13.39 | 13.41 | 13.43 |
| Transportation and warehousing | 18.81 | 19.17 | 19.14 | 19.28 | 19.12 | 19.12 | 19.19 | 19.18 | 19.22 | 19.22 | 19.28 | 19.47 | 19.36 | 19.31 | 19.39 |
| Utilities | 29.48 | 30.04 | 29.83 | 30.15 | 30.12 | 30.22 | 30.27 | 30.28 | 30.38 | 30.26 | 30.13 | 30.23 | 30.33 | 30.74 | 31.16 |
| Information | 25.45 | 25.86 | 25.63 | 25.81 | 25.78 | 26.04 | 25.91 | 26.01 | 26.22 | 26.13 | 26.09 | 26.23 | 26.35 | 26.51 | 26.69 |
| Financial activities | 20.85 | 21.49 | 21.43 | 21.43 | 21.47 | 21.54 | 21.57 | 21.45 | 21.68 | 21.69 | 21.63 | 21.74 | 21.62 | 21.71 | 21.81 |
| Professional and business | | | | | | | | | | | | | | | |
| services | 22.35 | 22.78 | 22.69 | 22.76 | 22.78 | 22.85 | 22.93 | 22.94 | 23.00 | 22.96 | 22.84 | 23.02 | 23.03 | 23.00 | 23.11 |
| Education and health | | | | | | | | | | | | | | | |
| services | 19.49 | 20.12 | 19.98 | 20.03 | 20.08 | 20.14 | 20.20 | 20.24 | 20.33 | 20.37 | 20.42 | 20.48 | 20.49 | 20.46 | 20.50 |
| Leisure and hospitality | 11.12 | 11.31 | 11.32 | 11.35 | 11.34 | 11.33 | 11.35 | 11.27 | 11.30 | 11.30 | 11.31 | 11.32 | 11.36 | 11.40 | 11.43 |
| Other services | 16.59 | 17.08 | 17.01 | 17.06 | 17.10 | 17.09 | 17.08 | 17.13 | 17.19 | 17.26 | 17.24 | 17.22 | 17.24 | 17.14 | 17.21 |

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. p = preliminary.

15. Average hourly earnings of production or nonsupervisory workers¹ on private nonfarm payrolls, by industry

| 15. Average nourly earnings of p | 1 | average | | | • | | 2010 | | | . , - | , | | |)11 | |
|---|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|
| Industry | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| TOTAL PRIVATE | . \$18.63 | \$19.07 | \$19.01 | \$19.06 | \$18.92 | \$18.97 | \$19.06 | \$19.14 | \$19.24 | \$19.23 | \$19.24 | \$19.51 | \$19.39 | \$19.32 | \$19.39 |
| Seasonally adjusted | | - | 18.98 | 19.03 | 19.05 | 19.08 | 19.13 | 19.14 | 19.23 | 19.24 | 19.23 | 19.31 | 19.32 | 19.32 | 19.37 |
| GOODS-PRODUCING | 19.90 | 20.28 | 20.14 | 20.19 | 20.20 | 20.33 | 20.39 | 20.45 | 20.51 | 20.48 | 20.50 | 20.48 | 20.46 | 20.48 | 20.54 |
| Natural resources and mining | 23.29 | 23.83 | 23.96 | 23.62 | 23.58 | 23.79 | 23.71 | 24.06 | 23.75 | 23.91 | 24.25 | 24.38 | 24.28 | 24.69 | 23.97 |
| Construction | . 22.66 | 23.22 | 22.97 | 23.03 | 23.01 | 23.24 | 23.38 | 23.34 | 23.55 | 23.47 | 23.48 | 23.39 | 23.42 | 23.37 | 23.47 |
| Manufacturing | 18.24 | 18.61 | 18.52 | 18.57 | 18.54 | 18.56 | 18.57 | 18.74 | 18.70 | 18.74 | 18.86 | 18.97 | 18.93 | 18.89 | 18.90 |
| Durable goods | 19.36 | 19.80 | 19.69 | 19.74 | 19.70 | 19.73 | 19.74 | 19.94 | 19.89 | 19.94 | 20.14 | 20.17 | 20.17 | 20.11 | 20.12 |
| Wood products | | 14.85 | 14.85 | 14.88 | 14.79 | 14.82 | 14.83 | 14.90 | 14.74 | 14.98 | 14.97 | 14.96 | 14.89 | 14.82 | 14.93 |
| Nonmetallic mineral products | | 17.49 | 17.53 | 17.49 | 17.55 | 17.52 | 17.53 | 17.55 | 17.47 | 17.64 | 17.72 | 17.81 | 17.94 | 17.84 | 18.04 |
| Primary metals | | 20.11 | 20.20 | 20.11 | 20.01 | 20.18 | 19.86 | 20.23 | 20.12 | 19.94 | 20.25 | 20.14 | 20.14 | 19.95 | 20.11 |
| Fabricated metal products | | 17.94 | 17.94 | 17.88 | 17.90 | 17.91 | 17.90 | 17.99 | 18.03 | 17.98 | 18.20 | 18.16 | 18.09 | 18.08 | 18.07 |
| Machinery | | 18.96 | 18.77 | 18.86 | 19.01 | 19.04 | 18.99 | 19.01 | 19.08 | 19.26 | 19.36 | 19.49 | 19.38 | 19.38 | 19.40 |
| Computer and electronic products | | 22.79 | 22.57 | 22.89 | 22.55 | 22.76 | 22.93 | 22.88 | 22.75 | 22.97 | 23.31 | 23.54 | 23.42 | 23.23 | 23.37 |
| Electrical equipment and appliances | | 16.87 | 16.60 | 16.63 | 16.69 | 16.81 | 16.78 | 16.93 | 17.15 | 17.07 | 17.53 | 17.81 | 18.15 | 17.99 | 17.92 |
| Transportation equipment | | 25.22 | 25.06 | 25.10 | 25.06 | 25.12 | 25.04 | 25.65 | 25.50 | 25.43 | 25.60 | 25.42 | 25.45 | 25.48 | 25.51 |
| Furniture and related products | . 15.04 | 15.05 | 14.96 | 15.08 | 15.00 | 14.98 | 15.09 | 15.26 | 15.10 | 15.16 | 15.10 | 15.14 | 15.11 | 15.22 | 15.26 |
| Miscellaneous manufacturing | . 16.13 | 16.55 | 16.40 | 16.44 | 16.46 | 16.49 | 16.60 | 16.63 | 16.76 | 16.81 | 16.96 | 17.08 | 17.00 | 16.91 | 16.88 |
| Nondurable goods | . 16.56 | 16.80 | 16.74 | 16.80 | 16.78 | 16.80 | 16.83 | 16.95 | 16.89 | 16.90 | 16.88 | 17.08 | 16.97 | 16.97 | 16.99 |
| Food manufacturing | . 14.39 | 14.40 | 14.36 | 14.39 | 14.43 | 14.41 | 14.33 | 14.42 | 14.42 | 14.49 | 14.51 | 14.62 | 14.53 | 14.52 | 14.58 |
| Beverages and tobacco products | 20.49 | 21.78 | 22.29 | 22.45 | 22.20 | 21.41 | 21.85 | 21.69 | 20.88 | 21.46 | 21.03 | 20.79 | 20.77 | 20.58 | 20.32 |
| Textile mills | . 13.71 | 13.55 | 13.40 | 13.32 | 13.46 | 13.63 | 13.67 | 13.77 | 13.48 | 13.64 | 13.66 | 14.08 | 14.09 | 13.94 | 13.91 |
| Textile product mills | | 11.80 | 11.78 | 11.94 | 11.66 | 11.84 | 11.72 | 11.76 | 11.77 | 12.01 | 11.83 | 11.74 | 12.08 | 12.20 | 12.37 |
| Apparel | | 11.43 | 11.30 | 11.30 | 11.42 | 11.47 | 11.38 | 11.61 | 11.65 | 11.65 | 11.47 | 12.06 | 11.90 | 11.72 | 11.64 |
| Leather and allied products | | 13.03 | 13.24 | 12.90 | 13.12 | 12.74 | 12.58 | 12.69 | 12.84 | 13.20 | 12.96 | 13.03 | 13.05 | 13.35 | 13.28 |
| Paper and paper products | | 20.03 | 20.28 | 20.24 | 20.19 | 20.24 | 20.05 | 20.31 | 20.00 | 19.95 | 20.13 | 20.25 | 20.10 | 19.95 | 20.13 |
| Printing and related support activities | | 16.92 | 16.76 | 16.86 | 16.71 | 16.69 | 16.76 | 17.07 | 17.06 | 17.01 | 16.98 | 17.29 | 17.31 | 17.25 | 17.17 |
| Petroleum and coal products | | 31.34 | 31.40 | 31.34 | 30.56 | 30.61 | 31.43 | 31.46 | 31.50 | 31.72 | 32.01 | 32.15 | 32.24 | 31.88 | 31.89 |
| • | | | | | | | | | | | | | | | |
| Chemicals | | 21.08 | 20.71 | 20.92 | 21.04 | 21.04 | 21.69 | 21.80 | 21.53 | 21.22 | 21.22 | 21.42 | 21.13 | 21.38 | 21.22 |
| Plastics and rubber products | 16.01 | 15.71 | 15.60 | 15.64 | 15.60 | 15.81 | 15.60 | 15.69 | 15.70 | 15.80 | 15.89 | 16.10 | 15.94 | 15.85 | 15.88 |
| PRIVATE SERVICE- | | | | | | | | | | | | | | | |
| PROVIDING | 18.35 | 18.81 | 18.77 | 18.82 | 18.64 | 18.68 | 18.78 | 18.86 | 18.97 | 18.97 | 18.97 | 19.31 | 19.17 | 19.08 | 19.15 |
| Trade, transportation, and | | | | | | | | | | | | | | | |
| utilities | . 16.48 | 16.83 | 16.82 | 16.84 | 16.75 | 16.75 | 16.83 | 16.95 | 16.99 | 16.89 | 16.81 | 17.17 | 17.13 | 17.05 | 17.15 |
| Wholesale trade | 20.84 | 21.53 | 21.46 | 21.45 | 21.33 | 21.47 | 21.49 | 21.58 | 21.77 | 21.74 | 21.86 | 22.07 | 21.95 | 21.67 | 21.89 |
| Retail trade | . 13.01 | 13.24 | 13.25 | 13.23 | 13.19 | 13.21 | 13.25 | 13.39 | 13.36 | 13.27 | 13.20 | 13.47 | 13.42 | 13.42 | 13.50 |
| Transportation and warehousing | | 19.17 | 19.12 | 19.23 | 19.11 | 19.14 | 19.25 | 19.16 | 19.21 | 19.23 | 19.19 | 19.54 | 19.44 | 19.28 | 19.35 |
| Utilities | | 30.04 | 29.86 | 30.23 | 29.90 | 29.96 | 30.05 | 30.36 | 30.48 | 30.37 | 30.19 | 30.17 | 29.92 | 30.83 | 31.28 |
| Information | | 25.86 | 25.55 | 25.94 | 25.56 | 25.97 | 25.95 | 26.11 | 26.37 | 26.13 | 25.98 | 26.51 | 26.33 | 26.37 | 26.65 |
| Financial activities | | 21.49 | 21.46 | 21.58 | 21.33 | 21.42 | 21.60 | 21.45 | 21.67 | 21.65 | 21.60 | 21.92 | 21.61 | 21.72 | 21.84 |
| Professional and business | | | | | | | | | | | | | | | |
| services | . 22.35 | 22.78 | 22.69 | 22.91 | 22.55 | 22.68 | 22.89 | 22.78 | 22.82 | 22.87 | 22.87 | 23.50 | 23.23 | 23.00 | 23.09 |
| Education and health | | | | | | | | | | | | | | | |
| services | . 19.49 | 20.12 | 20.03 | 19.99 | 20.02 | 20.18 | 20.15 | 20.25 | 20.34 | 20.35 | 20.46 | 20.53 | 20.48 | 20.46 | 20.51 |
| Leisure and hospitality | . 11.12 | 11.31 | 11.32 | 11.34 | 11.26 | 11.20 | 11.24 | 11.26 | 11.33 | 11.34 | 11.43 | 11.39 | 11.46 | 11.42 | 11.43 |
| Other services | . 16.59 | 17.08 | 17.09 | 17.15 | 17.08 | 16.95 | 16.98 | 17.12 | 17.13 | 17.23 | 17.24 | 17.31 | 17.23 | 17.22 | 17.25 |

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 workers¹ on private nonfarm payrolls, by industry

| Industry | Annual | average | | | | | 2010 | | | | | | 20 | 11 | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| moustry | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| TOTAL PRIVATE | \$617.18 | \$636.91 | \$633.03 | \$642.32 | \$631.93 | \$637.39 | \$648.04 | \$639.28 | \$646.46 | \$644.21 | \$644.54 | \$649.68 | \$643.75 | \$643.36 | \$649.5 |
| Seasonally adjusted | - | - | 633.93 | 635.60 | 636.27 | 639.18 | 640.86 | 641.19 | 644.21 | 644.54 | 644.21 | 644.95 | 649.15 | 649.15 | 650.8 |
| | | | | | | | | | | | | | | | |
| GOODS-PRODUCING | 779.68 | 819.18 | 813.66 | 819.71 | 820.12 | 823.37 | 835.99 | 828.23 | 840.91 | 835.58 | 836.40 | 813.06 | 818.40 | 829.44 | 835.9 |
| Natural resources | | | | | | | | | | | | | | | |
| and mining | 1006.67 | 1063.28 | 1056.64 | 1067.62 | 1065.82 | 1061.03 | 1102.52 | 1065.86 | 1071.13 | 1075.95 | 1083.98 | 1114.17 | 1095.03 | 1120.93 | 1117.0 |
| CONSTRUCTION | 851.76 | 891.85 | 891.24 | 884.35 | 895.09 | 911.01 | 928.19 | 898.59 | 932.58 | 910.64 | 899.28 | 853.74 | 871.22 | 890.40 | 910.6 |
| Manufacturing | 726.12 | 765.08 | 761.17 | 768.80 | 761.99 | 757.25 | 766.94 | 773.96 | 776.05 | 779.58 | 788.35 | 772.08 | 774.24 | 780.16 | 780.5 |
| - | | | | | | | | | | | | | | | |
| Durable goods | 771.39 | 818.75 | 813.20 | 821.18 | 817.55 | 810.90 | 819.21 | 823.52 | 829.41 | 837.48 | 847.89 | 828.99 | 833.02 | 840.60 | 839.0 |
| Wood products | 557.74 | 580.39 | 586.58 | 601.15 | 587.16 | 573.53 | 579.85 | 579.61 | 582.23 | 593.21 | 588.32 | 574.46 | 570.29 | 588.35 | 595.7 |
| Nonmetallic mineral products | 705.54 817.67 | 728.96 879.35 | 732.75 884.76 | 731.08 886.85 | 738.86 878.44 | 749.86 865.72 | 753.79 861.92 | 745.88 877.98 | 752.96 885.28 | 753.23 893.31 | 737.15 919.35 | 705.28 888.17 | 719.39 892.20 | 738.58 899.75 | 761.2 906.9 |
| Primary metals Fabricated metal products | 689.06 | 742.82 | 740.92 | 743.81 | 741.06 | 739.68 | 750.01 | 746.59 | 751.85 | 758.76 | 773.50 | 751.82 | 745.31 | 755.74 | 758.9 |
| Machinery | 737.97 | 797.56 | 786.46 | 792.12 | 800.32 | 792.06 | 795.68 | 798.42 | 814.72 | 828.18 | 844.10 | 843.92 | 837.22 | 835.28 | 832.2 |
| · · | 707.07 | 707.00 | 700.10 | . 02.12 | 000.02 | .02.00 | 700.00 | | 02 | 020.10 | 011.10 | 0.0.02 | 007.22 | 000.20 | 002.2 |
| Computer and electronic | | | | | | | | | | | | | | | |
| products | 883.02 | 932.33 | 920.86 | 940.78 | 922.30 | 926.33 | 937.84 | 928.93 | 930.48 | 946.36 | 953.38 | 946.31 | 939.14 | 936.17 | 934.8 |
| Electrical equipment and | | | | | | | | | | | | | | | |
| appliances | 639.34 | 693.52 | 692.22 | 685.16 | 699.31 | 687.53 | 696.37 | 685.67 | 715.16 | 711.82 | 725.74 | 726.65 | 722.37 | 737.59 | 731.1 |
| Transportation equipment | 1028.37 | 1081.28 | 1070.06 | 1084.32 | 1080.09 | 1057.55 | 1076.72 | 1102.95 | 1099.05 | 1101.12 | 1116.16 | 1067.64 | 1099.44 | 1108.38 | 1089.2 |
| Furniture and related | | | | | | | | | | | | | | | |
| products | 566.66 | 579.55 | 574.46 | 585.10 | 580.50 | 578.23 | 582.47 | 581.41 | 579.84 | 601.85 | 608.53 | 584.40 | 593.82 | 614.89 | 608.8 |
| | 300.00 | 37 3.33 | 374.40 | 303.10 | 300.30 | 370.23 | 302.47 | 301.41 | 373.04 | 001.00 | 000.55 | 304.40 | 333.02 | 014.03 | 000.0 |
| Miscellaneous | | | | | | | | | | | | | | | |
| manufacturing | 620.74 | 640.57 | 637.96 | 646.09 | 637.00 | 638.16 | 640.76 | 636.93 | 645.26 | 650.55 | 663.14 | 659.29 | 664.70 | 657.80 | 654.9 |
| Nondurable goods | 658.68 | 685.16 | 681.32 | 690.48 | 681.27 | 680.40 | 690.03 | 700.04 | 694.18 | 692.90 | 695.46 | 686.62 | 683.89 | 687.29 | 691.4 |
| Food manufacturing | 575.51 | 585.83 | 577.27 | 588.55 | 584.42 | 583.61 | 587.53 | 602.76 | 594.10 | 589.74 | 589.11 | 577.49 | 569.58 | 572.09 | 578.8 |
| Beverages and tobacco | | | | | | | | | | | | | | | |
| - | 704.07 | 040.40 | 702.50 | 000.00 | 044.74 | 045.70 | 074.00 | 050.40 | 040.55 | 004.75 | 700 70 | 770.00 | 700.44 | 700 50 | 700.0 |
| products | 731.37 516.86 | 816.49 558.84 | 793.52 566.82 | 882.29 566.10 | 814.74 555.90 | 815.72 564.28 | 871.82 578.24 | 852.42 576.96 | 843.55 543.24 | 804.75 561.97 | 790.73 561.43 | 779.63 530.82 | 793.41 581.92 | 798.50 568.75 | 786.3 589.7 |
| Textile mills Textile product mills | 433.13 | 459.53 | 458.24 | 466.85 | 448.91 | 452.29 | 444.19 | 458.64 | 459.03 | 476.80 | 467.29 | 436.73 | 472.33 | 480.68 | 482.4 |
| Apparel | 408.86 | 418.33 | 415.84 | 400.83 | 415.69 | 410.63 | 419.92 | 413.32 | 433.38 | 438.04 | 441.60 | 452.25 | 456.96 | 452.39 | 452.8 |
| Leather and allied products | 466.62 | 509.22 | 516.36 | 499.23 | 509.06 | 493.04 | 503.20 | 497.45 | 505.90 | 529.32 | 524.88 | 535.53 | 522.00 | 524.66 | 521.9 |
| Paper and paper products | 806.19 | 858.68 | 865.96 | 870.32 | 856.06 | 866.27 | 860.15 | 885.52 | 864.00 | 859.85 | 885.72 | 860.63 | 866.31 | 863.84 | 857.5 |
| | | | | | | | | | | | | | | | |
| Printing and related | COE CO | 040.00 | 040.50 | 050.00 | 000.00 | 000.00 | 050.00 | 000.04 | 050.04 | 040 00 | 040.04 | 040.40 | CEO 0C | 050.05 | 050.7 |
| support activities | 635.68 | 646.26 | 643.58 | 650.80 | 638.32 | 630.88 | 650.29 | 660.61 | 656.81 | 646.38 | 646.94 | 643.19 | 650.86 | 652.05 | 650.7 |
| Petroleum and coal | | | | | | | | | | | | | | | |
| products | 1284.44 | 1347.00 | 1343.92 | 1357.02 | 1311.02 | 1325.41 | 1370.35 | 1371.66 | 1395.45 | 1386.16 | 1338.02 | 1369.59 | 1347.63 | 1332.58 | 1374.4 |
| Chemicals | 841.18 | 888.84 | 867.75 | 878.64 | 875.26 | 875.26 | 913.15 | 919.96 | 908.57 | 908.22 | 914.58 | 916.78 | 895.91 | 910.79 | 914.5 |
| Plastics and rubber | | | | | | | | | | | | | | | |
| products | 643.91 | 658.69 | 666.12 | 667.83 | 659.88 | 651.37 | 652.08 | 654.27 | 654.69 | 666.76 | 675.33 | 674.59 | 664.70 | 664.12 | 668.5 |
| products | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| PRIVATE SERVICE- | 500.00 | 000.44 | 000 50 | 044.05 | 000.04 | 005.00 | 045.00 | 007.00 | 040.70 | 040.00 | 040.70 | 000 74 | 045.00 | 040.47 | 040.5 |
| PROVIDING | 588.20 | 606.11 | 602.52 | 611.65 | 600.21 | 605.23 | 615.98 | 607.29 | 612.73 | 610.83 | 612.73 | 623.71 | 615.36 | 612.47 | 618.5 |
| Trade, transportation, | | | | | | | | | | | | | | | |
| and utilities | 541.88 | 559.62 | 555.06 | 562.46 | 557.78 | 566.15 | 570.54 | 566.13 | 567.47 | 562.44 | 566.50 | 570.04 | 565.29 | 569.47 | 576.2 |
| Wholesale trade | 784.49 | 816.15 | 811.19 | 823.68 | 806.27 | 811.57 | 827.37 | 820.04 | 831.61 | 826.12 | 832.87 | 847.49 | 834.10 | 827.79 | 840.5 |
| Retail trade | 388.57 | 399.74 | 396.18 | 400.87 | 398.34 | 408.19 | 408.10 | 405.72 | 403.47 | 399.43 | 405.24 | 402.75 | 398.57 | 402.60 | 409.0 |
| Transportation and | | | | | | | | | | | | | | | |
| · | 677.56 | 710.63 | 699.79 | 711.51 | 710.89 | 717.75 | 731.50 | 716.58 | 718.45 | 728.82 | 727.30 | 724.93 | 725.11 | 724.93 | 727.5 |
| warehousing | | | | | | | | | | | | | 1268.61 | | |
| Utilities | 1239.37 | 1263.33 | 1251.13 | 1278.73 | 1261.78 | 1258.32 | 1271.12 | 1284.23 | 1307.59 | 1293.76 | 1277.04 | 1270.16 | 1200.01 | 1307.19 | 1345.0 |
| Information | 931.08 | 938.89 | 922.36 | 952.00 | 927.83 | 940.11 | 957.56 | 942.57 | 957.23 | 951.13 | 935.28 | 967.62 | 953.15 | 949.32 | 962.0 |
| Financial activities | 752.03 | 776.82 | 772.56 | 798.46 | 770.01 | 768.98 | 801.36 | 772.20 | 780.12 | 779.40 | 777.60 | 813.23 | 780.12 | 777.58 | 786.2 |
| | , 52.03 | 7 7 0.02 | 112.00 | , 50.40 | , , 0.01 | , 50.50 | 551.50 | 2.20 | 700.12 | | | 010.20 | 700.12 | 7.7.50 | , 00.2 |
| Professional and | | | | | | | | | | | | | | | |
| business services | 775.81 | 798.59 | 794.15 | 815.60 | 789.25 | 793.80 | 817.17 | 795.02 | 807.83 | 802.74 | 802.74 | 824.85 | 810.73 | 802.70 | 815.0 |
| Education and | | | | | | | | | | | | | | | |
| health services | 628.45 | 646.52 | 640.96 | 645.68 | 642.64 | 649.80 | 652.86 | 650.03 | 654.95 | 653.24 | 656.77 | 665.17 | 655.36 | 654.72 | 656.3 |
| House Sel Video | | | | 0-0.00 | 072.04 | | | 030.03 | | | 030.77 | 003.17 | | | |
| Leisure and hospitality | 275.95 | 280.87 | 279.60 | 284.63 | 281.50 | 285.60 | 289.99 | 278.12 | 280.98 | 278.96 | 277.75 | 274.50 | 279.62 | 282.07 | 282.3 |
| Other services | 506.26 | 524.01 | 522.95 | 529.94 | 522.65 | 523.76 | 529.78 | 527.30 | 527.60 | 525.52 | 525.82 | 531.42 | 527.24 | 526.93 | 527.8 |
| JUI 71000 | 000.20 | U_ T. U I | 022.00 | U_U.U4 | | | | n the data" | | | | | | | J21.0 |

construction workers in construction, and nonsupervisory workers in the serviceproviding industries.

p = preliminary.

17. Diffusion indexes of employment change, seasonally adjusted

[In percent]

| [In percent] | | | | _ | | _ | _ | I - | | | | _ |
|---------------------|------|------|------|--------|----------|---------|----------|---------|--------|------|------|------|
| Timespan and year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| | | | | Privat | te nonfa | arm pay | rolls, 2 | 78 indu | stries | | ı | |
| Over 1-month span: | | | | | | | | | | | | |
| 2007 | 60.1 | 55.8 | 58.1 | 51.9 | 54.7 | 47.9 | 48.7 | 43.1 | 53.7 | 54.1 | 54.5 | 50.7 |
| 2008 | 50.6 | 47.6 | 50.2 | 42.1 | 41.9 | 34.5 | 30.5 | 33.1 | 30.0 | 32.0 | 23.4 | 20.6 |
| 2009 | 19.5 | 18.5 | 17.0 | 18.2 | 27.9 | 25.5 | 30.0 | 33.3 | 34.3 | 29.0 | 38.8 | 38.4 |
| 2010 | 46.1 | 48.3 | 58.8 | 63.9 | 56.0 | 55.2 | 56.4 | 53.7 | 51.9 | 58.2 | 57.7 | 58.6 |
| 2011 | 60.5 | 70.8 | 65.7 | 65.0 | | | | | | | | |
| Over 3-month span: | | | | | | | | | | | | |
| 2007 | 60.7 | 59.0 | 62.0 | 57.5 | 58.1 | 54.5 | 51.7 | 48.1 | 49.6 | 47.6 | 57.1 | 53.2 |
| 2008 | 57.1 | 47.6 | 47.9 | 43.3 | 37.6 | 32.4 | 30.9 | 27.7 | 26.0 | 26.0 | 22.1 | 19.9 |
| 2009 | 18.4 | 13.3 | 12.5 | 14.2 | 17.8 | 20.4 | 20.6 | 20.6 | 28.3 | 25.1 | 27.7 | 28.3 |
| 2010 | 32.2 | 39.7 | 50.9 | 59.0 | 64.0 | 60.7 | 56.9 | 56.4 | 56.0 | 58.8 | 59.2 | 62.9 |
| 2011 | 61.8 | 66.5 | 72.1 | 71.2 | | | | | | | | |
| Over 6-month span: | | | | | | | | | | | | |
| 2007 | 59.9 | 59.4 | 63.5 | 62.4 | 59.4 | 58.8 | 55.6 | 54.3 | 56.4 | 51.1 | 53.0 | 52.1 |
| 2008 | 50.6 | 51.7 | 51.7 | 49.4 | 42.3 | 36.1 | 33.1 | 29.6 | 26.6 | 27.2 | 23.6 | 22.3 |
| 2009 | 19.1 | 15.5 | 13.3 | 11.6 | 13.9 | 12.4 | 14.2 | 16.1 | 18.5 | 20.4 | 22.7 | 24.2 |
| 2010 | 25.1 | 26.4 | 34.1 | 45.5 | 51.9 | 55.6 | 58.8 | 63.1 | 63.3 | 58.4 | 59.6 | 61.8 |
| 2011 | 64.8 | 68.0 | 71.5 | 71.7 | | | | | | | | |
| Over 12-month span: | | | | | | | | | | | | |
| 2007 | 63.5 | 59.2 | 60.9 | 59.7 | 59.4 | 58.4 | 56.9 | 57.1 | 59.9 | 59.4 | 58.6 | 60.1 |
| 2008 | 54.9 | 56.6 | 53.0 | 47.0 | 48.1 | 43.8 | 40.6 | 39.7 | 36.0 | 32.6 | 28.5 | 26.6 |
| 2009 | 24.9 | 17.4 | 15.2 | 15.0 | 15.4 | 15.7 | 14.4 | 12.7 | 13.9 | 14.4 | 13.9 | 15.5 |
| 2010 | 15.7 | 15.5 | 18.9 | 23.4 | 28.1 | 35.0 | 41.8 | 42.1 | 45.1 | 50.6 | 54.7 | 58.6 |
| 2011 | 60.1 | 67.4 | 67.8 | 65.7 | | | | | | | | |
| | | | | Mar | ufactur | ing pay | rolls. 8 | 4 indus | tries | | | |
| Over 1-month span: | | | | | | | | | | | | |
| 2007 | 54.9 | 43.2 | 37.0 | 28.4 | 40.1 | 34.6 | 38.9 | 26.5 | 35.2 | 36.4 | 52.5 | 41.4 |
| 2008 | 41.4 | 36.4 | 43.8 | 35.8 | 41.4 | 24.7 | 17.9 | 22.2 | 19.1 | 22.2 | 11.1 | 7.4 |
| 2009 | 6.8 | 10.5 | 7.4 | 16.0 | 8.0 | 9.3 | 24.7 | 25.3 | 22.2 | 23.5 | 32.7 | 37.7 |
| 2010 | 38.9 | 53.1 | 53.7 | 66.7 | 62.3 | 51.2 | 51.9 | 44.4 | 49.4 | 45.1 | 58.0 | 59.3 |
| 2011 | 73.5 | 67.9 | 63.0 | 64.8 | | | | | | | | |
| Over 3-month span: | | | | | | | | | | | | |
| 2007 | 42.0 | 35.8 | 46.9 | 32.1 | 33.3 | 35.2 | 30.9 | 29.6 | 24.1 | 23.5 | 35.8 | 40.1 |
| 2008 | 50.0 | 37.7 | 35.8 | 33.3 | 34.0 | 27.2 | 19.8 | 11.7 | 15.4 | 13.6 | 13.6 | 7.4 |
| 2009 | 5.6 | 2.5 | 4.3 | 8.6 | 7.4 | 6.8 | 4.9 | 8.0 | 17.9 | 14.2 | 20.4 | 24.1 |
| 2010 | 29.6 | 43.8 | 48.8 | 60.5 | 65.4 | 63.0 | 56.8 | 51.2 | 49.4 | 44.4 | 54.9 | 56.2 |
| 2011 | 64.2 | 72.8 | 75.9 | 71.6 | 00.1 | 00.0 | 00.0 | 02 | | | 00 | 00.2 |
| Over 6-month span: | | | | | | | | | | | | |
| 2007 | 35.2 | 32.1 | 33.3 | 35.2 | 34.6 | 38.9 | 34.0 | 27.2 | 27.2 | 23.5 | 30.2 | 24.7 |
| 2008 | 25.9 | 28.4 | 41.4 | 39.5 | 35.8 | 29.6 | 22.2 | 18.5 | 10.5 | 15.4 | 13.6 | 11.7 |
| 2009 | 7.4 | 4.9 | 2.5 | 4.3 | 2.5 | 6.2 | 8.6 | 6.2 | 6.2 | 6.2 | 8.6 | 14.2 |
| 2010 | 16.7 | 19.8 | 30.2 | 42.0 | 49.4 | 54.3 | 60.5 | 61.7 | 61.7 | 48.8 | 51.9 | 54.9 |
| 2011 | 59.9 | 66.7 | 69.1 | 72.8 | | | | | | | | |
| Over 12-month span: | | | | | | | | | | | | |
| 2007 | 39.5 | 36.4 | 37.0 | 31.5 | 29.6 | 30.2 | 30.2 | 28.4 | 32.7 | 29.6 | 35.2 | 36.4 |
| 2008 | 28.4 | 29.6 | 26.5 | 24.7 | 30.2 | 25.9 | 22.2 | 19.8 | 23.5 | 19.1 | 15.4 | 13.6 |
| 2009 | 7.4 | 3.7 | 4.9 | 6.2 | 3.7 | 4.9 | 7.4 | 3.7 | 4.9 | 4.9 | 3.7 | 4.3 |
| 2010 | 5.6 | 1.2 | 6.2 | 7.4 | 18.5 | 25.9 | 35.8 | 35.2 | 40.1 | 45.7 | 48.8 | 54.9 |
| 2011 | 58.6 | 63.0 | 63.6 | 61.7 | | | | | | | | |
| | 30.0 | 30.0 | 30.0 | 3 | | | | | | | | |

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.

Data for the two most recent months are preliminary.

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

| | | | Levels ¹ | (in thou | ısands) | | | | | | Percent | | | |
|--------------------------------------|-------|-------|---------------------|----------|---------|-------------------|-------------------|------|------|------|---------|------|-------------------|-------------------|
| Industry and region | | 2010 | | | 20 | 11 | | | 2010 | | | 20 | 11 | |
| | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| Total ² | 2,905 | 2,966 | 2,921 | 2,741 | 3,025 | 3,123 | 2,972 | 2.2 | 2.2 | 2.2 | 2.1 | 2.3 | 2.3 | 2.2 |
| Industry | | | | | | | | | | | | | | |
| Total private ² | 2,560 | 2,639 | 2,500 | 2,418 | 2,695 | 2,793 | 2,657 | 2.3 | 2.4 | 2.3 | 2.2 | 2.4 | 2.5 | 2.4 |
| Construction | 69 | 94 | 44 | 60 | 55 | 68 | 96 | 1.2 | 1.7 | 0.8 | 1.1 | 1.0 | 1.2 | 1.7 |
| Manufacturing | 193 | 213 | 184 | 207 | 209 | 235 | 230 | 1.6 | 1.8 | 1.6 | 1.7 | 1.8 | 2.0 | 1.9 |
| Trade, transportation, and utilities | 445 | 430 | 463 | 470 | 448 | 472 | 484 | 1.8 | 1.7 | 1.8 | 1.9 | 1.8 | 1.9 | 1.9 |
| Professional and business services | 575 | 647 | 609 | 459 | 606 | 613 | 522 | 3.3 | 3.7 | 3.5 | 2.6 | 3.4 | 3.5 | 3.0 |
| Education and health services | 569 | 528 | 510 | 482 | 553 | 609 | 544 | 2.8 | 2.6 | 2.5 | 2.4 | 2.7 | 3.0 | 2.7 |
| Leisure and hospitality | 274 | 253 | 270 | 301 | 378 | 340 | 311 | 2.1 | 1.9 | 2.0 | 2.3 | 2.8 | 2.5 | 2.3 |
| Government | 345 | 327 | 421 | 323 | 330 | 331 | 315 | 1.5 | 1.4 | 1.9 | 1.4 | 1.5 | 1.5 | 1.4 |
| Region ³ | | | | | | | | | | | | | | |
| Northeast | 605 | 603 | 548 | 492 | 594 | 675 | 542 | 2.4 | 2.4 | 2.2 | 1.9 | 2.3 | 2.6 | 2.1 |
| South | 1,084 | 1,053 | 1,023 | 960 | 1,082 | 1,082 | 1,003 | 2.2 | 2.2 | 2.1 | 2.0 | 2.2 | 2.2 | 2.1 |
| Midwest | 584 | 634 | 617 | 513 | 630 | 672 | 670 | 1.9 | 2.1 | 2.0 | 1.7 | 2.1 | 2.2 | 2.2 |
| West | 740 | 769 | 829 | 573 | 715 | 752 | 685 | 2.5 | 2.6 | 2.8 | 2.0 | 2.4 | 2.5 | 2.3 |

Detail will not necessarily add to totals because of the independent seasonal West Virginia; Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, adjustment of the various series.

West Virginia; Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouni, 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

| | | | Levels ¹ | (in thou | ısands) | | | | | | Percent | | | |
|--------------------------------------|-------|-------|---------------------|----------|---------|-------------------|-------------------|------|------|------|---------|------|-------------------|-------------------|
| Industry and region | | 2010 | | | 20 | 11 | | | 2010 | | | 20 | 11 | |
| | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| Total ² | 3,865 | 3,943 | 3,905 | 3,769 | 3,986 | 4,067 | 3,972 | 3.0 | 3.0 | 3.0 | 2.9 | 3.1 | 3.1 | 3.0 |
| Industry | | | | | | | | | | | | | | |
| Total private ² | 3,580 | 3,668 | 3,631 | 3,494 | 3,729 | 3,807 | 3,710 | 3.3 | 3.4 | 3.4 | 3.2 | 3.4 | 3.5 | 3.4 |
| Construction | 331 | 324 | 356 | 254 | 369 | 338 | 339 | 6.0 | 5.9 | 6.5 | 4.6 | 6.7 | 6.1 | 6.1 |
| Manufacturing | 259 | 272 | 264 | 246 | 250 | 269 | 257 | 2.2 | 2.4 | 2.3 | 2.1 | 2.1 | 2.3 | 2.2 |
| Trade, transportation, and utilities | 777 | 799 | 756 | 783 | 816 | 803 | 795 | 3.1 | 3.2 | 3.1 | 3.2 | 3.3 | 3.2 | 3.2 |
| Professional and business services | 730 | 761 | 780 | 810 | 791 | 840 | 798 | 4.4 | 4.5 | 4.6 | 4.8 | 4.7 | 4.9 | 4.7 |
| Education and health services | 465 | 491 | 465 | 437 | 468 | 470 | 461 | 2.4 | 2.5 | 2.4 | 2.2 | 2.4 | 2.4 | 2.3 |
| Leisure and hospitality | 596 | 590 | 596 | 588 | 632 | 681 | 672 | 4.6 | 4.5 | 4.6 | 4.5 | 4.8 | 5.2 | 5.1 |
| Government | 285 | 275 | 274 | 275 | 257 | 260 | 262 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Region ³ | | | | | | | | | | | | | | |
| Northeast | 690 | 701 | 680 | 633 | 646 | 717 | 688 | 2.8 | 2.8 | 2.7 | 2.5 | 2.6 | 2.9 | 2.8 |
| South | 1,449 | 1,572 | 1,513 | 1,412 | 1,466 | 1,535 | 1,475 | 3.1 | 3.3 | 3.2 | 3.0 | 3.1 | 3.2 | 3.1 |
| Midwest | 880 | 879 | 878 | 920 | 901 | 862 | 935 | 3.0 | 3.0 | 3.0 | 3.1 | 3.0 | 2.9 | 3.1 |
| West | 839 | 883 | 806 | 939 | 862 | 851 | 842 | 2.9 | 3.1 | 2.8 | 3.3 | 3.0 | 3.0 | 2.9 |

¹ Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.

Includes natural resources and mining, information, financial activities, and other

Midwest: Illinois, Indiana, Iowa, 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.

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,

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;

20. Total separations levels and rates by industry and region, seasonally adjusted

| | | | Levels ¹ | (in thou | ısands) | | | | | | Percent | | | |
|--------------------------------------|-------|-------|---------------------|----------|---------|-------------------|-------------------|------|------|------|---------|------|-------------------|-------------------|
| Industry and region | | 2010 | | | 20 | 11 | | | 2010 | | | 20 | 11 | |
| | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| Total ² | 3,702 | 3,869 | 3,836 | 3,612 | 3,825 | 3,805 | 3,743 | 2.8 | 3.0 | 2.9 | 2.8 | 2.9 | 2.9 | 2.9 |
| Industry | | | | | | | | | | | | | | |
| Total private ² | 3,436 | 3,568 | 3,539 | 3,337 | 3,538 | 3,534 | 3,455 | 3.2 | 3.3 | 3.3 | 3.1 | 3.3 | 3.3 | 3.2 |
| Construction | 323 | 342 | 393 | 281 | 324 | 334 | 345 | 5.9 | 6.2 | 7.2 | 5.1 | 5.9 | 6.0 | 6.3 |
| Manufacturing | 266 | 265 | 252 | 184 | 234 | 245 | 233 | 2.3 | 2.3 | 2.2 | 1.6 | 2.0 | 2.1 | 2.0 |
| Trade, transportation, and utilities | 741 | 773 | 718 | 769 | 800 | 772 | 733 | 3.0 | 3.1 | 2.9 | 3.1 | 3.2 | 3.1 | 3.0 |
| Professional and business services | 709 | 687 | 735 | 756 | 760 | 719 | 731 | 4.2 | 4.1 | 4.3 | 4.5 | 4.5 | 4.2 | 4.3 |
| Education and health services | 408 | 460 | 450 | 394 | 441 | 429 | 422 | 2.1 | 2.3 | 2.3 | 2.0 | 2.2 | 2.2 | 2.1 |
| Leisure and hospitality | 613 | 595 | 583 | 596 | 582 | 650 | 619 | 4.7 | 4.6 | 4.5 | 4.6 | 4.4 | 4.9 | 4.7 |
| Government | 265 | 300 | 297 | 275 | 287 | 271 | 287 | 1.2 | 1.3 | 1.3 | 1.2 | 1.3 | 1.2 | 1.3 |
| Region ³ | | | | | | | | | | | | | | |
| Northeast | 678 | 715 | 598 | 569 | 703 | 649 | 757 | 2.7 | 2.9 | 2.4 | 2.3 | 2.8 | 2.6 | 3.0 |
| South | 1,290 | 1,407 | 1,476 | 1,499 | 1,451 | 1,519 | 1,394 | 2.7 | 3.0 | 3.1 | 3.2 | 3.1 | 3.2 | 2.9 |
| Midwest | 822 | 890 | 841 | 912 | 830 | 912 | 921 | 2.8 | 3.0 | 2.8 | 3.1 | 2.8 | 3.1 | 3.1 |
| West | 782 | 829 | 759 | 817 | 857 | 872 | 858 | 2.7 | 2.9 | 2.7 | 2.9 | 3.0 | 3.0 | 3.0 |

Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.

Midwest: Illinois, Indiana, Iowa, 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,

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. p= preliminary

21. Quits levels and rates by industry and region, seasonally adjusted

| | | | Levels ¹ | (in thou | ısands) | | | | | | Percent | | | |
|--------------------------------------|-------|-------|---------------------|----------|---------|-------------------|-------------------|------|------|------|---------|------|-------------------|-------------------|
| Industry and region | | 2010 | | | 20 | 11 | | | 2010 | | | 20 | 11 | |
| | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. ^p | Apr. ^p |
| Total ² | 1,755 | 1,756 | 1,838 | 1,679 | 1,910 | 1,924 | 1,857 | 1.4 | 1.3 | 1.4 | 1.3 | 1.5 | 1.5 | 1.4 |
| Industry | | | | | | | | | | | | | | |
| Total private ² | 1,654 | 1,653 | 1,731 | 1,572 | 1,793 | 1,820 | 1,747 | 1.5 | 1.5 | 1.6 | 1.5 | 1.7 | 1.7 | 1.6 |
| Construction | 77 | 56 | 81 | 56 | 62 | 72 | 89 | 1.4 | 1.0 | 1.5 | 1.0 | 1.1 | 1.3 | 1.6 |
| Manufacturing | 95 | 103 | 107 | 83 | 94 | 115 | 103 | .8 | .9 | .9 | .7 | .8 | 1.0 | .9 |
| Trade, transportation, and utilities | 376 | 388 | 373 | 338 | 442 | 443 | 412 | 1.5 | 1.6 | 1.5 | 1.4 | 1.8 | 1.8 | 1.7 |
| Professional and business services | 342 | 317 | 335 | 361 | 396 | 357 | 342 | 2.0 | 1.9 | 2.0 | 2.1 | 2.3 | 2.1 | 2.0 |
| Education and health services | 228 | 248 | 244 | 206 | 241 | 251 | 232 | 1.2 | 1.3 | 1.2 | 1.0 | 1.2 | 1.3 | 1.2 |
| Leisure and hospitality | 357 | 335 | 368 | 352 | 353 | 382 | 386 | 2.7 | 2.6 | 2.8 | 2.7 | 2.7 | 2.9 | 2.9 |
| Government | 101 | 102 | 107 | 107 | 117 | 104 | 111 | .5 | .5 | .5 | .5 | .5 | .5 | .5 |
| Region ³ | | | | | | | | | | | | | | |
| Northeast | 266 | 248 | 251 | 214 | 335 | 293 | 274 | 1.1 | 1.0 | 1.0 | .9 | 1.3 | 1.2 | 1.1 |
| South | 679 | 702 | 761 | 656 | 779 | 779 | 737 | 1.4 | 1.5 | 1.6 | 1.4 | 1.6 | 1.6 | 1.6 |
| Midwest | 415 | 403 | 411 | 368 | 455 | 437 | 452 | 1.4 | 1.4 | 1.4 | 1.2 | 1.5 | 1.5 | 1.5 |
| West | 377 | 367 | 343 | 366 | 447 | 455 | 390 | 1.3 | 1.3 | 1.2 | 1.3 | 1.6 | 1.6 | 1.4 |

Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.

Midwest: Illinois Indiana Iowa 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.

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;

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;

p = preliminary

22. Quarterly Census of Employment and Wages: 10 largest counties, third quarter 2010.

| | Establishments, | Emp | loyment | Average | weekly wage ¹ |
|--|--------------------------------------|----------------------------------|--|--------------------------|--|
| County by NAICS supersector | third quarter 2010 (thousands) | September 2010 (thousands) | Percent change, September 2009-10 ² | Third quarter 2010 | Percent change, third quarter 2009-10 ² |
| United States ³ | 9.044.4 | 128,440.4 | 0.2 | \$870 | 3.4 |
| Private industry | | 107,007.4 | .4 | 861 | 4.0 |
| Natural resources and mining | | 1,926.7 | 3.3 | 884 | 5.7 |
| Construction | | 5,686.9 | -4.6 | 946 | 1.3 |
| Manufacturing | | 11,584.3 | 3 | 1,074 | 6.8 |
| Trade, transportation, and utilities | | 24,381.8 | 2 | 742 | 4.4 |
| Information | 144.5 | 2,701.5 | -2.3 | 1,416 | 7.4 |
| Financial activities | 818.0 | 7,379.9 | -1.7 | 1,235 | 4.6 |
| Professional and business services | | 16,869.8 | 3.3 | 1,093 | 3.1 |
| Education and health services | | 18,661.9 | 1.9 | 842 | 2.8 |
| Leisure and hospitality | | 13,292.8 | .7 | 370 | 3.6 |
| Other services | | 4,342.8 21,433.0 | 1 8 | 562 918 | 3.5 1.2 |
| Government | | 21,455.0 | 0 | | |
| Los Angeles, CA Private industry | | 3,844.5 3,311.1 | 8 3 | 972 948 | 3.1 3.6 |
| Natural resources and mining | | 10.8 | 5.9 | 1,903 | 45.9 |
| Construction | | 104.2 | -9.3 | 1,010 | -1.6 |
| Manufacturing | | 374.1 | -1.7 | 1,079 | 4.6 |
| Trade, transportation, and utilities | | 732.2 | .1 | 783 | 2.9 |
| Information | | 196.9 | 1.2 | 1,644 | 3.1 |
| Financial activities | | 209.4 | -1.1 | 1,456 | 8.4 |
| Professional and business services | | 528.2 | .9 | 1,145 | 1.1 |
| Education and health services | | 508.8 | 2.6 | 931 | 2.6 |
| Leisure and hospitality | 27.1 | 390.4 | .9 | 544 | 2.6 |
| Other services | | 248.5 | -5.9 | 451 | 7.9 |
| Government | 5.6 | 533.4 | -4.0 | 1,123 | 1.1 |
| Cook, IL | | 2,354.8 | 4 | 1,008 | 3.2 |
| Private industry | | 2,055.8 | 1 | 1,000 | 3.5 |
| Natural resources and mining | | 1.0 | -8.4 | 1,051 | 7.5 |
| Construction | | 67.2 | -10.0 | 1,228 | -3.3 |
| Manufacturing | | 194.3 | -1.0 | 1,069 | 6.3 |
| Trade, transportation, and utilities | | 428.9 | .2 | 784 | 3.2 |
| Information | | 51.0 | -3.5 | 1,439 | 6.4 |
| Financial activities | | 187.9 | -2.8 | 1,644 | 7.6 |
| Professional and business services | | 407.7 391.0 | 2.6 | 1,259 903 | 1.7 (⁴) |
| Education and health services Leisure and hospitality | | 230.9 | (⁴) .2 | 463 | 4.5 |
| Other services | | 92.5 | (⁴) | 761 | 5.3 |
| Government | | 298.9 | -2.5 | 1,067 | 1.5 |
| New York, NY | 120.9 | 2,273.0 | 1.2 | 1,572 | 4.7 |
| Private industry | | 1,834.9 | 1.6 | 1,685 | 4.6 |
| Natural resources and mining | | .1 | -5.0 | 1,853 | -9.3 |
| Construction | | 30.5 | -7.0 | 1,608 | 3.5 |
| Manufacturing | | 26.7 | -2.5 | 1,256 | 6.1 |
| Trade, transportation, and utilities | | 233.4 | 2.2 | 1,130 | 2.4 |
| Information | 4.4 | 131.0 | 8 | 2,042 | 7.8 |
| Financial activities | | 348.8 | 1.3 | 2,903 | 5.5 |
| Professional and business services | | 458.2 | 1.9 | 1,880 | 3.8 |
| Education and health services | | 290.0 | 1.7 | 1,147 | 5.5 |
| Leisure and hospitality | | 223.3 | 3.2 | 756 | 3.7 |
| Other services | | 86.3 438.1 | .2 6 | 1,026 1,098 | 9.5 3.8 |
| | | | | | |
| Harris, TX Private industry | | 1,995.8 1,734.1 | 1.1 | 1,083 1,095 | 3.9 4.6 |
| Natural resources and mining | 1.6 | 75.2 | 4.0 | 2,692 | 3.9 |
| Construction | | 133.6 | -3.4 | 1,038 | .6 |
| Manufacturing | | 169.0 | .4 | 1,357 | 6.6 |
| Trade, transportation, and utilities | | 415.8 | .2 | 969 | 5.4 |
| Information | 1.3 | 27.9 | -5.1 | 1,298 | 6.1 |
| Financial activities | 10.4 | 111.4 | -2.8 | 1,283 | 5.5 |
| Professional and business services | 19.8 | 322.3 | 2.8 | 1,310 | 4.6 |
| Education and health services | | 238.7 | 3.5 | 902 | 3.7 |
| Leisure and hospitality | | 179.2 | 1.2 | 398 | 2.3 |
| Other services | | 59.8 261.7 | 3.0 (⁴) | 620 1,003 | 2.1 (⁴) |
| | | | | | |
| Maricopa, AZ Private industry | | 1,597.0 1.382.4 | 5 3 | 859 851 | 2.4 2.9 |
| Natural resources and mining | | 6.5 | -12.0 | 787 | 9.8 |
| Construction | | 80.4 | -10.0 | 892 | 2.4 |
| Manufacturing | | 106.6 | -2.6 | 1,250 | 9.6 |
| Trade, transportation, and utilities | | 328.7 | -1.0 | 797 | 4.2 |
| Information | | 26.7 | 1.3 | 1,118 | 2.2 |
| Financial activities | | 131.2 | -2.1 | 1,025 | 2.9 |
| Professional and business services | | 259.5 | .7 | 896 | .4 |
| Education and health services | 10.4 | 231.5 | (4) | 919 | (4) |
| Leisure and hospitality | | 165.5 | .3 | 409 | 3.0 |
| Other services | | 45.1 | 3 | 571 | 2.5 |
| Government | | 214.6 | -1.8 | 915 | 7 |

22. Continued—Quarterly Census of Employment and Wages: 10 largest counties, third quarter 2010.

| | Establishments, | Emp | loyment | Average weekly wage ¹ | | |
|--------------------------------------|--------------------------------------|----------------------------------|--|----------------------------------|---|--|
| County by NAICS supersector | third quarter 2010 (thousands) | September 2010 (thousands) | Percent change, September 2009-10 ² | Third quarter 2010 | Percent change third quarter 2009-10 ² | |
| Dallas, TX | 67.8 | 1,415.0 | 0.9 | \$1,032 | 2.0 | |
| Private industry | 67.3 | 1,246,2 | .9 | 1,035 | 2.0 | |
| Natural resources and mining | | 8.4 | 10.9 | 2,861 | .1 | |
| Construction | | 69.2 | -3.6 | 944 | 4 | |
| Manufacturing | | 113.1 | -3.8 | 1,174 | 2.2 | |
| Trade, transportation, and utilities | | 279.8 | -5.6 | 961 | 2.9 | |
| | | 45.1 | 3 | | 3.5 | |
| Information | | | | 1,507 | | |
| Financial activities | | 136.0 | 8 | 1,329 | 2.5 | |
| Professional and business services | | 261.7 | 3.7 | 1,175 | 1.2 | |
| Education and health services | | 165.3 | 3.4 | 962 | 2.2 | |
| Leisure and hospitality | | 128.5 | 1.7 | 462 | 2.0 | |
| Other services | 7.0 | 38.2 | 1.7 | 642 | 1.4 | |
| Government | .5 | 168.9 | 1.0 | 1,005 | 1.5 | |
| Drange, CA | | 1,348.8 | 1 | 975 | 2.8 | |
| Private industry | | 1,215.9 | .3 | 966 | 3.2 | |
| Natural resources and mining | | 3.9 | -1.9 | 620 | -2.7 | |
| Construction | 6.4 | 67.9 | -5.0 | 1,073 | -3.1 | |
| Manufacturing | | 151.0 | 4 | 1,244 | 9.0 | |
| Trade, transportation, and utilities | | 243.5 | 4 | 905 | 4.3 | |
| Information | 1.3 | 24.3 | -8.2 | 1,463 | 8.0 | |
| Financial activities | | 104.0 | .2 | 1,363 | 5.2 | |
| Professional and business services | 18.8 | 244.0 | 2.0 | 1,092 | .3 | |
| Education and health services | | 154.5 | 2.9 | 940 | 1.4 | |
| Leisure and hospitality | | 171.7 | .1 | 431 | 4.9 | |
| Other services | | 48.4 | .5 | 539 | 2.5 | |
| Government | | 132.9 | -2.9 | 1,060 | .2 | |
| San Diego, CA | 97.7 | 1,238.6 | .4 | 943 | 2.7 | |
| Private industry | | 1,021.5 | .4 | 917 | 2.8 | |
| Natural resources and mining | | 10.7 | 5.6 | 582 | .7 | |
| Construction | | 55.7 | -5.5 | 1,045 | .6 | |
| Manufacturing | | 93.0 | .1 | 1,326 | 7.2 | |
| Trade, transportation, and utilities | | 196.4 | 3 | 742 | 1.6 | |
| Information | | 25.0 | -2.8 | 1,572 | 10.1 | |
| Financial activities | | 66.9 | -1.4 | 1,119 | 4.0 | |
| Professional and business services | | 210.8 | 1.8 | 1,223 | .2 | |
| Education and health services | | 145.5 | 2.8 | 907 | 2.4 | |
| Leisure and hospitality | | 157.4 | .3 | 425 | 4.9 | |
| Other services | | 57.7 | .1 | 540 | 11.6 | |
| Government | | 217.1 | .2 | 1,069 | (⁴) | |
| King, WA | 83.0 | 1,121.8 | .1 | 1,234 | 4.7 | |
| Private industry | | 967.6 | 1 .1 | 1,248 | 4.6 | |
| Natural resources and mining | | 2.9 | -4.4 | 1,162 | 9.5 | |
| Construction | | 49.1 | -8.8 | 1,134 | 1.1 | |
| Manufacturing | | 97.3 | -2.4 | 1,134 | 10.4 | |
| Trade, transportation, and utilities | | 204.5 | -2.4 | 977 | 6.8 | |
| | | | 1.0 | | | |
| Information | | 79.9 | 1.0 | 3,605 | 6.4 | |
| Financial activities | | 64.6 | | 1,297 | -1.3 | |
| Professional and business services | | 177.8 | 3.2 | 1,329 | 4.7 | |
| Education and health services | | 130.3 | .2 | 930 | 3.6 | |
| Leisure and hospitality | | 109.8 | 1 | 456 | .2 | |
| Other services | 22.8 .6 | 51.4 154.2 | 8.6 .1 | 572 1,142 | -4.7 (⁴) | |
| | | | | , | | |
| Miami-Dade, FL | 85.0 84.7 | 940.9 | .3 .7 | 853 819 | 1.5 1.7 | |
| Private industry | | 797.9 | | | | |
| Natural resources and mining | | 6.8 | 2 | 489 | .6 | |
| Construction | | 31.4 | -9.3 | 859 | 2 | |
| Manufacturing | | 34.7 | -4.3 | 805 | 5.6 | |
| Trade, transportation, and utilities | | 236.4 | 1.9 | 757 | 1.6 | |
| Information | | 17.1 | -1.5 | 1,289 | 5.5 | |
| Financial activities | | 60.4 | -1.0 | 1,216 | 5.6 | |
| Professional and business services | | 121.5 | .4 | 993 | -2.8 | |
| Education and health services | | 149.6 | 1.0 | 862 | 4.5 | |
| Leisure and hospitality | 6.3 | 104.8 | 3.7 | 497 | 4.6 | |
| Other services | | 34.8 | 1.5 | 553 | 2.6 | |
| Government | .4 | 143.0 | -1.8 | 1,047 | 1.1 | |
| | 1 | 1 | | /- ' | | |

¹ Average weekly wages were calculated using unrounded data.

Virgin Islands.

NOTE: Includes workers covered by Unemployment Insurance (UI) and Unemployment Compensation for Federal Employees (UCFE) programs. Data are preliminary.

 $^{^2}$ 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

⁴ Data do not meet BLS or State agency disclosure standards.

23. Quarterly Census of Employment and Wages: by State, third quarter 2010.

| | Establishments, | Empl | oyment | Average weekly wage ¹ | | |
|--|--------------------------------------|----------------------------------|---|----------------------------------|--|--|
| State | third quarter 2010 (thousands) | September 2010 (thousands) | Percent change, September 2009-10 | Third quarter 2010 | Percent change third quarter 2009-10 | |
| United States ² | 9,044.4 | 128,440.4 | 0.2 | \$870 | 3.4 | |
| Alabama | 116.8 | 1,813.9 | 1 | 774 | 4.0 | |
| Alaska | 21.4 | 333.5 | 1.3 | 926 | 4.4 | |
| Arizona | 147.2 | 2,342.3 | 9 | 821 | 2.6 | |
| Arkansas | 85.6 | 1,147.0 | .8 | 684 | 3.8 | |
| California | 1,347.5 | 14,469.7 | 3 | 982 | 3.3 | |
| Colorado | 173.2 | 2,183.8 | 2 | 898 | 2.5 | |
| Connecticut | 111.4 | 1,611.9 | .0 | 1,069 | 4.3 | |
| | | | | | | |
| Delaware | 28.4 | 404.7 | .8 | 902 | 2.4 | |
| District of Columbia | 35.0 | 693.8 | 2.0 | 1,471 | 1.2 | |
| Florida | 595.2 | 7,045.3 | .0 | 780 | 2.8 | |
| Georgia | 268.2 | 3,749.9 | 1 | 823 | 2.7 | |
| Hawaii | 38.9 | 585.6 | 1 | 804 | 2.2 | |
| daho | 55.0 | 616.8 | -1.1 | 667 | 3.1 | |
| llinois | 378.6 | 5,539.5 | .0 | 916 | 4.0 | |
| ndiana | 157.2 | 2,736.7 | .8 | 742 | 3.9 | |
| owa | 94.3 | 1,439.8 | 5 | 719 | 3.6 | |
| Kansas | 87.5 | 1,296.1 | -1.0 | 731 | 3.5 | |
| Kentucky | 110.1 | 1,728.3 | .8 | 729 | 3.3 | |
| _ouisiana | 131.0 | 1,834.8 | .0 | 729 790 | 3.9 | |
| Naine | 49.2 | 1,834.8 589.4 | .0 6 | 790 | 3.9 | |
| Maryland | 163.8 | 2.469.7 | .5 | 966 | 2.7 | |
| | | , | | | | |
| Massachusetts | 221.1 | 3,169.8 | .8 | 1,069 | 4.5 | |
| Michigan | 247.6 | 3,825.9 | .9 | 840 | 3.8 | |
| Minnesota | 164.7 | 2,574.3 | .4 | 875 | 4.7 | |
| Mississippi | 69.5 | 1,077.4 | .0 | 653 | 2.8 | |
| Missouri | 174.5 | 2,596.8 | 5 | 764 | 2.7 | |
| Montana | 42.4 | 428.7 | .0 | 647 | 1.6 | |
| Nebraska | 60.0 | 899.8 | 2 | 708 | 2.8 | |
| Nevada | 71.2 | 1.106.8 | -1.7 | 815 | 1.2 | |
| New Hampshire | 48.4 | 608.9 | .1 | 854 | 2.9 | |
| New Jersey | 265.6 | 3,759.0 | 4 | 1,024 | 2.8 | |
| New Mexico | 54.8 | 785.9 | -1.0 | 745 | 2.9 | |
| New York | 591.6 | 8,364.2 | .5 | 1,057 | 4.3 | |
| | | | | | | |
| North Carolina | 251.7 | 3,806.2 | 3 | 768 | 3.1 | |
| North Dakota | 26.4 | 366.1 | 3.0 | 726 | 6.8 | |
| Ohio | 286.4 | 4,942.1 | .3 | 791 | 3.4 | |
| Oklahoma | 102.2 | 1,487.5 | 2 | 726 | 4.0 | |
| Oregon | 131.0 | 1,620.5 | .3 | 791 | 3.1 | |
| Pennsylvania Rhode Island | 341.0 35.2 | 5,500.9 456.0 | .9 .8 | 860 826 | 4.1 4.2 | |
| | | | | | | |
| South Carolina | 111.4 | 1,763.7 | .5 | 714 | 3.9 | |
| South Dakota | 30.9 | 393.7 | .4 | 660 | 4.3 | |
| Tennessee | 139.6 | 2,578.3 | .8 | 777 | 4.3 | |
| Texas | 572.4 | 10,204.5 | 1.5 | 876 | 3.7 | |
| Jtah | 83.7 | 1,160.6 | .5 | 740 | 2.2 | |
| /ermont | 24.4 | 294.3 | .5 | 752 | 2.6 | |
| /irginia | 232.9 | 3,544.1 | .4 | 930 | 3.8 | |
| Vashington | 237.0 | 2,855.7 | 3 | 953 | 4.0 | |
| West Virginia | 48.4 | 699.4 | 1.1 | 702 | 4.3 | |
| Visconsin | 157.6 | 2,657.7 | .5 | 752 752 | 3.6 | |
| Nyoming | 25.2 | 278.9 | .0 | 793 | 4.9 | |
| Puerto Rico | 49.6 | 910.0 | -2.7 | 502 | 1.6 | |
| /irgin Islands | 3.6 | 43.5 | 2.3 | 754 | 4.3 | |
| / II YII I I I I I I I I I I I I I I I I | 3.0 | 43.3 | 2.3 | 734 | l 4.3 | |

¹ Average weekly wages were calculated using unrounded data.

NOTE: Includes workers covered by Unemployment Insurance (UI) and Unemployment Compensation for Federal Employees (UCFE) programs. Data are preliminary.

 $^{^2\,}$ Totals for the United States do not include data for Puerto Rico or the Virgin Islands.

24. Annual data: Quarterly Census of Employment and Wages, by ownership

| Year | Average establishments | Average annual employment | Total annual wages (in thousands) | Average annual wage per employee | Average weekly wage | | | | | | |
|----------------------|----------------------------|-------------------------------------|---|----------------------------------|---------------------------|--|--|--|--|--|--|
| | | Total co | overed (UI and UCFE) | | | | | | | | |
| 2000 | 7,879,116 | 129,877,063 | \$4,587,708,584 | \$35,323 | \$679 | | | | | | |
| 2001 | 7,984,529 | 129,635,800 | 4,695,225,123 | 36.219 | 697 | | | | | | |
| 2002 | 8,101,872 | 128,233,919 | 4,714,374,741 | 36,764 | 707 | | | | | | |
| 2003 | 8,228,840 | 127,795,827 | 4,826,251,547 | 37,765 | 726 | | | | | | |
| 2004 | 8,364,795 | 129,278,176 | 5,087,561,796 | 39,354 | 757 | | | | | | |
| 2005 | 8,571,144 | 131,571,623 | 5,351,949,496 | 40,677 | 782 | | | | | | |
| 2006 | 8,784,027 | 133,833,834 | 5,692,569,465 | 42,535 | 818 | | | | | | |
| 2007 | 8,971,897 | 135,366,106 | 6,018,089,108 | 44,458 | 855 | | | | | | |
| 2008 | 9,082,049 | 134,805,659 | 6,142,159,200 | 45,563 | 876 | | | | | | |
| 2009 | 9,003,197 | 128,607,842 | 5,859,232,422 | 45,559 | 876 | | | | | | |
| | | | UI covered | | | | | | | | |
| 2000 | 7,828,861 | 127,005,574 | \$4,454,966,824 | \$35,077 | \$675 | | | | | | |
| 2001 | 7,933,536 | 126,883,182 | 4,560,511,280 | 35,943 | 691 | | | | | | |
| 2002 | 8,051,117 | 125,475,293 | 4,570,787,218 | 36,428 | 701 | | | | | | |
| 2003 | 8,177,087 | 125,031,551 | 4,676,319,378 | 37,401 | 719 | | | | | | |
| 2004 | 8,312,729 | 126,538,579 | 4,929,262,369 | 38,955 | 749 | | | | | | |
| 2005 | 8,518,249 | 128,837,948 | 5,188,301,929 | 40,270 | 774 | | | | | | |
| 006 | 8,731,111 | 131,104,860 | 5,522,624,197 | 42,124 | 810 | | | | | | |
| 007 | 8,908,198 | 132,639,806 | 5,841,231,314 | 44,038 | 847 | | | | | | |
| 008 | 9,017,717 | 132,043,604 | 5,959,055,276 | 45,129 | 868 | | | | | | |
| 2009 | 8,937,616 | 125,781,130 | 5,667,704,722 | 45,060 | 867 | | | | | | |
| | Private industry covered | | | | | | | | | | |
| 2000 | 7,622,274 | 110,015,333 | \$3,887,626,769 | \$35,337 | \$680 | | | | | | |
| 2001 | 7,724,965 | 109,304,802 | 3,952,152,155 | 36,157 | 695 | | | | | | |
| 2002 | 7,839,903 | 107,577,281 | 3,930,767,025 | 36,539 | 703 | | | | | | |
| 2003 | 7,963,340 | 107,065,553 | 4,015,823,311 | 37,508 | 721 | | | | | | |
| 2004 | 8,093,142 | 108,490,066 | 4,245,640,890 | 39,134 | 753 | | | | | | |
| 2005 | 8,294,662 | 110,611,016 | 4,480,311,193 | 40,505 | 779 | | | | | | |
| 2006 | 8,505,496 | 112,718,858 | 4,780,833,389 | 42,414 | 816 | | | | | | |
| 2007 | 8,681,001 | 114,012,221 | 5,057,840,759 | 44,362 | 853 | | | | | | |
| | | | | | | | | | | | |
| 2008 2009 | 8,789,360 8,709,115 | 113,188,643 106,947,104 | 5,135,487,891 4,829,211,805 | 45,371 45,155 | 873 868 | | | | | | |
| | | State o | government covered | | | | | | | | |
| | | | | | | | | | | | |
| 2000 | 65,096 | 4,370,160 | \$158,618,365 | \$36,296 | \$698 | | | | | | |
| 2001 | 64,583 | 4,452,237 | 168,358,331 | 37,814 | 727 | | | | | | |
| 2002 | 64,447 | 4,485,071 | 175,866,492 | 39,212 | 754 | | | | | | |
| 2003 | 64,467 | 4,481,845 | 179,528,728 | 40,057 | 770 | | | | | | |
| 2004 | 64,544 | 4,484,997 | 184,414,992 | 41,118 | 791 | | | | | | |
| 2005 | 66,278 | 4,527,514 | 191,281,126 | 42,249 | 812 | | | | | | |
| 2006 | 66,921 | 4,565,908 | 200,329,294 | 43,875 | 844 | | | | | | |
| 2007 | 67,381 | 4,611,395 | 211,677,002 | 45,903 | 883 | | | | | | |
| 2008 | 67,675 | 4,642,650 | 222,754,925 | 47,980 | 923 | | | | | | |
| 2009 | 67,075 | 4,639,715 | 226,148,903 | 48,742 | 937 | | | | | | |
| | | Local (| government covered | | | | | | | | |
| 2000 | 141,491 | 12,620,081 | \$408,721,690 | \$32,387 | \$623 | | | | | | |
| 2001 | 143,989 | 13,126,143 | 440,000,795 | 33,521 | 645 | | | | | | |
| 2002 | 146,767 | 13,412,941 | 464,153,701 | 34,605 | 665 | | | | | | |
| 2003 | 149,281 | 13,484,153 | 480,967,339 | 35,669 | 686 | | | | | | |
| 2004 | 155,043 | 13,563,517 | 499,206,488 | 36,805 | 708 | | | | | | |
| 2005 | | | 516,709,610 | | 708 725 | | | | | | |
| | 157,309 | 13,699,418 | | 37,718 | | | | | | | |
| 2006 | 158,695 | 13,820,093 | 541,461,514 | 39,179 | 753 | | | | | | |
| 2007 | 159,816 | 14,016,190 | 571,713,553 | 40,790 | 784 | | | | | | |
| 2008 | 160,683 161,427 | 14,212,311 14,194,311 | 600,812,461 612,344,014 | 42,274 43,140 | 813 830 | | | | | | |
| | | | vernment covered (UCF | · | | | | | | | |
| 2000 | 50 | 0.077.177 | . | A 10 055 | A | | | | | | |
| 2000 | 50,256 | 2,871,489 | \$132,741,760 | \$46,228 | \$889 | | | | | | |
| 2001 | 50,993 | 2,752,619 | 134,713,843 | 48,940 | 941 | | | | | | |
| 2002 | 50,755 | 2,758,627 | 143,587,523 | 52,050 | 1,001 | | | | | | |
| | 51,753 | 2,764,275 | 149,932,170 | 54,239 | 1,043 | | | | | | |
| 2003 | | 2,739,596 | 158,299,427 | 57,782 | 1,111 | | | | | | |
| | อ∠.บทท | | | | ., | | | | | | |
| 2004 | 52,066 52.895 | | | 59.864 | 1.151 | | | | | | |
| 2004 | 52,895 | 2,733,675 | 163,647,568 | 59,864 62,274 | 1,151 1.198 | | | | | | |
| 2004 2005 2006 | 52,895 52,916 | 2,733,675 2,728,974 | 163,647,568 169,945,269 | 62,274 | 1,198 | | | | | | |
| 2004 | 52,895 52,916 63,699 | 2,733,675 2,728,974 2,726,300 | 163,647,568 169,945,269 176,857,794 | 62,274 64,871 | 1,198 1,248 | | | | | | |
| 2003 | 52,895 52,916 | 2,733,675 2,728,974 | 163,647,568 169,945,269 | 62,274 | 1,198 | | | | | | |

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 2009

| | | | | | Size | of establishn | nents | | | |
|--|-------------|-----------------------------------|-------------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------------|
| Industry, establishments, and employment | Total | Fewer than 5 workers ¹ | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 to 499 workers | 500 to 999 workers | 1,000 or more workers |
| - | | | | | | | | | | |
| Total all industries ² Establishments, first quarter Employment, March | 8,673,470 | 5,396,379 | 1,372,066 | 917,124 | 619,710 | 208,342 | 116,230 | 28,460 | 10,018 | 5,141 |
| | 106,811,928 | 7,655,167 | 9,090,916 | 12,402,665 | 18,661,722 | 14,311,905 | 17,267,316 | 9,739,523 | 6,812,850 | 10,869,864 |
| Natural resources and mining Establishments, first quarter Employment, March | 125,678 | 71,920 | 23,395 | 14,867 | 9,674 | 3,218 | 1,798 | 557 | 189 | 60 |
| | 1,671,238 | 114,506 | 154,613 | 200,225 | 290,721 | 219,346 | 272,879 | 190,717 | 127,225 | 101,006 |
| Construction Establishments, first quarter Employment, March | 841,895 | 593,637 | 117,797 | 69,486 | 42,421 | 12,009 | 5,208 | 1,004 | 254 | 79 |
| | 5,927,257 | 750,065 | 771,369 | 934,164 | 1,265,441 | 817,103 | 768,721 | 335,349 | 170,276 | 114,769 |
| Manufacturing Establishments, first quarter Employment, March | 353,643 | 145,720 | 59,845 | 52,049 | 48,545 | 22,752 | 16,627 | 5,187 | 1,972 | 946 |
| | 12,092,961 | 244,232 | 401,010 | 715,491 | 1,510,229 | 1,588,920 | 2,528,984 | 1,779,448 | 1,333,297 | 1,991,350 |
| Trade, transportation, and utilities Establishments, first quarter Employment, March | 1,894,905 | 1,033,036 | 375,292 | 246,643 | 148,518 | 49,772 | 32,487 | 7,193 | 1,500 | 464 |
| | 24,586,392 | 1,677,443 | 2,499,579 | 3,315,288 | 4,451,666 | 3,466,697 | 4,754,309 | 2,475,362 | 986,198 | 959,850 |
| Information Establishments, first quarter Employment, March | 146,483 | 86,433 | 20,709 | 15,824 | 13,049 | 5,437 | 3,310 | 1,046 | 458 | 217 |
| | 2,855,390 | 116,231 | 137,955 | 215,809 | 401,856 | 374,575 | 498,814 | 363,892 | 311,123 | 435,135 |
| Financial activities Establishments, first quarter Employment, March | 841,782 | 557,483 | 151,027 | 76,069 | 37,169 | 11,153 | 5,768 | 1,759 | 907 | 447 |
| | 7,643,521 | 858,488 | 993,689 | 1,001,354 | 1,107,323 | 763,190 | 864,862 | 608,781 | 630,533 | 815,301 |
| Professional and business services Establishments, first quarter Employment, March | 1,517,365 | 1,055,297 | 196,348 | 124,698 | 83,581 | 30,884 | 18,369 | 5,326 | 2,047 | 815 |
| | 16,516,273 | 1,410,994 | 1,290,519 | 1,682,005 | 2,542,519 | 2,131,798 | 2,769,134 | 1,819,751 | 1,394,329 | 1,475,224 |
| Education and health services Establishments, first quarter Employment, March | 858,136 | 417,186 | 184,310 | 120,602 | 78,973 | 28,774 | 20,050 | 4,427 | 1,976 | 1,838 |
| | 18,268,572 | 733,986 | 1,225,826 | 1,623,193 | 2,380,692 | 2,002,526 | 3,016,357 | 1,503,953 | 1,376,575 | 4,405,464 |
| Leisure and hospitality Establishments, first quarter Employment, March | 733,354 | 283,960 | 124,005 | 140,576 | 133,542 | 38,935 | 9,942 | 1,532 | 603 | 259 |
| | 12,723,443 | 448,520 | 837,732 | 1,973,561 | 4,006,199 | 2,578,345 | 1,402,865 | 518,812 | 411,444 | 545,965 |
| Other services Establishments, first quarter Employment, March | 1,193,934 | 988,947 | 116,718 | 55,617 | 24,052 | 5,381 | 2,663 | 428 | 112 | 16 |
| | 4,361,271 | 1,168,997 | 762,081 | 732,752 | 699,997 | 367,591 | 389,163 | 143,040 | 71,850 | 25,800 |

¹ Includes establishments that reported no workers in March 2009.

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 2008 and 2009 for all covered workers $\mbox{^{\sc i}}$ by metropolitan area

| | Average annual wages ³ | | | | | |
|---|--|--|---|--|--|--|
| Metropolitan area2 | 2008 | 2009 | Percent change, 2008-09 | | | |
| Metropolitan areas4 | \$47,194 | \$47,127 | -0.1 | | | |
| Abilene, TX | 32,649 | 32,807 | 0.5 | | | |
| Aguadilla-Isabela-San Sebastian, PR | 20,714 | 21,887 | 5.7 | | | |
| Akron, OH | 40,376 | 40,447 | 0.2 | | | |
| Albany, GA | 34,314 | 35,160 | 2.5 | | | |
| Albany-Schenectady-Troy, NY Albuquerque, NM Alexandria, LA Allentown-Bethlehem-Easton, PA-NJ Altoona, PA Amarillo, TX | 43,912 | 44,859 | 2.2 | | | |
| | 39,342 | 40,301 | 2.4 | | | |
| | 34,783 | 35,446 | 1.9 | | | |
| | 42,500 | 42,577 | 0.2 | | | |
| | 32,986 | 33,827 | 2.5 | | | |
| | 38,215 | 37,938 | -0.7 | | | |
| Ames, IA Anchorage, AK Anderson, IN Anderson, SC Ann Arbor, MI Anniston-Oxford, AL Appleton, WI Asheville, NC Athens-Clarke County, GA Atlanta-Sandy Springs-Marietta, GA | 38,558 | 39,301 | 1.9 | | | |
| | 46,935 | 48,345 | 3.0 | | | |
| | 31,326 | 31,363 | 0.1 | | | |
| | 32,322 | 32,599 | 0.9 | | | |
| | 48,987 | 48,925 | -0.1 | | | |
| | 36,227 | 36,773 | 1.5 | | | |
| | 37,522 | 37,219 | -0.8 | | | |
| | 34,070 | 34,259 | 0.6 | | | |
| | 35,503 | 35,948 | 1.3 | | | |
| | 48,064 | 48,156 | 0.2 | | | |
| Atlantic City, NJ Auburn-Opelika, AL Augusta-Richmond County, GA-SC Austin-Round Rock, TX Bakersfield, CA Baltimore-Towson, MD Bangor, ME Barnstable Town, MA Batton Rouge, LA Battle Creek, MI | 40,337 32,651 38,068 47,355 39,476 48,438 33,829 38,839 41,961 42,782 | 39,810 33,367 38,778 47,183 40,046 49,214 34,620 38,970 42,677 43,555 | -1.3 2.2 1.9 -0.4 1.4 1.6 2.3 0.3 1.7 | | | |
| Bay City, MI Beaumont-Port Arthur, TX Bealingham, WA Bend, OR Billings, MT Bilings, MT Binghamton, NY Birmingham-Hoover, AL Bismarck, ND Blacksburg-Christiansburg-Radford, VA Bloomington, IN | 36,489 | 36,940 | 1.2 | | | |
| | 43,302 | 43,224 | -0.2 | | | |
| | 35,864 | 36,757 | 2.5 | | | |
| | 35,044 | 35,336 | 0.8 | | | |
| | 36,155 | 36,660 | 1.4 | | | |
| | 37,731 | 38,200 | 1.2 | | | |
| | 43,651 | 43,783 | 0.3 | | | |
| | 35,389 | 36,082 | 2.0 | | | |
| | 35,272 | 35,344 | 0.2 | | | |
| | 33,220 | 33,828 | 1.8 | | | |
| Bloomington-Normal, IL Boise City-Nampa, ID Boston-Cambridge-Quincy, MA-NH Boulder, CO Bowling Green, KY Bremerton-Silverdale, WA Bridgeport-Stamford-Norwalk, CT Brownsville-Harlingen, TX Brunswick, GA Buffalo-Niagara Falls, NY | 43,918 | 44,925 | 2.3 | | | |
| | 37,315 | 37,410 | 0.3 | | | |
| | 61,128 | 60,549 | -0.9 | | | |
| | 53,455 | 52,433 | -1.9 | | | |
| | 34,861 | 34,824 | -0.1 | | | |
| | 40,421 | 42,128 | 4.2 | | | |
| | 80,018 | 77,076 | -3.7 | | | |
| | 28,342 | 28,855 | 1.8 | | | |
| | 34,458 | 34,852 | 1.1 | | | |
| | 38,984 | 39,218 | 0.6 | | | |
| Burlington, NC Burlington-South Burlington, VT Canton-Massillon, OH Cape Coral-Fort Myers, FL Carson City, NV Casper, WY Cedar Rapids, IA Champaign-Urbana, IL Charleston, WV Charleston-North Charleston, SC | 34,283 | 33,094 | -3.5 | | | |
| | 43,559 | 44,101 | 1.2 | | | |
| | 34,897 | 34,726 | -0.5 | | | |
| | 37,866 | 37,641 | -0.6 | | | |
| | 43,858 | 44,532 | 1.5 | | | |
| | 43,851 | 42,385 | -3.3 | | | |
| | 42,356 | 41,874 | -1.1 | | | |
| | 37,408 | 38,478 | 2.9 | | | |
| | 40,442 | 41,436 | 2.5 | | | |
| | 38,035 | 38,766 | 1.9 | | | |
| Charlotte-Gastonia-Concord, NC-SC Charlottesville, VA Chattanooga, TN-GA Cheyenne, WY Chicago-Naperville-Joliet, IL-IN-WI Chico, CA Cincinnati-Middletown, OH-KY-IN Clarksville, TN-KY Cleveland, TN Cleveland-Elyria-Mentor, OH | 47,332 | 46,291 | -2.2 | | | |
| | 41,777 | 42,688 | 2.2 | | | |
| | 37,258 | 37,839 | 1.6 | | | |
| | 37,452 | 38,378 | 2.5 | | | |
| | 51,775 | 51,048 | -1.4 | | | |
| | 34,310 | 35,179 | 2.5 | | | |
| | 43,801 | 44,012 | 0.5 | | | |
| | 32,991 | 33,282 | 0.9 | | | |
| | 35,010 | 35,029 | 0.1 | | | |
| | 43,467 | 43,256 | -0.5 | | | |
| Coeur d'Alene, ID College Station-Bryan, TX Colorado Springs, CO Columbia, MO Columbia, SC Columbus, GA-AL Columbus, IN Columbus, OH Corpus Christi, TX Corvallis, OR | 31,353 | 31,513 | 0.5 | | | |
| | 33,967 | 34,332 | 1.1 | | | |
| | 40,973 | 41,885 | 2.2 | | | |
| | 34,331 | 35,431 | 3.2 | | | |
| | 37,514 | 38,314 | 2.1 | | | |
| | 35,067 | 35,614 | 1.6 | | | |
| | 42,610 | 41,540 | -2.5 | | | |
| | 43,533 | 43,877 | 0.8 | | | |
| | 38,771 | 38,090 | -1.8 | | | |
| | 42,343 | 42,700 | 0.8 | | | |

26. Continued — Average annual wages for 2008 and 2009 for all covered workers' by metropolitan area

| | Average annual wages ³ | | | | |
|---|--|--|---|--|--|
| Metropolitan area ² | 2008 | 2009 | Percent change, 2008-09 | | |
| Cumberland, MD-WV Dallas-Fort Worth-Arlington, TX Dalton, GA Danville, IL Danville, IL Danville, VA Davenport-Moline-Rock Island, IA-IL Dayton, OH Decatur, AL Decatur, IL Deltona-Daytona Beach-Ormond Beach, FL | \$32,583 | \$33,409 | 2.5 | | |
| | 50,331 | 49,965 | -0.7 | | |
| | 34,403 | 35,024 | 1.8 | | |
| | 35,602 | 35,552 | -0.1 | | |
| | 30,580 | 30,778 | 0.6 | | |
| | 40,425 | 40,790 | 0.9 | | |
| | 40,824 | 40,972 | 0.4 | | |
| | 36,855 | 37,145 | 0.8 | | |
| | 42,012 | 41,741 | -0.6 | | |
| | 32,938 | 33,021 | 0.3 | | |
| Denver-Aurora, CO Des Moines, IA Detroit-Warren-Livonia, MI Dothan, AL Dover, DE Dubuque, IA Duluth, MN-WI Durham, NC Eau Claire, WI EI Centro, CA | 51,270 | 51,733 | 0.9 | | |
| | 43,918 | 44,073 | 0.4 | | |
| | 50,081 | 48,821 | -2.5 | | |
| | 32,965 | 33,888 | 2.8 | | |
| | 36,375 | 37,039 | 1.8 | | |
| | 35,656 | 35,665 | 0.0 | | |
| | 36,307 | 36,045 | -0.7 | | |
| | 53,700 | 54,857 | 2.2 | | |
| | 33,549 | 34,186 | 1.9 | | |
| | 33,239 | 34,220 | 3.0 | | |
| Elizabethtown, KY Elkhart-Goshen, IN Elmira, NY El Paso, TX Erie, PA Eugene-Springfield, OR Evansville, IN-KY Fairbanks, AK Fajardo, PR Fargo, ND-MN | 33,728 | 34,970 | 3.7 | | |
| | 35,858 | 35,823 | -0.1 | | |
| | 36,984 | 36,995 | 0.0 | | |
| | 31,837 | 32,665 | 2.6 | | |
| | 35,992 | 35,995 | 0.0 | | |
| | 35,380 | 35,497 | 0.3 | | |
| | 38,304 | 38,219 | -0.2 | | |
| | 44,225 | 45,328 | 2.5 | | |
| | 22,984 | 23,467 | 2.1 | | |
| | 36,745 | 37,309 | 1.5 | | |
| Farmington, NM Fayetteville, NC Fayetteville-Springdale-Rogers, AR-MO Flagstaff, AZ Flint, MI Florence, SC Florence-Muscle Shoals, AL Fond du Lac, WI Fort Collins-Loveland, CO Fort Smith, AR-OK | 41,155 | 40,437 | -1.7 | | |
| | 34,619 | 35,755 | 3.3 | | |
| | 39,025 | 40,265 | 3.2 | | |
| | 35,353 | 36,050 | 2.0 | | |
| | 39,206 | 38,682 | -1.3 | | |
| | 34,841 | 35,509 | 1.9 | | |
| | 32,088 | 32,471 | 1.2 | | |
| | 36,166 | 35,667 | -1.4 | | |
| | 40,154 | 40,251 | 0.2 | | |
| | 32,130 | 32,004 | -0.4 | | |
| Fort Walton Beach-Crestview-Destin, FL Fort Wayne, IN Fresno, CA Gadsden, AL Gainesville, FL Gainesville, GA Glens Falls, NY Goldsboro, NC Grand Forks, ND-MN Grand Junction, CO | 36,454 | 37,823 | 3.8 | | |
| | 36,806 | 37,038 | 0.6 | | |
| | 36,038 | 36,427 | 1.1 | | |
| | 31,718 | 32,652 | 2.9 | | |
| | 37,282 | 38,863 | 4.2 | | |
| | 37,929 | 37,924 | 0.0 | | |
| | 34,531 | 35,215 | 2.0 | | |
| | 30,607 | 30,941 | 1.1 | | |
| | 32,207 | 33,455 | 3.9 | | |
| | 39,246 | 38,450 | -2.0 | | |
| Grand Rapids-Wyoming, MI Great Falls, MT Greeley, CO Green Bay, WI Greensboro-High Point, NC Greenville, NC Greenville, NC Guayama, PR Gulfport-Biloxi, MS Hagerstown-Martinsburg, MD-WV | 31,962 38,700 39,247 37,919 34,672 37,592 27,189 | 40,341 32,737 37,656 39,387 38,020 35,542 37,921 28,415 36,251 36,459 | 1.2 2.4 -2.7 0.4 0.3 2.5 0.9 4.5 1.5 | | |
| Hanford-Corcoran, CA Harrisburg-Carlisle, PA Harrisonburg, VA Harrisonburg, VA Harrisonburg, VA Harrisonburg, VA Hartford-West Hartford-East Hartford, CT Hattiesburg, MS Hickory-Lenoir-Morganton, NC Hinesville-Fort Stewart, GA Holland-Grand Haven, MI Honolulu, HI Hot Springs, AR | 35,374 | 35,402 | 0.1 | | |
| | 42,330 | 43,152 | 1.9 | | |
| | 34,197 | 34,814 | 1.8 | | |
| | 54,446 | 54,534 | 0.2 | | |
| | 31,629 | 32,320 | 2.2 | | |
| | 32,810 | 32,429 | -1.2 | | |
| | 33,854 | 35,032 | 3.5 | | |
| | 37,953 | 37,080 | -2.3 | | |
| | 42,090 | 42,814 | 1.7 | | |
| | 29,042 | 29,414 | 1.3 | | |
| Houma-Bayou Cane-Thibodaux, LA Houston-Baytown-Sugar Land, TX Huntington-Ashland, WV-KY-OH Huntsville, AL Idaho Falls, ID Indianapolis, IN Iowa City, IA Ithaca, NY Jackson, MI Jackson, MS | 44,345 55,407 35,717 47,427 30,485 43,128 39,070 41,689 38,672 36,730 | 44,264 54,779 36,835 49,240 30,875 43,078 39,703 42,779 38,635 37,118 | -0.2 -1.1 3.1 3.8 1.3 -0.1 1.6 2.6 -0.1 | | |

26. Continued — Average annual wages for 2008 and 2009 for all covered workers by metropolitan area

| | Average annual wages ³ | | | | |
|---|--|--|---|--|--|
| Metropolitan area ² | 2008 | 2009 | Percent change, 2008-09 | | |
| Jackson, TN | \$35,975 | \$35,959 | 0.0 | | |
| | 41,524 | 41,804 | 0.7 | | |
| | 27,893 | 29,006 | 4.0 | | |
| | 36,906 | 36,652 | -0.7 | | |
| | 33,766 | 34,474 | 2.1 | | |
| | 32,759 | 33,949 | 3.6 | | |
| | 32,464 | 33,238 | 2.4 | | |
| | 31,532 | 31,793 | 0.8 | | |
| | 32,156 | 32,741 | 1.8 | | |
| | 40,333 | 40,044 | -0.7 | | |
| Kankakee-Bradley, IL Kansas City, MO-KS Kennewick-Richland-Pasco, WA Killeen-Temple-Fort Hood, TX Kingsport-Bristol-Bristol, TN-VA Kingston, NY Knoxville, TN Kokomo, IN La Crosse, WI-MN Lafayette, IN | 34,451 | 34,539 | 0.3 | | |
| | 44,155 | 44,331 | 0.4 | | |
| | 41,878 | 43,705 | 4.4 | | |
| | 34,299 | 35,674 | 4.0 | | |
| | 37,260 | 37,234 | -0.1 | | |
| | 35,883 | 36,325 | 1.2 | | |
| | 38,912 | 39,353 | 1.1 | | |
| | 44,117 | 42,248 | -4.2 | | |
| | 34,078 | 34,836 | 2.2 | | |
| | 37,832 | 38,313 | 1.3 | | |
| Lafayette, LA Lake Charles, LA Lakeland, FL Lancaster, PA Lansing-East Lansing, MI Laredo, TX Las Cruces, NM Las Vegas-Paradise, NV Lawrence, KS Lawton, OK | 42,748 | 42,050 | -1.6 | | |
| | 39,982 | 39,263 | -1.8 | | |
| | 35,195 | 35,485 | 0.8 | | |
| | 38,127 | 38,328 | 0.5 | | |
| | 42,339 | 42,764 | 1.0 | | |
| | 29,572 | 29,952 | 1.3 | | |
| | 32,894 | 34,264 | 4.2 | | |
| | 43,120 | 42,674 | -1.0 | | |
| | 32,313 | 32,863 | 1.7 | | |
| | 32,258 | 33,206 | 2.9 | | |
| Lebanon, PA Lewiston, ID-WA Lewiston, Auburn, ME Lexington-Fayette, KY Lima, OH Lincoln, NE Little Rock-North Little Rock, AR Logan, UT-ID Logyiew, TX Longview, WA | 33,900 | 34,416 | 1.5 | | |
| | 32,783 | 32,850 | 0.2 | | |
| | 34,396 | 34,678 | 0.8 | | |
| | 40,034 | 40,446 | 1.0 | | |
| | 35,381 | 36,224 | 2.4 | | |
| | 35,834 | 36,281 | 1.2 | | |
| | 38,902 | 40,331 | 3.7 | | |
| | 29,392 | 29,608 | 0.7 | | |
| | 38,902 | 38,215 | -1.8 | | |
| | 37,806 | 38,300 | 1.3 | | |
| Los Angeles-Long Beach-Santa Ana, CA Louisville, KY-IN Lubbock, TX Lubbock, TX Lynchburg, VA Macon, GA Madera, CA Madison, WI Manchester-Nashua, NH Mansfield, OH Mayaguez, PR | 51,520 | 51,344 | -0.3 | | |
| | 40,596 | 41,101 | 1.2 | | |
| | 33,867 | 34,318 | 1.3 | | |
| | 35,207 | 35,503 | 0.8 | | |
| | 34,823 | 35,718 | 2.6 | | |
| | 34,405 | 34,726 | 0.9 | | |
| | 42,623 | 42,861 | 0.6 | | |
| | 50,629 | 49,899 | -1.4 | | |
| | 33,946 | 33,256 | -2.0 | | |
| | 22,394 | 23,634 | 5.5 | | |
| McAllen-Edinburg-Pharr, TX Medford, OR Memphis, TN-MS-AR Merced, CA Miami-Fort Lauderdale-Miami Beach, FL Michigan City-La Porte, IN Midland, TX Milwaukee-Waukesha-West Allis, WI Minneapolis-St. Paul-Bloomington, MN-WI Missoula, MT | 28,498 | 29,197 | 2.5 | | |
| | 33,402 | 34,047 | 1.9 | | |
| | 43,124 | 43,318 | 0.4 | | |
| | 33,903 | 34,284 | 1.1 | | |
| | 44,199 | 44,514 | 0.7 | | |
| | 33,507 | 33,288 | -0.7 | | |
| | 50,116 | 47,557 | -5.1 | | |
| | 44,462 | 44,446 | 0.0 | | |
| | 51,044 | 50,107 | -1.8 | | |
| | 33,414 | 33,869 | 1.4 | | |
| Mobile, AL Modesto, CA Monroe, LA Monroe, MI Montgomery, AL Morgantown, WV Morristown, TN Mount Vernon-Anacortes, WA Muncie, IN Muskegon-Norton Shores, MI | 38,180 | 39,295 | 2.9 | | |
| | 37,867 | 38,657 | 2.1 | | |
| | 32,796 | 33,765 | 3.0 | | |
| | 41,849 | 41,055 | -1.9 | | |
| | 37,552 | 38,441 | 2.4 | | |
| | 37,082 | 38,637 | 4.2 | | |
| | 32,858 | 32,903 | 0.1 | | |
| | 36,230 | 37,098 | 2.4 | | |
| | 32,420 | 32,822 | 1.2 | | |
| | 36,033 | 35,654 | -1.1 | | |
| Myrtle Beach-Conway-North Myrtle Beach, SC Napa, CA Naples-Marco Island, FL Nashville-DavidsonMurfreesboro, TN New Haven-Milford, CT New Orleans-Metairie-Kenner, LA New York-Northern New Jersey-Long Island, NY-NJ-PA Nilles-Benton Harbor, MI Norwich-New London, CT Ocala, FL | 28,450 45,061 40,178 43,964 48,239 45,108 66,548 38,814 46,727 32,579 | 28,132 45,174 39,808 43,811 48,681 45,121 63,773 39,097 47,245 32,724 | -1.1 0.3 -0.9 -0.3 0.9 0.0 -4.2 0.7 1.1 | | |

26. Continued — Average annual wages for 2008 and 2009 for all covered workers $\mbox{^{:}}$ by metropolitan area

| | Average annual wages ³ | | | | | |
|---|--|--|--|--|--|--|
| Metropolitan area ² | 2008 | 2009 | Percent change, 2008-09 | | | |
| Ocean City, NJ Odessa, TX Ogden-Clearfield, UT Oklahoma City, OK Olympia, WA Omaha-Council Bluffs, NE-IA Orlando, FL Oshkosh-Neenah, WI Owensboro, KY Oxnard-Thousand Oaks-Ventura, CA | \$33,529 44,316 34,778 39,363 40,714 40,097 39,322 41,781 34,956 46,490 | \$33,477 42,295 35,562 39,525 41,921 40,555 39,225 41,300 35,264 47,066 | -0.2 -4.6 2.3 0.4 3.0 1.1 -0.2 -1.2 0.9 1.2 | | | |
| Palm Bay-Melbourne-Titusville, FL Panama City-Lynn Haven, FL Parkersburg-Marietta, WV-OH Pascagoula, MS Pensacola-Ferry Pass-Brent, FL Peoria, IL Philadelphia-Camden-Wilmington, PA-NJ-DE-MD Phoenix-Mesa-Scottsdale, AZ Pittsburgh, PA | 42,089 34,361 35,102 42,734 34,829 44,562 51,814 44,482 34,106 44,124 | 43,111 34,857 35,650 43,509 35,683 44,747 52,237 44,838 34,588 44,234 | 2.4 1.4 1.6 1.8 2.5 0.4 0.8 1.4 0.2 | | | |
| Pittsfield, MA Pocatello, ID Ponce, PR Portland-South Portland-Biddeford, ME Portland-Vancouver-Beaverton, OR-WA Port St. Lucie-Fort Pierce, FL Poughkeepsie-Newburgh-Middletown, NY Prescott, AZ Providence-New Bedford-Fall River, RI-MA Provo-Orem, UT | 38,957 30,608 21,818 39,711 45,326 36,174 42,148 33,004 42,141 35,516 | 38,690 30,690 22,556 40,012 45,544 36,130 43,054 32,927 42,428 35,695 | -0.7 0.3 3.4 0.8 0.5 -0.1 2.1 -0.2 0.7 | | | |
| Pueblo, CO Punta Gorda, FL Racine, WI Raleigh-Cary, NC Rapid City, SD Reading, PA Redding, CA Reno-Sparks, NV Richmond, VA Riverside-San Bernardino-Ontario, CA | 34,055 32,927 41,232 43,912 32,227 40,691 35,655 42,167 45,244 38,617 | 34,889 32,563 40,623 44,016 32,821 41,083 35,912 42,232 44,960 38,729 | 2.4 -1.1 -1.5 0.2 1.8 1.0 0.7 0.2 -0.6 0.3 | | | |
| Roanoke, VA Rochester, MN Rochester, NY Rockford, IL Rocky Mount, NC Rome, GA SacramentoArden-ArcadeRoseville, CA Saginaw-Saginaw Township North, MI St. Cloud, MN St. George, UT | 36,475 46,196 41,728 39,210 33,110 35,229 47,924 37,549 35,069 29,291 | 37,153 46,999 41,761 38,843 33,613 35,913 48,204 38,009 35,883 29,608 | 1.9 1.7 0.1 -0.9 1.5 1.9 0.6 1.2 2.3 | | | |
| St. Joseph, MO-KS St. Louis, MO-IL Salem, OR Salinas, CA Salisbury, MD Salt Lake City, UT San Angelo, TX San Antonio, TX San Diego-Carlsbad-San Marcos, CA Sandusky, OH | 32,651 45,419 34,891 40,235 35,901 41,628 32,852 38,876 49,079 33,760 | 33,555 44,080 35,691 40,258 36,396 42,613 33,043 39,596 49,240 33,117 | 2.8 -2.9 2.3 0.1 1.4 2.4 0.6 1.9 0.3 -1.9 | | | |
| San Francisco-Oakland-Fremont, CA San German-Cabo Rojo, PR San Jose-Sunnyvale-Santa Clara, CA San Juan-Caguas-Guaynabo, PR San Luis Obispo-Paso Robles, CA Santa Barbara-Santa Maria-Goleta, CA Santa Cruz-Watsonville, CA Santa Fe, NM Santa Rosa-Petaluma, CA Sarasota-Bradenton-Venice, FL | 65,100 19,875 80,063 26,839 38,134 42,617 41,471 38,646 43,757 36,781 | 65,367 20,452 79,609 27,620 38,913 43,257 40,880 39,536 43,274 36,856 | 0.4 2.9 -0.6 2.9 2.0 1.5 -1.4 2.3 -1.1 | | | |
| Savannah, GA Scranton-Wilkes-Barre, PA Seattle-Tacoma-Bellevue, WA Sheboygan, WI Sherman-Denison, TX Shreveport-Bossier City, LA Sioux City, IA-NE-SD Sioux Falls, SD South Bend-Mishawaka, IN-MI Spartanburg, SC | 37,846 34,902 53,667 37,834 36,081 36,308 34,326 36,982 37,654 39,313 | 38,343 35,404 54,650 38,114 36,151 36,706 34,087 37,562 37,811 39,104 | 1.3 1.4 1.8 0.7 0.2 1.1 -0.7 1.6 0.4 -0.5 | | | |

26. Continued — Average annual wages for 2008 and 2009 for all covered workers by metropolitan area

| | Avera | age annual w | ages ³ |
|--|--|--|---|
| Metropolitan area ² | 2008 | 2009 | Percent change, 2008-09 |
| Spokane, WA Springfield, IL Springfield, MA Springfield, MO Springfield, OH State College, PA Stockton, CA Sumter, SC Syracuse, NY Tallahassee, FL | \$36,792 44,416 40,969 32,971 33,158 38,050 39,075 30,842 40,554 37,433 | \$38,112 45,602 41,248 33,615 33,725 38,658 39,274 31,074 41,141 38,083 | 3.6 2.7 0.7 2.0 1.7 1.6 0.5 0.8 1.4 |
| Tampa-St. Petersburg-Clearwater, FL Terre Haute, IN Texarkana, TX-Texarkana, AR Toledo, OH Topeka, KS Trenton-Ewing, NJ Tucson, AZ Tulsa, OK Tuscaloosa, AL Tyler, TX | 40,521 | 41,480 | 2.4 |
| | 33,562 | 33,470 | -0.3 |
| | 35,002 | 35,288 | 0.8 |
| | 39,686 | 39,098 | -1.5 |
| | 36,714 | 37,651 | 2.6 |
| | 60,135 | 59,313 | -1.4 |
| | 39,973 | 40,071 | 0.2 |
| | 40,205 | 40,108 | -0.2 |
| | 37,949 | 38,309 | 0.9 |
| | 38,817 | 38,845 | 0.1 |
| Utica-Rome, NY Valdosta, GA Vallejo-Fairfield, CA Vero Beach, FL Victoria, TX Vineland-Miliville-Bridgeton, NJ Virginia Beach-Norfolk-Newport News, VA-NC Visalia-Porterville, CA Waco, TX Warner Robins, GA | 34,936 | 35,492 | 1.6 |
| | 29,288 | 29,661 | 1.3 |
| | 45,264 | 47,287 | 4.5 |
| | 36,557 | 35,937 | -1.7 |
| | 39,888 | 38,608 | -3.2 |
| | 40,709 | 41,145 | 1.1 |
| | 38,696 | 39,614 | 2.4 |
| | 32,018 | 32,125 | 0.3 |
| | 35,698 | 36,731 | 2.9 |
| | 40,457 | 41,820 | 3.4 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV Waterloo-Cedar Falls, IA Wausau, WI Weirton-Steubenville, WV-OH Wenatchee, WA Wheeling, WV-OH Wichita, KS Wichita Falls, TX Williamsport, PA Willmington, NC | 62,653 | 64,032 | 2.2 |
| | 37,363 | 37,919 | 1.5 |
| | 36,477 | 36,344 | -0.4 |
| | 35,356 | 34,113 | -3.5 |
| | 30,750 | 31,200 | 1.5 |
| | 32,915 | 33,583 | 2.0 |
| | 40,423 | 40,138 | -0.7 |
| | 34,185 | 33,698 | -1.4 |
| | 33,340 | 34,188 | 2.5 |
| | 35,278 | 36,204 | 2.6 |
| Winchester, VA-WV Winston-Salem, NC Worcester, MA Yakima, WA Yauco, PR York-Hanover, PA Youngstown-Warren-Boardman, OH-PA Yuba City, CA Yuma, AZ | 37,035 | 38,127 | 2.9 |
| | 39,770 | 39,874 | 0.3 |
| | 45,955 | 45,743 | -0.5 |
| | 30,821 | 31,366 | 1.8 |
| | 19,821 | 20,619 | 4.0 |
| | 39,379 | 39,798 | 1.1 |
| | 34,403 | 33,704 | -2.0 |
| | 36,538 | 37,289 | 2.1 |
| | 31,351 | 32,474 | 3.6 |

¹ Includes workers covered by Unemployment 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.

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.

 $^{^{\}rm 4}$ Totals do not include the six MSAs within Puerto Rico.

27. Annual data: Employment status of the population

[Numbers in thousands]

| Employment status | 2000 ¹ | 2001 ¹ | 2002 ¹ | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--------------------------------------|-------------------|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Civilian noninstitutional population | 212,577 | 215,092 | 217,570 | 221,168 | 223,357 | 226,082 | 228,815 | 231,867 | 233,788 | 235,801 | 237,830 |
| Civilian labor force | 142,583 | 143,734 | 144,863 | 146,510 | 147,401 | 149,320 | 151,428 | 153,124 | 154,287 | 154,142 | 153,889 |
| Labor force participation rate | 67.1 | 66.8 | 66.6 | 66.2 | 66.0 | 66.0 | 66.2 | 66.0 | 66.0 | 65.4 | 64.7 |
| Employed | 136,891 | 136,933 | 136,485 | 137,736 | 139,252 | 141,730 | 144,427 | 146,047 | 145,362 | 139,877 | 139,064 |
| Employment-population ratio | 64.4 | 63.7 | 62.7 | 62.3 | 62.3 | 62.7 | 63.1 | 63.0 | 62.2 | 59.3 | 58.5 |
| Unemployed | 5,692 | 6,801 | 8,378 | 8,774 | 8,149 | 7,591 | 7,001 | 7,078 | 8,924 | 14,265 | 14,825 |
| Unemployment rate | 4.0 | 4.7 | 5.8 | 6.0 | 5.5 | 5.1 | 4.6 | 4.6 | 5.8 | 9.3 | 9.6 |
| Not in the labor force | 69,994 | 71,359 | 72,707 | 74,658 | 75,956 | 76,762 | 77,387 | 78,743 | 79,501 | 81,659 | 83,941 |

¹ Not strictly comparable with prior years.

28. Annual data: Employment levels by industry

[In thousands]

| Industry | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total private employment | 110,995 | 110,708 | 108,828 | 108,416 | 109,814 | 111,899 | 114,113 | 115,380 | 114,281 | 108,252 | 107,337 |
| Total nonfarm employment | 131,785 | 131,826 | 130,341 | 129,999 | 131,435 | 133,703 | 136,086 | 137,598 | 136,790 | 130,807 | 129,818 |
| Goods-producing | 24,649 | 23,873 | 22,557 | 21,816 | 21,882 | 22,190 | 22,531 | 22,233 | 21,334 | 18,557 | 17,755 |
| Natural resources and mining | 599 | 606 | 583 | 572 | 591 | 628 | 684 | 724 | 767 | 694 | 705 |
| Construction | 6,787 | 6,826 | 6,716 | 6,735 | 6,976 | 7,336 | 7,691 | 7,630 | 7,162 | 6,016 | 5,526 |
| Manufacturing | 17,263 | 16,441 | 15,259 | 14,510 | 14,315 | 14,226 | 14,155 | 13,879 | 13,406 | 11,847 | 11,524 |
| Private service-providing | 86,346 | 86,834 | 86,271 | 86,600 | 87,932 | 89,709 | 91,582 | 93,147 | 92,947 | 89,695 | 89,582 |
| Trade, transportation, and utilities | 26,225 | 25,983 | 25,497 | 25,287 | 25,533 | 25,959 | 26,276 | 26,630 | 26,293 | 24,906 | 24,605 |
| Wholesale trade | 5,933 | 5,773 | 5,652 | 5,608 | 5,663 | 5,764 | 5,905 | 6,015 | 5,943 | 5,587 | 5,456 |
| Retail trade | 15,280 | 15,239 | 15,025 | 14,917 | 15,058 | 15,280 | 15,353 | 15,520 | 15,283 | 14,522 | 14,414 |
| Transportation and warehousing | 4,410 | 4,372 | 4,224 | 4,185 | 4,249 | 4,361 | 4,470 | 4,541 | 4,508 | 4,236 | 4,184 |
| Utilities | 601 | 599 | 596 | 577 | 564 | 554 | 549 | 553 | 559 | 560 | 552 |
| Information | 3,630 | 3,629 | 3,395 | 3,188 | 3,118 | 3,061 | 3,038 | 3,032 | 2,984 | 2,804 | 2,711 |
| Financial activities | 7,687 | 7,808 | 7,847 | 7,977 | 8,031 | 8,153 | 8,328 | 8,301 | 8,145 | 7,769 | 7,630 |
| Professional and business services | 16,666 | 16,476 | 15,976 | 15,987 | 16,394 | 16,954 | 17,566 | 17,942 | 17,735 | 16,579 | 16,688 |
| Education and health services | 15,109 | 15,645 | 16,199 | 16,588 | 16,953 | 17,372 | 17,826 | 18,322 | 18,838 | 19,193 | 19,564 |
| Leisure and hospitality | 11,862 | 12,036 | 11,986 | 12,173 | 12,493 | 12,816 | 13,110 | 13,427 | 13,436 | 13,077 | 13,020 |
| Other services | 5,168 | 5,258 | 5,372 | 5,401 | 5,409 | 5,395 | 5,438 | 5,494 | 5,515 | 5,367 | 5,364 |
| Government | 20,790 | 21,118 | 21,513 | 21,583 | 21,621 | 21,804 | 21,974 | 22,218 | 22,509 | 22,555 | 22,482 |

29. Annual data: Average hours and earnings of production or nonsupervisory workers on nonfarm payrolls, by industry

| payrolls, by industry | | | | | • | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------|---------------|---------------|---------------|
| Industry | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| Private sector: | | | | | | | | | | | |
| Average weekly hours | 34.3 | 34.0 | 33.9 | 33.7 | 33.7 | 33.8 | 33.9 | 33.9 | 33.6 | 33.1 | 33.4 |
| Average hourly earnings (in dollars) | 14.02 | 14.54 | 14.97 | 15.37 | 15.69 | 16.13 | 16.76 | 17.43 | 18.08 | 18.63 | 19.07 |
| Average weekly earnings (in dollars) | 481.01 | 493.79 | 506.75 | 518.06 | 529.09 | 544.33 | 567.87 | 590.04 | 607.95 | 617.18 | 636.91 |
| Goods-producing: Average weekly hours | 40.7 | 39.9 | 39.9 | 39.8 | 40.0 | 40.1 | 40.5 | 40.6 | 40.2 | 39.2 | 40.4 |
| Average hourly earnings (in dollars) | 15.27 | 15.78 | 16.33 | 16.80 | 17.19 | 17.60 | 18.02 | 18.67 | 19.33 | 19.90 | 20.28 |
| Average weekly earnings (in dollars) | 621.86 | 630.01 | 651.61 | 669.13 | 688.13 | 705.31 | 730.16 | 757.34 | 776.66 | 779.68 | 819.18 |
| Natural resources and mining | 021.00 | 000.01 | 001.01 | 000.10 | 000.10 | | 700.10 | 707.01 | 7.70.00 | | 0.00 |
| Average weekly hours | 44.4 | 44.6 | 43.2 | 43.6 | 44.5 | 45.6 | 45.6 | 45.9 | 45.1 | 43.2 | 44.6 |
| Average hourly earnings (in dollars) | 16.55 | 17.00 | 17.19 | 17.56 | 18.07 | 18.72 | 19.90 | 20.97 | 22.50 | 23.29 | 23.83 |
| Average weekly earnings (in dollars) | 734.92 | 757.92 | 741.97 | 765.94 | 803.82 | 853.71 | 907.95 | 962.64 | 1,014.69 | 1,006.67 | 1,063.28 |
| Construction: | | | | | | | | | | | |
| Average weekly hours | 39.2 | 38.7 | 38.4 | 38.4 | 38.3 | 38.6 | 39.0 | 39.0 | 38.5 | 37.6 | 38.4 |
| Average hourly earnings (in dollars) | 17.48 | 18.00 | 18.52 | 18.95 | 19.23 | 19.46 | 20.02 | 20.95 | 21.87 | 22.66 | 23.22 |
| Average weekly earnings (in dollars) | 685.78 | 695.89 | 711.82 | 726.83 | 735.55 | 750.22 | 781.21 | 816.66 | 842.61 | 851.76 | 891.85 |
| Manufacturing: | | | | | | | | | | | |
| Average weekly hours | 41.3 | 40.3 | 40.5 | 40.4 | 40.8 | 40.7 | 41.1 | 41.2 | 40.8 | 39.8 | 41.1 |
| Average hourly earnings (in dollars) | 14.32 | 14.76 | 15.29 | 15.74 | 16.14 | 16.56 | 16.81 | 17.26 | 17.75 | 18.24 | 18.61 |
| Average weekly earnings (in dollars) | 590.77 | 595.19 | 618.75 | 635.99 | 658.49 | 673.30 | 691.02 | 711.56 | 724.46 | 726.12 | 765.08 |
| Private service-providing: | | | | | | | | | | | |
| Average weekly hours | 32.7 | 32.5 | 32.5 | 32.3 | 32.3 | 32.4 | 32.5 | 32.4 | 32.3 | 32.1 | 32.2 |
| Average hourly earnings (in dollars) | 13.62 | 14.18 | 14.59 | 14.99 | 15.29 | 15.74 | 16.42 | 17.11 | 17.77 | 18.35 | 18.81 |
| Average weekly earnings (in dollars) | 445.74 | 461.08 | 473.80 | 484.68 | 494.22 | 509.58 | 532.78 | 554.89 | 574.35 | 588.20 | 606.11 |
| Trade, transportation, and utilities: | 00.0 | 00.5 | 00.0 | 00.0 | 00.5 | 00.4 | 00.4 | 00.0 | 00.0 | 00.0 | 00.0 |
| Average weekly hours Average hourly earnings (in dollars) | 33.8 13.31 | 33.5 13.70 | 33.6 14.02 | 33.6 14.34 | 33.5 14.58 | 33.4 14.92 | 33.4 15.39 | 33.3 15.78 | 33.2 16.16 | 32.9 16.48 | 33.3 16.83 |
| Average weekly earnings (in dollars) | 449.88 | 459.53 | 471.27 | 481.14 | 488.42 | 498.43 | 514.34 | 526.07 | 536.06 | 541.88 | 559.62 |
| Wholesale trade: | 443.00 | 400.00 | 7/1.2/ | 401.14 | 400.42 | 430.43 | 314.34 | 320.07 | 330.00 | 341.00 | 333.02 |
| Average weekly hours | 38.8 | 38.4 | 38.0 | 37.9 | 37.8 | 37.7 | 38.0 | 38.2 | 38.2 | 37.6 | 37.9 |
| Average hourly earnings (in dollars) | 16.28 | 16.77 | 16.98 | 17.36 | 17.65 | 18.16 | 18.91 | 19.59 | 20.13 | 20.84 | 21.53 |
| Average weekly earnings (in dollars) | 631.40 | 643.45 | 644.38 | 657.29 | 667.09 | 685.00 | 718.63 | 748.94 | 769.62 | 784.49 | 816.15 |
| Retail trade: | | | | | | | | | | | |
| Average weekly hours | 30.7 | 30.7 | 30.9 | 30.9 | 30.7 | 30.6 | 30.5 | 30.2 | 30.0 | 29.9 | 30.2 |
| Average hourly earnings (in dollars) | 10.86 | 11.29 | 11.67 | 11.90 | 12.08 | 12.36 | 12.57 | 12.75 | 12.87 | 13.01 | 13.24 |
| Average weekly earnings (in dollars) | 631.40 | 643.45 | 644.38 | 657.29 | 667.09 | 685.00 | 718.63 | 748.94 | 769.62 | 784.49 | 816.15 |
| Transportation and warehousing: | | | | | | | | | | | |
| Average weekly hours | 37.4 | 36.7 | 36.8 | 36.8 | 37.2 | 37.0 | 36.9 | 37.0 | 36.4 | 36.0 | 37.1 |
| Average hourly earnings (in dollars) | 15.05 | 15.33 | 15.76 | 16.25 | 16.52 | 16.70 | 17.28 | 17.72 | 18.41 | 18.81 | 19.17 |
| Average weekly earnings (in dollars) | 562.31 | 562.70 | 579.88 | 598.41 | 614.96 | 618.58 | 636.97 | 654.95 | 670.37 | 677.56 | 710.63 |
| Utilities: | | | | | | | | | | | |
| Average weekly hours | 42.0 | 41.4 | 40.9 | 41.1 | 40.9 | 41.1 | 41.4 | 42.4 | 42.7 | 42.0 | 42.1 |
| Average hourly earnings (in dollars) | 22.75 | 23.58 | 23.96 | 24.77 | 25.61 | 26.68 | 27.40 | 27.88 | 28.83 | 29.48 | 30.04 |
| Average weekly earnings (in dollars) | 955.66 | 977.18 | 979.09 | 1,017.27 | 1,048.44 | 1,095.90 | 1,135.34 | 1,182.65 | 1,230.69 | 1,239.37 | 1,263.33 |
| Information: Average weekly hours | 36.8 | 36.9 | 36.5 | 36.2 | 36.3 | 36.5 | 36.6 | 36.5 | 36.7 | 36.6 | 36.3 |
| Average hourly earnings (in dollars) | 19.07 | 19.80 | 20.20 | 21.01 | 21.40 | 22.06 | 23.23 | 23.96 | 24.78 | 25.45 | 25.86 |
| Average weekly earnings (in dollars) | 700.86 | 730.88 | 737.77 | 760.45 | 777.25 | 805.08 | 850.42 | 874.65 | 908.99 | 931.08 | 938.89 |
| Financial activities: | | | | | | | | | | | |
| Average weekly hours | 35.9 | 35.8 | 35.6 | 35.5 | 35.5 | 35.9 | 35.7 | 35.9 | 35.8 | 36.1 | 36.1 |
| Average hourly earnings (in dollars) | 14.98 | 15.59 | 16.17 | 17.14 | 17.52 | 17.95 | 18.80 | 19.64 | 20.28 | 20.85 | 21.49 |
| Average weekly earnings (in dollars) | 537.37 | 557.92 | 575.54 | 609.08 | 622.87 | 644.99 | 672.21 | 705.13 | 727.07 | 752.03 | 776.82 |
| Professional and business services: | | | | | | | | | | | |
| Average weekly hours | 34.5 | 34.2 | 34.2 | 34.1 | 34.2 | 34.2 | 34.6 | 34.8 | 34.8 | 34.7 | 35.1 |
| Average hourly earnings (in dollars) | 15.52 | 16.33 | 16.81 | 17.21 | 17.48 | 18.08 | 19.13 | 20.15 | 21.18 | 22.35 | 22.78 |
| Average weekly earnings (in dollars) | 535.07 | 557.84 | 574.66 | 587.02 | 597.56 | 618.87 | 662.27 | 700.82 | 737.70 | 775.81 | 798.59 |
| Education and health services: | | | | | | | | | | | |
| Average weekly hours | 32.2 | 32.3 | 32.4 | 32.3 | 32.4 | 32.6 | 32.5 | 32.6 | 32.5 | 32.2 | 32.1 |
| Average hourly earnings (in dollars) | 13.95 | 14.64 | 15.21 | 15.64 | 16.15 | 16.71 | 17.38 | 18.11 | 18.87 | 19.49 | 20.12 |
| Average weekly earnings (in dollars) | 449.29 | 473.39 | 492.74 | 505.69 | 523.78 | 544.59 | 564.94 | 590.09 | 613.73 | 628.45 | 646.52 |
| Leisure and hospitality: | | | | | | | | _ | | _ | _ |
| Average weekly hours | 26.1 | 25.8 | 25.8 | 25.6 | 25.7 | 25.7 | 25.7 | 25.5 | 25.2 | 24.8 | 24.8 |
| Average hourly earnings (in dollars) | 8.32 | 8.57 | 8.81 | 9.00 | 9.15 | 9.38 | 9.75 | 10.41 | 10.84 | 11.12 | 11.31 |
| Average weekly earnings (in dollars) | 217.20 | 220.73 | 227.17 | 230.42 | 234.86 | 241.36 | 250.34 | 265.52 | 273.39 | 275.95 | 280.87 |
| Other services: | 20.5 | 20.0 | 22.2 | 24.4 | 24.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.5 | 20.7 |
| Average weekly hours Average hourly earnings (in dollars) | 32.5 12.73 | 32.3 13.27 | 32.0 13.72 | 31.4 13.84 | 31.0 13.98 | 30.9 14.34 | 30.9 14.77 | 30.9 15.42 | 30.8 16.09 | 30.5 16.59 | 30.7 17.08 |
| Average nouny earnings (in dollars) Average weekly earnings (in dollars) | 413.41 | 428.64 | 439.76 | 434.41 | 433.04 | 443.37 | 456.50 | 477.06 | 495.57 | 506.26 | 524.01 |
| Average weekly earnings (in dollars) | 713.41 | 7∠0.04 | -JJ.10 | TJ4.41 | 700.04 | ++3.37 | +30.30 | - 111.00 | +33.37 | 500.20 | J24.UI |

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]

| | | 20 | 09 | | | 20 | 10 | | 2011 | Percen | t change |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Series | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | 3 months ended | 12 months ended |
| | | | | | | | | | | Mar | . 2011 |
| Civilian workers ² | 109.9 | 110.2 | 110.8 | 111.0 | 111.8 | 112.3 | 112.9 | 113.2 | 114.0 | 0.7 | 2.0 |
| Workers by occupational group | | | | | | | | | | | |
| Management, professional, and related | 110.9 | 111.0 | 111.5 | 111.6 | 112.4 | 112.8 | 113.4 | 113.7 | 114.7 | .9 | 2.0 |
| Management, business, and financial | 110.0 | 110.1 | 110.2 | 110.4 | 111.6 | 112.1 | 112.3 | 112.7 | 113.9 | 1.1 | 2.1 |
| Professional and related | 111.3 | 111.6 | 112.2 | 112.3 | 112.9 | 113.2 | 114.1 | 114.3 | 115.1 | .7 | 1.9 |
| Sales and office | 108.4 | 108.7 | 109.3 | 109.7 | 110.3 | 111.2 | 111.6 | 112.1 | 112.6 | .4 | 2.1 |
| Sales and related | 104.3 | 104.5 | 105.4 | 105.8 | 105.9 | 107.5 | 107.4 | 108.1 | 107.9 | 2 | 1.9 |
| Office and administrative support | 110.8 | 111.3 | 111.8 | 112.1 | 113.0 | 113.4 | 114.1 | 114.4 | 115.4 | .9 | 2.1 |
| Natural resources, construction, and maintenance | 110.1 | 110.6 | 111.2 | 111.5 | 112.5 | 112.9 | 113.4 | 113.6 | 114.2 | .5 | 1.5 |
| Construction and extraction | 111.0 | 111.6 | 112.2 | 112.5 | 113.1 | 113.7 | 114.4 | 114.5 | 114.9 | .3 | 1.6 |
| Installation, maintenance, and repair | 109.1 | 109.5 | 110.0 | 110.4 | 111.6 | 112.0 | 112.2 | 112.6 | 113.3 | .6 | 1.5 |
| Production, transportation, and material moving | 108.0 | 108.4 | 109.0 | 109.2 | 110.2 | 110.8 | 111.7 | 111.9 | 112.7 | .7 | 2.3 |
| Production | 107.2 | 107.6 | 108.1 | 108.3 | 109.6 | 110.0 | 110.8 | 110.9 | 111.8 | .8 | 2.0 |
| Transportation and material moving | 108.9 | 109.4 | 110.2 | 110.4 | 111.1 | 111.9 | 112.9 | 113.3 | 113.8 | .4 | 2.4 |
| Service occupations | 111.5 | 111.8 | 112.6 | 112.9 | 113.4 | 113.7 | 114.6 | 114.9 | 115.7 | .7 | 2.0 |
| Workers by industry | | | | | | | | | | | |
| Goods-producing | 108.0 | 108.2 | 108.4 | 108.6 | 109.8 | 110.3 | 111.0 | 111.1 | 112.1 | .9 | 2.1 |
| Manufacturing | 106.5 | 106.7 | 106.8 | 107.0 | 108.4 | 109.1 | 109.9 | 110.0 | 111.4 | 1.3 | 2.8 |
| Service-providing | 110.3 | 110.6 | 111.2 | 111.5 | 112.1 | 112.6 | 113.3 | 113.6 | 114.3 | .6 | 2.0 |
| Education and health services | 111.7 | 112.1 | 113.1 | 113.4 | 113.7 | 113.9 | 114.8 | 115.2 | 115.5 | .3 | 1.6 |
| Health care and social assistance | 111.7 | 112.2 | 112.8 | 113.1 | 113.7 | 114.1 | 114.6 | 115.0 | 115.5 | .4 | 1.6 |
| Hospitals | 111.7 | 112.2 | 112.9 | 113.4 | 114.1 | 114.7 | 115.2 | 115.9 | 116.5 | .5 | 2.1 |
| Nursing and residential care facilities | 110.3 | 110.7 | 111.2 | 111.4 | 111.9 | 112.2 | 112.7 | 112.7 | 113.4 | .6 | 1.3 |
| Education services | 111.8 | 112.1 | 113.5 | 113.6 | 113.7 | 113.8 | 115.1 | 115.3 | 115.5 | .2 | 1.6 |
| Elementary and secondary schools | 111.9 | 112.1 | 114.0 | 114.1 | 114.1 | 114.2 | 115.5 | 115.5 | 115.7 | .2 | 1.4 |
| Public administration ³ | 113.0 | 113.4 | 114.2 | 114.6 | 115.1 | 115.4 | 116.6 | 116.8 | 117.5 | .6 | 2.1 |
| Private industry workers | 109.3 | 109.6 | 110.0 | 110.2 | 111.1 | 111.7 | 112.2 | 112.5 | 113.3 | .7 | 2.0 |
| | | | | | | | | | | | |
| Workers by occupational group | 440.4 | 440.5 | 440.0 | 440.7 | 444.0 | 440.0 | 440.7 | 440.0 | 4444 | 4.0 | 0.4 |
| Management, professional, and related | 110.4 109.6 | 110.5 109.7 | 110.6 109.7 | 110.7 109.9 | 111.8 | 112.2 | 112.7 | 113.0 | 114.1 | 1.0 | 2.1 |
| Management, business, and financial Professional and related | 111.0 | 111.1 | 111.4 | 111.4 | 111.3 112.2 | 111.7 112.6 | 112.0 113.3 | 112.3 113.5 | 113.6 114.6 | 1.2 1.0 | 2.1 2.1 |
| Sales and office | 107.9 | 108.3 | 108.8 | 109.2 | 109.8 | 110.8 | 111.1 | 111.6 | 112.1 | .4 | 2.1 |
| Sales and related. | 107.3 | 100.5 | 105.3 | 105.8 | 105.8 | 10.5 | 107.4 | 108.1 | 107.8 | 3 | 1.9 |
| Office and administrative support | 110.5 | 110.9 | 111.3 | 111.6 | 112.6 | 113.1 | 113.7 | 114.0 | 115.1 | 1.0 | 2.2 |
| Natural resources, construction, and maintenance | 109.9 | 110.3 | 110.8 | 111.2 | 112.2 | 112.7 | 113.1 | 113.3 | 113.8 | .4 | 1.4 |
| Construction and extraction | 110.9 | 111.5 | 112.0 | 112.4 | 113.1 | 113.6 | 114.3 | 114.4 | 114.8 | .3 | 1.5 |
| Installation, maintenance, and repair | 108.6 | 108.9 | 109.4 | 109.8 | 111.1 | 111.5 | 111.6 | 111.9 | 112.6 | .6 | 1.4 |
| Production, transportation, and material moving | 107.7 | 108.1 | 108.6 | 108.9 | 109.9 | 110.5 | 111.3 | 111.5 | 112.2 | .6 | 2.1 |
| Production | 107.1 | 107.6 | 108.0 | 108.2 | 109.5 | 110.0 | 110.7 | 110.8 | 111.7 | .8 | 2.0 |
| Transportation and material moving | 108.4 | 108.9 | 109.6 | 109.7 | 110.4 | 111.2 | 112.2 | 112.5 | 113.0 | .4 | 2.4 |
| Service occupations | 110.7 | 110.9 | 111.7 | 111.8 | 112.4 | 112.7 | 113.3 | 113.5 | 114.5 | .9 | 1.9 |
| Workers by industry and occupational group | | | | | | | | | | | |
| Goods-producing industries | 107.9 | 108.2 | 108.4 | 108.6 | 109.7 | 110.3 | 111.0 | 111.1 | 112.0 | .8 | 2.1 |
| Management, professional, and related | 107.9 | 106.2 | 106.4 | 106.4 | 108.0 | 108.6 | 109.2 | 109.1 | 110.8 | 1.6 | 2.6 |
| Sales and office | 100.8 | 100.7 | 100.5 | 100.4 | 108.0 | 108.8 | 109.2 | 110.2 | 110.6 | .2 | 2.0 |
| Natural resources, construction, and maintenance | 110.4 | 110.9 | 111.3 | 111.7 | 112.6 | 113.0 | 113.6 | 113.7 | 114.2 | .4 | 1.4 |
| Production, transportation, and material moving | 107.0 | 107.5 | 107.8 | 108.0 | 109.3 | 109.8 | 110.6 | 110.8 | 111.6 | .7 | 2.1 |
| Construction | 110.9 | 111.2 | 111.5 | 111.7 | 112.1 | 112.3 | 112.8 | 112.7 | 112.8 | .1 | .6 |
| Manufacturing | 106.5 | 106.7 | 106.8 | 107.0 | 108.4 | 109.1 | 109.9 | 110.0 | 111.4 | 1.3 | 2.8 |
| Management, professional, and related | 105.7 | 105.7 | 105.4 | 105.5 | 107.2 | 108.0 | 108.8 | 108.8 | 110.9 | 1.9 | 3.5 |
| Sales and office | 107.3 | 107.0 | 107.2 | 107.5 | 108.1 | 109.0 | 110.3 | 110.8 | 112.2 | 1.3 | 3.8 |
| Natural resources, construction, and maintenance | 106.6 | 107.1 | 107.4 | 107.7 | 109.5 | 110.1 | 110.9 | 110.9 | 112.0 | 1.0 | 2.3 |
| Production, transportation, and material moving | 106.7 | 107.2 | 107.5 | 107.7 | 109.1 | 109.6 | 110.3 | 110.5 | 111.4 | .8 | 2.1 |
| Service-providing industries | 109.8 | 110.1 | 110.5 | 110.8 | 111.6 | 112.1 | 112.6 | 113.0 | 113.8 | .7 | 2.0 |
| Management, professional, and related | 111.1 | 111.2 | 111.4 | 111.6 | 112.5 | 112.9 | 113.4 | 113.7 | 114.8 | 1.0 | 2.0 |
| Sales and office | 108.0 | 108.4 | 109.0 | 109.4 | 110.0 | 111.0 | 111.3 | 111.8 | 112.3 | .4 | 2.1 |
| Natural resources, construction, and maintenance | 109.0 | 109.5 | 110.1 | 110.4 | 111.7 | 112.2 | 112.2 | 112.6 | 113.2 | .5 | 1.3 |
| Production, transportation, and material moving | 108.5 | 109.0 | 109.7 | 109.9 | 110.6 | 111.3 | 112.3 | 112.5 | 113.1 | .5 | 2.3 |
| Contino acquinations | 110.7 | 111.0 | 111.7 | 111.9 | 112.4 | 112.7 | 113.3 | 113.5 | 114.5 | .9 | 1.9 |
| Service occupations | | | | | | | | | | | |

30. Continued—Employment Cost Index, compensation, by occupation and industry group

[December 2005 = 100]

| | | 20 | 09 | | | 20 | 10 | | 2011 | 11 Percent change | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-----------------|
| Series | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | 3 months ended | 12 months ended |
| | | | | | | | | | | Mar. | 2011 |
| Wholesale trade | 107.1 | 106.9 | 106.8 | 107.0 | 108.0 | 108.9 | 108.7 | 109.5 | 109.9 | 0.4 | 1.8 |
| Retail trade | 108.3 | 108.8 | 109.7 | 110.0 | 110.9 | 111.9 | 112.0 | 112.0 | 112.4 | .4 | 1.4 |
| Transportation and warehousing | 107.4 | 107.9 | 108.3 | 108.2 | 109.0 | 110.0 | 110.9 | 111.3 | 112.5 | 1.1 | 3.2 |
| Utilities | 109.6 | 110.9 | 111.2 | 112.0 | 115.3 | 117.0 | 117.8 | 117.5 | 119.3 | 1.5 | 3.5 |
| Information | 107.7 | 107.5 | 108.0 | 108.3 | 109.0 | 109.8 | 110.2 | 110.0 | 111.6 | 1.5 | 2.4 |
| Financial activities | 106.8 | 107.9 | 108.3 | 108.6 | 109.8 | 110.5 | 110.6 | 111.4 | 112.9 | 1.3 | 2.8 |
| Finance and insurance | 106.9 | 108.1 | 108.6 | 108.8 | 110.0 | 111.0 | 111.0 | 111.8 | 113.3 | 1.3 | 3.0 |
| Real estate and rental and leasing | 106.6 | 106.9 | 107.4 | 107.7 | 109.0 | 108.4 | 108.8 | 109.4 | 110.8 | 1.3 | 1.7 |
| Professional and business services | 111.9 | 111.9 | 112.0 | 112.4 | 113.0 | 113.4 | 114.0 | 114.6 | 115.5 | .8 | 2.2 |
| Education and health services | 111.5 | 111.9 | 112.6 | 112.8 | 113.3 | 113.7 | 114.3 | 114.7 | 115.1 | .3 | 1.6 |
| Education services | 111.9 | 112.0 | 113.2 | 113.2 | 113.2 | 113.3 | 114.7 | 115.0 | 115.2 | .2 | 1.8 |
| Health care and social assistance | 111.5 | 111.9 | 112.5 | 112.8 | 113.3 | 113.7 | 114.2 | 114.6 | 115.0 | .3 | 1.5 |
| Hospitals | 111.5 | 112.0 | 112.6 | 113.2 | 113.9 | 114.5 | 115.0 | 115.6 | 116.2 | .5 | 2.0 |
| Leisure and hospitality | 112.2 | 112.0 | 112.7 | 112.7 | 113.4 | 113.4 | 113.9 | 114.1 | 114.5 | .4 | 1.0 |
| Accommodation and food services | 113.0 | 112.6 | 113.4 | 113.5 | 114.0 | 114.1 | 114.6 | 114.8 | 115.4 | .5 | 1.2 |
| Other services, except public administration | 110.8 | 110.8 | 111.8 | 111.5 | 112.1 | 112.7 | 113.3 | 113.2 | 114.4 | 1.1 | 2.1 |
| State and local government workers | 112.3 | 112.8 | 113.9 | 114.2 | 114.5 | 114.7 | 115.9 | 116.2 | 116.6 | .3 | 1.8 |
| Workers by occupational group | | | | | | | | | | | |
| Management, professional, and related | 112.0 | 112.5 | 113.6 | 113.8 | 114.0 | 114.2 | 115.3 | 115.5 | 115.9 | .3 | 1.7 |
| Professional and related | 111.9 | 112.4 | 113.6 | 113.9 | 114.0 | 114.2 | 115.3 | 115.5 | 115.9 | .3 | 1.7 |
| Sales and office | 112.4 | 112.8 | 114.1 | 114.4 | 115.0 | 115.2 | 116.4 | 116.6 | 117.1 | .4 | 1.8 |
| Office and administrative support | 112.8 | 113.1 | 114.4 | 114.7 | 115.3 | 115.6 | 116.8 | 116.9 | 117.5 | .5 | 1.9 |
| Service occupations | 113.4 | 113.8 | 114.7 | 115.3 | 115.8 | 116.2 | 117.6 | 118.0 | 118.5 | .4 | 2.3 |
| Workers by industry | | | | | | | | | | | |
| Education and health services | 111.9 | 112.4 | 113.7 | 113.9 | 114.0 | 114.2 | 115.4 | 115.6 | 115.9 | .3 | 1.7 |
| Education services | 111.8 | 112.1 | 113.5 | 113.7 | 113.8 | 113.9 | 115.1 | 115.3 | 115.5 | .2 | 1.5 |
| Schools | 111.8 | 112.1 | 113.5 | 113.7 | 113.8 | 113.9 | 115.1 | 115.3 | 115.5 | .2 | 1.5 |
| Elementary and secondary schools | 112.0 | 112.2 | 114.0 | 114.1 | 114.1 | 114.3 | 115.6 | 115.6 | 115.8 | .2 | 1.5 |
| Health care and social assistance | 113.3 | 114.6 | 115.1 | 115.4 | 115.9 | 116.3 | 117.2 | 117.9 | 119.0 | .9 | 2.7 |
| Hospitals | 112.4 | 113.4 | 113.9 | 114.3 | 115.1 | 115.6 | 116.1 | 117.0 | 118.2 | 1.0 | 2.7 |
| Public administration ³ | 113.0 | 113.4 | 114.2 | 114.6 | 115.1 | 115.4 | 116.6 | 116.8 | 117.5 | .6 | 2.1 |

¹ Cost (cents per hour worked) measured in the Employment Cost Index consists of

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.

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.

31. Employment Cost Index, wages and salaries, by occupation and industry group [December 2005 = 100]

| | | 20 | 09 | | | 20 | 10 | | 2011 | Percent | change |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Series | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | 3 months ended | 12 months ended |
| | | | | | | | | | | Mar. | 2011 |
| Civilian workers ¹ | 110.0 | 110.3 | 110.9 | 111.2 | 111.6 | 112.1 | 112.6 | 113.0 | 113.4 | 0.4 | 1.6 |
| Workers by occupational group | | | | | | | | | | | |
| Management, professional, and related | 111.0 | 111.1 | 111.5 | 111.7 | 112.4 | 112.8 | 113.4 | 113.7 | 114.2 | .4 | 1.6 |
| Management, business, and financial | 110.4 | 110.5 | 110.6 | 110.9 | 112.1 | 112.6 | 112.8 | 113.2 | 113.9 | .6 | 1.6 |
| Professional and related | 111.2 108.1 | 111.5 108.6 | 112.1 109.2 | 112.2 109.6 | 112.7 109.9 | 112.9 110.8 | 113.7 111.1 | 113.9 111.7 | 114.4 111.7 | .4 | 1.5 1.6 |
| Sales and office | 104.3 | 106.6 | 109.2 | 106.2 | 109.9 | 10.8 | 107.7 | 108.6 | 107.8 | 7 | 1.5 |
| Office and administrative support | 110.6 | 111.1 | 111.5 | 111.9 | 112.3 | 112.7 | 113.3 | 113.6 | 114.3 | .6 | 1.8 |
| Natural resources, construction, and maintenance | 110.7 | 111.2 | 111.7 | 112.1 | 112.6 | 112.9 | 113.2 | 113.4 | 113.8 | .4 | 1.1 |
| Construction and extraction | 111.4 | 111.7 | 112.3 | 112.7 | 112.8 | 113.2 | 113.8 | 113.9 | 114.4 | .4 | 1.4 |
| Installation, maintenance, and repair | 110.0 | 110.5 | 111.1 | 111.5 | 112.3 | 112.4 | 112.5 | 112.8 | 113.1 | .3 | .7 |
| Production, transportation, and material moving Production | 108.5 108.2 | 109.0 108.6 | 109.6 109.1 | 109.8 109.3 | 110.1 109.7 | 110.5 110.1 | 111.3 110.6 | 111.5 110.6 | 111.8 111.2 | .3 | 1.5 1.4 |
| Transportation and material moving | 108.8 | 109.4 | 110.2 | 110.4 | 110.6 | 111.1 | 112.1 | 112.5 | 112.6 | .1 | 1.8 |
| Service occupations | 111.2 | 111.5 | 112.4 | 112.6 | 112.9 | 113.1 | 113.7 | 113.9 | 114.5 | .5 | 1.4 |
| Workers by industry | | | | | | | | | | | |
| Goods-producing | 109.2 | 109.5 | 109.8 | 110.1 | 110.5 | 110.9 | 111.5 | 111.6 | 112.2 | .5 | 1.5 |
| Manufacturing Service-providing | 108.1 110.2 | 108.4 110.5 | 108.6 111.1 | 108.9 111.4 | 109.4 111.9 | 110.0 112.4 | 110.6 112.9 | 110.7 113.2 | 111.5 113.6 | .7 | 1.9 1.5 |
| Education and health services | 111.0 | 111.4 | 112.3 | 112.5 | 112.8 | 113.0 | 113.7 | 114.0 | 114.2 | .2 | 1.2 |
| Health care and social assistance | 111.7 | 112.2 | 112.8 | 113.1 | 113.6 | 113.9 | 114.3 | 114.7 | 114.9 | .2 | 1.1 |
| Hospitals | 112.0 | 112.6 | 113.2 | 113.6 | 114.0 | 114.5 | 114.9 | 115.4 | 115.8 | .3 | 1.6 |
| Nursing and residential care facilities | 110.3 | 110.8 | 111.3 | 111.6 | 111.9 | 112.2 | 112.6 | 112.6 | 113.0 | .4 | 1.0 |
| Education services | 110.5 110.4 | 110.7 110.5 | 111.8 112.0 | 112.0 112.1 | 112.2 112.3 | 112.3 112.5 | 113.2 113.4 | 113.4 113.4 | 113.6 113.6 | .2 | 1.2 1.2 |
| Elementary and secondary schools Public administration ² | 111.3 | 111.9 | 112.0 | 112.1 | 113.2 | 113.4 | 113.4 | 114.0 | 114.4 | .4 | 1.1 |
| Private industry workers | 109.8 | 110.1 | 110.6 | 110.8 | 111.4 | 111.9 | 112.4 | 112.8 | 113.2 | .4 | 1.6 |
| • | | | | | | | | | | | |
| Workers by occupational group | | | 444.0 | | 440.5 | 440.0 | 440.4 | 440 = | | | |
| Management, professional, and related | 111.1 110.3 | 111.1 110.3 | 111.3 110.4 | 111.5 110.8 | 112.5 112.0 | 112.9 112.6 | 113.4 112.8 | 113.7 113.2 | 114.4 113.9 | .6 .6 | 1.7 1.7 |
| Professional and related | 111.6 | 111.8 | 112.1 | 112.1 | 112.8 | 113.2 | 113.9 | 114.1 | 114.8 | .6 | 1.8 |
| Sales and office | 107.9 | 108.3 | 109.0 | 109.4 | 109.6 | 110.7 | 110.9 | 111.5 | 111.6 | .1 | 1.8 |
| Sales and related | 104.3 | 104.7 | 105.7 | 106.2 | 106.2 | 108.0 | 107.8 | 108.7 | 107.8 | 8 | 1.5 |
| Office and administrative support | 110.6 | 111.1 | 111.4 | 111.8 | 112.2 | 112.6 | 113.3 | 113.6 | 114.4 | .7 | 2.0 |
| Natural resources, construction, and maintenance Construction and extraction | 110.6 111.4 | 111.0 111.7 | 111.6 112.3 | 112.0 112.7 | 112.5 112.9 | 112.8 113.3 | 113.1 113.9 | 113.3 114.0 | 113.7 114.5 | .4 | 1.1 1.4 |
| Installation, maintenance, and repair | 109.7 | 110.2 | 110.7 | 111.2 | 112.1 | 112.1 | 112.1 | 112.5 | 112.7 | .2 | .5 |
| Production, transportation, and material moving | 108.3 | 108.8 | 109.4 | 109.6 | 109.8 | 110.3 | 111.1 | 111.3 | 111.6 | .3 | 1.6 |
| Production | 108.1 | 108.5 | 109.0 | 109.3 | 109.6 | 110.0 | 110.5 | 110.5 | 111.1 | .5 | 1.4 |
| Transportation and material moving | 108.5 | 109.2 111.2 | 109.9 112.1 | 110.1 112.3 | 110.2 112.6 | 110.8 112.7 | 111.8 113.3 | 112.2 113.5 | 112.2 114.2 | .0 | 1.8 1.4 |
| Service occupations | 111.0 | 111.2 | 112.1 | 112.3 | 112.0 | 112.7 | 113.3 | 113.5 | 114.2 | .0 | 1.4 |
| Workers by industry and occupational group | 4 | | , | | | | | | | | |
| Goods-producing industries | 109.2 | 109.5 | 109.8 | 110.0 | 110.5 | 110.9 | 111.5 | 111.6 | 112.2 | .5 | 1.5 |
| Management, professional, and related | 109.3 108.1 | 109.3 108.3 | 109.4 108.4 | 109.4 108.7 | 110.5 108.4 | 111.0 108.9 | 111.6 109.9 | 111.4 110.5 | 112.5 110.0 | 1.0 5 | 1.8 1.5 |
| Natural resources, construction, and maintenance | 111.1 | 111.4 | 111.9 | 112.3 | 112.6 | 112.9 | 113.5 | 113.5 | 114.0 | .4 | 1.2 |
| Production, transportation, and material moving | 108.0 | 108.5 | 108.9 | 109.1 | 109.4 | 109.9 | 110.4 | 110.5 | 111.1 | .5 | 1.6 |
| Construction | 111.2 | 111.4 | 111.7 | 111.9 | 112.1 | 112.2 | 112.8 | 112.7 | 112.7 | .0 | .5 |
| Manufacturing | 108.1 | 108.4 | 108.6 | 108.9 | 109.4 | 110.0 | 110.6 | 110.7 | 111.5 | .7 | 1.9 |
| Management, professional, and related | 108.4 | 108.5 | 108.6 | 108.7 | 110.0 | 110.7 | 111.2 | 111.2 | 112.3 | 1.0 | 2.1 |
| Sales and office Natural resources, construction, and maintenance | 108.2 108.8 | 108.2 109.2 | 108.2 109.7 | 108.6 109.9 | 108.3 110.4 | 109.0 110.9 | 110.4 111.4 | 111.1 111.4 | 111.9 112.2 | .7 .7 | 3.3 1.6 |
| Production, transportation, and material moving | 107.7 | 108.2 | 108.6 | 108.9 | 109.2 | 109.6 | 110.1 | 110.2 | 110.8 | .5 | 1.5 |
| Service-providing industries | 110.0 | 110.3 | 110.8 | 111.1 | 111.7 | 112.3 | 112.7 | 113.1 | 113.5 | .4 | 1.6 |
| Management, professional, and related | 111.4 | 111.5 | 111.7 | 111.9 | 112.8 | 113.2 | 113.7 | 114.1 | 114.8 | .6 | 1.8 |
| Sales and office | 107.9 | 108.3 | 109.0 | 109.5 | 109.8 | 110.9 | 111.0 | 111.6 | 111.7 | .1 | 1.7 |
| Natural resources, construction, and maintenance Production, transportation, and material moving | 109.9 108.6 | 110.5 109.3 | 111.2 110.0 | 111.6 110.2 | 112.5 110.4 | 112.7 110.9 | 112.6 111.9 | 113.0 112.2 | 113.2 112.2 | .2 | .6 1.6 |
| Service occupations | 111.0 | 111.3 | 110.0 | 112.3 | 112.6 | 112.8 | 113.3 | 113.5 | 114.2 | .6 | 1.4 |
| Trade, transportation, and utilities | 107.8 | 108.2 | 108.7 | 108.9 | 109.5 | 110.5 | 110.6 | 111.0 | 110.9 | 1 | 1.3 |
| · | | | | - | | | - | | | | |

31. Continued—Employment Cost Index, wages and salaries, by occupation and industry group

[December 2005 = 100]

| | | 20 | 09 | | | 20 | 10 | | 2011 | Percent | change |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-----------------|
| Series | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | 3 months ended | 12 months ended |
| | | | | | | | | | | Mar. | 2011 |
| Wholesale trade | 106.8 | 106.5 | 106.2 | 106.4 | 107.1 | 108.1 | 107.7 | 108.5 | 107.8 | -0.6 | 0.7 |
| Retail trade | 108.3 | 108.9 | 110.0 | 110.4 | 111.0 | 112.0 | 112.0 | 112.0 | 112.2 | .2 | 1.1 |
| Transportation and warehousing | 107.2 | 107.9 | 108.3 | 108.3 | 108.7 | 109.5 | 110.6 | 111.0 | 111.2 | .2 | 2.3 |
| Utilities | 111.0 | 112.0 | 112.2 | 113.3 | 113.9 | 114.7 | 115.4 | 115.6 | 116.9 | 1.1 | 2.6 |
| Information | 107.8 | 108.1 | 108.7 | 109.1 | 109.6 | 110.3 | 110.8 | 110.5 | 112.0 | 1.4 | 2.2 |
| Financial activities | 106.8 | 107.9 | 108.5 | 108.9 | 109.8 | 111.0 | 111.1 | 112.0 | 112.9 | .8 | 2.8 |
| Finance and insurance | 107.1 | 108.5 | 109.0 | 109.4 | 110.2 | 111.9 | 112.0 | 113.0 | 113.9 | .8 | 3.4 |
| Real estate and rental and leasing | 105.6 | 105.8 | 106.3 | 106.8 | 108.0 | 107.2 | 107.5 | 108.1 | 109.2 | 1.0 | 1.1 |
| Professional and business services | 112.3 | 112.2 | 112.3 | 112.7 | 113.3 | 113.6 | 114.3 | 115.0 | 115.6 | .5 | 2.0 |
| Education and health services | 111.4 | 111.8 | 112.5 | 112.8 | 113.2 | 113.5 | 114.1 | 114.5 | 114.6 | .1 | 1.2 |
| Education services | 111.1 | 111.2 | 112.2 | 112.6 | 112.5 | 112.6 | 114.2 | 114.5 | 114.7 | .2 | 2.0 |
| Health care and social assistance | 111.5 | 111.9 | 112.5 | 112.8 | 113.3 | 113.7 | 114.1 | 114.4 | 114.6 | .2 | 1.1 |
| Hospitals | 111.8 | 112.3 | 112.9 | 113.4 | 113.7 | 114.3 | 114.7 | 115.2 | 115.6 | .3 | 1.7 |
| Leisure and hospitality | 113.1 | 112.8 | 113.7 | 113.8 | 114.5 | 114.3 | 114.8 | 115.0 | 115.2 | .2 | .6 |
| Accommodation and food services | 113.7 | 113.2 | 114.2 | 114.3 | 114.7 | 114.6 | 115.1 | 115.3 | 115.7 | .3 | .9 |
| Other services, except public administration | 111.4 | 111.4 | 112.5 | 112.1 | 112.3 | 112.7 | 113.4 | 113.2 | 114.2 | .9 | 1.7 |
| State and local government workers | 110.9 | 111.4 | 112.2 | 112.5 | 112.7 | 112.9 | 113.6 | 113.8 | 114.1 | .3 | 1.2 |
| Workers by occupational group | | | | | | | | | | | |
| Management, professional, and related | 110.7 | 111.1 | 112.0 | 112.2 | 112.4 | 112.6 | 113.3 | 113.5 | 113.8 | .3 | 1.2 |
| Professional and related | 110.6 | 111.0 | 112.0 | 112.3 | 112.4 | 112.6 | 113.3 | 113.6 | 113.8 | .2 | 1.2 |
| Sales and office | 110.5 | 111.0 | 111.9 | 112.1 | 112.5 | 112.5 | 113.1 | 113.2 | 113.5 | .3 | .9 |
| Office and administrative support | 111.0 | 111.4 | 112.3 | 112.5 | 113.0 | 113.0 | 113.5 | 113.6 | 113.9 | .3 | .8 |
| Service occupations | 112.0 | 112.4 | 113.1 | 113.5 | 114.0 | 114.2 | 114.9 | 115.1 | 115.4 | .3 | 1.2 |
| Workers by industry | | | | | | | | | | | |
| Education and health services | 110.7 | 111.1 | 112.0 | 112.3 | 112.5 | 112.6 | 113.4 | 113.6 | 113.8 | .2 | 1.2 |
| Education services | 110.4 | 110.7 | 111.7 | 111.9 | 112.1 | 112.2 | 113.0 | 113.2 | 113.4 | .2 | 1.2 |
| Schools | 110.4 | 110.7 | 111.7 | 111.9 | 112.1 | 112.2 | 113.0 | 113.2 | 113.4 | .2 | 1.2 |
| Elementary and secondary schools | 110.3 | 110.5 | 112.0 | 112.1 | 112.3 | 112.5 | 113.4 | 113.5 | 113.6 | .1 | 1.2 |
| Health care and social assistance | 113.1 | 114.6 | 115.0 | 115.2 | 115.5 | 115.8 | 116.2 | 116.8 | 117.3 | .4 | 1.6 |
| Hospitals | 112.8 | 113.9 | 114.2 | 114.7 | 115.2 | 115.5 | 115.7 | 116.3 | 117.0 | .6 | 1.6 |
| Public administration ² | 111.3 | 111.9 | 112.5 | 112.8 | 113.2 | 113.4 | 113.8 | 114.0 | 114.4 | .4 | 1.1 |

Consists of private industry workers (excluding farm and household workers) and State and local government (excluding Federal Government) workers.
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.

32. Employment Cost Index, benefits, by occupation and industry group

[December 2005 = 100]

| | | 20 | 09 | | | 20 | 10 | | 2011 | Percent | change |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-----------------|
| Series | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | 3 months ended | 12 months ended |
| | | | | | | | | | | Mar. | 2011 |
| Civilian workers | 109.7 | 110.0 | 110.5 | 110.7 | 112.1 | 112.7 | 113.6 | 113.9 | 115.5 | 1.4 | 3.0 |
| Private industry workers | 108.2 | 108.4 | 108.7 | 108.7 | 110.4 | 111.0 | 111.7 | 111.9 | 113.7 | 1.6 | 3.0 |
| Workers by occupational group | | | | | | | | | | | |
| Management, professional, and related | 108.8 | 108.8 | 108.9 | 108.8 | 110.2 | 110.5 | 111.0 | 111.2 | 113.4 | 2.0 | 2.9 |
| Sales and office | 108.0 | 108.1 | 108.5 | 108.7 | 110.2 | 111.1 | 111.6 | 111.8 | 113.4 | 1.4 | 2.9 |
| Natural resources, construction, and maintenance | 108.2 | 108.8 | 109.2 | 109.5 | 111.5 | 112.4 | 113.0 | 113.2 | 114.1 | .8 | 2.3 |
| Production, transportation, and material moving | 106.4 | 106.8 | 107.1 | 107.4 | 110.0 | 110.8 | 111.8 | 112.0 | 113.5 | 1.3 | 3.2 |
| Service occupations | 109.7 | 110.0 | 110.4 | 110.5 | 111.7 | 112.5 | 113.2 | 113.5 | 115.5 | 1.8 | 3.4 |
| Workers by industry | | | | | | | | | | | |
| Goods-producing | 105.4 | 105.7 | 105.7 | 105.8 | 108.4 | 109.0 | 110.0 | 110.1 | 111.7 | 1.5 | 3.0 |
| Manufacturing | 103.5 | 103.6 | 103.4 | 103.6 | 106.6 | 107.4 | 108.7 | 108.8 | 111.1 | 2.1 | 4.2 |
| Service-providing | 109.3 | 109.5 | 109.9 | 109.9 | 111.3 | 111.9 | 112.3 | 112.6 | 114.5 | 1.7 | 2.9 |
| State and local government workers | 115.2 | 115.7 | 117.4 | 117.7 | 118.1 | 118.6 | 120.7 | 121.1 | 122.0 | .7 | 3.3 |

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]

| | | 20 | 09 | | | 20 | 10 | | 2011 | Percent change | | |
|---|---------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-----------------|--|
| Series | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | 3 months ended | 12 months ended | |
| | | | | | | | | | | Mar. | 2011 | |
| COMPENSATION | | | | | | | | | | | | |
| Workers by bargaining status ¹ | | | | | | | | | | | | |
| Union | 109.1 | 109.8 | 110.5 | 111.1 | 112.8 | 113.7 | 114.6 | 114.8 | 115.6 | 0.7 | 2.5 | |
| Goods-producing | . 108.0 | 108.9 | 109.5 | 110.0 | 111.9 | 112.6 | 113.8 | 113.9 | 114.3 | .4 | 2.1 | |
| Manufacturing | | 104.8 | 105.3 | 105.8 | 108.6 | 109.1 | 110.5 | 110.5 | 110.9 | .4 | 2.1 | |
| Service-providing | . 109.9 | 110.6 | 111.3 | 111.9 | 113.4 | 114.5 | 115.2 | 115.5 | 116.8 | 1.1 | 3.0 | |
| Nonunion | 109.4 | 109.6 | 109.9 | 110.1 | 110.9 | 111.4 | 111.8 | 112.1 | 113.0 | .8 | 1.9 | |
| Goods-producing | . 107.9 | 108.0 | 108.0 | 108.2 | 109.1 | 109.5 | 110.1 | 110.2 | 111.3 | 1.0 | 2.0 | |
| Manufacturing | | 107.3 | 107.3 | 107.5 | 108.5 | 109.2 | 109.9 | 110.0 | 111.6 | 1.5 | 2.9 | |
| Service-providing | 109.8 | 110.0 | 110.4 | 110.6 | 111.3 | 111.9 | 112.3 | 112.7 | 113.5 | .7 | 2.0 | |
| Workers by region ¹ | | | | | | | | | | | | |
| Northeast | 109.8 | 110.2 | 110.7 | 111.0 | 111.8 | 112.7 | 113.1 | 113.6 | 114.4 | .7 | 2.3 | |
| South | 109.8 | 110.1 | 110.6 | 110.7 | 111.5 | 112.0 | 112.5 | 112.8 | 113.4 | .5 | 1.7 | |
| Midwest | 107.9 | 108.1 | 108.4 | 108.6 | 109.9 | 110.4 | 111.0 | 111.3 | 112.2 | .8 | 2.1 | |
| West | 109.9 | 110.0 | 110.3 | 110.6 | 111.3 | 111.7 | 112.3 | 112.5 | 113.5 | .9 | 2.0 | |
| WAGES AND SALARIES | | | | | | | | | | | | |
| Workers by bargaining status ¹ | | | | | | | | | | | | |
| Union | 108.8 | 109.6 | 110.2 | 110.9 | 111.5 | 112.1 | 112.7 | 112.9 | 113.6 | .6 | 1.9 | |
| Goods-producing | . 108.2 | 108.8 | 109.5 | 109.8 | 110.2 | 110.7 | 111.1 | 111.2 | 111.7 | .4 | 1.4 | |
| Manufacturing | 106.0 | 106.4 | 107.0 | 107.3 | 107.8 | 108.2 | 108.6 | 108.7 | 109.4 | .6 | 1.5 | |
| Service-providing | . 109.2 | 110.1 | 110.8 | 111.6 | 112.4 | 113.1 | 113.8 | 114.2 | 115.0 | .7 | 2.3 | |
| Nonunion | 110.0 | 110.2 | 110.6 | 110.9 | 111.4 | 111.9 | 112.4 | 112.7 | 113.2 | .4 | 1.6 | |
| Goods-producing | . 109.5 | 109.7 | 109.9 | 110.1 | 110.6 | 111.0 | 111.6 | 111.7 | 112.3 | .5 | 1.5 | |
| Manufacturing | 108.6 | 108.9 | 109.1 | 109.3 | 109.8 | 110.5 | 111.1 | 111.2 | 112.1 | .8 | 2.1 | |
| Service-providing | 110.1 | 110.3 | 110.8 | 111.0 | 111.6 | 112.2 | 112.6 | 113.0 | 113.4 | .4 | 1.6 | |
| Workers by region ¹ | | | | | | | | | | | | |
| Northeast | 109.9 | 110.3 | 110.8 | 111.1 | 111.7 | 112.6 | 112.9 | 113.4 | 113.7 | .3 | 1.8 | |
| South | 110.4 | 110.7 | 111.3 | 111.5 | 111.9 | 112.4 | 112.9 | 113.4 | 113.7 | .3 | 1.6 | |
| Midwest | 108.4 | 108.6 | 108.9 | 109.2 | 109.9 | 110.4 | 110.9 | 111.2 | 111.8 | .5 | 1.7 | |
| West | 110.5 | 110.8 | 111.2 | 111.6 | 112.0 | 112.4 | 112.9 | 113.0 | 113.6 | .5 | 1.4 | |

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

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

| Series | | | | | |
|--|----------|---------|----------|---------|-------------------|
| | 2003 | 2004 | 2005 | 2006 | 2007 ¹ |
| | | | | | |
| Percentage of workers participating All workers | 20 | 21 | 21 | 20 | 2 |
| White-collar occupations ² | 20 | 24 | 24 | 22 | 4 |
| Management, professional, and related | - | - | - | - | 2 |
| Sales and office | - | - | - | - | - |
| Blue-collar occupations ² | 24 | 25 | 26 | 25 | |
| Natural resources, construction, and maintenance | - | - | - | - | : |
| Production, transportation, and material moving | - | - | - | - | |
| Service occupations | 7 24 | 6 | 7 | 7 | |
| Full-time Part-time. | 24 | 24 9 | 25 9 | 23 8 | |
| Union | 72 | 69 | 72 | 68 | |
| Non-union | 15 | 15 | 15 | 14 | |
| Average wage less than \$15 per hour | 11 | 11 | 11 | 10 | |
| Average wage \$15 per hour or higher | 33 | 35 | 34 | 33 | |
| Goods-producing industries | 31 | 31 | 32 | 31 | |
| Service-providing industries | 16 | 18 | 18 | 17 | |
| Establishments with 1-99 workers | 8 | 9 | 9 | 9 | |
| Establishments with 100 or more workers | 33 | 34 | 36 | 33 | |
| Take-up rate (all workers) ³ | - | - | 97 | 96 | |
| efined Contribution | | | | | |
| Percentage of workers with access | | | | | |
| All workers | 51 | 53 | 53 | 54 | |
| White-collar occupations ² | 62 | 64 | 64 | 65 | |
| Management, professional, and related | - | - | - | - | |
| Sales and office | _ | | _ | _ | |
| Blue-collar occupations ² | 49 | 49 | 50 | 53 | |
| Natural resources, construction, and maintenance | | | 30 | 33 | |
| Production, transportation, and material moving | - | - | _ | - | |
| Service occupations | 23 | 27 | 28 | 30 | |
| Full-time. | - | 62 | | | |
| | 60 21 | 23 | 62 23 | 63 | |
| Part-time | | | | 25 | |
| Union | 45 | 48 | 49 | 50 | |
| Non-union | 51 | 53 | 54 | 55 | |
| Average wage less than \$15 per hour | 40 | 41 | 41 | 43 | |
| Average wage \$15 per hour or higher | 67 | 68 | 69 | 69 | |
| Goods-producing industries | 60 | 60 | 61 | 63 | |
| Service-providing industries | 48 | 50 | 51 | 52 | |
| Establishments with 1-99 workers | 38 | 40 | 40 | 41 | |
| Establishments with 100 or more workers | 65 | 68 | 69 | 70 | |
| Percentage of workers participating | | | | | |
| All workers | 40 | 42 | 42 | 43 | |
| White-collar occupations ² | 51 | 53 | 53 | 53 | |
| Management, professional, and related | - | - | - | - | |
| Sales and office | - | - | - | - | |
| Blue-collar occupations ² | 38 | 38 | 38 | 40 | |
| Natural resources, construction, and maintenance | - | - | - | - | |
| Production, transportation, and material moving | - | - | - | - | |
| Service occupations | 16 | 18 | 18 | 20 | |
| Full-time | 48 | 50 | 50 | 51 | |
| Part-time | 14 | 14 | 14 | 16 | |
| Union | 39 | 42 | 43 | 44 | |
| Non-union | 40 | 42 | 41 | 43 | |
| Average wage less than \$15 per hour | 29 | 30 | 29 | 31 | |
| Average wage \$15 per hour or higher | 57 | 59 | 59 | 58 | |
| Goods-producing industries | 49 | 49 | 50 | 51 | |
| Service-providing industries | 37 | 40 | 39 | 40 | |
| Establishments with 1-99 workers | 31 | 32 | 32 | 33 | |
| Establishments with 100 or more workers | 51 | 53 | 53 | 54 | |
| aka un vata (all warke-a) ³ | | | | 70 | |
| ake-up rate (all workers) ³ | - | - | 78 | 79 | |

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

| Series | | Ye | ar | | |
|-------------------------------------|------|------|------|------|-------------------|
| Series | 2003 | 2004 | 2005 | 2006 | 2007 ¹ |
| Employee Contribution Requirement | | | | | |
| Employee contribution required | - | - | 61 | 61 | 65 |
| Employee contribution not required | - | - | 31 | 33 | 35 |
| Not determinable | - | - | 8 | 6 | 0 |
| Percent of establishments | | | | | |
| Offering retirement plans | 47 | 48 | 51 | 48 | 46 |
| Offering defined benefit plans | 10 | 10 | 11 | 10 | 10 |
| Offering defined contribution plans | 45 | 46 | 48 | 47 | 44 |

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.

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

 $^{^{\}rm 2}$ 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.

35. National Compensation Survey: Health insurance benefits in private industry by access, participation, and selected series, 2003-2007

| Series | | | Year | | |
|---|------|------|------|------|-------------------|
| ouncs | 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 | - | 70 | ,, | | 85 |
| Sales and office | | | | | 71 |
| Blue-collar occupations ² | 64 | 76 | 77 | 77 | , , |
| Natural resources, construction, and maintenance | 04 | 70 | ,,, | | 76 |
| | - | - | - | - | 78 |
| Production, transportation, and material moving | - | 42 | 44 | 45 | 78 46 |
| Service occupations. | 38 | 42 | 44 | 45 | |
| 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 |

See footnotes at end of table.

35. Continued—National Compensation Survey: Health insurance benefits in private industry by access, participation, and selected series, 2003-2007

| Series - | | | Year | | |
|--|------|------|------|------|-------------------|
| Series | 2003 | 2004 | 2005 | 2006 | 2007 ¹ |
| Percentage of workers participating | | | | | |
| All workers | 32 | 37 | 36 | 36 | 3 |
| White-collar occupations ² | 37 | 43 | 42 | 41 | |
| Management, professional, and related | - | - | - | - | į |
| Sales and office | - | - | - | - | 3 |
| Blue-collar occupations ² | 33 | 40 | 39 | 38 | |
| Natural resources, construction, and maintenance | - | - | - | - | ; |
| Production, transportation, and material moving | - | - | - | - | ; |
| Service occupations | 15 | 16 | 17 | 18 | |
| Full-time | 40 | 46 | 45 | 44 | |
| Part-time | 6 | 8 | 9 | 10 | |
| Union | 51 | 68 | 67 | 63 | |
| Non-union | 30 | 33 | 33 | 33 | |
| Average wage less than \$15 per hour | 22 | 26 | 24 | 23 | : |
| Average wage \$15 per hour or higher | 47 | 53 | 52 | 52 | |
| Goods-producing industries. | 42 | 49 | 49 | 49 | |
| Service-providing industries. | 29 | 33 | 33 | 32 | |
| Establishments with 1-99 workers. | 21 | 24 | 24 | 24 | |
| Establishments with 100 or more workers | 44 | 52 | 51 | 50 | |
| Take-up rate (all workers) ³ | - | - | 78 | 78 | |
| Vision care | | | | | |
| Percentage of workers with access | 25 | 29 | 29 | 29 | |
| Percentage of workers participating | 19 | 22 | 22 | 22 | |
| Outpatient Prescription drug coverage | | | | | |
| Percentage of workers with access | - | - | 64 | 67 | |
| Percentage of workers participating | - | - | 48 | 49 | |
| ercent of estalishments offering healthcare benefits | 58 | 61 | 63 | 62 | |
| Percentage of medical premium paid by | | | | | |
| Employer and Employee | | | | | |
| Single coverage | | | | | |
| Employer share | 82 | 82 | 82 | 82 | |
| Employee share | 18 | 18 | 18 | 18 | |
| Family coverage | | | | | |
| Employer share | 70 | 69 | 71 | 70 | |
| Employee share | 30 | 31 | 29 | 30 | |

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.

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

 $^{^{\}rm 2}$ 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.

36. National Compensation Survey: Percent of workers in private industry with access to selected benefits, 2003-2007

| Benefit | | | Year | | |
|--------------------------------------|------|------|------|------|------|
| Deneiii | 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 | | | | | 20 | | | 2011 | | | | | |
|---|--------|---------|------|------|------|-------|------|-------|------|------|------|------|------|------|-------------------|
| Weasure | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ^p |
| Number of stoppages: | | | | | | | | | | | | | | | |
| Beginning in period | 5 | 11 | 3 | 1 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 4 | 1 |
| In effect during period | 5 | 11 | 4 | 1 | 3 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 4 | 2 |
| Workers involved: | | | | | | | | | | | | | | | |
| Beginning in period (in thousands) | 12.5 | 44.5 | 5.4 | 1.7 | 13.8 | 15.0 | 0.0 | 4.5 | 1.5 | 0.0 | 1.1 | 0.0 | 0.0 | 5.3 | 1.5 |
| In effect during period (in thousands). | 16.9 | 47.7 | 6.9 | 1.7 | 15.5 | 15.0 | 0.0 | 4.5 | 1.5 | 0.0 | 1.1 | 0.0 | 0.0 | 5.3 | 3.4 |
| Days idle: | | | | | | | | | | | | | | | |
| Number (in thousands) | 124.1 | 302.3 | 44.5 | 23.8 | 36.8 | 180.0 | 0.0 | 9.0 | 4.5 | 0.0 | 2.2 | 0.0 | 0.0 | 33.5 | 56.4 |
| Percent of estimated working time 1 | 0 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

worked is found in "Total economy measures of strike idleness," Monthly Labor Review, October 1968, pp. 54-56.

NOTE: p = preliminary.

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]

| 0 | Annual | average | | | | | 2011 | | | | | | 2 | 011 | |
|---|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Series | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| CONSUMER PRICE INDEX | | | <u> </u> | | | | | i i | | | | | | | - |
| FOR ALL URBAN CONSUMERS | | | | | | | | | | | | | | | |
| All items | | 1 | | 1 | | 218.011 | | | | 218.803 | 1 | | 221.309 | | 224.906 |
| All items (1967 = 100) | | 653.198 | | 653.564 | 652.926 | 653.066 | 653.966 | | 655.162 | 655.438 | 1 | 659.692 | 662.943 | | 673.717 |
| Food and beverages | | 219.984 | | 219.693 | | | | 220.586 220.216 | 221.005 | 220.991 220.617 | 221.278 | 223.160 | 224.039 | | 226.248 |
| Food at home. | | 219.625 215.836 | | 219.374 215.793 | 215.361 | 219.121 215.256 | 219.491 215.382 | | 220.616 216.698 | 216.538 | | 222.912 220.016 | | | 226.150 224.233 |
| Cereals and bakery products | 252.567 | 250.449 | | 251.269 | | | | | | 249.944 | 250.592 | 253.349 | | | 255.956 |
| Meats, poultry, fish, and eggs | 203.805 | 1 | 205.178 | | 208.171 | | 208.854 | 211.280 | 212.170 | 212.957 | 212.019 | 214.344 | 216.175 | | 220.747 |
| Dairy and related products ¹ | 197.013 | 199.245 | 197.308 | 197.749 | 197.947 | 198.991 | 198.712 | 199.042 | 201.291 | 201.277 | 202.056 | 202.349 | 203.510 | 206.161 | 209.707 |
| Fruits and vegetables | 272.945 | | | 277.887 | 271.907 | | 265.914 | | | | 277.089 | 285.619 | | 290.279 | |
| Nonalcoholic beverages and beverage | | | | | | | | | | | | | | | |
| materials | 163.034 | 161.602 | 162.128 | 160.982 | 160.361 | 161.121 | 161.764 | 161.771 | 161.313 | 161.427 | 159.229 | 164.019 | 163.734 | 165.038 | 166.086 |
| Other foods at home | 191.220 | 191.124 | 191.017 | 191.461 | 191.001 | 191.529 | 192.026 | 191.289 | 191.311 | 190.152 | 190.147 | 191.468 | 193.055 | 194.747 | 195.239 |
| Sugar and sweets | | 201.242 | 200.775 | 202.123 | 199.737 | 201.180 | 200.335 | 202.469 | 202.962 | 200.586 | 203.098 | 202.648 | 204.168 | 205.505 | 203.783 |
| Fats and oils | 201.224 | 200.587 | 197.749 | 1 | 199.375 | | | 201.971 | 203.614 | 202.375 | | 207.813 | 210.508 | | 213.818 |
| Other foods | 205.497 | 204.553 | 204.947 | | 204.874 | | 205.857 | 204.322 | 203.990 | 202.988 | 202.776 | 203.610 | 205.174 | | 207.892 |
| Other miscellaneous foods ^{1,2} | 122.393 | | | | 121.551 | 122.052 | 121.787 | 122.106 | | | | | 121.438 | | 123.769 |
| Food away from home | 223.272 | 226.114 | 225.276 | | 225.797 | 225.710 | 226.422 | | 227.287 | 227.512 | | 228.181 | 228.606 | 229.282 | |
| Other food away from home ^{1,2} Alcoholic beverages | 155.852 220.751 | 159.276 223.291 | | 1 | 159.271 222.680 | 159.338 223.639 | 159.517 | 160.072 224.043 | 160.036 224.705 | 160.392 | 160.681 224.215 | 160.643 | 161.836 225.749 | 161.886 | 162.218 226.053 |
| Housing | . 217.057 | 216.256 | | | 216.778 | | | | 216.100 | 215.830 | | 216.739 | 217.259 | | 217.901 |
| Shelter | 1 | 248.396 | | 248.100 | 248.470 | 1 | 248.595 | 248.522 | 248.646 | 248.738 | 248.972 | 249.462 | 249.886 | | 250.447 |
| Rent of primary residence | 1 | 249.385 | | | 248.999 | | 249.024 | 249.368 | 249.618 | 250.317 | 250.986 | 251.555 | 251.829 | | 252.221 |
| Lodging away from home | 134.243 | 133.656 | 134.331 | 136.121 | 140.476 | 143.358 | 139.999 | 135.800 | 133.580 | 126.704 | 125.665 | 128.630 | 131.572 | 136.486 | 136.597 |
| Owners' equivalent rent of primary residence3 | 256.610 | 256.584 | 256.170 | 256.163 | 256.352 | 256.395 | 256.509 | 256.590 | 256.823 | 257.202 | 257.452 | 257.775 | 258.073 | 258.263 | 258.400 |
| Tenants' and household insurance ^{1,2} | 121.487 | 125.682 | 124.879 | 125.036 | 125.289 | 125.865 | 126.463 | 126.627 | 127.111 | 127.501 | 126.194 | 126.192 | 126.529 | 125.863 | 126.574 |
| Fuels and utilities | 210.696 | | 211.726 | 212.773 | 217.820 | 219.614 | 219.602 | 217.695 | 213.031 | 210.978 | 212.505 | 214.045 | 215.587 | 216.672 | 217.254 |
| Fuels | | | | | 193.678 | | 194.865 | 192.635 | 187.271 | 184.764 | 186.338 | 187.704 | 189.006 | | 190.622 |
| Fuel oil and other fuels | | | | | 265.521 | 261.257 | 263.196 | | | 286.367 | 298.037 | 314.130 | 326.919 | 341.884 | |
| Gas (piped) and electricity | | 192.886 | 190.284 | 191.628 | 198.207 | 1 | 199.632 | 197.049 | 190.603 | 187.335 | 188.443 | 189.088 | 189.837 | | 190.459 |
| Household furnishings and operations Apparel | 120.078 | 125.490 119.503 | | 126.029 121.006 | 125.589 118.319 | 1 | 125.005 116.667 | 124.535 121.011 | 124.524 122.454 | 124.121 121.498 | 123.931 118.071 | 124.342 116.664 | 124.576 118.369 | 124.735 121.286 | 1 |
| Men's and boys' apparel | | 111.914 | | | 112.446 | | 110.007 | 1 | 114.090 | 112.824 | 109.711 | 109.985 | 110.962 | | 113.487 |
| Women's and girls' apparel | | 107.081 | 110.816 | 1 | 104.746 | | 102.702 | 109.217 | 110.723 | 109.778 | 1 | 102.438 | 105.076 | | 110.144 |
| Infants' and toddlers' apparel | 114.489 | 114.180 | | | 112.930 | | 113.245 | | 114.663 | 115.106 | | 110.096 | 110.101 | | 112.323 |
| Footwear | 126.854 | 127.988 | 129.432 | | 127.196 | 125.212 | 125.656 | 129.303 | 130.896 | 129.368 | 126.585 | 126.286 | 126.830 | 128.518 | 1 |
| Transportation | 179.252 | 193.396 | 193.994 | 194.761 | 192.651 | 193.038 | 193.454 | 192.412 | 194.283 | 195.659 | 198.280 | 200.835 | 203.037 | | 216.867 |
| Private transportation | 174.762 | 188.747 | 189.503 | 190.071 | 187.593 | 188.028 | 188.616 | 187.646 | 189.674 | 190.915 | 193.545 | 196.087 | 198.073 | 206.165 | 212.210 |
| New and used motor vehicles ² | 93.486 | 97.149 | 96.815 | 96.890 | 97.176 | 97.620 | 97.891 | 97.502 | 97.203 | 96.936 | 97.046 | 97.128 | 97.633 | 98.275 | 98.972 |
| New vehicles | 135.623 | 138.005 | 138.174 | 137.750 | 137.503 | 137.323 | 137.119 | | 137.849 | 138.222 | 138.567 | 138.925 | 140.158 | 140.860 | 141.462 |
| Used cars and trucks ¹ | 126.973 | 143.128 | 141.315 | 1 | 144.399 | 146.379 | 147.909 | 1 | 144.040 | 142.250 | 142.454 | 142.555 | 142.937 | 144.072 | I |
| Motor fuel | | 239.178 | 244.801 244.347 | 246.671 246.080 | 234.868 234.214 | 234.642 234.091 | 235.690 235.110 | | 240.303 | 245.165 244.345 | 256.025 255.319 | 265.703 264.979 | 271.843 270.822 | 303.565 | 326.024 325.282 |
| Motor vehicle parts and equipment | | 136.995 | | 136.135 | 136.686 | 137.236 | 137.646 | | 239.527 138.289 | 138.768 | | 140.487 | 140.912 | 140.686 | |
| Motor vehicle parts and equipment | | 247.954 | 247.355 | | 247.635 | | 248.390 | 249.231 | 249.824 | 249.872 | 250.134 | 250.726 | 250.851 | | |
| Public transportation | | | 249.135 | | 257.825 | | 254.717 | 252.525 | 251.435 | 254.995 | 257.172 | 259.634 | 265.327 | | 272.187 |
| Medical care | 375.613 | 388.436 | 387.703 | 387.762 | 388.199 | | 388.467 | 390.616 | 391.240 | 391.660 | 391.946 | 393.858 | 397.065 | 397.726 | 398.813 |
| Medical care commodities | 305.108 | 314.717 | 314.535 | 314.923 | 314.888 | 314.113 | 314.881 | 315.804 | 316.082 | 316.794 | 317.199 | 318.929 | 321.186 | 322.691 | 324.241 |
| Medical care services | | 411.208 | | | 410.802 | | 411.182 | | 414.564 | 414.850 | 415.079 | 417.025 | 420.567 | 420.852 | 1 |
| Professional services | 319.372 | | | | 327.938 | | | | | 330.508 | | 331.921 | 334.296 | 334.671 | 1 |
| Hospital and related services | . 567.879 114.272 | | | | | 604.291 113.689 | | | 1 | 619.747 112.839 | | 625.897 112.638 | 633.413 113.183 | | I |
| Recreation | 101.276 | | 100.074 | | 99.814 | | | | | 98.214 | | | 98.268 | 98.719 | |
| Video and audio ^{1,2} Education and communication ² | 127.393 | | | 1 | 129.263 | 99.244 129.586 | 98.852 130.599 | | 130.959 | 130.894 | 130.548 | 97.325 130.665 | 130.692 | | 130.643 |
| Education and communication | 190.857 | | | | 197.284 | | 201.476 | | 1 | 203.139 | | 204.057 | 204.153 | | 204.316 |
| Educational books and supplies | | 505.569 | | 502.345 | | 504.856 | | | | | | | | | 522.440 |
| Tuition, other school fees, and child care | 548.971 | 573.174 | 565.709 | 565.983 | 566.910 | 569.750 | 579.833 | 585.271 | 584.286 | 584.509 | 584.840 | 586.386 | 586.782 | 586.914 | 587.151 |
| Communication 1,2 | 84.954 | 84.681 | 84.947 | 84.809 | 84.657 | 84.703 | 84.699 | 84.665 | 84.531 | 84.423 | 83.913 | 83.783 | 83.779 | 83.730 | 83.655 |
| Information and information processing 1,2 | 81.944 | 81.513 | 81.784 | 81.641 | 81.487 | 81.535 | 81.532 | 81.497 | 81.359 | 81.250 | | 80.422 | 80.417 | 80.364 | 80.281 |
| Telephone services ^{1,2} | 102.392 | 102.379 | 102.394 | 102.369 | 102.303 | 102.471 | 102.534 | 102.633 | 102.458 | 102.329 | 101.739 | 101.412 | 101.316 | 101.258 | 101.191 |
| Information and information processing | | | | | | | | | | | | | | | |
| other than telephone services ^{1,4} | 9.672 | 9.413 | 9.530 | 9.473 | 9.422 | 9.399 | 9.381 | 9.339 | 9.324 | 9.309 | 9.232 | 9.181 | 9.204 | 9.196 | 9.176 |
| Personal computers and peripheral | | | | | | | | | | | | | | | |
| equipment ^{1,2} | 82.304 | 76.377 | 78.234 | 76.676 | 75.751 | 75.912 | 75.798 | 75.570 | 75.385 | 74.969 | 73.559 | 72.947 | 72.709 | 72.073 | 72.010 |
| Other goods and services | 368.586 | | | 379.714 | 380.926 | | | 383.663 | | 383.633 | | | 385.397 | 385.637 | |
| Tobacco and smoking products | 730.316 | | | | 806.154 | | | 823.766 | | | 1 | | 829.535 | | 827.287 |
| Personal care ¹ | | | | 206.296 | | 207.025 | | | | | 207.196 | | | | 208.485 |
| Personal care products ¹ | 1 | 161.062 | | 160.351 | | 161.372 | | | | | 1 | | | | 161.418 |
| Personal care services ¹ | 227.588 | 229.614 | 229.635 | 230.013 | 230.225 | 230.519 | 230.354 | 230.332 | 229.343 | 229.623 | 230.159 | 229.933 | 230.177 | 230.034 | 230.380 |
| | | | | | | | | | | | | | | | |

See footnotes at end of table.

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 | | average | | Mari | luma | liebe | 2010 | Cont | Ont | Nev | Doo | len | | Mar. | Α |
|--|------------------------|---------|--------------------|--------------------|--------------------|----------|---------|----------|--------------------|---------|---------|--------------------|---------|-----------------|-------|
| | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. 359.096 | Apr |
| Miscellaneous personal services | 344.469 | 354.052 | 352.779 | 353.522 | 353.941 | 354.533 | 355.429 | 355.964 | 356.508 | 357.061 | 356.475 | 357.576 | 358.521 | 359.096 | 361.0 |
| Commodity and service group: Commodities | 169.698 | 17/ 566 | 175 333 | 175 333 | 173 800 | 173 503 | 173 025 | 17/1 282 | 175.225 | 175 /15 | 176 015 | 177 /80 | 178 87/ | 182.728 | 185 3 |
| | | | | | | | | | | | | | | | |
| Food and beverages | | | 219.536 | | 219.562 | | 219.877 | | 221.005 | | | 223.160 | 224.039 | 225.479 | |
| Commodities less food and beverages | | | | 151.559 | | | | | 150.882 191.332 | | | | | 159.351 | |
| Nondurables less food and beverages Apparel | . 178.959 . 120.078 | | 192.335 | | 188.237 | | | | 191.332 | | | 196.248 | | 208.134 | |
| Apparei | . 120.076 | 119.505 | 122.143 | 121.000 | 110.319 | 113.246 | 110.007 | 121.011 | 122.434 | 121.490 | 110.071 | 110.004 | 110.309 | 121.200 | 122.2 |
| Non durables less food, beverages, | | | | | | | | | | | | | | | |
| and apparel | 219.592 | 238.053 | 240.381 | 240.876 | 236.028 | 235.935 | 236.498 | 235.211 | 238.530 | 240.762 | 245.458 | 250.293 | 253.570 | 266.993 | 276.5 |
| Durables | 109.859 | 111.324 | 111.450 | 111.454 | 111.443 | 111.555 | 111.587 | 111.174 | 110.966 | 110.573 | 110.512 | 110.696 | 111.237 | 111.707 | 112.2 |
| Services | 259.154 | | | | | | | | 261.927 | | | | | 263.956 | 264. |
| Rent of shelter ³ | 259.924 | 258.823 | 258.457 | 258.525 | 258 010 | 250 115 | 250 015 | 258 034 | 259.054 | 250 1/2 | 250 /18 | 259.934 | 260.373 | 260 834 | 260.9 |
| Transportation services | | | | | | | | | 261.625 | | | | | | |
| Other services. | 303.992 | | | | | | | | 311.375 | | | | | | |
| | | | | | | | | | | | | | | | |
| Special indexes: | 044.000 | 047.000 | 047.000 | 040 040 | 047 700 | 047.057 | 040 447 | 040 470 | 040 404 | 040 500 | 040 004 | 040 000 | 000 007 | 000 400 | 004 |
| All items less food | 214.008 | 217.828 | 217.839 | 218.010 | 217.788 | 217.857 | 218.147 | 218.179 | 218.431 | 218.538 | 218.921 | 219.820 | 220.937 | 223.192 | 224. |
| All items less shelter | 203.301 | | | | | | | | 209.467 | | | | | | |
| All items less medical care | | | | | | | | | 210.257 | | | | | | |
| Commodities less food | | | | | | | | | 153.508 | | | | 157.221 | | |
| Nondurables less food | | | | | | | | | 193.344 | | | | | | |
| Nondurables less food and apparel | 218.687 . 198.548 | | 237.626 | 238.090 | | | | | 236.158 | | | | | | |
| Nondurables | | | | | | | | | 206.518 | | | | | | |
| Services less rent of shelter ³ | 278.064 248.122 | 284.368 | 282.851 248.733 | 283.541 | 285.371 | | | | 285.588 250.066 | | | 286.292 | | | |
| Services less medical care services | | | | | | | | | 210.947 | | | | | | |
| All items less energy | | | | | | | | | 221.236 | | | | | | |
| All items less food and energy | | | | | | | | | 222.079 | | | | | | |
| Commodities less food and energy | | | | 143.888 | | | | | 144.028 | | | | 143.712 | | |
| Energy commodities | | | 248.165 | | | | | | 243.784 | | | 269.970 | 276.485 | 307.589 | 329.4 |
| Services less energy | 265.875 | 268.278 | 267.587 | 267.829 | 268.308 | 268.655 | 268.903 | 269.034 | 269.208 | 269.509 | 269.572 | 270.199 | 270.982 | 271.468 | 271.7 |
| CONSUMER PRICE INDEX FOR URBAN | | | | | | | | | | | | | | | |
| CONSUMER PRICE INDEX FOR URBAN | | | | | | | | | | | | | | | |
| WAGE EARNERS AND CLERICAL WORKERS | | | | | | | | | | | | | | | |
| All items | 209.630 | 213 967 | 213 958 | 214 124 | 213 839 | 213 898 | 214 205 | 214 306 | 214.623 | 214 750 | 215 262 | 216 400 | 217 535 | 220 024 | 221 7 |
| | | | | | | | | | | | | | | | |
| All items (1967 = 100) | | | | | | | | | 639.296 | | | 644.591 | 647.969 | | |
| Food and beverages | . 217.480 | | | | | | | | 220.199 | | | | | | |
| Food | 217.118 | | | | | | | | 219.736 215.511 | | | | | | |
| Food at home | 253.214 | | | | | | | | 250.429 | | | | | | |
| Cereals and bakery products | 203.394 | | | | | | | | 211.978 | | | | | | |
| Dairy and related products 1 | 195.679 | | | 196.490 | | | 197.651 | | 199.890 | | | 201.170 | | | |
| Fruits and regated products Fruits and vegetables | 270.562 | | | | | | | | 267.466 | | | | | | |
| Nonalcoholic beverages and beverage | | | | | | | | | | | | | | | |
| - | 400 500 | 404.044 | 404 704 | 100.004 | 450.000 | 400 000 | 101.050 | 101010 | 400.070 | 400 000 | 450.054 | 100 500 | 100 000 | 101500 | 405 |
| materials | 162.598 | 161.214 | 161.721 | 160.694 | 159.938 | 160.862 | 161.353 | 161.210 | 160.678 | 160.999 | 158.654 | 163.586 | 163.262 | 164.583 | 165.5 |
| Other foods at home | 190.519 | 190.294 | 190.299 | 190.643 | 190.164 | 190.675 | 191.226 | 190.318 | 190.351 | 189.265 | 189.176 | 190.656 | 192.187 | 193.787 | 194.2 |
| Sugar and sweets | 195.702 | 200.035 | 199.665 | 200.979 | 198.560 | 199.857 | 198.872 | 200.971 | 201.469 | 199.542 | 202.206 | 201.824 | 203.373 | 204.408 | 202.6 |
| Fats and oils | 202.003 | | | | | | | | 203.670 | | | | | | |
| Other foods | 205.573 | | | | | | | | 203.935 | | | | | | |
| Other miscellaneous foods 1,2 | 122.753 | | | 120.869 | 121.830 | | | _ | 121.806 | - | | 121.161 | | | |
| Food away from home ¹ | 223.383 | 226.204 | 225.395 | 225.657 | 225.846 | 225.707 | 226.481 | 227.188 | 227.412 | 227.634 | 227.871 | 228.279 | 228.596 | 229.293 | 230. |
| Other food away from home 1,2 | 155.607 | 159.794 | 159.088 | 158.901 | 159.601 | 159.725 | 159.866 | 160.755 | 160.988 | 161.428 | 161.657 | 161.635 | 162.728 | 162.850 | 163.3 |
| Alcoholic beverages | 221.325 | | | | | | | | 225.531 | | | | | | |
| Housing | 213,144 | | | | | | | | 212.681 | | | | 213.931 | | |
| Shelter | 242.637 | | | | | | | | 242.513 | | | | 243.961 | | |
| Rent of primary residence | 247.401 | | | | | | | | 247.823 | | | | | | |
| Lodging away from home ² | 135.163 | 135.119 | 135 703 | 137.067 | 142.529 | 1/15 768 | 140.967 | 136 /88 | 134.787 | 128 305 | 127 360 | 130.091 | 133 181 | 138.131 | 138. |
| | 232.499 | | | 232.068 | 232.235 | | | | 232.680 | | | 233.565 | | | |
| Owners' equivalent rent of primary residence 3 | | | | | | | | | | | | | 128.035 | | |
| Tenants' and household insurance 1,2 | 121.935 | 126.739 | 125.872 | 126.051 | 126.345 | 126.950 | 127.526 | 127.718 | 128.130 | 128.556 | 127.674 | 127.690 | 128.035 | 126.914 | 127.6 |
| Fuels and utilities | 209.595 | | | | | | | | 211.649 | | | | 213.775 | | 215.3 |
| Fuels | 186.229 | | | 185.946 | | | | | 185.262 | | | 185.463 | | 187.561 | 188.0 |
| Fuel oil and other fuels | 243.003 | | | 274.630 | | | | | 278.516 | | | 315.348 | | | |
| Gas (piped) and electricity | 191.981 | | | | | | | | 189.313 | | | 187.874 | | 188.985 | |
| Household furnishings and operations | 124.632 | | | | 121.720 | | | | 120.643 | | | 120.345 | | | |
| Apparel Men's and boys' apparel | 119.847 114.340 | | 121.293 | 120.267 113.838 | 117.630 112.359 | | | | 121.587 113.618 | | | 115.649 110.386 | | | |
| Women's and girls' apparel | 107.602 | | | 107.882 | | | | | 110.474 | | | 101.701 | 104.611 | | |
| - · · · · · · · · · · · · · · · · · · · | 117.202 | | | | 116.509 | | | | 117.250 | | | 113.268 | | | |
| Infants' and toddlers' apparel 1 | 117.202 | | | 117.881 | 116.509 | | | | 117.250 | | | 113.268 | | | |
| Footwear | | | | | | | | | | | | | | | |
| Transportation | . 176.729 | 192.560 | 193.320 | 194.079 | 191.587 | 192.051 | 192.657 | 191.517 | 193.553 | 194.884 | 197.832 | 200.635 | 202.910 | | |
| | | | | | | | | | | | | | | | |
| Private transportation New and used motor vehicles ² | 173.491 | 189.257 | 190.106 | 190.768 | 188.088 | 188.577 | 189.261 | 188.152 | 190.259 | 191.524 | 194.477 | 197.275 | 199.417 | 208.361 | 215. |

See footnotes at end of table.

38. Continued—Consumer Price Indexes for All Urban Consumers and for Urban Wage Earners and Clerical Workers: average, by expenditure category and commodity or service group

[1982–84 = 100, unless otherwise indicated]

| Sories | | | | | 2010 | | | | | | 20 | 11 | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Series | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| New vehicles | 139.192 | 138.794 | 138.639 | 138.387 | 138.152 | 138.353 | 138.806 | 139.224 | 139.567 | 139.871 | 141.114 | 141.899 | 142.475 |
| Used cars and trucks 1 | 142.173 | 143.396 | 145.257 | 147.247 | 148.782 | 146.959 | 144.952 | 143.176 | 143.377 | 143.479 | 143.868 | 145.014 | 146.907 |
| | | 247.688 | 235.670 | | 236.436 | 233.370 | | 245.957 | 257.025 | | | 305.066 | |
| | 245.626 | | 235.124 | | 235.966 | 232.783 | 240.558 | 245.250 | 256.443 | | | 304.224 | 327.095 |
| | | 136.182 | 136.719 | 137.218 | 137.612 | 137.728 | 138.153 | 138.654 | 139.150 | | 140.763 | | 141.505 |
| | | 249.841 | 250.142 | | 251.084 | 251.938 | | | 252.759 | | | | 253.990 |
| · | 246.535 | 250.119 | 254.023 | 253.625 | 251.634 | 249.816 | 249.169 | 252.230 | 254.312 | | 262.444 | 266.726 | |
| Medical care commodities | 389.050 306.117 | 389.029 306.458 | 389.513 306.440 | 389.335 305.764 | 389.905 306.541 | 392.028 307.322 | 392.749 307.539 | 393.277 308.332 | 393.616 308.823 | 395.536 310.488 | 398.908 312.764 | 399.516 314.190 | 400.683 315.798 |
| | 413.325 | | | | 414.344 | | 417.913 | | 418.568 | | | | 425.450 |
| Professional services | 330.228 | 330.396 | 331.323 | | 332.656 | 333.547 | | | | | 337.901 | 338.225 | 338.558 |
| Hospital and related services | 605.497 | 605.593 | 606.700 | 605.634 | 607.181 | 615.785 | 620.670 | 622.116 | 623.692 | | 636.256 | 637.216 | |
| Recreation ² | 110.342 | 110.195 | 110.339 | 110.076 | 109.967 | 109.626 | 109.449 | 109.082 | 108.561 | 109.039 | 109.693 | 109.848 | |
| Video and audio ^{1,2} | 100.568 | 99.977 | 100.239 | 99.660 | 99.385 | 99.199 | 99.054 | 98.774 | 97.753 | 97.925 | 98.897 | 99.398 | 99.523 |
| Education and communication ² | 124.559 | 124.459 | 124.430 | 124.687 | 125.425 | 125.818 | 125.617 | 125.526 | 125.089 | 125.065 | 125.069 | 125.047 | 124.993 |
| Education ² | 194.275 | 194.332 | 194.746 | 195.550 | 198.537 | 200.329 | 200.129 | 200.228 | 200.496 | 201.353 | 201.500 | 201.588 | |
| Education Educational books and supplies | 504.436 | 504.925 | 507.168 | 506.799 | | | | | 515.937 | 526.152 | 526.197 | 527.623 | |
| Tuition, other school fees, and child care | 546.192 | 546.319 | 547.366 | 549.874 | 558.909 | 563.998 | 563.319 | 563.563 | 564.149 | 565.760 | 566.205 | 566.335 | 566.469 |
| Communication ^{1,2} | 87.581 | 87.453 | 87.306 | 87.376 | 87.391 | 87.343 | 87.170 | 87.040 | 86.472 | 86.209 | 86.174 | 86.124 | 86.057 |
| Information and information processing ^{1,2} . | 85.394 | 85.263 | 85.115 | 85.186 | 85.201 | 85.154 | 84.978 | 84.846 | 84.271 | 83.881 | 83.844 | 83.793 | 83.719 |
| Telephone services 1,2 | 102.132 | 102.101 | 102.021 | 102.185 | 102.239 | 102.325 | 102.135 | 101.975 | 101.327 | 100.882 | 100.768 | 100.701 | |
| Information and information processing | | | | | | | | | | | | | |
| other than telephone services 1,4 | 10.087 | 10.028 | 9.976 | 9.957 | 9.947 | 9.891 | 9.864 | 9.849 | 9.767 | 9.713 | 9.734 | 9.729 | 9.710 |
| Personal computers and peripheral | | | | | | | | | | | | | |
| equipment ^{1,2} | 78.420 | 76.736 | 75.631 | 75.929 | 75.848 | 75.356 | | 74.615 | 73.078 | | 72.138 | 71.404 | |
| Other goods and services | 405.786 | 406.973 | 408.610 | 411.793 | 412.453 | 412.690 | 411.655 | 412.383 | 414.002 | | 415.088 | 415.318 | |
| Tobacco and smoking products | 793.243 | | 811.325 | 824.198 | 827.609 | | | | | 832.904 | | 835.368 | |
| | 204.294 | 203.828 | 203.922 | 204.575 | 204.604 | 204.620 | 204.142 | 204.830 | 205.084 | 205.264 | 205.705 | 205.738 | 206.422 |
| Personal care products 1 | 161.604 | 160.289 | 159.900 | 161.416 | 161.376 | 161.132 | | 160.801 | 161.217 | 161.462 | 161.974 | 161.667 | 162.088 |
| | 229.857 354.593 | 230.263 354.725 | 230.472 355.101 | 230.769 355.667 | 230.625 356.582 | 230.624 357.423 | 229.635 357.784 | 229.855 358.407 | 230.332 358.380 | 230.140 359.587 | 230.418 360.528 | 230.252 360.881 | 230.597 362.774 |
| Commodity and service group: | | | | | | | | | | | | | |
| Commodities | 178.269 | 178.359 | 176.848 | 176.554 | 177.003 | 177.267 | 178.283 | 178.504 | 179.331 | 180.958 | 182.442 | 186.832 | 189.816 |
| Food and beverages | 218.730 | 218.844 | 218.730 | 218.784 | 219.175 | 219.817 | 220.199 | 220.245 | 220.508 | 222.385 | 223.273 | 224.825 | 225.667 |
| Commodities less food and beverages | 156.268 | 156.345 | | | 154.309 | | | | | 158.473 | | 165.647 | |
| Nondurables less food and beverages | 201.091 | 201.141 | 196.614 | 195.484 | 196.297 | 197.015 | | 201.110 | 203.292 | | | 219.775 | |
| Apparel | 121.293 | 120.267 | 117.630 | 114.464 | 115.600 | 119.942 | 121.587 | 120.628 | 117.127 | 115.649 | 117.507 | 120.091 | 121.140 |
| Nondurables less food, beverages, | | | | | | | | | | | | | |
| and apparel | | | 250.039 | 250.103 | 250.745 | 249.301 | 253.167 | 255.572 | 261.243 | | | 286.361 | 297.497 |
| Durables | 112.432 | 112.533 | 112.781 | 112.995 | 113.125 | 112.646 | 112.294 | 111.813 | 111.789 | 111.973 | 112.498 | 113.063 | 113.678 |
| Services | 255.796 | 256.048 | 257.138 | 257.595 | 257.745 | 257.663 | 257.198 | 257.219 | 257.382 | 257.982 | 258.732 | 259.108 | 259.419 |
| | 233.210 | 233.184 | 233.460 | 233.588 | 233.478 | 233.516 | | 233.956 | 234.278 | 234.715 | | 235.413 | |
| Transporatation services | 258.501 | | 260.032 | | 260.904 | | | 263.804 | | | | | 267.258 |
| Other services | 295.327 | 295.551 | 296.070 | 296.475 | 297.576 | 297.815 | 297.397 | 297.313 | 296.508 | 296.924 | 297.671 | 298.010 | 298.262 |
| Special indexes: All items less food | 212 000 | 010 175 | 212 065 | 242 027 | 242 224 | 242 222 | 213.532 | 242 675 | 214 225 | 215 215 | 216 200 | 210 027 | 220 004 |
| All items less shelter | | | | | | | | | | | | | |
| | | | | | | | 206.770 207.409 | | | | | | |
| Commodities less food | | 158.650 | | | | | 158.038 | | | | | | |
| Nondurables less food | | 202.587 | | 197.295 | | | 201.606 | | | | | | |
| | | | | | | | 249.688 | | | | | | |
| | | 210.607 | | | | | 210.627 | | | | | | |
| | 249.847 | | | 253.109 | 253.551 | 253.335 | 252.181 | 251.894 | 251.847 | 252.563 | 253.664 | 254.057 | 254.540 |
| | | | | | | | 245.955 | | | | | | |
| • | | | | | | | 211.514 | | | | | | |
| | | | | | | | 215.961 | | | | | | |
| | | | | | | | 215.580 | | | | | | |
| Commodities less food and energy | | | | 145.205 | 145.557 | | | 145.757 | | | | | 147.472 |
| | | | | | | | 243.933 | | | | | | 330.157 |
| Services less energy | ∠ხა.09/ | ∠03.218 | ∠03.631 | 203.922 | ∠04.149 | ∠04.342 | 264.603 | ∠05.001 | ∠ხნ.062 | ∠ხნ.ხ39 | ∠00.394 | ∠00./66 | 267.077 |

NOTE: Index applied to a month as a whole, not to any specific date.

Not seasonally adjusted.
 Indexes on a December 1997 = 100 base.
 Indexes on a December 1982 = 100 base.

 $^{^4}$ Indexes on a December 1988 = 100 base.

39. Consumer Price Index: U.S. city average and available local area data: all items

[1982–84 = 100, unless otherwise indicated]

| | Pricing | | All | Urban | Consun | ners | | | Ur | ban Wa | ge Earn | ers | |
|--|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | sched- | 20 |)10 | | 20 |)11 | | 20 | 10 | | 20 |)11 | |
| | ule ¹ | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| U.S. city average | М | 218.803 | 219.179 | 220.223 | 221.309 | 223.467 | 224.906 | 214.750 | 215.262 | 216.400 | 217.535 | 220.024 | 221.743 |
| Region and area size ² | | | | | | | | | | | | | |
| Northeast urban | M | 235.094 | 235.141 | 235.969 | 237.110 | 239.074 | 240.267 | 232.962 | 233.082 | 233.914 | 235.109 | 237.377 | 238.756 |
| Size A—More than 1,500,000 | M | 236.806 | 236.828 | 237.564 | 238.798 | 240.599 | 241.626 | 233.031 | 233.092 | 233.851 | 235.230 | 237.239 | 238.390 |
| Size B/C—50,000 to 1,500,000 ³ | M | 140.282 | 140.351 | 141.001 | 141.547 | 143.001 | 143.987 | 141.452 | 141.598 | 142.196 | 142.691 | 144.395 | 145.520 |
| Midwest urban ⁴ | M | 208.816 | 209.270 | 210.388 | 211.090 | 212.954 | 214.535 | 204.468 | 205.024 | 206.258 | 206.981 | 209.094 | 210.991 |
| Size A—More than 1,500,000 | M | 209.344 | 209.936 | 210.928 | 211.503 | 213.449 | 214.878 | 204.064 | 204.731 | 205.878 | 206.516 | 208.740 | 210.508 |
| Size B/C—50,000 to 1,500,000 ³ | M | 134.058 | 134.267 | 135.061 | 135.665 | 136.834 | 138.005 | 134.112 | 134.454 | 135.277 | 135.841 | 137.189 | 138.552 |
| Size D—Nonmetropolitan (less than 50,000) | M | 206.014 | 206.136 | 207.551 | 208.156 | 209.713 | 211.314 | 203.937 | 204.132 | 205.648 | 206.306 | 208.108 | 209.987 |
| South urban | M | 211.996 | 212.488 | 213.589 | 214.735 | 217.214 | 218.820 | 209.352 | 209.994 | 211.216 | 212.416 | 215.272 | 217.234 |
| Size A—More than 1,500,000 | M | 213.424 | 213.850 | 215.127 | 216.145 | 218.391 | 219.944 | 211.222 | 211.712 | 213.058 | 214.129 | 216.680 | 218.615 |
| Size B/C—50,000 to 1,500,000 ³ | M | 134.892 | 135.240 | 135.925 | 136.625 | 138.211 | 139.177 | 133.927 | 134.405 | 135.207 | 135.919 | 137.789 | 138.962 |
| Size D—Nonmetropolitan (less than 50,000) | M | 215.736 | 216.189 | 216.750 | 218.772 | 222.275 | 224.716 | 215.822 | 216.477 | 217.200 | 219.352 | 223.059 | 225.869 |
| West urban | M | 221.671 | 222.081 | 223.149 | 224.431 | 226.558 | 227.837 | 216.267 | 216.847 | 217.995 | 219.368 | 221.830 | 223.268 |
| Size A—More than 1,500,000 | M | 225.847 | 226.112 | 227.281 | 228.444 | 230.707 | 231.808 | 218.817 | 219.273 | 220.564 | 221.848 | 224.576 | 225.833 |
| Size B/C—50,000 to 1,500,000 ³ | М | 133.930 | 134.328 | 134.917 | 135.826 | 137.200 | 138.174 | 133.777 | 134.306 | 134.900 | 135.845 | 137.331 | 138.362 |
| Size classes: | | | | | | | | | | | | | |
| A^5 | M | 199.844 | 200.123 | 201.059 | 201.974 | 203.833 | 204.963 | 198.598 | 198.979 | 200.022 | 201.033 | 203.220 | 204.607 |
| B/C ³ | M | 135.289 | 135.579 | 136.260 | 136.960 | 138.404 | 139.413 | 134.969 | 135.379 | 136.112 | 136.808 | 138.471 | 139.645 |
| D | M | 212.124 | 212.541 | 213.417 | 214.862 | 216.988 | 218.920 | 210.529 | 210.959 | 212.005 | 213.495 | 215.928 | 218.220 |
| Selected local areas ⁶ | | | | | | | | | | | | | |
| Chicago-Gary-Kenosha, IL-IN-WI | M | | | | | | 218.762 | | | | | | |
| Los Angeles-Riverside-Orange County, CA | M | 225.941 | 226.639 | 228.652 | 229.729 | 232.241 | 233.319 | 218.694 | 219.619 | 221.540 | 222.814 | 225.770 | 227.051 |
| New York, NY-Northern NJ-Long Island, NY-NJ-CT-PA | M | 241.960 | 241.874 | 242.639 | 243.832 | 245.617 | 246.489 | 237.606 | 237.575 | 238.396 | 239.750 | 241.667 | 242.697 |
| Boston-Brockton-Nashua, MA-NH-ME-CT | 1 | 238.103 | - | 239.814 | _ | 242.787 | _ | 238.891 | _ | 240.540 | - | 244.324 | _ |
| Cleveland-Akron, OH | 1 | 206.168 | - | 207.587 | _ | 209.372 | _ | 197.530 | _ | 199.568 | - | 201.146 | _ |
| Dallas-Ft Worth, TX | 1 | 201.168 | _ | 203.199 | _ | 206.967 | - | 204.918 | _ | 206.954 | _ | 211.227 | _ |
| Washington-Baltimore, DC-MD-VA-WV 7 | 1 | 142.915 | - | 144.327 | _ | 146.044 | _ | 142.938 | _ | 144.556 | _ | 146.572 | _ |
| Atlanta, GA | 2 | _ | 202.519 | _ | 205.744 | _ | 209.215 | _ | 201.390 | _ | 204.611 | _ | 208.356 |
| Detroit-Ann Arbor-Flint, MI | 2 | _ | 206.384 | _ | 206.816 | _ | 211.673 | _ | 202.280 | _ | 202.849 | _ | 208.217 |
| Houston-Galveston-Brazoria, TX | 2 | _ | 194.479 | _ | 197.224 | _ | 201.624 | _ | 192.863 | _ | 195.677 | _ | 200.997 |
| Miami–Ft. Lauderdale, FL | 2 | _ | 224.907 | _ | 227.451 | _ | 231.503 | _ | 222.510 | _ | 225.346 | _ | 229.675 |
| Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD | 2 | _ | 228.017 | _ | 230.878 | _ | 233.143 | _ | 228.072 | _ | 231.306 | _ | 233.441 |
| San Francisco-Oakland-San Jose, CA | 2 | _ | 227.658 | _ | 229.981 | _ | 234.121 | _ | 224.152 | _ | 226.638 | _ | 231.600 |
| Seattle-Tacoma-Bremerton, WA | 2 | | 226.862 | _ | 229.482 | _ | 231.314 | _ | 222.853 | | 225.790 | _ | 228.313 |

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.

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.

^{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

40. Annual data: Consumer Price Index, U.S. city average, all items and major groups

[1982–84 = 100]

| Series | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|
| Consumer Price Index for All Urban Consumers: | | | | | | | | | | | |
| All items: | | | | | | | | | | | |
| Index | 172.2 | 177.1 | 179.9 | 184.0 | 188.9 | 195.3 | 201.6 | 207.342 | 215.303 | 214.537 | 218.056 |
| Percent change | 3.4 | 2.8 | 1.6 | 2.3 | 2.7 | 3.4 | 3.2 | 2.8 | 3.8 | -0.4 | 1.6 |
| Food and beverages: | | | | | | | | | | | |
| Index | 168.4 | 173.6 | 176.8 | 180.5 | 186.6 | 191.2 | 195.7 | 203.300 | 214.225 | 218.249 | 219.984 |
| Percent change | 2.3 | 3.1 | 1.8 | 2.1 | 3.3 | 2.5 | 2.4 | 3.9 | 5.4 | 1.9 | 0.8 |
| Housing: | | | | | | | | | | | |
| Index | 169.6 | 176.4 | 180.3 | 184.8 | 189.5 | 195.7 | 203.2 | 209.586 | 216.264 | 217.057 | 216.256 |
| Percent change | 3.5 | 4.0 | 2.2 | 2.5 | 2.5 | 3.3 | 3.8 | 3.1 | 3.2 | 0.4 | -0.4 |
| Apparel: | | | | | | | | | | | |
| Index | 129.6 | 127.3 | 124.0 | 120.9 | 120.4 | 119.5 | 119.5 | 118.998 | 118.907 | 120.078 | 119.503 |
| Percent change | -1.3 | -1.8 | -2.6 | -2.5 | 4 | 7 | .0 | -0.4 | -0.1 | 1.0 | -0.5 |
| Transportation: | | | | | | | | | | | |
| Index | 153.3 | 154.3 | 152.9 | 157.6 | 163.1 | 173.9 | 180.9 | 184.682 | 195.549 | 179.252 | 193.396 |
| Percent change | 6.2 | 0.7 | 9 | 3.1 | 3.5 | 6.6 | 4.0 | 2.1 | 5.9 | -8.3 | 7.9 |
| Medical care: | | | | | | | | | | | |
| Index | 260.8 | 272.8 | 285.6 | 297.1 | 310.1 | 323.2 | 336.2 | 351.054 | 364.065 | 375.613 | 388.436 |
| Percent change | 4.1 | 4.6 | 4.7 | 4.0 | 4.4 | 4.2 | 4.0 | 4.4 | 3.7 | 3.2 | |
| Other goods and services: | | | | | | | | | | | |
| Index | 271.1 | 282.6 | 293.2 | 298.7 | 304.7 | 313.4 | 321.7 | 333.328 | 345.381 | 368.586 | 381.291 |
| Percent change | 5.0 | 4.2 | 3.8 | 1.9 | 2.0 | 2.9 | 2.6 | 3.6 | 3.6 | 6.7 | 3.4 |
| Consumer Price Index for Urban Wage Earners | | | | | | | | | | | |
| and Clerical Workers: | | | | | | | | | | | |
| All items: | | | | | | | | | | | |
| Index | 168.9 | 173.5 | 175.9 | 179.8 | 184.5 | 191.0 | 197.1 | 202.767 | 211.053 | 209.630 | 213.967 |
| Percent change | 3.5 | 2.7 | 1.4 | 2.2 | 5.1 | 1.1 | 3.2 | 2.9 | 4.1 | -0.7 | 2.1 |

41. Producer Price Indexes, by stage of processing

[1982 = 100]

| Grouping | Annual | average | | | | | 2010 | | | | | | 20 | 11 | |
|--|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------------------|-------------------|
| Grouping | 2009 | 2010 | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. ^p | Feb. ^p | Mar. ^p | Apr. ^p |
| Finished goods | 172.5 | 179.8 | 179.5 | 179.8 | 179.0 | 179.5 | 179.9 | 180.0 | 181.2 | 181.6 | 182.6 | 184.4 | 186.9 | 189.4 | 191.7 |
| Finished consumer goods | 179.1 | 189.1 | 188.8 | 189.2 | 188.2 | 188.9 | 189.4 | 189.5 | 190.8 | 191.4 | 192.9 | 195.2 | 198.6 | 202.1 | 205.2 |
| Finished consumer foods | 175.5 | 182.4 | 184.2 | 184.1 | 179.5 | 180.5 | 180.1 | 181.9 | 182.1 | 183.9 | 186.0 | 186.9 | 194.1 | 193.8 | 193.6 |
| Finished consumer goods | | | | | | | | | | | | | | | |
| excluding foods | 179.4 | 190.4 | 189.4 | 190.0 | 190.1 | 190.8 | 191.6 | 191.1 | 192.7 | 193.0 | 194.2 | 197.0 | 199.1 | 203.9 | 208.1 |
| Nondurable goods less food | 194.1 | 210.1 | 208.7 | 209.6 | 210.1 | 211.2 | 212.3 | 211.5 | 213.2 | 213.7 | 215.7 | 219.7 | 222.6 | 229.7 | 235.8 |
| Durable goods | 144.3 | 144.9 | 144.8 | 145.0 | 144.3 | 144.2 | 144.3 | 144.2 | 145.8 | 145.6 | 145.3 | 145.7 | 146.1 | 146.4 | 146.6 |
| Capital equipment | 156.7 | 157.3 | 157.1 | 157.2 | 157.0 | 156.9 | 157.1 | 157.0 | 158.0 | 157.8 | 157.8 | 158.4 | 158.6 | 158.7 | 159.1 |
| Intermediate materials, | | | | | | | | | | | | | | | |
| supplies, and components | 172.5 | 183.4 | 183.2 | 184.3 | 183.3 | 183.1 | 183.9 | 184.1 | 185.3 | 186.4 | 187.8 | 190.6 | 193.2 | 197.3 | 200.5 |
| Materials and components | | | | | | | | | | | | | | | |
| for manufacturing | 162.7 | 174.0 | 175.0 | 175.4 | 173.6 | 172.6 | 173.1 | 174.0 | 175.5 | 177.0 | 178.4 | 181.5 | 184.2 | 187.0 | 189.9 |
| Materials for food manufacturing | 165.1 | 174.4 | 172.7 | 175.1 | 173.2 | 172.9 | 174.5 | 177.6 | 178.3 | 180.3 | 179.3 | 180.4 | 186.7 | 190.7 | 193.7 |
| Materials for nondurable manufacturing | 191.6 | 215.4 | 217.7 | 216.9 | 212.7 | 211.4 | 212.9 | 214.4 | 217.7 | 221.4 | 225.4 | 231.9 | 236.2 | 242.1 | 248.2 |
| Materials for durable manufacturing | 168.9 | 186.6 | 189.3 | 190.8 | 188.3 | 185.2 | 184.7 | 186.1 | 188.7 | 190.5 | 191.8 | 196.0 | 200.3 | 203.8 | 207.4 |
| Components for manufacturing | 141.0 | 142.2 | 142.2 | 142.4 | 142.5 | 142.4 | 142.6 | 142.6 | 142.6 | 142.6 | 142.8 | 143.8 | 144.1 | 144.5 | 145.3 |
| Materials and components | | | | | | | | | | | | | | | |
| for construction | 202.9 | 205.7 | 206.1 | 207.4 | 206.6 | 206.3 | 206.2 | 205.9 | 205.9 | 206.3 | 207.0 | 208.3 | 209.1 | 210.8 | 211.9 |
| Processed fuels and lubricants | 161.9 | 185.2 | 183.1 | 185.9 | 185.2 | 186.3 | 188.4 | 187.5 | 188.9 | 189.5 | 192.2 | 196.2 | 201.1 | 212.4 | 218.9 |
| Containers | 195.8 | 201.2 | 200.1 | 201.6 | 204.1 | 204.4 | 205.0 | 202.3 | 202.4 | 202.5 | 202.7 | 203.4 | 203.7 | 204.2 | 204.8 |
| Supplies | 172.2 | 175.0 | 173.8 | 174.7 | 174.5 | 174.8 | 175.1 | 175.5 | 176.4 | 177.5 | 178.1 | 179.6 | 180.7 | 182.1 | 183.6 |
| Crude materials for further | | | | | | | | | | | | | | | |
| processing | 175.2 | 212.2 | 211.0 | 208.3 | 203.7 | 208.7 | 211.8 | 209.2 | 215.3 | 217.2 | 227.0 | 235.9 | 241.6 | 247.6 | 261.0 |
| Foodstuffs and feedstuffs | 134.5 | 152.4 | 148.6 | 153.0 | 146.3 | 150.7 | 152.5 | 158.6 | 160.8 | 162.3 | 164.6 | 171.6 | 183.6 | 185.5 | 193.3 |
| Crude nonfood materials | 197.5 | 249.3 | 250.7 | 241.5 | 239.3 | 244.4 | 248.5 | 237.7 | 247.0 | 249.1 | 265.2 | 274.9 | 274.1 | 283.5 | 301.0 |
| Special groupings: | | | | | | | | | | | | | | | |
| Finished goods, excluding foods | 171.1 | 178.3 | 177.6 | 178.1 | 178.1 | 178.5 | 179.1 | 178.7 | 180.1 | 180.2 | 181.0 | 183.0 | 184.4 | 187.5 | 190.3 |
| Finished energy goods | 146.9 | 166.9 | 165.9 | 166.7 | 166.8 | 168.0 | 169.6 | 168.1 | 170.0 | 170.5 | 172.9 | 177.4 | 181.4 | 192.0 | 200.9 |
| Finished goods less energy | 172.3 | 175.5 | 175.5 | 175.7 | 174.6 | 174.9 | 174.9 | 175.4 | 176.3 | 176.7 | 177.3 | 178.2 | 180.2 | 180.2 | 180.5 |
| Finished consumer goods less energy | 179.2 | 183.9 | 184.0 | 184.2 | 182.6 | 183.1 | 183.1 | 183.9 | 184.8 | 185.4 | 186.4 | 187.5 | 190.4 | 190.5 | 190.7 |
| Finished goods less food and energy | 171.5 | 173.6 | 173.0 | 173.3 | 173.2 | 173.3 | 173.5 | 173.5 | 174.7 | 174.7 | 174.8 | 175.8 | 176.2 | 176.3 | 176.7 |
| Finished consumer goods less food | | | | | | | | | | | | | | | |
| and energy | 181.6 | 185.1 | 184.2 | 184.6 | 184.7 | 184.9 | 185.1 | 185.3 | 186.6 | 186.6 | 186.9 | 188.2 | 188.8 | 189.0 | 189.4 |
| Consumer nondurable goods less food | | | | | | | | | | | | | | | |
| and energy | 214.3 | 220.8 | 219.1 | 219.7 | 220.7 | 221.4 | 221.4 | 222.0 | 222.9 | 223.3 | 224.2 | 226.6 | 227.2 | 227.2 | 227.9 |
| Intermediate materials less foods | | | | | | | | | | | | | | | |
| and feeds | 173.0 | 184.4 | 184.4 | 185.4 | 184.4 | 184.2 | 184.9 | 184.9 | 186.1 | 187.0 | 188.6 | 191.4 | 193.8 | 197.9 | 201.1 |
| Intermediate foods and feeds | 166.0 | 171.7 | 168.5 | 170.8 | 169.7 | 170.0 | 171.2 | 173.5 | 175.5 | 178.3 | 178.3 | 180.2 | 185.1 | 189.3 | 192.6 |
| Intermediate energy goods | 162.5 | 187.8 | 185.8 | 188.5 | 187.3 | 188.4 | 190.8 | 189.8 | 191.5 | 192.4 | 195.7 | 199.5 | 205.0 | 216.9 | 223.9 |
| Intermediate goods less energy | 172.8 | 180.0 | 180.3 | 181.0 | 180.0 | 179.4 | 179.7 | 180.3 | 181.4 | 182.6 | 183.5 | 185.9 | 187.8 | 189.7 | 191.9 |
| Intermediate materials less foods | | | | | | | | | | | | | | | |
| and energy | 173.4 | 180.8 | 181.5 | 181.9 | 181.0 | 180.4 | 180.5 | 180.9 | 181.9 | 182.9 | 183.9 | 186.4 | 187.9 | 189.6 | 191.6 |
| Crude energy materials | 176.8 | 216.7 | 216.0 | 205.9 | 207.7 | 216.1 | 217.7 | 199.0 | 207.9 | 207.3 | 225.1 | 232.0 | 226.8 | 240.7 | 260.4 |
| Crude materials less energy | 164.8 | 197.0 | 195.2 | 197.6 | 189.4 | 192.1 | 196.0 | 203.2 | 207.1 | 210.2 | 214.6 | 224.1 | 236.5 | 236.7 | 245.4 |
| Crude nonfood materials less energy | 248.4 | 329.1 | 335.3 | 330.0 | 317.1 | 313.2 | 324.1 | 334.5 | 344.0 | 352.5 | 364.0 | 381.1 | 392.7 | 386.7 | 396.8 |

p = preliminary.

42. Producer Price Indexes for the net output of major industry groups

[December 2003 = 100, unless otherwise indicated]

| NAICS | Industry | | | , | - | 2010 | - | - 1 | - 1 | | | 20 | 11 | |
|-------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|-------------------|-------------------|-------------------|
| | , | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. ^p | Feb. ^p | Mar. ^p | Apr. ^p |
| | Total mining industries (December 1984=100) | 213.4 | 204.9 | 204.8 | 209.0 | 211.6 | 202.5 | 212.2 | 214.1 | 227.3 | 232.7 | 232.5 | 244.2 | 258.9 |
| 211 | Oil and gas extraction (December 1985=100) | 240.0 | 226.8 | 226.7 | 232.7 | 235.5 | 219.6 | 233.4 | 235.6 | 256.4 | 261.7 | 261.0 | 279.5 | 302.8 |
| 212 213 | Mining, except oil and gas | 201.3 100.6 | 200.1 100.7 | 199.0 101.1 | 200.1 102.7 | 203.9 102.3 | 206.1 103.4 | 211.0 104.2 | 213.3 103.8 | 214.3 105.4 | 221.8 106.6 | 223.2 106.8 | 224.8 106.6 | 226.2 107.1 |
| 213 | • | 175.2 | 176.1 | 174.8 | 174.7 | | 175.5 | | 178.2 | 179.1 | 181.1 | 183.3 | 187.3 | 190.1 |
| 311 | Total manufacturing industries (December 1984=100) | 173.2 | 175.8 | 174.6 | 174.7 | 175.3 175.3 | 177.3 | 177.3 178.2 | 179.4 | 179.1 | 181.1 | 184.6 | 188.3 | 190. |
| 312 | Beverage and tobacco manufacturing | 122.1 | 123.5 | 123.9 | 123.6 | 123.4 | 123.2 | 124.7 | 124.8 | 125.7 | 126.3 | 126.8 | 127.6 | 125.7 |
| 313 | Textile mills | 114.6 | 115.3 | 115.7 | 116.0 | 116.2 | 116.7 | 117.4 | 118.6 | 120.0 | 123.1 | 125.7 | 125.9 | 128.2 |
| 315 | Apparel manufacturing | 103.6 | 103.5 | 103.5 | 103.5 | 103.6 | 103.2 | 103.2 | 103.4 | 103.5 | 103.7 | 104.5 | 104.7 | 104.8 |
| 316 | Leather and allied product manufacturing (December 1984=100) | 155.3 | 155.8 | 155.9 | 156.4 | 156.9 | 157.0 | 158.7 | 158.8 | 159.2 | 160.5 | 162.0 | 162.0 | 162. |
| 321 | Wood products manufacturing | 110.0 | 112.5 | 109.3 | 108.8 | 107.6 | 107.1 | 106.7 | 106.7 | 107.3 | 108.0 | 107.9 | 108.6 | |
| 322 323 | Paper manufacturing Printing and related support activities | 125.1 109.5 | 126.7 109.5 | 128.0 109.8 | 128.7 110.0 | 128.8 109.9 | 129.9 109.9 | 129.9 110.2 | 130.1 110.7 | 130.2 110.7 | 130.3 110.7 | 130.6 110.9 | 130.8 111.0 | 131. 111. |
| 324 | Petroleum and coal products manufacturing | 287.8 | 292.0 | 280.4 | 278.8 | 284.4 | 282.4 | 295.3 | 302.8 | 310.4 | 321.1 | 336.0 | 371.9 | 393. |
| 324 | (December 1984=100) | | | | | | | | | | | | | |
| | | 0044 | 000.4 | 000.0 | 000.5 | 000 7 | 0040 | 000.0 | 000.0 | 007.0 | 0.40.0 | 0444 | 040.0 | 0.40 |
| 325 | Chemical manufacturing (December 1984=100) | 234.1 165.6 | 233.4 166.2 | 232.6 167.1 | 233.5 166.8 | 233.7 166.9 | 234.6 167.0 | 236.3 167.2 | 236.8 167.8 | 237.6 168.6 | 242.6 170.6 | 244.4 171.0 | 246.9 | 249. |
| 326 | Plastics and rubber products manufacturing | 165.6 | 100.2 | 167.1 | 100.8 | 166.9 | 167.0 | 167.2 | 167.8 | 108.0 | 170.6 | 171.0 | 172.3 | 174. |
| | (December 1984=100) | | | | | | | | | | | | | 1 |
| 331 | Primary metal manufacturing (December 1984=100) | 198.7 | 200.5 | 198.8 | 194.3 | 193.6 | 195.8 | 199.6 | 202.0 | 203.4 | 208.0 | 213.5 | 217.8 | 222. |
| 332 | Fabricated metal product manufacturing (December 1984=100). | 176.3 | 177.0 | 177.1 | 177.2 | 177.7 | 176.8 | 176.9 | 177.0 | 177.5 | 178.7 | 179.4 | 180.4 | 181. |
| 333 334 | Machinery manufacturing Computer and electronic products manufacturing | 120.4 91.4 | 120.4 91.3 | 120.3 91.1 | 120.5 91.1 | 120.6 90.9 | 120.8 90.7 | 120.8 90.5 | 120.9 90.2 | 121.1 90.1 | 121.7 90.3 | 122.3 90.4 | 122.3 90.4 | 122. 90. |
| 335 | Electrical equipment, appliance, and components manufacturing | 131.7 | 131.9 | 131.8 | 131.6 | 131.8 | 132.1 | 132.5 | 133.1 | 133.6 | 134.3 | 134.6 | 135.4 | 135. |
| 336 | Transportation equipment manufacturing | 110.3 | 110.3 | 109.9 | 109.7 | 109.9 | 109.9 | 111.1 | 110.9 | 110.8 | 111.2 | 111.3 | 111.2 | 111. |
| 337 | Furniture and related product manufacturing | 176.9 | 176.7 | 177.3 | 177.6 | 177.6 | 177.7 | 177.8 | 177.9 | 177.7 | 178.2 | 178.6 | 180.1 | 180. |
| | (December 1984=100) | | | | | | | | | | | | | |
| 339 | Miscellaneous manufacturing | 112.6 | 112.6 | 112.7 | 113.2 | 113.3 | 113.3 | 113.8 | 113.9 | 113.9 | 114.4 | 114.8 | 115.3 | 115. |
| | Retail trade | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 441 | Motor vehicle and parts dealers | 124.4 121.7 | 123.9 121.7 | 123.9 120.5 | 124.6 119.8 | 125.1 121.0 | 125.0 120.9 | 124.6 121.3 | 124.5 122.1 | 124.6 122.4 | 127.9 122.1 | 124.8 122.0 | 127.7 123.3 | 127. 121. |
| 442 443 | Furniture and home furnishings stores | 105.4 | 104.1 | 105.3 | 105.8 | 104.2 | 101.4 | 102.6 | 97.6 | 87.8 | 87.7 | 85.3 | 80.8 | 85. |
| 446 | Health and personal care stores | 142.1 | 142.5 | 143.1 | 136.1 | 128.8 | 129.2 | 144.7 | 133.5 | 133.0 | 133.7 | 138.7 | 130.8 | 132. |
| 447 | Gasoline stations (June 2001=100) | 74.1 | 82.8 | 67.6 | 71.6 | 73.7 | 69.8 | 69.9 | 70.5 | 68.2 | 68.6 | 69.5 | 72.7 | 70. |
| 454 | Nonstore retailers | 142.8 | 142.7 | 138.7 | 141.3 | 137.2 | 136.1 | 132.2 | 137.3 | 140.5 | 137.8 | 144.7 | 143.9 | 142. |
| | Transportation and warehousing | | | | | | | | | | | | | |
| 481 | Air transportation (December 1992=100) | 205.8 | 202.9 | 208.0 | 209.1 | 205.2 | 196.0 | 201.0 | 202.5 | 202.6 | 208.0 | 209.5 | 221.5 | 221. |
| 483 | Water transportation | 121.0 | 123.1 | 124.1 | 129.3 | 130.0 | 129.9 | 129.9 | 128.8 | 129.1 | 130.4 | 133.0 | 134.5 | 134. |
| 491 | Postal service (June 1989=100) | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 187.7 | 188.5 | 188.5 | 188.5 | 188. |
| | Utilities | | | | | | | | | | | | | |
| 221 | Utilities | 131.0 | 131.3 | 134.5 | 137.1 | 138.8 | 136.0 | 131.8 | 130.5 | 132.4 | 134.4 | 133.9 | 132.7 | 133.0 |
| | Health care and social assistance | | | | | | | | | | | | | |
| 6211 | Office of physicians (December 1996=100) | 129.0 | 129.0 | 129.7 | 129.9 | 130.2 | 130.3 | 130.6 | 130.6 | 130.6 | 130.6 | 130.9 | 131.2 | 131. |
| 6215 | Medical and diagnostic laboratories. | 108.2 | 108.2 | 108.3 | 108.4 | 108.5 | 108.6 | 108.6 | 108.5 | 108.2 | 107.9 | | 107.9 | 108.0 |
| 6216 | Home health care services (December 1996=100) | 129.3 | 129.3 | 129.3 | 129.3 | 129.5 | 129.6 | 129.9 | 129.8 | 129.9 | 129.8 | | 129.7 | 129. |
| 622 | Hospitals (December 1992=100) | 173.0 | 172.8 | 172.9 | 173.1 | 173.2 | 173.4 | 174.5 | 174.4 | 174.4 | 175.2 | 175.1 | 175.3 | 175. |
| 6231 | Nursing care facilities | 125.4 | 125.4 | 125.0 | 125.3 | 125.1 | 125.3 | 126.8 | 127.0 | 127.2 | 128.3 | 128.2 | 128.4 | 128. |
| 62321 | Residential mental retardation facilities | 128.7 | 128.7 | 129.5 | 130.0 | 130.1 | 133.8 | 133.8 | 134.2 | 134.5 | 134.7 | 134.6 | 134.7 | 135. |
| | Other services industries | | | | | | | | | | | | | |
| 511 | Publishing industries, except Internet | 110.3 | 110.4 | 110.2 | 110.3 | 110.4 | 110.3 | 110.3 | 110.4 | 110.5 | 110.9 | 110.8 | 110.7 | 110. |
| 515 | Broadcasting, except Internet | 108.7 | 109.5 | 113.5 | 109.2 | 108.3 | 109.3 | 113.7 | 116.1 | 112.9 | 109.8 | 109.0 | 110.2 | 112. |
| 517 | Telecommunications | 100.2 | 100.8 | 100.9 | 101.0 | 101.3 | 101.4 | 101.5 | 101.5 | 101.4 | 101.4 | 100.8 | 101.0 | |
| 5182 523 | Data processing and related services. | 100.8 117.6 | 100.8 121.2 | 100.8 119.7 | 100.8 118.5 | 100.8 119.5 | 101.7 120.2 | 101.7 122.6 | 101.7 123.0 | 101.7 123.0 | 101.7 125.1 | 101.7 125.7 | 101.7 127.5 | 101. 126. |
| 53112 | Security, commodity contracts, and like activity Lessors or nonresidental buildings (except miniwarehouse) | 108.7 | 109.6 | 109.5 | 109.7 | 109.8 | 110.3 | 109.7 | 109.0 | 109.0 | 108.9 | 109.0 | 108.4 | 108. |
| 5312 | Offices of real estate agents and brokers | 100.6 | 100.3 | 100.1 | 99.8 | 99.5 | 99.9 | 100.0 | 99.4 | 99.1 | 99.0 | 98.8 | 98.4 | 97. |
| 5313 | Real estate support activities | 107.4 | 106.9 | 106.9 | 106.4 | 106.5 | 106.5 | 107.1 | 106.9 | 106.9 | 107.3 | 107.2 | 106.9 | 106 |
| 5321 | Automotive equipment rental and leasing (June 2001=100) | 133.1 | 128.9 | 134.2 | 144.4 | 136.6 | 131.0 | 134.9 | 133.3 | 129.4 | 129.4 | 131.2 | 137.1 | 129 |
| 5411 | Legal services (December 1996=100) | 171.5 | 171.5 | 171.5 | 171.9 | 173.1 | 173.3 | 173.3 | 173.3 | 173.4 | 176.6 | 176.5 | 177.6 | |
| 541211 | Offices of certified public accountants | 113.7 | 112.9 | 112.7 | 112.9 | 113.4 | 113.7 | 113.5 | 113.1 | 113.6 | 113.3 | 112.8 | 111.5 | 111. |
| 5413 | Architectural, engineering, and related services | 440.0 | 4400 | 440.5 | 4.40.0 | | 440 = | | | | | | | |
| 54181 | (December 1996=100) | 143.1 104.8 | 143.2 104.8 | 143.6 104.8 | 143.8 105.4 | 143.7 105.4 | 143.7 105.3 | 143.9 105.2 | 144.0 105.4 | 144.0 105.4 | 144.3 105.4 | 144.7 105.6 | 144.8 105.8 | 144. 105. |
| 5613 | Employment services (December 1996=100) | 124.5 | 124.9 | 125.2 | 125.7 | 125.8 | 125.6 | 125.4 | 125.3 | 125.3 | 125.5 | 125.7 | 125.9 | 125. |
| 56151 | Travel agencies | 100.4 | 100.4 | 100.6 | 100.6 | 100.5 | 100.4 | 100.5 | 100.5 | 100.4 | 100.4 | 100.5 | 100.3 | |
| 56172 | Janitorial services | 110.5 | 110.6 | 110.6 | 110.8 | 110.8 | 111.0 | 110.9 | 111.3 | 111.3 | 111.6 | 111.6 | 111.4 | 111. |
| 5621 | Waste collection | 117.9 | 118.7 | 118.6 | 118.2 | 118.7 | 119.0 | 119.1 | 118.9 | 118.3 | 118.9 | | 120.9 | |
| 721 | Accommodation (December 1996=100) | 140.5 | 140.8 | 141.2 | 141.8 | 141.2 | 140.5 | 141.3 | 141.0 | 138.3 | 140.0 | 140.7 | 143.9 | 141. |

43. Annual data: Producer Price Indexes, by stage of processing

[1982 = 100]

| Index | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Finished goods | | | | | | | | | | | |
| Total | 138.0 | 140.7 | 138.9 | 143.3 | 148.5 | 155.7 | 160.4 | 166.6 | 177.1 | 172.5 | 179.9 |
| Foods | 137.2 | 141.3 | 140.1 | 145.9 | 152.7 | 155.7 | 156.7 | 167.0 | 178.3 | 175.5 | 182.5 |
| Energy | 94.1 | 96.7 | 88.8 | 102.0 | 113.0 | 132.6 | 145.9 | 156.3 | 178.7 | 146.9 | 167.3 |
| Other | 148.0 | 150.0 | 150.2 | 150.5 | 152.7 | 156.4 | 158.7 | 161.7 | 167.2 | 171.5 | 173.5 |
| Intermediate materials, supplies, and | | | | | | | | | | | |
| components | | | | | | | | | | | |
| Total | 129.2 | 129.7 | 127.8 | 133.7 | 142.6 | 154.0 | 164.0 | 170.7 | 188.3 | 172.5 | 183.6 |
| Foods | 119.2 | 124.3 | 123.2 | 134.4 | 145.0 | 146.0 | 146.2 | 161.4 | 180.4 | 165.1 | 174.5 |
| Energy | 101.7 | 104.1 | 95.9 | 111.9 | 123.2 | 149.2 | 162.8 | 174.6 | 208.1 | 162.5 | 188.4 |
| Other | 136.6 | 136.4 | 135.8 | 138.5 | 146.5 | 154.6 | 163.8 | 168.4 | 180.9 | 173.4 | 180.8 |
| Crude materials for further processing | | | | | | | | | | | |
| Total | 120.6 | 121.0 | 108.1 | 135.3 | 159.0 | 182.2 | 184.8 | 207.1 | 251.8 | 175.2 | 212.0 |
| Foods | 100.2 | 106.1 | 99.5 | 113.5 | 127.0 | 122.7 | 119.3 | 146.7 | 163.4 | 134.5 | 152.3 |
| Energy | 122.1 | 122.3 | 102.0 | 147.2 | 174.6 | 234.0 | 226.9 | 232.8 | 309.4 | 176.8 | 216.4 |
| Other | 118.0 | 101.5 | 101.0 | 116.9 | 149.2 | 176.7 | 210.0 | 238.7 | 308.5 | 211.1 | 280.7 |

44. U.S. export price indexes by end-use category

[2000 = 100]

| Category | | | | | 2010 | | | | | | 20 | 11 | |
|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Category | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| ALL COMMODITIES | 122.5 | 123.1 | 122.2 | 122.0 | 123.0 | 123.7 | 124.7 | 126.6 | 127.5 | 129.1 | 130.8 | 132.7 | 133.9 |
| Foods, feeds, and beverages | 162.6 164.6 147.8 | 165.1 167.4 147.3 | 164.5 166.7 147.2 | 164.0 166.1 147.7 | 171.1 173.9 147.2 | 174.6 177.6 149.4 | 178.8 181.9 152.8 | 189.4 193.4 153.3 | 191.1 194.6 161.1 | 197.5 201.1 166.8 | 203.5 208.6 155.9 | 206.9 212.1 158.1 | 208.2 213.2 161.0 |
| Industrial supplies and materials | 160.0 | 162.2 | 159.8 | 158.8 | 161.2 | 162.6 | 165.3 | 169.5 | 172.6 | 177.2 | 182.2 | 188.2 | 191.9 |
| Agricultural industrial supplies and materials | 157.1 | 159.1 | 162.5 | 163.9 | 166.6 | 173.2 | 181.5 | 206.3 | 223.0 | 228.0 | 247.6 | 259.0 | 258.1 |
| Fuels and lubricants | 209.2 | 215.2 | 208.0 | 203.7 | 214.7 | 213.1 | 219.6 | 227.4 | 233.9 | 245.0 | 253.5 | 276.3 | 286.7 |
| Nonagricultural supplies and materials, excluding fuel and building materials Selected building materials | 156.2 117.8 | 157.8 118.2 | 155.8 118.7 | 155.2 117.9 | 156.2 117.3 | 158.0 117.1 | 159.9 116.9 | 162.5 117.2 | 164.4 116.2 | 167.8 116.3 | 171.5 116.2 | 173.7 116.3 | 176.4 117.0 |
| Capital goods Electric and electrical generating equipment Nonelectrical machinery | 103.9 108.8 95.0 | 103.8 109.1 94.7 | 103.5 109.3 94.3 | 103.4 108.5 94.2 | 103.4 108.6 94.2 | 103.5 108.7 94.3 | 103.4 109.3 94.1 | 103.7 109.8 94.3 | 103.9 109.8 94.4 | 104.0 110.3 94.2 | 104.0 110.6 94.0 | 104.0 111.2 93.9 | 104.2 111.7 94.0 |
| Automotive vehicles, parts, and engines | 108.5 | 108.5 | 108.5 | 108.5 | 108.6 | 108.7 | 108.9 | 109.1 | 109.1 | 109.2 | 109.2 | 109.7 | 109.8 |
| Consumer goods, excluding automotive Nondurables, manufactured Durables, manufactured | 110.9 112.3 108.1 | 110.8 112.2 108.0 | 110.4 111.5 108.2 | 110.8 111.6 109.1 | 110.7 112.2 108.2 | 111.8 112.9 109.9 | 112.5 113.4 111.0 | 112.9 114.2 111.1 | 112.7 114.0 110.9 | 112.4 112.9 111.0 | 113.2 113.1 111.9 | 114.0 113.5 113.0 | 114.5 114.2 112.5 |
| Agricultural commodities Nonagricultural commodities | 162.7 119.6 | 165.3 120.0 | 165.3 119.1 | 165.0 118.9 | 172.0 119.5 | 176.1 120.0 | 181.0 120.7 | 194.7 121.7 | 198.5 122.4 | 204.7 123.6 | 214.1 124.8 | 218.8 126.5 | 219.6 127.7 |

45. U.S. import price indexes by end-use category

[2000 = 100]

| Catamanu | | | | | 2010 | | | | | | 20 | 11 | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Category | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| ALL COMMODITIES | 127.7 | 126.7 | 125.2 | 125.2 | 125.7 | 125.7 | 127.1 | 129.2 | 131.0 | 133.0 | 135.3 | 139.3 | 142.2 |
| Foods, feeds, and beverages | 149.0 | 151.1 | 148.7 | 149.2 | 152.4 | 153.3 | 156.5 | 160.6 | 162.7 | 166.7 | 167.7 | 174.9 | 178.4 |
| Agricultural foods, feeds, and beverages | 167.4 | 169.8 | 166.1 | 166.3 | 170.3 | 171.1 | 174.9 | 180.3 | 182.6 | 187.5 | 189.0 | 198.8 | 202.9 |
| Nonagricultural (fish, beverages) food products | 107.3 | 108.7 | 109.2 | 110.6 | 111.9 | 113.0 | 115.0 | 116.0 | 117.4 | 119.7 | 119.5 | 120.7 | 122.8 |
| Industrial supplies and materials | 210.7 | 205.6 | 199.5 | 199.7 | 201.0 | 200.1 | 206.6 | 214.5 | 222.6 | 230.1 | 239.4 | 256.2 | 268.0 |
| Fuels and lubricants | 269.3 | 255.6 | 245.8 | 248.2 | 250.8 | 247.1 | 257.7 | 270.1 | 285.2 | 296.9 | 313.4 | 343.7 | 364.7 |
| Petroleum and petroleum products | 294.5 | 278.9 | 267.4 | 269.6 | 273.4 | 269.8 | 282.4 | 296.6 | 313.0 | 324.7 | 342.5 | 380.1 | 405.0 |
| Paper and paper base stocks | 109.5 | 112.7 | 115.5 | 116.5 | 116.2 | 117.5 | 116.9 | 117.5 | 117.5 | 117.7 | 115.5 | 116.3 | 118.9 |
| Materials associated with nondurable | | | | | | | | | | | | | |
| supplies and materials | 147.8 | 148.4 | 146.2 | 146.0 | 146.5 | 147.7 | 150.5 | 154.1 | 157.0 | 160.6 | 163.2 | 165.8 | 168.7 |
| Selected building materials | 130.1 | 133.7 | 131.9 | 126.3 | 125.0 | 124.6 | 125.3 | 126.6 | 127.0 | 129.5 | 129.8 | 131.4 | 131.9 |
| Unfinished metals associated with durable goods | 246.5 | 253.8 | 244.6 | 238.8 | 239.2 | 244.2 | 251.4 | 262.8 | 266.0 | 274.3 | 279.4 | 290.0 | 295.2 |
| Nonmetals associated with durable goods | 107.4 | 107.5 | 107.2 | 107.5 | 107.6 | 107.7 | 107.9 | 108.5 | 108.7 | 110.4 | 111.4 | 112.1 | 113.1 |
| Capital goods | 91.5 | 91.6 | 91.5 | 91.4 | 91.6 | 91.8 | 91.9 | 91.9 | 92.0 | 92.0 | 92.4 | 92.6 | 92.7 |
| Electric and electrical generating equipment | 111.4 | 111.2 | 111.4 | 111.6 | 112.2 | 112.7 | 112.8 | 113.6 | 113.7 | 114.5 | 114.9 | 115.6 | 116.7 |
| Nonelectrical machinery | 85.9 | 86.1 | 86.0 | 85.8 | 86.0 | 86.1 | 86.3 | 86.2 | 86.2 | 86.2 | 86.4 | 86.5 | 86.4 |
| Automotive vehicles, parts, and engines | 108.5 | 108.5 | 108.5 | 108.9 | 109.1 | 109.3 | 109.4 | 109.6 | 109.4 | 109.6 | 109.8 | 110.3 | 110.5 |
| Consumer goods, excluding automotive | 104.5 | 104.6 | 104.4 | 104.2 | 104.1 | 104.2 | 103.7 | 104.1 | 104.2 | 104.5 | 104.9 | 104.7 | 105.2 |
| Nondurables, manufactured | 109.1 | 109.2 | 109.3 | 109.7 | 109.9 | 110.0 | 109.5 | 110.0 | 110.4 | 110.5 | 110.9 | 110.2 | 110.8 |
| Durables, manufactured | 100.2 | 100.3 | 99.8 | 99.1 | 98.6 | 98.7 | 98.1 | 98.5 | 98.2 | 98.7 | 98.9 | 99.2 | 99.5 |
| Nonmanufactured consumer goods | 102.0 | 103.0 | 102.4 | 101.9 | 103.1 | 103.0 | 103.6 | 103.6 | 103.7 | 106.0 | 107.3 | 107.8 | 109.5 |

46. U.S. international price Indexes for selected categories of services

[2000 = 100, unless indicated otherwise]

| Category | | 20 | 09 | | | 20 | 10 | | 2011 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Category | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. |
| Import air freight | 132.9 | 132.8 | 134.8 | 163.9 | 158.3 | 162.5 | 163.2 | 170.1 | 172.8 |
| | 124.1 | 117.4 | 121.6 | 122.9 | 124.0 | 126.3 | 125.7 | 128.1 | 138.9 |
| Import air passenger fares (Dec. 2006 = 100) | | 147.3 | 137.9 | 152.3 | 149.8 | 175.3 | 160.9 | 169.9 | 161.2 |
| Export air passenger fares (Dec. 2006 = 100) | | 138.2 | 141.3 | 156.1 | 157.7 | 176.3 | 172.2 | 169.0 | 172.8 |

47. Indexes of productivity, hourly compensation, and unit costs, quarterly data seasonally adjusted [2005 = 100]

| Item | | 20 | 08 | | | 20 | 09 | | | 20 | 10 | | 2011 |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | I | II | Ш | IV | 1 | II | III | IV | I | II | III | IV | I |
| Business | | | | | | | | | | | | | |
| Output per hour of all persons | 103.6 | 103.9 | 103.5 | 103.5 | 104.4 | 106.7 | 108.4 | 110.2 | 111.4 | 110.9 | 111.6 | 112.4 | 112.6 |
| Compensation per hour | 111.0 | 111.0 | 111.9 | 112.1 | 111.2 | 113.8 | 114.7 | 115.3 | 115.2 | 116.1 | 116.8 | 116.8 | 117.5 |
| Real compensation per hour | 101.8 | 100.6 | 99.8 | 102.4 | 102.2 | 104.1 | 104.0 | 103.8 | 103.4 | 104.3 | 104.6 | 103.9 | 103.2 |
| Unit labor costs | 107.1 | 106.9 | 108.1 | 108.4 | 106.5 | 106.7 | 105.8 | 104.6 | 103.4 | 104.6 | 104.7 | 104.0 | 104.3 |
| Unit nonlabor payments | 105.0 | 108.1 | 109.6 | 107.4 | 110.8 | 110.0 | 112.0 | 113.4 | 116.0 | 115.9 | 117.3 | 118.2 | 119.0 |
| Implicit price deflator | 106.3 | 107.3 | 108.7 | 108.0 | 108.2 | 108.0 | 108.2 | 108.1 | 108.4 | 109.1 | 109.7 | 109.6 | 110.2 |
| Nonfarm business | | | | | | | | | | | | | |
| Output per hour of all persons | 103.5 | 103.9 | 103.4 | 103.4 | 104.4 | 106.7 | 108.4 | 110.1 | 111.4 | 110.9 | 111.5 | 112.3 | 112.8 |
| Compensation per hour | 110.9 | 110.9 | 111.8 | 112.1 | 111.2 | 113.8 | 114.6 | 115.3 | 115.2 | 116.1 | 116.8 | 116.8 | 117.6 |
| Real compensation per hour | 101.8 | 100.5 | 99.7 | 102.5 | 102.2 | 104.1 | 103.9 | 103.8 | 103.4 | 104.3 | 104.6 | 103.9 | 103.2 |
| Unit labor costs | 107.2 | 106.8 | 108.1 | 108.4 | 106.5 | 106.7 | 105.8 | 104.7 | 103.5 | 104.7 | 104.7 | 104.0 | 104.2 |
| Unit nonlabor payments | 104.2 | 107.5 | 109.1 | 107.3 | 111.2 | 110.4 | 112.6 | 113.5 | 116.2 | 116.0 | 117.3 | 117.8 | 118.4 |
| Implicit price deflator | 106.0 | 107.1 | 108.5 | 108.0 | 108.4 | 108.2 | 108.5 | 108.2 | 108.5 | 109.2 | 109.7 | 109.4 | 109.8 |
| Nonfinancial corporations | | | | | | | | | | | | | |
| Output per hour of all employees | 101.8 | 101.5 | 102.4 | 102.7 | 101.7 | 103.0 | 104.3 | 107.8 | 110.3 | 110.4 | 109.5 | 109.9 | 111.0 |
| Compensation per hour | 108.9 | 109.5 | 110.5 | 111.4 | 110.5 | 112.6 | 113.6 | 114.3 | 114.3 | 114.9 | 115.8 | 115.9 | 116.6 |
| Real compensation per hour | 99.9 | 99.2 | 98.6 | 101.8 | 101.6 | 103.0 | 103.0 | 102.9 | 102.6 | 103.3 | 103.7 | 103.1 | 102.4 |
| Total unit costs | 108.6 | 109.9 | 110.3 | 111.4 | 112.2 | 112.4 | 111.4 | 108.6 | 106.2 | 106.3 | 107.6 | 107.5 | 107.0 |
| Unit labor costs | 107.0 | 107.9 | 108.0 | 108.5 | 108.7 | 109.3 | 108.9 | 106.0 | 103.6 | 104.1 | 105.8 | 105.4 | 105.0 |
| Unit nonlabor costs | 112.8 | 115.1 | 116.2 | 119.2 | 121.4 | 120.4 | 117.8 | 115.3 | 112.7 | 111.8 | 112.5 | 112.7 | 111.9 |
| Unit profits | 84.1 | 82.8 | 97.2 | 86.6 | 85.5 | 80.3 | 84.2 | 91.2 | 103.3 | 108.0 | 108.3 | 106.2 | 110.0 |
| Unit nonlabor payments | 103.0 | 104.1 | 109.7 | 108.0 | 109.1 | 106.6 | 106.3 | 107.0 | 109.5 | 110.5 | 111.1 | 110.5 | 111.3 |
| Implicit price deflator | 105.5 | 106.5 | 108.6 | 108.3 | 108.8 | 108.4 | 107.9 | 106.4 | 105.8 | 106.5 | 107.7 | 107.3 | 107.3 |
| Manufacturing | | | | | | | | | | | | | |
| Output per hour of all persons | 107.1 | 105.3 | 103.8 | 102.0 | 101.2 | 102.6 | 105.6 | 107.4 | 108.6 | 110.0 | 110.6 | 111.9 | 113.1 |
| Compensation per hour | 107.6 | 108.5 | 110.0 | 111.8 | 113.2 | 115.5 | 116.4 | 117.6 | 116.3 | 117.7 | 118.5 | 119.4 | 120.2 |
| Real compensation per hour | 98.7 | 98.3 | 98.1 | 102.2 | 104.0 | 105.6 | 105.5 | 105.9 | 104.4 | 105.8 | 106.1 | 106.2 | 105.6 |
| Unit labor costs | 100.5 | 103.0 | 106.0 | 109.7 | 111.8 | 112.6 | 110.2 | 109.6 | 107.1 | 107.0 | 107.1 | 106.7 | 106.3 |

NOTE: Dash indicates data not available.

48. Annual indexes of multifactor productivity and related measures, selected years

[2005 = 100, unless otherwise indicated]

| Item | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Private business | | | | | | | | | | | | | |
| Productivity: | | | | | | | | | | | | | |
| Output per hour of all persons | 79.6 | 82.4 | 85.3 | 88.0 | 92.1 | 95.6 | 98.4 | 100.0 | 101.0 | 102.6 | 103.8 | 107.6 | 111.4 |
| Output per unit of capital services | 105.2 | 104.2 | 102.5 | 98.8 | 97.5 | 98.0 | 99.6 | 100.0 | 100.2 | 99.4 | 95.8 | 91.5 | 94.2 |
| Multifactor productivity | 88.0 | 89.6 | 91.2 | 91.8 | 94.0 | 96.5 | 98.9 | 100.0 | 100.5 | 100.9 | 99.9 | 100.2 | 103.3 |
| Output | 79.2 | 83.6 | 87.4 | 88.2 | 90.0 | 92.8 | 96.7 | 100.0 | 103.1 | 105.3 | 104.3 | 100.6 | 104.3 |
| Inputs: | | | | | | | | | | | | | |
| Labor input | 97.6 | 99.9 | 101.1 | 99.3 | 97.4 | 97.0 | 98.1 | 100.0 | 102.4 | 103.6 | 102.1 | 95.6 | 96.1 |
| Capital services | 75.2 | 80.2 | 85.3 | 89.3 | 92.2 | 94.7 | 97.1 | 100.0 | 102.9 | 106.0 | 108.8 | 109.9 | 110.6 |
| Combined units of labor and capital input | 90.0 | 93.3 | 95.9 | 96.1 | 95.7 | 96.2 | 97.7 | 100.0 | 102.6 | 104.4 | 104.4 | 100.4 | 101.0 |
| Capital per hour of all persons | 75.6 | 79.0 | 83.2 | 89.1 | 94.4 | 97.6 | 98.8 | 100.0 | 100.8 | 103.3 | 108.3 | 117.6 | 118.2 |
| Private nonfarm business | | | | | | | | | | | | | |
| Productivity: | | | | | | | | | | | | | |
| Output per hour of all persons | 80.1 | 82.7 | 85.5 | 88.2 | 92.3 | 95.7 | 98.4 | 100.0 | 100.9 | 102.6 | 103.8 | 107.6 | 111.4 |
| Output per unit of capital services | 106.1 | 104.9 | 102.9 | 99.1 | 97.7 | 98.0 | 99.6 | 100.0 | 100.0 | 99.2 | 95.4 | 90.9 | 93.7 |
| Multifactor productivity | 88.5 | 89.9 | 91.4 | 92.0 | 94.2 | 96.5 | 98.9 | 100.0 | 100.4 | 100.8 | 99.8 | | 103.0 |
| Output | 79.3 | 83.7 | 87.5 | 88.4 | 90.1 | 92.8 | 96.7 | 100.0 | 103.2 | 105.5 | 104.3 | 100.5 | 104.2 |
| Inputs: | | | | | | | | | | | | | |
| Labor input | 97.1 | 99.6 | 100.8 | 99.2 | 97.2 | 96.9 | 98.1 | 100.0 | 102.5 | 103.8 | 102.2 | 95.8 | 96.3 |
| Capital services. | 74.7 | 79.8 | 85.0 | 89.2 | 92.2 | 94.7 | 97.1 | 100.0 | 103.2 | 106.3 | 109.3 | 110.5 | 111.1 |
| Combined units of labor and capital input | 89.6 | 93.1 | 95.7 | 96.0 | 95.6 | 96.2 | 97.7 | 100.0 | 102.8 | 104.6 | 104.6 | 100.6 | 101.1 |
| Capital per hour of all persons | 75.5 | 78.9 | 83.2 | 89.0 | 94.5 | 97.7 | 98.8 | 100.0 | 101.0 | 103.4 | 108.7 | 118.3 | 118.8 |
| Manufacturing [1996 = 100] | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Productivity: | | | | | | | | | | | | | |
| Output per hour of all persons | 73.3 | 77.0 | 80.4 | 81.9 | 87.9 | 93.4 | 95.5 | 100.0 | 100.8 | 105.0 | 104.7 | _ | _ |
| Output per unit of capital services | 101.7 | 102.1 | 102.3 | 95.9 | 94.6 | 95.3 | 97.2 | 100.0 | 100.6 | 101.9 | 96.4 | _ | _ |
| Multifactor productivity | 107.3 | 110.5 | 110.0 | 105.9 | 102.3 | 99.8 | 97.9 | 100.0 | 99.3 | 96.8 | 93.2 | _ | _ |
| Output | 92.1 | 95.9 | 98.9 | 94.2 | 93.9 | 94.9 | 96.6 | 100.0 | 101.5 | 104.0 | 99.4 | _ | _ |
| Inputs: | | | | | | | | | | | | | |
| Hours of all persons | 125.5 | 124.7 | 123.1 | 115.0 | 106.9 | 101.6 | 101.1 | 100.0 | 100.7 | 99.0 | 95.0 | _ | _ |
| Capital services | 90.5 | 93.9 | 96.7 | 98.3 | 99.2 | 99.6 | 99.3 | 100.0 | 100.9 | 102.1 | 103.2 | - | _ |
| Energy | 72.1 | 75.4 | 78.6 | 85.4 | 92.9 | 98.0 | 98.3 | 100.0 | 100.2 | 103.1 | 108.6 | _ | _ |
| Nonenergy materials | 95.4 | 117.7 | 128.4 | 140.3 | 108.6 | 97.0 | 90.8 | 100.0 | 92.2 | 97.7 | 95.2 | _ | _ |
| Purchased business services | 102.3 | 108.7 | 106.7 | 100.0 | 101.0 | 99.3 | 98.5 | 100.0 | 98.3 | 91.3 | 86.4 | _ | _ |
| Combined units of all factor inputs | 104.1 | 105.1 | 103.7 | 102.0 | 98.7 | 98.1 | 91.8 | 100.0 | 98.4 | 97.6 | 92.3 | _ | _ |

NOTE: Dash indicates data not available.

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

[2005 = 100]

| Item | 1965 | 1975 | 1985 | 1995 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|----------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Business | | | | | | | | | | | | | |
| Output per hour of all persons | 43.1 | 54.8 | 63.8 | 74.1 | 92.1 | 95.6 | 98.4 | 100.0 | 100.9 | 102.5 | 103.6 | 107.4 | 111.6 |
| Compensation per hour | 10.3 | 21.4 | 44.1 | 64.7 | 88.8 | 93.0 | 96.2 | 100.0 | 103.8 | 108.1 | 111.5 | 113.7 | 116.4 |
| Real compensation per hour | 58.2 | 70.8 | 76.3 | 82.3 | 96.3 | 98.7 | 99.5 | 100.0 | 100.5 | 101.8 | 101.1 | 103.5 | 104.2 |
| Unit labor costs | 23.9 | 39.0 | 69.1 | 87.4 | 96.4 | 97.3 | 97.8 | 100.0 | 102.8 | 105.4 | 107.6 | 105.9 | 104.3 |
| Unit nonlabor payments | 21.4 | 34.9 | 62.4 | 81.6 | 88.0 | 90.0 | 95.4 | 100.0 | 103.1 | 106.0 | 107.5 | 111.5 | 116.7 |
| Implicit price deflator | 22.9 | 37.4 | 66.4 | 85.1 | 93.1 | 94.4 | 96.9 | 100.0 | 102.9 | 105.7 | 107.6 | 108.1 | 109.2 |
| Nonfarm business | | | | | | | | | | | | | |
| Output per hour of all persons | 45.3 | 56.3 | 64.5 | 75.0 | 92.4 | 95.7 | 98.4 | 100.0 | 100.9 | 102.5 | 103.6 | 107.4 | 111.5 |
| Compensation per hour | 10.6 | 21.6 | 44.5 | 65.2 | 88.9 | 93.1 | 96.2 | 100.0 | 103.8 | 107.9 | 111.4 | 113.7 | 116.4 |
| Real compensation per hour | 59.7 | 71.6 | 76.9 | 82.9 | 96.5 | 98.8 | 99.4 | 100.0 | 100.5 | 101.6 | 101.0 | 103.5 | 104.2 |
| Unit labor costs | 23.3 | 38.4 | 68.9 | 87.0 | 96.2 | 97.2 | 97.8 | 100.0 | 102.8 | 105.3 | 107.6 | 105.9 | 104.4 |
| Unit nonlabor payments | 20.9 | 33.4 | 61.3 | 81.3 | 88.4 | 89.9 | 94.8 | 100.0 | 103.3 | 105.8 | 107.0 | 111.9 | 116.6 |
| Implicit price deflator | 22.4 | 36.4 | 65.9 | 84.8 | 93.1 | 94.3 | 96.6 | 100.0 | 103.0 | 105.5 | 107.4 | 108.3 | 109.2 |
| Nonfinancial corporations | | | | | | | | | | | | | |
| Output per hour of all employees | 46.0 | 54.5 | 64.2 | 74.2 | 91.7 | 95.3 | 98.3 | 100.0 | 101.5 | 101.8 | 102.1 | 104.2 | 110.1 |
| Compensation per hour | 12.1 | 24.0 | 48.2 | 67.8 | 90.7 | 94.7 | 96.9 | 100.0 | 102.8 | 106.4 | 110.1 | 112.7 | 115.4 |
| Real compensation per hour | 68.3 | 79.4 | 83.3 | 86.3 | 98.4 | 100.6 | 100.2 | 100.0 | 99.6 | 100.2 | 99.8 | 102.6 | 103.3 |
| Total unit costs | 24.6 | 43.0 | 74.1 | 89.9 | 98.4 | 98.7 | 97.8 | 100.0 | 101.8 | 105.7 | 110.0 | 111.1 | 106.9 |
| Unit labor costs | 26.2 | 44.1 | 75.0 | 91.5 | 98.9 | 99.5 | 98.6 | 100.0 | 101.3 | 104.5 | 107.8 | 108.2 | 104.8 |
| Unit nonlabor costs | 20.3 | 40.3 | 71.5 | 85.8 | 97.0 | 96.8 | 95.7 | 100.0 | 103.0 | 109.0 | 115.8 | 118.7 | 112.4 |
| Unit profits | 38.7 | 37.8 | 62.4 | 85.4 | 59.4 | 66.0 | 88.0 | 100.0 | 111.6 | 99.8 | 87.7 | 85.3 | 106.4 |
| Unit nonlabor payments | 26.6 | 39.4 | 68.4 | 85.7 | 84.1 | 86.2 | 93.1 | 100.0 | 105.9 | 105.9 | 106.2 | 107.3 | 110.3 |
| Implicit price deflator | 26.4 | 42.4 | 72.6 | 89.3 | 93.5 | 94.6 | 96.6 | 100.0 | 103.0 | 105.0 | 107.2 | 107.9 | 106.8 |
| Manufacturing | | | | | | | | | | | | | |
| Output per hour of all persons | _ | _ | _ | 63.6 | 87.8 | 93.4 | 95.5 | 100.0 | 100.8 | 105.0 | 104.6 | 104.2 | 110.3 |
| Compensation per hour | _ | _ | _ | 65.2 | 88.9 | 96.0 | 96.8 | 100.0 | 102.0 | 105.3 | 109.4 | 115.6 | 117.9 |
| Real compensation per hour | _ | _ | _ | 83.0 | 96.5 | 101.9 | 100.0 | 100.0 | 98.8 | 99.2 | 99.2 | 105.3 | 105.6 |
| Unit labor costs | - | _ | _ | 102.6 | 101.2 | 102.8 | 101.4 | 100.0 | 101.2 | 100.3 | 104.6 | 111.0 | 106.9 |
| Unit nonlabor payments | - | _ | _ | 87.3 | 83.4 | 84.9 | 91.3 | 100.0 | 104.4 | 107.6 | 116.0 | - | - |
| Implicit price deflator | _ | _ | _ | 91.5 | 88.2 | 89.8 | 94.1 | 100.0 | 103.6 | 105.6 | 112.9 | - | - |

Dash indicates data not available.

0. Annual indexes of output per hour for selected NAICS industries 2002=100]

| Mining | NAICS | Industry | 1987 | 1997 | 2000 | 2001 | 2002 | 2003 | 2004 | 200 | 2006 | 2007 | 2008 | 2009 |
|--|-------|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Minryal Minr | | Mining | | | | | | | | | | | | |
| 211 Clarke gas extention | 21 | | 75.0 | 88.3 | 97.8 | 94.9 | 100.0 | 102.8 | 94.0 | 85.0 | 77.1 | 71.2 | 69.1 | 78.9 |
| Minney Decept of and gase | 211 | | 64.9 | 81.0 | 96.7 | 96.6 | 100.0 | 105.9 | 90.0 | 86.6 | 80.9 | | 71.4 | 75.9 |
| 2212 Manufacturing | | | | | | | | | | | | | | |
| Metal ore mining, and quarying, as 4,3 eo. 0, 221 eo. 6, 5 or 0,00 eo. 104,3 eo. 106,4 eo. 104,4 eo. 105,5 eo. 105,5 eo. 106,5 eo. 106 | | | | | | | | | | | | | | |
| Normerabilic minimal and quaryning 84.3 96.0 92.1 96.5 10.00 10.3 10.94 115.4 117.0 10.1 10.3 88.7 117.7 13.8 134.9 | | | | | | | | | | | | | | |
| 2313 Support actives for mining | | | | | | | | | | | | | | |
| Proves generation and supplies 637 97.2 103.9 103.4 100.0 102.1 104.4 111.1 112.1 110.1 105.7 103.1 | | | | | | | | | | | | | | |
| Power generation and supply | 2131 | Support activities for mining | 76.1 | 97.0 | 99.6 | 104.5 | 100.0 | 122.1 | 141.6 | 103.8 | 86.7 | 117.7 | 143.8 | 134.9 |
| Natural gas distribution. 587 86.0 88.1 96.4 100.0 99.9 102.5 106.9 103.2 103.8 104.9 100.9 | | Utilities | | | | | | | | | | | | |
| Manufacturing | | | | 97.2 | 103.9 | 103.4 | 100.0 | | | | | | 105.7 | 103.1 |
| Food. | 2212 | Natural gas distribution | 58.7 | 86.6 | 98.1 | 95.4 | 100.0 | 98.9 | 102.5 | 105.9 | 103.2 | 103.8 | 104.9 | 100.9 |
| Animal Food. | | Manufacturing | | | | | | | | | | | | |
| 3113 Sugar and collectionery products 80.4 80.5 80.5 75.7 80.7 90.3 100.0 101.5 101.0 101.5 101.0 101.3 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.0 101.5 101.5 101.0 101.5 101.5 101.0 101.5 101.5 101.0 101.5 101.5 101.0 101.5 | 311 | | | | | | | | | 106.2 | | 101.7 | | 104.8 |
| 3114 First and confectionery products | | | | | | | | | | | | | | |
| State Four and vegetable preserving and specialty | | | | | | | | | | | | | | |
| 3115 Dairy products. | | | | | | | | | | | | | | |
| 3117 Safford product preparation and packaging 72.5 58.9 82.7 80.0 10.0 99.9 10.0 10.4 10.8 10.5 10.2 10.1 10.4 31.3 10.1 40.7 10.5 31.1 | | | | | | | | | | | | | | |
| 3119 Seafbood products preparation and packaging 72.5 58.9 82.7 88.8 00.0 01.8 96.5 110.5 122.0 101.4 94.2 95.8 3119 Saferice and totalita amountacturing 85.5 67.5 68.6 84.4 100.0 109.8 100.1 102.9 102.8 94.9 96.9 90.0 31.3 312 Severages and tobacco products. 94.3 121.1 106.7 108.3 100.0 111.4 114.7 120.8 113.1 110.0 107.3 113.1 113.1 110.0 107.3 113.2 112.1 106.7 108.3 100.0 111.8 115.4 120.9 112.6 113.3 113.2 123.4 133.2 123.4 133.2 132.2 123.4 133.3 132.5 133.3 132.5 133.3 133.2 133.3 132.5 133.3 133 | | | | | | | | | | | | | | |
| 3119 Sakeries and totalia marufacturing | | 0 0 1 | | | | | | | | | | | | |
| 3112 Beverages and tobacco products. 97.5 99.7 100.8 94.5 100.0 104.8 106.1 102.9 102.8 94.9 95.9 100.3 3121 Beverages and tobacco products. 97.2 100.5 91.1 93.1 100.0 110.8 115.4 120.9 112.6 113.3 113.2 123.4 3122 Tobacco and tobacco products. 107.2 149.3 143.0 146.6 100.0 110.8 115.4 120.9 112.6 113.3 113.2 123.4 3131 Takin mills. 59.8 81.3 86.3 89.4 100.0 110.7 111.1 110.7 102.8 105.9 112.6 113.3 113.2 123.4 3131 Takin mills. 50.0 75.2 75.6 82.5 100.0 112.1 110.7 102.8 105.5 113.7 114.8 106.6 3133 Testels and flater finishing mills. 78.5 83.6 87.2 91.4 100.0 114.0 115.3 13.0 140.7 140.1 140.5 113.3 10.5 113.7 114.8 106.6 3133 Testels and flater finishing mills. 78.5 83.6 87.2 91.0 100.0 114.0 115.3 13.0 140.7 140.4 154.9 106.5 113.3 113.7 114.8 106.6 113.3 113.1 110 | | | | | | | | | | | | | | |
| Severages and tobacco products | | | | | | | | | | | | | | |
| Beverages | 0110 | Culo 1000 production | 07.0 | 00.7 | 100.0 | 01.0 | 100.0 | 101.0 | 100.1 | 102.0 | 102.0 | 00 | 00.0 | .00.0 |
| 3132 Tobacco and tobacco products. 1072 1493 1430 146.6 100.0 116.7 113.0 122.9 122.2 125.9 126.0 124.8 3131 Fiber, yam, and thread mills. 50.0 75.2 75.6 82.5 100.0 111.1 113.0 122.9 122.2 125.9 126.0 124.8 3131 Fiber, yam, and thread mills. 50.0 75.2 75.6 82.5 100.0 111.1 116.7 108.8 105.5 113.7 114.8 106.6 106.3 106.5 113.7 114.8 106.6 106.3 106.5 113.7 114.8 106.6 106.5 113.7 114.8 106.6 106.7 114.0 114.0 115.3 133.0 140.7 144.6 154.9 166.5 133.1 124.0 101.0 87.0 84.0 133.3 124.0 101.0 87.0 84.0 133.3 124.0 101.0 87.0 84.0 133.3 124.0 101.0 87.0 84.0 133.3 134.0 144.0 144.0 154.9 133.3 102.4 101.0 87.0 84.0 133.3 134.0 144.0 104.5 133.3 102.4 101.0 87.0 84.0 133.3 134.0 | 312 | Beverages and tobacco products | 94.3 | 121.1 | 106.7 | 108.3 | 100.0 | 111.4 | 114.7 | 120.8 | 113.1 | 110.0 | 107.1 | 111.1 |
| Table Tabl | | | | | | | | | | | | | | |
| Signature Fiber, yarm, and thread mills | | | | | | | | | | | | | | |
| Fabric mills | | | | | | | | | | | | | | |
| 313 Textile and fabric finishing mills | 3131 | Tibor, yarri, and uncad milio | 30.0 | 75.2 | 73.0 | 02.5 | 100.0 | 112.1 | 110.7 | 100.0 | 100.0 | 110.7 | 114.0 | 100.0 |
| Table Tabl | 3132 | Fabric mills | 56.0 | 82.5 | 90.2 | 91.4 | 100.0 | 114.0 | 115.3 | 133.0 | 140.7 | 144.6 | 154.9 | 160.5 |
| 3141 Textile furnishings mills 72.4 93.2 105.9 99.0 100.0 105.7 115.3 119.1 108.4 100.9 101.9 87.0 | | - | | | | | | | | | | | | |
| 3149 Other textile product mills | | | | | | - | | | | | | | | |
| Apparel Apparel 73.3 99.9 116.6 116.9 100.0 106.6 94.2 94.4 86.0 55.5 52.5 43.6 3151 Apparel knitting mills 71.3 92.8 100.4 97.3 100.0 93.2 83.7 97.8 97.7 64.6 62.6 62.4 3152 Cut and sew apparel 70.6 99.0 118.8 119.3 100.0 109.5 96.4 92.0 82.4 52.1 48.7 37.9 3159 Accessories and other apparel 129.9 132.2 129.8 137.4 100.0 105.8 95.8 109.8 96.3 70.7 69.7 69.7 69.7 316 Leather and aliled products 83.9 119.1 133.8 138.5 100.0 104.9 128.4 129.4 133.7 125.3 129.2 114.5 132.4 133.8 138.5 100.0 105.8 95.8 109.8 96.3 70.7 69.7 | | | | | | | | | | | | | | |
| Apparek Intiting mills | 3143 | Other textile product milio | 12.4 | 33.2 | 100.0 | 33.0 | 100.0 | 30.1 | 110.4 | 120.5 | 120.3 | 104.7 | 104.0 | 30.3 |
| 3152 Cut and sew apparel | 315 | Apparel | 73.3 | 99.9 | 116.6 | 116.9 | 100.0 | 106.6 | 94.2 | 94.4 | 86.0 | 55.5 | 52.5 | 43.6 |
| 3159 Accessories and other apparel | | | | | | | | | | | | | | |
| 316 Leather and allied products 83,9 119,1 133,8 138,5 100,0 104,9 128,4 129,4 133,7 125,3 129,2 114,5 1361 Leather and hide tanning and finishing 138,4 153,7 135,8 140,1 100,0 103,1 135,7 142,4 127,8 156,1 144,4 120,0 132,5 132,5 100,0 105,9 110,0 115,9 122,4 109,2 129,5 122,4 136,2 132,4 136,3 136,2 132,9 100,0 109,2 163,7 160,8 182,3 163,4 156,2 132,4 133,7 123,8 138,5 130,0 109,2 163,7 160,8 182,3 163,4 156,2 132,4 133,7 129,2 132,5 132,4 132,9 1 | | • | | | | | | | | | | | | |
| 3161 Leather and hide tanning and finishing. 138.4 153.7 135.8 140.1 100.0 103.1 135.7 142.4 127.8 156.1 144.4 120.0 3162 Footwear | | | | | | | | | | | | | | |
| 3162 | 010 | Loadilor and amou producto | 00.0 | 110.1 | 100.0 | 100.0 | 100.0 | 104.0 | 120.4 | 120.4 | 100.7 | 120.0 | 120.2 | 114.0 |
| 3169 Other leather products. | | | | | | | | | | | | | | |
| 321 Wood products | | | | | | | | | | | | | | |
| 3211 Sawmills and wood preservation. 67.3 86.9 90.9 90.6 100.0 108.3 103.9 108.3 113.4 108.4 112.0 120.2 120 | | | | | | | | | | | | | | |
| 3212 Plywood and engineered wood products. 90.3 90.4 89.6 95.1 100.0 96.7 92.3 99.6 105.5 108.7 104.7 102.4 3219 Other wood products. 89.9 87.3 90.4 90.9 100.0 100.7 106.5 111.5 113.2 115.9 112.2 105.1 322 Paper and paper products. 75.5 87.9 93.5 93.8 100.0 104.4 108.1 108.6 109.9 114.4 113.7 114.5 3221 Pulp, paper, and paperboard mills 61.9 75.6 88.2 90.4 100.0 106.2 110.4 110.2 110.9 114.6 115.5 113.8 3222 Converted paper products. 84.4 94.8 96.0 95.3 100.0 104.0 107.5 108.8 110.5 115.9 112.2 105.1 322 115.9 112.2 105.1 112.2 105.1 112.2 105.1 112.2 105.1 112.2 | | | | | | | | | | | | | | |
| 3219 Other wood products | 02 | Carring and need processation | 07.0 | 00.0 | 00.0 | 00.0 | 100.0 | 100.0 | 100.0 | 100.0 | | 100.1 | | .20.2 |
| 322 Paper and paper products. 75.5 87.9 93.5 93.8 100.0 104.4 108.1 108.6 109.9 114.4 113.7 114.5 3221 Pulp, paper, and paperboard mills. 61.9 75.6 88.2 90.4 100.0 106.2 110.4 110.9 114.6 115.5 113.8 3222 Converted paper products. 84.4 94.8 96.0 95.3 100.0 104.0 107.5 108.8 110.5 115.9 114.4 115.5 113.8 323 Printing and related support activities. 87.6 88.8 94.8 95.1 100.0 100.3 103.7 109.1 111.7 117.0 118.5 113.7 3241 Petroleum and coal products. 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 3241 Petroleum and coal products. 60.8 85.6 96.8 94.9 100.0 102.0 105.9 | | | | | | | | | | | | | | 102.4 |
| 3221 Puip, paper, and paperboard mills. 61.9 75.6 88.2 90.4 100.0 106.2 110.4 110.2 110.9 114.6 115.5 113.8 3222 Converted paper products. 84.4 94.8 96.0 95.3 100.0 104.0 107.5 108.8 110.5 115.9 114.4 116.3 323 Printing and related support activities. 87.6 88.8 94.8 95.1 100.0 100.3 103.7 109.1 111.7 117.0 118.5 113.7 3231 Printing and related support activities. 87.6 88.8 94.8 95.1 100.0 100.3 103.7 109.1 111.7 117.0 118.5 113.7 3241 Petroleum and coal products. 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 325 Chemicals. 75.0 87.4 92.9 91.9 100.0 101.3 105.3 | | | | | | | | | | | | | | |
| 3222 Converted paper products. 84.4 94.8 96.0 95.3 100.0 104.0 107.5 108.8 110.5 115.9 114.4 116.3 323 Printing and related support activities. 87.6 88.8 94.8 95.1 100.0 100.3 103.7 109.1 111.7 117.0 118.5 113.7 3231 Printing and related support activities. 87.6 88.8 94.8 95.1 100.0 100.3 103.7 109.1 111.7 117.0 118.5 113.7 324 Petroleum and coal products. 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 325 Chemicals. 75.0 87.4 92.9 91.9 100.0 101.3 105.3 109.4 109.1 116.0 102.3 3251 Basic chemicals. 76.1 80.2 94.6 87.6 100.0 108.5 121.8 129.6 134.1 | | | | | | | | | | | | | | |
| 323 Printing and related support activities | | | | | | | | | | | | | | |
| 3231 Printing and related support activities 87.6 88.8 94.8 95.1 100.0 100.3 103.7 109.1 111.7 117.0 118.5 113.7 324 Petroleum and coal products 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 3241 Petroleum and coal products 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 325 Chemicals 75.0 87.4 92.9 91.9 100.0 101.3 105.3 109.4 109.1 116.0 108.1 102.3 3251 Basic chemicals 76.1 80.2 94.6 87.6 100.0 108.5 121.8 129.6 134.1 155.0 132.2 116.2 3252 Resin, rubber, and artificial fibers 62.9 81.2 89.0 86.3 100.0 97.7 97.3 103.4 <td< td=""><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | • | | | | | | | | | | | |
| 324 Petroleum and coal products. 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 3241 Petroleum and coal products. 60.8 85.6 96.8 94.9 100.0 102.0 105.9 106.2 104.3 106.4 103.2 106.1 325 Chemicals. 75.0 87.4 92.9 91.9 100.0 101.3 105.3 109.4 109.1 116.0 108.1 102.3 3251 Basic chemicals. 76.1 80.2 94.6 87.6 100.0 108.5 121.8 129.6 134.1 155.0 132.2 116.2 3252 Resin, rubber, and artificial fibers. 62.9 81.2 89.0 86.3 100.0 97.7 97.3 103.4 105.5 108.0 98.8 91.6 3254 Paints coatings, and adhesives. 89.6 100.2 89.3 101.0 103.0 103.6 107.0 107.5 10 | | | | | | | | | | | | | | |
| 3241 Petroleum and coal products | | | | | | | | | | | | | | |
| 325 Chemicals | | | | | | | | | | | | | | |
| 3251 Basic chemicals | | | | | | | | | | | | | | |
| 3252 Resin, rubber, and artificial fibers. 62.9 81.2 89.0 86.3 100.0 97.7 97.3 103.4 105.5 108.0 98.8 91.6 3253 Agricultural chemicals. 80.8 100.6 92.8 89.9 100.0 110.4 121.0 139.2 134.7 138.3 132.8 151.4 3254 Pharmaceuticals and medicines. 89.6 102.8 98.3 101.8 100.0 103.0 103.6 107.0 107.5 103.8 102.0 97.3 3255 Paints, coatings, and adhesives. 81.6 91.4 90.5 97.3 100.0 106.1 109.7 111.2 106.7 106.2 101.0 94.6 3256 Soap, cleaning compounds, and toiletries. 68.2 80.4 82.3 84.6 100.0 92.8 102.6 110.2 111.5 134.9 127.5 126.9 3259 Other chemical products and preparations. 62.3 82.6 98.1 90.9 100.0 98.6 | 020 | Chemidale | 70.0 | 07.4 | 02.0 | 01.0 | 100.0 | 101.0 | 100.0 | 100.4 | 100.1 | 110.0 | 100.1 | 102.0 |
| 3253 Agricultural chemicals | 3251 | | 76.1 | 80.2 | 94.6 | 87.6 | 100.0 | 108.5 | 121.8 | 129.6 | 134.1 | 155.0 | 132.2 | 116.2 |
| 3254 Pharmaceuticals and medicines | | | | | | | | | | | | | | |
| 3255 Paints, coatings, and adhesives | | | | | | | | | | | | | | |
| 3256 Soap, cleaning compounds, and toiletries. 68.2 80.4 82.3 84.6 100.0 92.8 102.6 110.2 111.5 134.9 127.5 126.9 Other chemical products and preparations. 62.3 82.6 98.1 90.9 100.0 98.6 96.2 96.0 91.5 103.5 104.3 99.3 326 Plastics and rubber products. 67.3 82.7 91.1 92.8 100.0 103.8 105.9 108.7 108.6 107.3 102.6 101.7 3261 Plastics products. 67.3 80.8 90.7 92.4 100.0 103.9 105.8 108.5 106.8 104.5 100.2 99.1 3262 Rubber products. 71.3 93.2 94.8 95.5 100.0 103.5 106.4 109.4 114.2 118.0 111.8 111.3 327 Nonmetallic mineral products. 83.6 95.1 98.6 95.6 100.0 107.1 105.3 111.6 110.7 112.7 107.6 100.2 | | | | | | | | | | | | | | |
| 3259 Other chemical products and preparations | 0200 | | 51.0 | 51.7 | 55.5 | 57.5 | 100.0 | 100.1 | 100.7 | | 100.7 | 100.2 | 101.0 | 0-1.0 |
| 326 Plastics and rubber products 67.3 82.7 91.1 92.8 100.0 103.8 105.9 108.7 108.6 107.3 102.6 101.7 3261 Plastics products 67.3 80.8 90.7 92.4 100.0 103.9 105.8 108.6 104.5 100.2 99.1 3262 Rubber products 71.3 93.2 94.8 95.5 100.0 103.5 106.4 109.4 114.2 118.0 111.8 111.3 327 Nonmetallic mineral products 83.6 95.1 98.6 95.6 100.0 107.1 105.3 111.6 110.7 112.7 107.6 100.2 | | | | | | | | | | | | | | |
| 3261 Plastics products | | | | | | | | | | | | | | |
| 3262 Rubber products | | | | | | | | | | | | | | |
| 327 Nonmetallic mineral products | | | | | | | | | | | | | | |
| | 0202 | | 71.5 | 30.2 | 34.0 | 33.3 | 130.0 | 100.0 | 150.4 | 100.4 | 117.2 | 110.0 | | 111.5 |
| 3271 Clay products and refractories | | | | | | | | | | | | | | |
| | 3271 | Clay products and refractories | 90.6 | 102.7 | 108.5 | 99.1 | 100.0 | 109.5 | 116.0 | 122.0 | 122.2 | 122.4 | 118.1 | 100.9 |

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

| NAICS | Industry | 1987 | 1997 | 2000 | 2001 | 2002 | 2003 | 2004 | 200 | 2006 | 2007 | 2008 | 2009 |
|---|--|--|--|--------------------------------------|--------------------------------------|---|---|---|---|---|---|---|-------------------------------------|
| | - | | | | | | | | | | | | |
| 3272 | Glass and glass products | 75.6 | 91.1 | 100.2 | 94.1 | 100.0 | 106.7 | 105.7 | 111.8 | 119.2 | 119.2 | 115.5 | 119.1 |
| 3273 | Cement and concrete products | 90.5 | 97.0 | 99.3 | 95.5 | 100.0 | 106.3 | 101.0 | 104.6 | 101.6 | 106.6 | 98.9 | 88.6 |
| 3274 | Lime and gypsum products | 89.3 | 101.2 | 99.8 | 103.1 | 100.0 | 109.3 | 107.2 | 121.9 | 119.3 | 112.4 | 111.3 | 103.4 |
| 3279 | Other nonmetallic mineral products | 79.4 | 94.9 | 90.3 | 95.2 | 100.0 | 105.7 | 106.8 | 118.5 | 112.8 | 111.0 | 112.6 | 106.2 |
| 331 | Primary metals | 70.4 | 86.9 | 88.0 | 87.6 | 100.0 | 101.5 | 113.3 | 114.2 | 112.5 | 115.9 | 121.5 | 105.5 |
| 3311 | Iron and steel mills and ferroalloy production | 51.9 | 80.1 | 84.6 | 83.6 | 100.0 | 106.1 | 136.5 | 134.1 | 138.0 | 139.4 | 151.6 | 117.7 |
| 3312 | Steel products from purchased steel | 81.9 | 102.9 | 99.1 | 101.3 | 100.0 | 91.2 | 81.5 | 76.1 | 68.0 | 71.7 | 67.5 | 57.0 |
| 3313 | Alumina and aluminum production | 72.7 | 80.3 | 77.5 | 77.2 | 100.0 | 101.8 | 110.4 | 125.2 | 123.1 | 124.3 | 121.7 | 115.4 |
| 3314 | Other nonferrous metal production | 90.8 | 93.7 | 96.2 | 93.4 | 100.0 | 108.8 | 109.4 | 105.7 | 94.9 | 117.6 | 122.7 | 105.0 |
| 3315 | Foundries | 69.4 | 85.5 | 88.7 | 91.2 | 100.0 | 100.4 | 106.8 | 111.4 | 114.1 | 111.5 | 103.7 | 105.6 |
| 000 | Fabricated metal and dust | 70.0 | 00.0 | 04.7 | 04.0 | 400.0 | 400.7 | 404.4 | 404.0 | 400.0 | 100.0 | 440.5 | 404.6 |
| 332 3321 | Fabricated metal products Forging and stamping | 78.3 68.8 | 90.0 80.4 | 94.7 97.8 | 94.6 97.3 | 100.0 100.0 | 102.7 106.6 | 101.4 112.3 | 104.3 116.2 | 106.2 118.1 | 108.6 125.7 | 110.5 126.1 | 101.3 117.5 |
| 3322 | Cutlery and handtools | 76.1 | 88.1 | 93.4 | 97.3 | 100.0 | 99.2 | 90.9 | 95.4 | 97.2 | 105.6 | 101.9 | 89. |
| 3323 | Architectural and structural metals | 83.5 | 94.0 | 95.6 | 95.5 | 100.0 | 103.4 | 98.7 | 103.5 | 106.5 | 107.7 | 106.3 | 96.0 |
| 3324 | Boilers, tanks, and shipping containers | 86.7 | 100.6 | 95.2 | 95.0 | 100.0 | 103.7 | 96.0 | 99.3 | 101.0 | 106.2 | 104.2 | 99.7 |
| 3324 | Boilers, tanks, and shipping containers | 00.7 | 100.0 | 93.2 | 93.0 | 100.0 | 103.7 | 90.0 | 99.5 | 101.0 | 100.2 | 104.2 | 33.1 |
| 3325 | Hardware | 77.0 | 86.8 | 99.4 | 98.4 | 100.0 | 105.7 | 104.4 | 106.7 | 107.1 | 92.8 | 96.8 | 84.0 |
| 3326 | Spring and wire products | 65.4 | 79.6 | 89.7 | 89.0 | 100.0 | 106.0 | 104.4 | 111.0 | 110.7 | 108.9 | 115.0 | 110.0 |
| 3327 | Machine shops and threaded products | 65.2 | 87.2 | 94.9 | 95.3 | 100.0 | 100.4 | 101.6 | 100.9 | 102.0 | 105.0 | 108.6 | 96.0 |
| 3328 | Coating, engraving, and heat treating metals | 64.1 | 85.7 | 89.4 | 92.5 | 100.0 | 100.2 | 105.9 | 117.6 | 115.2 | 117.0 | 118.6 | 111.3 |
| 3329 | Other fabricated metal products | 85.2 | 93.6 | 93.8 | 90.8 | 100.0 | 104.5 | 104.8 | 106.5 | 111.1 | 114.2 | 121.5 | 112. |
| 222 | Machinen | 70.0 | 0.5 - | 05.7 | 00.7 | 100.0 | 107.7 | 100 7 | 1147 | 147.0 | 140.0 | 147 5 | 440 |
| 333 | Machinery | 70.0 | 85.7 | 95.7 | 93.7 | 100.0 | 107.7 | 108.7 | 114.7 | 117.9 | 119.6 | 117.5 | 110. |
| 3331 | Agriculture, construction, and mining machinery | 69.1 | 96.1 | 96.1 | 95.3 | 100.0 | 112.3 | 120.8 | 124.0 | 125.1 | 125.9 | 127.4 | 113. |
| 3332 | Industrial machinery | 63.4 | 84.8 | 109.9 | 89.6 | 100.0 | 98.9 | 107.3 | 105.3 | 116.3 | 115.2 | 102.4 | 93. |
| 3333 | Commercial and service industry machinery | 88.9 | 102.1 | 102.9 | 97.1 | 100.0 | 107.5 | 109.6 | 118.4 | 127.4 | 116.0 | 121.4 | 117. |
| 3334 | HVAC and commercial refrigeration equipment | 70.6 | 84.1 | 90.8 | 93.3 | 100.0 | 109.6 | 112.0 | 116.1 | 113.1 | 110.3 | 109.5 | 110.0 |
| 3335 | Metalworking machinery | 75.8 | 89.6 | 96.2 | 94.2 | 100.0 | 103.9 | 102.9 | 110.9 | 111.8 | 117.9 | 117.6 | 107. |
| 3336 | Turbine and power transmission equipment | 61.1 | 76.5 | 87.9 | 97.5 | 100.0 | 110.4 | 96.9 | 101.2 | 96.9 | 95.1 | 92.2 | 80.2 |
| 3339 | Other general purpose machinery | 70.5 | 84.7 | 96.1 | 93.5 | 100.0 | 108.2 | 107.6 | 117.7 | 122.2 | 127.8 | 123.6 | 119. |
| 334 | Computer and electronic products | 15.2 | 53.5 | 96.3 | 96.6 | 100.0 | 114.1 | 127.2 | 134.1 | 145.0 | 156.9 | 161.2 | 157. |
| 3341 | Computer and peripheral equipment | 3.7 | 33.3 | 78.2 | 84.6 | 100.0 | 121.7 | 134.2 | 173.5 | 233.4 | 288.4 | 369.3 | 368. |
| | | | | | | | | | | | | | |
| 3342 3343 | Communications equipment | 31.2 41.6 | 78.2 67.0 | 128.4 84.9 | 120.1 86.7 | 100.0 100.0 | 113.4 | 122.0 155.8 | 118.5 149.2 | 146.3 | 145.1 | 117.2 92.7 | 99.1 61.8 |
| | Audio and video equipment | | | | | | 112.6 | | | 147.1 | 111.4 | | |
| 3344 | Semiconductors and electronic components | 6.4 | 37.8 | 87.6 | 87.7 | 100.0 | 121.7 | 133.8 | 141.1 | 138.1 | 161.9 | 171.1 | 164.3 |
| 3345 3346 | Electronic instruments | 59.4 97.4 | 85.1 113.5 | 98.4 93.9 | 100.3 89.0 | 100.0 100.0 | 105.8 | 121.9 128.9 | 124.4 129.8 | 129.2 125.0 | 135.4 | 135.3 | 136.7 |
| 3340 | Magnetic media manufacturing and reproduction | 97.4 | 113.5 | 93.9 | 09.0 | 100.0 | 114.5 | 120.9 | 129.0 | 125.0 | 133.1 | 148.8 | 164.6 |
| 335 | Electrical equipment and appliances | 66.0 | 88.1 | 98.2 | 98.0 | 100.0 | 103.6 | 109.4 | 114.6 | 115.0 | 117.7 | 113.4 | 108.1 |
| 3351 | Electric lighting equipment | 80.6 | 88.6 | 90.2 | 94.3 | 100.0 | 98.4 | 107.9 | 112.5 | 121.5 | 121.4 | 125.3 | 124.2 |
| 3352 | Household appliances | 53.5 | 76.0 | 89.3 | 94.9 | 100.0 | 111.6 | 121.2 | 124.6 | 129.7 | 124.5 | 118.5 | 120.0 |
| 3353 | Electrical equipment | 67.3 | 97.9 | 97.2 | 98.5 | 100.0 | 102.1 | 110.6 | 118.1 | 119.7 | 125.5 | 118.7 | 111.2 |
| 3359 | Other electrical equipment and components | 68.7 | 87.3 | 104.7 | 99.0 | 100.0 | 102.0 | 101.8 | 106.4 | 101.5 | 107.0 | 103.7 | 96.4 |
| | | 05.4 | 70.7 | 00.0 | 00.0 | 400.0 | 400.0 | 407.0 | 440.0 | 444.0 | 100.0 | 400.4 | |
| 336 | Transportation equipment | 65.4 | 78.7 | 86.8 | 89.2 | 100.0 | 109.0 | 107.9 | 113.3 | 114.9 | 126.2 | 120.4 | 117.3 |
| 3361 | Motor vehicles | 60.4 | 79.5 | 87.1 | 87.3 | 100.0 | 112.0 | 113.2 | 118.5 | 130.6 | 134.7 | 120.7 | 115.5 |
| 3362 | Motor vehicle bodies and trailers | 81.0 | 95.2 | 93.7 | 84.2 | 100.0 | 103.8 | 104.8 | 107.8 | 103.4 | 111.9 | 103.9 | 96. |
| 3363 | Motor vehicle parts | 60.3 | 76.9 | 86.1 | 88.1 | 100.0 | 104.8 | 105.6 | 109.9 | 108.6 | 114.8 | 109.6 | 109.0 |
| 3364 | Aerospace products and parts | 73.1 | 84.1 | 92.2 | 97.3 | 100.0 | 99.3 | 93.9 | 102.8 | 97.1 | 115.1 | 110.3 | 113.6 |
| 3365 | Railroad rolling stock | 38.0 | 68.5 | 81.1 | 86.3 | 100.0 | 94.1 | 87.2 | 88.4 | 95.2 | 94.0 | 109.8 | 112. |
| 3366 | Ship and boat building | 73.5 | 76.5 | 94.4 | 93.3 | 100.0 | 103.7 | 106.9 | 102.3 | 97.8 | 103.4 | 115.6 | 121. |
| 3369 | Other transportation equipment | 48.7 | 65.5 | 83.3 | 83.4 | 100.0 | 110.0 | 110.4 | 112.8 | 122.9 | 195.0 | 217.1 | 183. |
| 337 | Furniture and related products | 75.6 | 88.7 | 91.3 | 92.0 | 100.0 | 102.0 | 103.2 | 107.4 | 108.7 | 107.8 | 111.8 | 101. |
| 3371 | Household and institutional furniture | 76.8 | 89.3 | 92.7 | 94.7 | 100.0 | 101.1 | 100.8 | 105.9 | 109.7 | 107.5 | 112.1 | 100. |
| | | | | | | | | | | | | | |
| 3372 | Office furniture and fixtures | 74.0 | 86.3 | 86.9 | 84.7 | 100.0 | 106.2 | 110.3 | 112.2 | 106.7 | 106.0 | 107.6 | 93. |
| 3379 | Other furniture related products | 77.4 | 89.6 | 90.2 | 94.8 | 100.0 | 99.4 | 109.4 | 115.5 | 120.5 | 120.3 | 122.6 | 119.1 |
| 339 | Miscellaneous manufacturing | 64.5 | 79.3 | 92.6 | 94.0 | 100.0 | 106.8 | 106.3 | 114.7 | 118.3 | 117.8 | 119.7 | 120. |
| | | 57.7 | 76.6 | 90.3 | 93.8 | 100.0 | 107.5 | 108.4 | 116.0 | 117.7 | 119.2 | 122.0 | 121. |
| 3391 | Medical equipment and supplies | | 83.1 | 96.0 | 94.7 | 100.0 | 105.8 | 104.6 | 113.0 | 117.8 | 114.5 | 114.4 | 113.0 |
| | Medical equipment and supplies Other miscellaneous manufacturing | 71.8 | 00.1 | | | | | | | | | | |
| 3391 3399 | Other miscellaneous manufacturing Wholesale trade | | | | | | | | | | | | |
| 3391 3399 42 | Other miscellaneous manufacturing | 59.2 | 80.9 | 94.4 | 95.4 | 100.0 | 103.9 | 109.2 | 110.0 | 111.5 | 111.0 | 108.5 | |
| 3391 3399 | Other miscellaneous manufacturing | 59.2 44.1 | | 94.4 88.8 | 95.4 91.8 | 100.0 100.0 | 103.9 105.2 | 109.2 116.4 | 110.0 120.7 | 111.5 124.7 | 111.0 124.1 | 108.5 121.5 | 104.9 113.9 |
| 3391 3399 42 | Other miscellaneous manufacturing | 59.2 | 80.9 | | | | | | | | | | 113. |
| 3391 3399 42 423 | Other miscellaneous manufacturing | 59.2 44.1 | 80.9 70.8 | 88.8 | 91.8 | 100.0 | 105.2 | 116.4 | 120.7 | 124.7 | 124.1 | 121.5 | 113. 84. |
| 3391 3399 42 423 4231 | Other miscellaneous manufacturing | 59.2 44.1 55.9 | 80.9 70.8 75.0 | 88.8 87.5 | 91.8 90.0 | 100.0 100.0 | 105.2 103.0 | 116.4 107.2 | 120.7 109.3 | 124.7 116.9 | 124.1 112.4 | 121.5 98.9 | 113. 84. 102. |
| 3391 3399 42 423 4231 4232 | Other miscellaneous manufacturing | 59.2 44.1 55.9 69.5 | 80.9 70.8 75.0 86.3 | 88.8 87.5 97.0 | 91.8 90.0 95.5 | 100.0 100.0 100.0 | 105.2 103.0 109.6 | 116.4 107.2 117.5 | 120.7 109.3 117.2 | 124.7 116.9 123.1 | 124.1 112.4 117.6 | 121.5 98.9 99.5 | |
| 3391 3399 42 423 4231 4232 4233 4234 | Other miscellaneous manufacturing Wholesale trade Wholesale trade Durable goods Motor vehicles and parts Furniture and furnishings Lumber and construction supplies Commercial equipment. | 59.2 44.1 55.9 69.5 88.0 10.0 | 80.9 70.8 75.0 86.3 80.6 35.9 | 88.8 87.5 97.0 86.9 67.1 | 91.8 90.0 95.5 94.1 81.4 | 100.0 100.0 100.0 100.0 100.0 | 105.2 103.0 109.6 108.7 113.3 | 116.4 107.2 117.5 115.1 133.7 | 120.7 109.3 117.2 117.4 150.7 | 124.7 116.9 123.1 115.0 164.2 | 124.1 112.4 117.6 112.3 176.7 | 121.5 98.9 99.5 110.2 193.0 | 113. 84. 102. 100. 196. |
| 3391 3399 42 423 4231 4232 4233 4234 4235 | Other miscellaneous manufacturing | 59.2 44.1 55.9 69.5 88.0 10.0 | 80.9 70.8 75.0 86.3 80.6 35.9 | 88.8 87.5 97.0 86.9 67.1 | 91.8 90.0 95.5 94.1 81.4 | 100.0 100.0 100.0 100.0 100.0 | 105.2 103.0 109.6 108.7 113.3 | 116.4 107.2 117.5 115.1 133.7 | 120.7 109.3 117.2 117.4 150.7 | 124.7 116.9 123.1 115.0 164.2 | 124.1 112.4 117.6 112.3 176.7 | 121.5 98.9 99.5 110.2 193.0 | 113. 84. 102. 100. 196. |
| 3391 3399 42 423 4231 4232 4233 4234 | Other miscellaneous manufacturing Wholesale trade Wholesale trade Durable goods Motor vehicles and parts Furniture and furnishings Lumber and construction supplies Commercial equipment. | 59.2 44.1 55.9 69.5 88.0 10.0 | 80.9 70.8 75.0 86.3 80.6 35.9 | 88.8 87.5 97.0 86.9 67.1 | 91.8 90.0 95.5 94.1 81.4 | 100.0 100.0 100.0 100.0 100.0 | 105.2 103.0 109.6 108.7 113.3 | 116.4 107.2 117.5 115.1 133.7 | 120.7 109.3 117.2 117.4 150.7 | 124.7 116.9 123.1 115.0 164.2 | 124.1 112.4 117.6 112.3 176.7 | 121.5 98.9 99.5 110.2 193.0 | 113. 84. 102. 100. |

0. Continued - Annual indexes of output per hour for selected NAICS industries 2002=100]

| NAICS | Industry | 1987 | 1997 | 2000 | 2001 | 2002 | 2003 | 2004 | 200 | 2006 | 2007 | 2008 | 2009 |
|---------------|---|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 4239 | Miscellaneous durable goods | 72.2 | 80.5 | 91.9 | 93.1 | 100.0 | 97.2 | 110.7 | 105.4 | 97.6 | 93.6 | 92.6 | 89.2 |
| 424 | Nondurable goods | | 94.1 | 99.4 | 99.3 | 100.0 | 104.9 | 108.3 | 109.3 | 107.2 | 106.7 | 104.8 | 105.5 |
| 4241 | Paper and paper products | | 85.9 | 86.5 | 89.7 | 100.0 | 101.9 | 110.7 | 117.2 | 112.5 | 121.0 | 107.5 | 106.1 |
| 4242 | Druggists' goods | 78.7 | 111.3 | 95.7 | 94.6 | 100.0 | 112.0 | 118.7 | 126.6 | 125.4 | 117.3 | 120.5 | 131.1 |
| 4243 | Apparel and piece goods | 70.3 | 81.5 | 88.7 | 93.9 | 100.0 | 104.4 | 110.7 | 121.2 | 124.1 | 126.3 | 125.3 | 130.9 |
| 4244 | Grocery and related products | | 101.6 | 103.9 | 103.4 | 100.0 | 106.7 | 106.4 | 106.3 | 106.4 | 108.6 | 105.1 | 105.2 |
| 4245 | Farm product raw materials | 82.3 | 100.8 | 106.7 | 104.3 | 100.0 | 96.4 | 103.4 | 100.0 | 102.3 | 100.8 | 103.5 | 112.0 |
| 4246 | Chemicals | | 102.7 | 95.5 | 94.1 | 100.0 | 104.6 | 104.6 | 99.1 | 93.4 | 99.4 | 99.7 | 89.1 |
| 4247 | Petroleum. | 55.7 | 66.0 | 92.0 | 92.0 | 100.0 | 101.9 | 113.4 | 109.5 | 104.8 | 99.6 | 97.9 | 92.5 |
| 4248 | Alcoholic beverages | 92.9 | 93.6 | 101.5 | 99.6 | 100.0 | 101.2 | 97.1 | 98.1 | 101.1 | 102.2 | 96.3 | 98.4 |
| 4249 | Miscellaneous nondurable goods | 105.2 | 94.6 | 108.7 | 105.5 | 100.0 | 102.0 | 110.9 | 113.1 | 110.4 | 103.8 | 100.0 | 105.5 |
| 425 | Electronic markets and agents and brokers | 60.2 | 93.7 | 110.5 | 101.9 | 100.0 | 95.4 | 81.4 | 71.6 | 76.4 | 77.4 | 73.1 | 68.2 |
| 4251 | Electronic markets and agents and brokers | 60.2 | 93.7 | 110.5 | 101.9 | 100.0 | 95.4 | 81.4 | 71.6 | 76.4 | 77.4 | 73.1 | 68.2 |
| | Retail trade | | | | | | | | | | | | |
| 44-45 | Retail trade | | 79.6 | 92.5 95.3 | 95.6 96.7 | 100.0 | 104.9 | 110.1 | 112.7 | 116.8 108.1 | 120.0 109.5 | 117.6 99.3 | 119.3 97.6 |
| 441 4411 | Motor vehicle and parts dealers Automobile dealers | 65.4 67.6 | 83.4 85.3 | 95.3 | 98.5 | 100.0 100.0 | 103.8 102.2 | 106.6 107.0 | 106.1 106.3 | 108.1 | 1109.5 | 100.7 | 97.6 |
| 4412 | Other motor vehicle dealers | | 74.8 | 86.2 | 93.2 | 100.0 | 99.6 | 107.0 | 98.7 | 103.7 | 103.2 | 97.3 | 111.0 |
| 4413 | Auto parts, accessories, and tire stores | 66.7 | 92.9 | 100.7 | 94.1 | 100.0 | 106.8 | 102.0 | 106.1 | 105.4 | 103.2 | 99.1 | 96.6 |
| | | | | | | | | | | | | | |
| 442 | Furniture and home furnishings stores | 58.1 | 77.4 79.9 | 89.7 89.5 | 94.7 95.6 | 100.0 | 103.5 | 112.1 | 113.8 | 117.2 | 123.1 | 125.0 | 132.8 123.6 |
| 4421 4422 | Furniture stores | 61.8 53.0 | 79.9 74.1 | 89.5 | 93.5 | 100.0 100.0 | 102.4 105.0 | 110.0 114.5 | 111.5 116.4 | 116.8 118.1 | 119.5 127.4 | 118.7 132.4 | 143.8 |
| 4422 | Electronics and appliance stores | 16.3 | 42.8 | 74.4 | 84.2 | 100.0 | 125.5 | 143.3 | 158.4 | 177.0 | 199.7 | 232.5 | 264.5 |
| 4431 | Electronics and appliance stores | | 42.8 | 74.4 | 84.2 | 100.0 | 125.5 | 143.3 | 158.4 | 177.0 | 199.7 | 232.5 | 264.5 |
| 4401 | Licotronico una appliance stores | 10.0 | 42.0 | 7-11 | 04.2 | 100.0 | 120.0 | 140.0 | 100.4 | 177.0 | 100.7 | 202.0 | 204.0 |
| 444 | Building material and garden supply stores | 62.8 | 82.8 | 93.7 | 96.7 | 100.0 | 105.1 | 110.9 | 110.0 | 111.0 | 112.2 | 112.0 | 107.3 |
| 4441 | Building material and supplies dealers | 64.0 | 82.5 | 94.9 | 96.2 | 100.0 | 105.1 | 110.4 | 110.6 | 111.5 | 111.0 | 108.8 | 102.9 |
| 4442 | Lawn and garden equipment and supplies stores | 56.6 | 84.6 | 87.2 | 100.1 | 100.0 | 104.7 | 114.7 | 105.5 | 106.8 | 121.8 | 138.6 | 142.5 |
| 445 | Food and beverage stores | 105.9 | 95.5 | 96.5 | 99.1 | 100.0 | 101.9 | 106.9 | 111.1 | 113.3 | 115.6 | 112.7 | 114.8 |
| 4451 | Grocery stores | 106.1 | 95.5 | 96.5 | 98.6 | 100.0 | 101.5 | 106.2 | 110.1 | 111.1 | 112.8 | 110.0 | 111.6 |
| 4452 | Specialty food stores | | 95.0 | 93.6 | 102.8 | 100.0 | 105.1 | 111.3 | 113.8 | 123.9 | 130.9 | 127.9 | 145.7 |
| 4453 | Beer, wine, and liquor stores | | 90.8 | 96.0 | 97.2 | 100.0 | 106.1 | 115.7 | 126.5 | 131.2 | 139.1 | 130.7 | 131.0 |
| 446 | Health and personal care stores | 68.4 | 81.3 | 91.3 | 94.6 | 100.0 | 105.5 | 109.7 | 109.2 | 112.7 | 112.5 | 112.8 | 116.5 |
| 4461 447 | Health and personal care stores | 68.4 67.1 | 81.3 79.9 | 91.3 86.1 | 94.6 90.2 | 100.0 100.0 | 105.5 96.4 | 109.7 98.4 | 109.2 99.8 | 112.7 99.4 | 112.5 102.4 | 112.8 101.4 | 116.5 101.0 |
| 447 | Gasonine stations | 07.1 | 79.9 | 00.1 | 90.2 | 100.0 | 90.4 | 90.4 | 99.0 | 99.4 | 102.4 | 101.4 | 101.0 |
| 4471 | Gasoline stations | | 79.9 | 86.1 | 90.2 | 100.0 | 96.4 | 98.4 | 99.8 | 99.4 | 102.4 | 101.4 | 101.0 |
| 448 | Clothing and clothing accessories stores | | 76.2 | 94.1 | 96.3 | 100.0 | 105.9 | 106.1 | 112.5 | 122.8 | 132.3 | 138.0 | 137.7 |
| 4481 | Clothing stores | | 73.6 | 91.9 | 95.8 | 100.0 | 104.3 | 103.6 | 112.3 | 123.0 | 134.1 | 144.7 | 145.9 |
| 4482 | Shoe stores. | 52.2 | 79.9 | 87.9 | 89.0 | 100.0 100.0 | 105.7 | 99.5 | 105.4 | 116.2 | 114.5 | 115.5 | 107.9 |
| 4483 | Jewelry, luggage, and leather goods stores | 54.4 | 84.3 | 110.0 | 104.4 | 100.0 | 112.3 | 122.4 | 118.2 | 125.9 | 137.3 | 126.3 | 127.2 |
| 451 | Sporting goods, hobby, book, and music stores | 58.7 | 78.4 | 94.9 | 99.6 | 100.0 | 103.0 | 118.0 | 127.3 | 131.7 | 128.1 | 127.6 | 141.0 |
| 4511 | Sporting goods and musical instrument stores | 53.8 | 73.5 | 95.1 | 98.9 | 100.0 | 103.5 | 121.5 | 132.0 | 140.4 | 136.5 | 134.4 | 149.8 |
| 4512 | Book, periodical, and music stores | | 89.6 | 94.7 | 101.2 | 100.0 | 101.9 | 110.4 | 117.1 | 113.1 | 109.5 | 112.3 | 121.4 |
| 452 | General merchandise stores | 57.0 | 77.4 | 93.2 | 96.7 | 100.0 | 106.3 | 109.7 | 113.5 | 117.3 | 118.4 | 117.4 | 120.4 |
| 4521 | Department stores | 86.0 | 97.9 | 104.0 | 101.6 | 100.0 | 104.3 | 107.8 | 109.2 | 111.8 | 105.2 | 101.9 | 100.5 |
| 4529 | Other general merchandise stores | 30.5 | 55.8 | 82.4 | 92.2 | 100.0 | 106.4 | 108.0 | 112.4 | 115.5 | 122.4 | 121.3 | 126.1 |
| 453 | Miscellaneous store retailers | | 84.0 | 95.8 | 94.6 | 100.0 | 105.4 | 108.8 | 115.0 | 126.2 | 130.1 | 130.0 | 129.4 |
| 4531 | Florists | 68.2 | 87.9 | | 90.3 | | 99.7 | 97.3 | 112.6 | 126.1 | 113.6 | 130.9 | 151.8 |
| 4532 | Office supplies, stationery and gift stores | 43.4 | 70.7 | 89.9 | 93.5 | 100.0 | 108.7 | 121.9 | 129.0 | 143.7 | 152.1 | 153.3 | 169.8 |
| 4533 | Used merchandise stores | 45.4 | 70.4 | 82.0 | 85.8 | 100.0 | 103.9 | 104.5 | 105.9 | 111.6 | 123.0 | 135.4 | 128.7 |
| 4539 | Other miscellaneous store retailers | 72.4 | 106.0 | 110.6 | 102.7 | 100.0 | 104.4 | 100.5 | 104.3 | 115.6 | 118.2 | 109.3 | 100.1 |
| 454 | Nonstore retailers | 27.9 | 54.9 | 83.6 | 89.9 | 100.0 | 108.6 | 121.1 | 126.2 | 148.8 | 163.3 | 167.7 | 179.6 |
| 4541 | Electronic shopping and mail-order houses | 18.5 | 47.0 | 75.3 | 84.4 | 100.0 | 116.9 | 133.4 | 145.2 | 175.5 | 196.1 | 187.4 | 197.2 |
| 4542 | Vending machine operators | 104.6 | 109.6 | 121.7 | 104.9 | 100.0 | 118.2 | 121.0 | 118.1 | 122.7 | 115.8 | 136.5 | 123.9 |
| 4543 | Direct selling establishments | 52.4 | 74.0 | 90.7 | 94.7 | 100.0 | 93.0 | 95.1 | 87.7 | 94.3 | 97.9 | 102.9 | 113.6 |
| | Transportation and warehousing | | | | | | | | | | | | |
| 481 | Air transportation | 76.7 | 98.3 | 96.0 | 91.0 | 100.0 | 110.2 | 124.2 | 133.6 | 140.5 | 142.2 | 140.6 | 140.7 |
| 482111 | Line-haul railroads. | 43.8 | 74.4 | 85.0 | 90.6 | 100.0 | 105.0 | 107.2 | 103.3 | 109.3 | 103.3 | 107.9 | 103.7 |
| 484 | Truck transportation | | 97.7 | 99.2 | 99.1 | 100.0 | 102.6 | 101.4 | 103.0 103.6 | 104.3 104.5 | 105.1 104.9 | 103.6 104.3 | 99.0 |
| 4841 48411 | General freight trucking | | 89.9 74.7 | 95.7 96.2 | 97.3 99.4 | 100.0 100.0 | 103.2 105.6 | 101.8 100.3 | 103.6 | 104.5 | 104.9 | 104.3 | 99.0 98.3 |
| 48412 | General freight trucking, long-distance | 80.1 | 93.5 | 95.3 | 96.4 | 100.0 | 103.8 | 100.3 | 103.1 | 109.5 | 103.8 | 102.9 | 98.4 |
| 48421 | Used household and office goods moving | | 122.6 | 116.2 | 102.9 | 100.0 | 105.0 | 102.0 | 106.6 | 102.8 | 110.2 | 116.7 | 116.4 |
| 491 | U.S. Postal service | 85.4 | 94.0 | 99.1 | 99.8 | 100.0 | 101.3 | 103.4 | 104.5 | 104.5 | 105.3 | 103.8 | 105.2 |
| 4911 | U.S. Postal service. | 85.4 | 94.0 | 99.1 | 99.8 | 100.0 | 101.3 | 103.4 | 104.5 | 104.5 | 105.3 | 103.8 | 105.2 |
| 400 | Couriers and magazzara | 400.0 | 00.0 | 00.0 | 00.0 | 400.0 | 4047 | 404.0 | 04.7 | 00.4 | 00.5 | 400.0 | 05.0 |
| 492 493 | Couriers and messengers | 103.6 | 69.8 81.9 | 90.0 89.5 | 92.6 94.4 | 100.0 100.0 | 104.7 103.9 | 101.3 103.8 | 94.7 99.3 | 99.4 96.9 | 96.5 95.5 | 100.8 94.8 | 95.8 96.1 |
| 4931 | Warehousing and storage | | 81.9 | 89.5 | 94.4 | 100.0 | 103.9 | 103.8 | 99.3 | 96.9 | 95.5 | 94.8 | 96.1 |
| 7331 | Training and storage | _ | 01.8 | 09.5 | 34.4 | 100.0 | 100.9 | 100.0 | 33.3 | 30.3 | 33.3 | 34.0 | 30.1 |

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

| 2002 = 1 | |
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| | |

| | - | | | | 1 | | | | | | | 1 | |
|---------------|---|--------------|--------------|---------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| NAICS | Industry | 1987 | 1997 | 2000 | 2001 | 2002 | 2003 | 2004 | 200 | 2006 | 2007 | 2008 | 2009 |
| 49311 | General warehousing and storage | - | 73.5 | 85.1 | 92.8 | 100.0 | 105.3 | 102.8 | 102.4 | 102.8 | 101.4 | 100.7 | 102.9 |
| 49312 | Refrigerated warehousing and storage | - | 115.3 | 110.1 | 98.2 | 100.0 | 108.5 | 119.5 | 102.7 | 95.8 | 103.3 | 105.7 | 96.9 |
| | Information | | | | | | | | | | | | |
| 511 | Publishing industries, except internet | 54.7 | 85.3 | 99.9 | 99.5 | 100.0 | 108.0 | 110.0 | 110.9 | 116.1 | 119.7 | 121.1 | 122.7 |
| 5111 | Newspaper, book, and directory publishers | 100.3 | 95.6 | 102.9 | 101.1 | 100.0 | 105.0 | 99.6 | 97.3 | 100.8 | 102.0 | 99.5 | 97.9 |
| 5112 | Software publishers | 8.3 | 81.9 | 97.7 | 96.2 | 100.0 | 113.1 | 131.5 | 136.7 | 139.0 | 141.7 | 146.6 | 145.4 |
| 51213 | Motion picture and video exhibition | 90.9 | 100.2 | 106.7 | 101.8 | 100.0 | 100.8 | 104.0 | 111.0 | 118.6 | 124.8 | 120.1 | 128.0 |
| 515 | Broadcasting, except internet | 95.7 | 96.2 | 99.6 | 95.5 | 100.0 | 102.9 | 107.1 | 113.1 | 120.6 | 130.5 | 133.4 | 135.7 |
| | • | | | | | | | | | | | | |
| 5151 | Radio and television broadcasting | 103.2 | 105.2 | 96.9 | 94.2 | 100.0 | 99.5 | 101.7 | 104.1 | 111.8 | 114.8 | 114.2 | 114.1 |
| 5152 | Cable and other subscription programming | 81.4 | 77.0 | 108.8 | 98.7 | 100.0 | 109.6 | 118.4 | 129.3 | 135.9 | 158.3 | 169.0 | 173.5 |
| 5171 | Wired telecommunications carriers | 51.8 | 84.5 | 94.9 | 92.0 | 100.0 | 106.5 | 112.0 | 115.9 | 119.8 | 121.5 | 123.8 | 125.9 |
| 5172 | Wireless telecommunications carriers | 34.7 | 45.9 | 70.1 | 88.0 | 100.0 | 111.6 | 134.8 | 176.0 | 189.2 | 200.2 | 237.6 | 295.4 |
| | Finance and insurance | | | | | | | | | | | | |
| 52211 | Commercial banking | 52.4 | 89.2 | 94.3 | 95.5 | 100.0 | 103.3 | 106.3 | 109.2 | 111.6 | 114.2 | 112.7 | 115.3 |
| | | | | | | | | | | | | | |
| 532111 | Real estate and rental and leasing Passenger car rental | 80.9 | 87.3 | 98.0 | 97.0 | 100.0 | 106.5 | 104.6 | 98.0 | 100.4 | 118.0 | 123.7 | 118.6 |
| 532111 | Truck, trailer, and RV rental and leasing | 52.9 | 87.7 | 106.8 | 99.6 | 100.0 | 97.8 | 111.6 | 114.1 | 123.3 | 120.0 | 114.8 | 99.5 |
| 53223 | Video tape and disc rental | 59.1 | 76.7 | 100.5 | 102.3 | 100.0 | 112.9 | 115.6 | 104.7 | 124.0 | 152.1 | 136.8 | 148.2 |
| 33223 | | 35.1 | 70.7 | 103.5 | 102.3 | 100.0 | 112.5 | 115.0 | 104.7 | 124.0 | 102.1 | 130.0 | 140.2 |
| | Professional and technical services | | | | | | | | | | | | |
| 541213 | Tax preparation services | 74.4 | 89.8 | 90.6 | 84.8 | 100.0 | 94.8 | 82.8 | 82.8 | 79.2 | 87.3 | 83.0 | 81.2 |
| 54131 | Architectural services | 83.7 | 92.9 | 100.0 | 103.2 | 100.0 | 103.4 | 107.9 | 107.9 | 105.8 | 109.6 | 113.3 | 111.9 |
| 54133 | Engineering services | 89.8 | 99.5 | 101.5 | 99.6 | 100.0 | 102.7 | 112.5 | 119.7 | 121.1 | 118.3 | 123.4 | 116.7 |
| 54181 | Advertising agencies | 84.8 | 88.5 | 95.1 | 94.5 | 100.0 | 106.4 | 116.2 | 114.5 | 115.2 | 118.7 | 124.6 | 126.9 |
| 541921 | Photography studios, portrait | 100.5 | 102.5 | 111.7 | 104.8 | 100.0 | 104.8 | 92.3 | 91.1 | 95.4 | 100.6 | 102.5 | 96.6 |
| | Administrative and waste services | | | | | | | | | | | | |
| 561311 | Employment placement agencies | - | 85.6 | 76.9 | 85.2 | 100.0 | 107.9 | 120.7 | 126.8 | 146.4 | 176.5 | 203.2 | 203.9 |
| 56151 | Travel agencies | 70.0 | 78.4 | 93.6 | 90.3 | 100.0 | 125.5 | 151.0 | 173.8 | 186.2 | 217.8 | 220.0 | 226.2 |
| 56172 | Janitorial services | 71.1 | 94.7 | 95.7 | 96.7 | 100.0 | 110.7 | 106.6 | 108.4 | 102.5 | 109.0 | 111.2 | 107.2 |
| | Health care and social assistance | | | | | | | | | | | | |
| 6215 | Medical and diagnostic laboratories | - | 72.7 | 95.9 | 98.3 | 100.0 | 103.1 | 103.9 | 102.4 | 104.6 | 102.4 | 111.5 | 114.5 |
| 621511 | Medical laboratories | - | 81.2 | 103.5 | 103.7 | 100.0 | 104.5 | 106.2 | 102.3 | 103.6 | 105.8 | 115.8 | 121.7 |
| 621512 | Diagnostic imaging centers | - | 61.2 | 85.7 | 90.8 | 100.0 | 99.8 | 97.5 | 99.4 | 102.9 | 92.4 | 100.4 | 99.7 |
| | Arts, entertainment, and recreation | | | | | | | | | | | | |
| 71311 | Amusement and theme parks | 105.4 | 94.1 | 99.5 | 87.4 | 100.0 | 108.4 | 99.1 | 109.6 | 99.7 | 107.2 | 107.9 | 99.4 |
| 71395 | Bowling centers | 110.0 | 103.8 | 96.9 | 97.9 | 100.0 | 104.4 | 108.0 | 104.3 | 98.4 | 116.1 | 117.7 | 114.3 |
| 7 1000 | - | 110.0 | 100.0 | 00.0 | 01.0 | 100.0 | 101.1 | 100.0 | 101.0 | 00.1 | 110.1 | | |
| | Accommodation and food services | | | | 99.1 | | 400 5 | | | 400.0 | | | |
| 72 | Accommodation and food services | 88.1 | 94.7 89.3 | 100.1 98.5 | 96.4 | 100.0 100.0 | 102.5 | 105.1 | 105.6 | 106.9 | 106.9 | 105.9 | 105.3 |
| 721 7211 | Accommodation | 76.6 75.6 | 89.3 89.2 | 98.5 | 96.4 | 100.0 | 103.4 103.3 | 111.3 111.5 | 109.4 110.0 | 109.3 109.5 | 109.6 109.7 | 109.0 109.0 | 107.2 106.9 |
| 7211 | Food services and drinking places | 92.0 | 95.8 | 99.2 | 99.4 | 100.0 | 103.3 | 103.2 | 104.4 | 109.5 | 105.7 | 109.0 | 105.9 |
| 7221 | Full-service restaurants | 88.3 | 95.8 | 98.7 | 99.4 | 100.0 | 102.2 | 103.2 | 104.4 | 103.7 | 105.9 | 104.6 | 100.1 |
| 7222 | Limited-service eating places | 94.0 | 97.4 | 99.4 | 99.8 | 100.0 | 102.6 | 104.0 | 104.6 | 106.3 | 106.5 | 106.8 | 108.1 |
| 7223 | Special food services | 78.6 | 87.4 | 100.2 | 100.4 | 100.0 | 104.5 | 107.0 | 109.3 | 110.9 | 113.7 | 113.0 | 107.1 |
| 7224 | Drinking places, alcoholic beverages | 132.8 | 97.2 | 97.8 | 94.8 | 100.0 | 113.8 | 106.1 | 112.1 | 122.0 | 122.4 | 117.9 | 122.4 |
| , | | 102.0 | 01.12 | 01.0 | 01.0 | 100.0 | 110.0 | 100.1 | | 122.0 | | | |
| 0444 | Other services | 82.8 | 96.4 | 105.5 | 105.0 | 100.0 | 99.7 | 106.5 | 105.7 | 104.5 | 102.5 | 101.3 | 96.6 |
| 8111 81142 | Automotive repair and maintenance | 103.3 | 98.0 | 105.5 | 105.0 | 100.0 | 99.7 | 94.6 | 94.6 | 91.8 | 94.8 | 90.2 | 96.6 87.8 |
| 81142 | Reupholstery and furniture repair Hair, nail, and skin care services | 75.7 | 98.0 | 98.0 | 102.9 | 100.0 | 108.0 | 112.3 | 116.1 | 115.4 | 119.5 | 122.4 | 115.1 |
| 81211 | Funeral homes and funeral services | 109.7 | 105.8 | 100.3 | 97.1 | 100.0 | 108.0 | 96.6 | 96.0 | 100.7 | 100.6 | 95.0 | 96.5 |
| 81221 | Drycleaning and laundry services | 86.3 | 88.9 | 95.7 | 98.6 | 100.0 | 92.6 | 96.6 | 109.0 | 100.7 | 100.6 | 104.1 | 114.6 |
| 81231 | Coin-operated laundries and drycleaners | 58.6 | 73.8 | 88.0 | 95.5 | 100.0 | 82.5 | 94.5 | 115.2 | 99.2 | 91.1 | 85.9 | 92.5 |
| 81232 | Drycleaning and laundry services | 90.7 | 86.3 | 96.7 | 97.8 | 100.0 | 89.8 | 95.4 | 103.9 | 103.1 | 101.5 | 102.1 | 113.9 |
| 81233 | Linen and uniform supply | 102.4 | 102.8 | 98.8 | 101.1 | 100.0 | 98.9 | 104.2 | 111.5 | 115.6 | 101.5 | 109.7 | 119.0 |
| 81292 | Photofinishing | 95.3 | 99.5 | 73.4 | 80.8 | 100.0 | 98.3 | 97.9 | 105.3 | 102.4 | 101.0 | 105.3 | 131.4 |
| | 3 | | | | | | | | | | | | |

NOTF: Dash indicates data are not available

51. Unemployment rates adjusted to U.S. concepts, 10 countries, seasonally adjusted

[Percent]

| [Fercent] | - | | | | | | 1 | | | | | | |
|----------------|------|------|-----|-----|-----|------|-----|------|-----|-----|--|--|--|
| | | | | 20 | 09 | | | 2010 | | | | | |
| Country | 2009 | 2010 | 1 | II | III | IV | I | II | III | IV | | | |
| United States | 9.3 | 9.6 | 8.2 | 9.3 | 9.7 | 10.0 | 9.7 | 9.6 | 9.6 | 9.6 | | | |
| Canada | 7.3 | 7.1 | 6.9 | 7.5 | 7.6 | 7.5 | 7.4 | 7.2 | 7.0 | 6.7 | | | |
| Australia | 5.6 | 5.2 | 5.3 | 5.7 | 5.8 | 5.6 | 5.3 | 5.2 | 5.2 | 5.2 | | | |
| Japan | 4.8 | 4.8 | 4.2 | 4.8 | 5.1 | 5.0 | 4.7 | 4.8 | 4.7 | 4.7 | | | |
| France | 9.2 | 9.4 | 8.7 | 9.3 | 9.3 | 9.6 | 9.6 | 9.4 | 9.4 | 9.3 | | | |
| Germany | 7.8 | 7.2 | 7.5 | 7.9 | 7.9 | 7.8 | 7.5 | 7.3 | 7.1 | 7.0 | | | |
| Italy | 7.9 | 8.6 | 7.5 | 7.7 | 8.1 | 8.4 | 8.5 | 8.6 | 8.5 | 8.7 | | | |
| Netherlands | 3.7 | 4.5 | 3.2 | 3.6 | 3.9 | 4.3 | 4.5 | 4.5 | 4.5 | 4.4 | | | |
| Sweden | 8.2 | 8.3 | 7.4 | 8.3 | 8.5 | 8.6 | 8.6 | 8.5 | 8.1 | 7.8 | | | |
| United Kingdom | 7.7 | 7.9 | 7.1 | 7.8 | 7.9 | 7.8 | 8.0 | 7.8 | 7.8 | 7.9 | | | |

Dash indicates data are not available. Quarterly figures for Germany are calculated by applying an annual adjustment factor to current published data and therefore should be viewed as a less precise indicator of unemployment under U.S. concepts than the annual figures. For further qualifications and historical annual data, see the BLS report International Comparisons of Annual Labor Force Statistics, Adjusted to U.S. Concepts, 10 Countries (on the Internet at http://www.bls.gov/ilc/flscomparelf.htm).

For monthly unemployment rates, as well as the quarterly and annual rates published in this table, see the BLS report *International* Unemployment Rates and Employment Indexes, Seasonally Adjusted

(on the Internet at http://www.bls.gov/ilc/intl_unemployment_rates_monthly.htm).
Unemployment rates may differ between the two reports mentioned, because the former is updated 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, adjusted to U.S. concepts, 10 countries

[Numbers in thousands]

| Communication 14,255 14,3754 14,885 14,5754 14,385 14,5754 14,885 14,5754 14,885 14,5754 14,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 15,124 15,885 | Employment status and country | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|--|---------------------------------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| Canada | Civilian labor force | | | | | | | | | | | |
| Martina 9,500 9,746 5,000 10,005 10,213 10,226 10,775 11,000 11,505 11,600 15,505 15,500 15,505 15,500 15,505 15,500 15,505 15,500 15,505 15,500 17,000 17, | United States | 142,583 | 143,734 | 144,863 | 146,510 | 147,401 | 149,320 | 151,428 | 153,124 | 154,287 | 154,142 | 153,889 |
| Jacobs 1,000 1,0 | | 15,632 | 15,886 | 16,356 | 16,722 | 16,925 | 17,056 | 17,266 | 17,626 | 17,936 | 18,058 | 18,263 |
| France | Australia | 9,590 | 9,746 | 9,901 | 10,085 | 10,213 | 10,529 | 10,773 | 11,060 | 11,356 | 11,602 | 11,868 |
| Cammany | Japan | 66,710 | 66,480 | 65,866 | 65,495 | 65,366 | 65,386 | 65,556 | 65,909 | 65,660 | 65,362 | 65,100 |
| May May | France | 26,193 | 26,339 | 26,658 | 26,692 | 26,872 | 27,061 | 27,260 | 27,466 | 27,683 | 27,972 | 28,067 |
| Nemerlands | Germany | 39,302 | 39,459 | 39,413 | 39,276 | 39,711 | 40,696 | 41,206 | 41,364 | 41,481 | 41,507 | 41,189 |
| Semina | Italy | 23,361 | 23,524 | 23,728 | 24,020 | 24,084 | 24,179 | 24,395 | 24,459 | 24,836 | 24,705 | 24,741 |
| | Netherlands | 8,008 | 8,155 | 8,288 | 8,330 | 8,379 | 8,400 | 8,462 | 8,595 | 8,679 | 8,716 | 8,654 |
| Participation rate* | Sweden | 4,490 | 4,530 | 4,545 | 4,565 | 4,579 | 4,693 | 4,746 | 4,822 | 4,875 | 4,888 | 4,942 |
| United States | United Kingdom | 28,962 | 29,092 | 29,343 | 29,565 | 29,802 | 30,137 | 30,599 | 30,780 | 31,126 | 31,274 | 31,421 |
| Canada. | Participation rate ¹ | | | | | | | | | | | |
| Canada. | United States | 67.1 | 66.8 | 66.6 | 66.2 | 66.0 | 66.0 | 66.2 | 66.0 | 66.0 | 65.4 | 64.7 |
| Asstralian | | 66.0 | 66.1 | | 67.7 | 67.6 | 67.3 | 67.2 | 67.5 | 67.7 | 67.2 | 67.0 |
| Japan. | | 64.4 | 64.4 | 64.3 | 64.6 | 64.6 | 65.4 | 65.8 | 66.2 | 66.7 | 66.7 | 66.5 |
| France | | 61.7 | 61.2 | | 59.9 | 59.6 | | 59.6 | 59.8 | | 59.3 | 59.0 |
| Semany | | 56.8 | 56.6 | 56.8 | 56.4 | 56.3 | | 56.2 | 56.3 | | | |
| Inhy | | 56.7 | 56.7 | | 56.0 | 56.4 | | 58.1 | 58.3 | 58.4 | 58.5 | 58.1 |
| Nemberlands | • | 48.1 | 48.3 | 48.5 | 49.1 | 49.1 | 48.7 | 48.9 | 48.6 | 49.0 | 48.4 | 48.2 |
| Sweden | - | 63.0 | 63.7 | | 64.3 | 64.4 | 64.2 | 64.5 | 65.2 | 65.4 | 65.2 | 64.3 |
| Delical Mingdom G2.8 | | | | | | | | | | | | |
| Chinded States | | | | | | | | | | | | |
| United States 18.6891 136.933 136.485 137.736 139.252 141.730 144.427 146.704 145.382 139.877 139.064 Canada 14.677 14.6670 14.6727 14.6860 15.737 15.9366 Australia 8.899 9.088 9.271 9.485 6.626 6.2910 6.2640 6.2910 | | | | | | | | | | | | |
| Canada | | 126 901 | 126 022 | 126 495 | 127 726 | 120.252 | 1/11 720 | 144 427 | 146 047 | 145 262 | 120 977 | 120.064 |
| Australia 8,889 9,088 9,271 9,485 6,620 9,986 10,287 10,576 10,873 10,953 11,247 Japan 63,790 63,790 63,790 63,790 63,790 63,590 62,022 22,020 22,021 63,590 62,022 25,026 25,614 25,915 25,423 25,423 24,824 24,821 24,832 24,863 24,828 25,246 25,614 25,917 28,232 18,00 31,723 24,808 25,246 25,614 25,917 28,202 18,10 22,241 22,200 22,721 22,983 23,144 22,760 22,821 Nomberlands 7,762 7,803 4,801 4,901 4,909 4,903 4,910 4,909 29,129 29,346 23,940 28,901 29,346 25,909 29,308 29,129 29,346 25,909 29,346 25,909 29,346 25,909 29,346 25,909 29,346 25,509 28,242 22,203 22,621 23 | | , | - | | | | | | | - , | | |
| | | | | | | | | | | | | |
| France. | | | | | | - | | | | | | |
| Semmany | • | | | | | | | | | | | |
| Install | | | | | | | | | | | | |
| Netherlands. | • | | | | | | | | | | | |
| Number N | - | | | | | | | | | | | |
| Deliad Kingdom | | | | | | | | | | | | |
| Chied States | | | | | | | | | | | | |
| United States | _ | 21,010 | 21,004 | 21,010 | 20,011 | 20,000 | 20,014 | 20,020 | 20,120 | 20,040 | 20,000 | 20,044 |
| Canada | | 04.4 | 00.7 | 00.7 | 00.0 | 00.0 | 00.7 | 00.4 | 00.0 | 00.0 | 50.0 | 50.5 |
| Australia | | | | | | | | | | | | |
| Japan. S9.0 S8.4 S7.5 S7.1 S7.1 S7.3 S7.5 S7.6 S7.4 S6.4 S6.2 France. S1.9 S2.2 S2.2 S1.5 S0.8 S0.6 S1.1 S2.1 S2.2 S2.5 S1.6 S0.8 S0.6 S1.1 S2.1 S2.2 S2.4 S4.0 S4.0 S3.9 Italy. 43.2 43.8 44.3 44.9 45.1 44.9 45.5 45.6 45.6 44.6 44.1 Netherlands. G1.1 G2.1 G2.3 G1.6 G0.2 S9.5 S9.9 G0.0 G1.7 G2.8 G3.4 G2.8 G1.4 Sweden. G0.1 G0.5 G0.6 G0.2 S9.5 S9.9 G0.0 G0.0 S9.9 S9.9 S8.5 S8.2 United Kingdom. S9.4 S9.5 S9.8 S9.9 G0.0 G0.0 S9.9 S9.9 S8.5 S8.2 United Kingdom. S5.69 S6.8 S6.0 S9.8 S9.9 G0.0 G0.0 S9.9 S9.9 S8.5 S8.2 S8.2 United Kingdom. S5.69 G.801 S.374 S | | | | | | | | | | | | |
| France | | | | | | | | | | | | |
| Semmany | • | | | | | | | | | | | |
| Rathyride Rath | | | | | | | | | | | | |
| Netherlands 61.1 62.1 62.3 61.6 61.1 60.9 61.7 62.8 63.4 62.8 61.4 69.9 69.0 69.0 69.0 69.9 69.9 69.9 69.5 69.3 69.0 69.0 69.0 69.9 69.9 69.5 69.3 69.5 69.3 69.0 69.0 69.0 69.9 69.9 69.0 69.0 69.0 69.9 69.0 | • | | | | | | | | | | | |
| Sweden | - | | | | | | | | | | | |
| United Kingdom. 59.4 59.5 59.6 59.8 59.9 60.0 60.0 59.9 59.9 58.5 58.2 United States. 56.92 6,801 8,378 8,774 8,149 7,591 7,001 7,078 8,924 14,265 14,825 Canada. 955 1,026 1,146 1,146 1,091 1,024 949 922 951 1,326 1,294 Australia. 602 658 630 599 551 531 516 484 483 649 621 Japan. 2,920 3,020 3,216 2,985 2,726 2,476 2,346 2,400 2,410 3,120 3,100 France. 2,265 2,075 2,137 2,295 2,408 2,429 2,432 2,200 2,009 2,577 2,644 Germany. 3,065 3,110 3,396 3,611 4,107 4,573 4,257 3,601 3,136 3,222 2,980 </td <td></td> | | | | | | | | | | | | |
| Unemployed Section S | | | | | | | | | | | | |
| United States. 5,692 6,801 8,378 8,774 8,149 7,591 7,001 7,078 8,924 14,265 14,825 | | 59.4 | 59.5 | 59.0 | 59.6 | 59.9 | 60.0 | 60.0 | 59.9 | 59.9 | 56.5 | 56.2 |
| Canada | | | | | | | | | | | | |
| Australia. 602 658 630 599 551 531 516 484 483 649 621 Japan. 2,920 3,020 3,216 2,985 2,726 2,476 2,346 2,400 2,410 3,120 3,100 France. 2,265 2,075 2,137 2,295 2,408 2,429 2,432 2,220 2,069 2,577 2,644 Germany. 3,065 3,110 3,396 3,661 4,107 4,573 4,257 3,601 3,136 3,228 2,980 Italy. 2,388 2,164 2,062 2,048 1,960 1,889 1,575 1,506 1,692 1,948 2,119 Netherlands. 2,46 206 254 341 419 441 366 306 267 327 390 Sweden. 2,60 227 234 264 300 360 330 292 294 401 409 U | | | | | | - | | | | | | |
| Dapan | | | | | | | | | | | | |
| France. 2,265 2,075 2,137 2,295 2,408 2,429 2,432 2,220 2,069 2,577 2,644 Germany. 3,065 3,110 3,396 3,661 4,107 4,573 4,257 3,601 3,136 3,228 2,980 Italy. 2,388 2,164 2,062 2,048 1,960 1,889 1,673 1,506 1,692 1,945 2,119 Netherlands. 266 254 341 419 441 366 306 267 327 390 Sweden. 260 227 234 264 300 360 330 292 294 401 409 United Kingdom. 1,587 1,489 1,528 1,488 1,423 1,663 1,670 1,652 1,780 2,395 2,477 United States. 4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3 9.6 Canada. <td></td> | | | | | | | | | | | | |
| Germany. 3,065 3,110 3,396 3,661 4,107 4,573 4,257 3,601 3,136 3,228 2,980 Italy. 2,388 2,164 2,062 2,048 1,960 1,889 1,673 1,506 1,692 1,945 2,119 Netherlands. 246 206 254 341 419 441 366 306 267 327 390 Sweden. 260 227 234 264 300 360 330 292 294 401 409 United Kingdom. 1,587 1,489 1,528 1,488 1,423 1,463 1,670 1,652 1,780 2,395 2,477 United States. 4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3 9.6 Canada. 6.1 6.5 7.0 6.9 6.4 6.0 5.5 5.2 5.3 7.3 7.1 Australia. </td <td>•</td> <td></td> | • | | | | | | | | | | | |
| Italy. 2,388 2,164 2,062 2,048 1,960 1,889 1,673 1,506 1,692 1,945 2,119 Netherlands. 246 206 254 341 419 441 366 306 267 327 390 Sweden. 260 227 234 264 300 360 330 292 294 401 409 United Kingdom. 1,587 1,489 1,528 1,488 1,423 1,463 1,670 1,652 1,780 2,395 2,477 United States. 4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3 9.6 Canada. 6.1 6.5 7.0 6.9 6.4 6.0 5.5 5.2 5.3 7.3 7.1 Australia. 6.3 6.8 6.4 5.9 5.4 5.0 4.8 4.4 4.2 5.6 5.2 Japan. | | | | | | | | | | | | |
| Netherlands | • | | | | | | | | | | | |
| Sweden | | | | | | | | | | | | |
| United Kingdom. 1,587 1,489 1,528 1,488 1,423 1,463 1,670 1,652 1,780 2,395 2,477 United States. 4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3 9.6 Canada. 6.1 6.5 7.0 6.9 6.4 6.0 5.5 5.2 5.3 7.3 7.1 Australia. 6.3 6.8 6.4 5.9 5.4 5.0 4.8 4.4 4.2 5.6 5.2 Japan. 4.4 4.5 4.9 4.6 4.2 3.8 3.6 3.6 3.7 4.8 4.8 France. 8.6 7.9 8.6 9.0 9.0 8.9 8.1 7.5 9.2 9.4 Germany. 7.8 7.9 8.6 9.3 10.3 11.2 10.3 8.7 7.6 7.8 7.9 8.6 9.3 10.3 11.2 10.3 | | | | | | | | | | | | |
| Unemployment rate³ 4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3 9.6 Canada | | | | | | | | | | | | |
| United States 4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3 9.6 Canada 6.1 6.5 7.0 6.9 6.4 6.0 5.5 5.2 5.3 7.3 7.1 Australia 6.3 6.8 6.4 5.9 5.4 5.0 4.8 4.4 4.2 5.6 5.2 Japan 4.4 4.5 4.9 4.6 4.2 3.8 3.6 3.6 3.7 4.8 4.8 France 8.6 7.9 8.0 8.6 9.0 9.0 8.9 8.1 7.5 9.2 9.4 Germany 7.8 7.9 8.6 9.3 10.3 11.2 10.3 8.7 7.6 7.8 7.2 Italy 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands 3.1 2.5 | | 1,587 | 1,489 | 1,528 | 1,488 | 1,423 | 1,463 | 1,670 | 1,652 | 1,780 | 2,395 | 2,477 |
| Canada 6.1 6.5 7.0 6.9 6.4 6.0 5.5 5.2 5.3 7.3 7.1 Australia 6.3 6.8 6.4 5.9 5.4 5.0 4.8 4.4 4.2 5.6 5.2 Japan 4.4 4.5 4.9 4.6 4.2 3.8 3.6 3.6 3.7 4.8 4.8 France 8.6 7.9 8.0 8.6 9.0 9.0 8.9 8.1 7.5 9.2 9.4 Germany 7.8 7.9 8.6 9.3 110.3 11.2 10.3 8.7 7.6 7.8 7.2 Italy 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden 5.8 5.0 5.1 | Unemployment rate ³ | | | | | | | | | | | |
| Australia. 6.3 6.8 6.4 5.9 5.4 5.0 4.8 4.4 4.2 5.6 5.2 Japan. 4.4 4.5 4.9 4.6 4.2 3.8 3.6 3.6 3.7 4.8 4.8 France. 8.6 7.9 8.0 8.6 9.0 9.0 8.9 8.1 7.5 9.2 9.4 Germany. 7.8 7.9 8.6 9.3 11.2 10.3 8.7 7.6 7.8 7.2 Italy. 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands. 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden. 5.8 5.0 5.1 5.8 6.6 7.7 7.0 6.1 6.0 8.2 8.3 | | | | | | 5.5 | | | | | | |
| Japan. 4.4 4.5 4.9 4.6 4.2 3.8 3.6 3.6 3.7 4.8 4.8 France. 8.6 7.9 8.0 8.6 9.0 9.0 8.9 8.1 7.5 9.2 9.4 Germany. 7.8 7.9 8.6 9.3 10.3 11.2 10.3 8.7 7.6 7.8 7.2 Italy. 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands. 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden. 5.8 5.0 5.1 5.8 6.6 7.7 7.0 6.1 6.0 8.2 8.3 | Canada | 6.1 | 6.5 | 7.0 | 6.9 | 6.4 | 6.0 | 5.5 | 5.2 | 5.3 | 7.3 | 7.1 |
| France. 8.6 7.9 8.0 8.6 9.0 9.0 8.9 8.1 7.5 9.2 9.4 Germany. 7.8 7.9 8.6 9.3 10.3 11.2 10.3 8.7 7.6 7.8 7.2 Italy 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden 5.8 5.0 5.1 5.8 6.6 7.7 7.0 6.1 6.0 8.2 8.3 | | 6.3 | 6.8 | 6.4 | 5.9 | | 5.0 | 4.8 | 4.4 | | | 5.2 |
| Germany 7.8 7.9 8.6 9.3 10.3 11.2 10.3 8.7 7.6 7.8 7.2 Italy 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden 5.8 5.0 5.1 5.8 6.6 7.7 7.0 6.1 6.0 8.2 8.3 | • | | | 4.9 | 4.6 | | | | 3.6 | | | |
| Italy. 10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9 8.6 Netherlands. 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden. 5.8 5.0 5.1 5.8 6.6 7.7 7.0 6.1 6.0 8.2 8.3 | | | | | | | | | | | | |
| Neiherlands 3.1 2.5 3.1 4.1 5.0 5.3 4.3 3.6 3.1 3.7 4.5 Sweden 5.8 5.0 5.1 5.8 6.6 7.7 7.0 6.1 6.0 8.2 8.3 | Germany | 7.8 | 7.9 | 8.6 | 9.3 | 10.3 | 11.2 | 10.3 | 8.7 | 7.6 | 7.8 | 7.2 |
| Sweden | Italy | 10.2 | 9.2 | 8.7 | 8.5 | 8.1 | 7.8 | 6.9 | 6.2 | 6.8 | 7.9 | 8.6 |
| | Netherlands | 3.1 | 2.5 | 3.1 | 4.1 | 5.0 | 5.3 | 4.3 | 3.6 | 3.1 | | 4.5 |
| <u>United Kingdom</u> | Sweden | 5.8 | 5.0 | 5.1 | | | 7.7 | 7.0 | 6.1 | | 8.2 | 8.3 |
| | United Kingdom | 5.5 | 5.1 | 5.2 | 5.0 | 4.8 | 4.9 | 5.5 | 5.4 | 5.7 | 7.7 | 7.9 |

 ¹ Labor force as a percent of the working-age population.
 ² Employment as a percent of the working-age population.
 ³ Unemployment as a percent of the labor force.

NOTE: There are breaks in series for the United States (2003, 2004), Australia (2001), Germany (2005), the Netherlands (2003), and Sweden (2005). For further qualifications and historical annual data, see the BLS report *International*

Comparisons of Annual Labor Force Statistics, Adjusted to U.S. Concepts, 10 Countries (on the Internet at http://www.bls.gov/ilc/flscomparelf.htm). Unemployment rates may differ from those in the BLS report International Unemployment Rates and Employment Indexes, Seasonally Adjusted (on the Internet at http://www.bls.gov/ilc/intl_unemployment_rates_monthly.htm), because the former is updated 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, 19 economies [2002 = 100]

| Measure and economy | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Output per hour | | | | | | | | | | | | | | | | |
| United States | 41.7 | 58.1 | 68.5 | 70.9 | 73.8 | 77.7 | 82.4 | 88.8 | 90.7 | 108.2 | 117.5 | 122.8 | 127.2 | 135.2 | 135.7 | 146.2 |
| Australia | 63.3 | 77.8 | 84.9 | 87.2 | 88.0 | 92.5 | 95.8 | 93.5 | 98.4 | 104.9 | 104.3 | 105.5 | 108.1 | 110.0 | 106.7 | 111.4 |
| Belgium | 50.3 | 74.5 | 86.7 | 88.0 | 93.5 | 94.7 | 94.0 | 97.8 | 97.3 | 101.8 | 105.6 | 107.5 | 108.2 | 113.0 | 114.1 | 115.8 |
| Canada | 55.2 | 70.7 | 83.4 | 83.0 | 87.2 | 91.3 | 95.1 | 100.7 | 98.3 | 100.3 | 101.3 | 104.8 | 106.2 | 106.6 | 104.0 | 105.0 |
| Czech Republic | - | _ | 70.3 | 74.1 | 77.3 | 73.1 | 83.9 | 92.0 | 92.7 | 101.9 | 114.4 | 125.0 | 140.4 | 151.7 | 161.4 | 156.0 |
| Denmark | 66.1 | 79.3 | 90.8 | 87.8 | 94.8 | 94.3 | 95.8 | 99.2 | 99.4 | 104.2 | 110.2 | 113.7 | 119.5 | 122.1 | 125.2 | 123.4 |
| Finland | 29.4 | 48.4 | 66.1 | 67.9 | 71.5 | 75.7 | 81.0 | 90.4 | 94.1 | 106.0 | 112.9 | 118.0 | 131.4 | 143.4 | 145.1 | 132.8 |
| France | 42.9 | 63.6 | 75.2 | 75.5 | 80.0 | 84.1 | 87.8 | 94.0 | 95.9 | 104.5 | 107.3 | 112.3 | 114.9 | 116.2 | 115.1 | 106.8 |
| | 54.5 | 69.8 | 80.6 | 82.8 | 87.7 | 88.1 | 90.2 | 96.5 | 99.0 | 103.6 | 107.5 | 112.1 | 120.9 | 122.7 | 122.4 | 111.0 |
| Germany | 56.8 | 78.1 | 94.2 | 94.6 | 96.5 | 95.2 | 95.9 | 100.9 | 101.2 | 97.9 | 99.3 | 100.8 | 102.6 | 103.1 | 99.4 | 93.5 |
| Italy | 47.9 | 70.9 | 83.4 | 87.2 | 90.3 | 91.2 | 93.6 | 98.5 | 96.5 | 106.8 | 114.3 | 121.7 | 122.9 | 127.6 | 127.9 | 113.3 |
| Japan | - | 33.3 | 52.1 | 57.6 | 65.6 | 73.6 | 82.7 | 90.8 | 90.1 | 106.8 | 117.0 | 130.6 | 145.6 | 156.1 | 157.2 | 160.1 |
| Korea, Rep. of | 48.0 | 68.3 | 82.1 | 83.9 | 84.1 | 86.6 | 90.1 | 96.6 | 97.1 | 102.1 | 109.0 | 113.9 | 118.2 | 124.3 | 121.5 | 116.1 |
| Netherlands | 70.1 | 87.8 | 88.1 | 90.8 | 91.0 | 88.7 | 91.7 | 94.6 | 97.1 | 102.1 | 115.1 | 119.1 | 116.2 | 116.1 | 117.2 | 118.1 |
| Norway | 33.1 | 50.7 | 72.8 | 74.5 | 77.8 | 80.9 | | | 90.7 | 103.6 | | | | 116.1 | 105.3 | 105.0 |
| Singapore | | | | 92.2 | | | 92.4 | 101.2 | | | 113.8 | 116.3 | 120.1 | | | |
| Spain | 57.9 | 80.0 | 93.3 | | 93.1 | 94.7 | 96.4 | 97.4 | 99.6 | 102.5 | 104.4 | 106.4 | 108.5 | 110.9 | 109.3 | 108.4 |
| Sweden | 40.1 | 49.4 | 64.9 | 67.1 | 73.6 | 78.4 | 85.4 | 91.6 | 89.4 | 108.2 | 120.2 | 128.0 | 138.8 | 141.7 | 137.5 | 127.5 |
| Taiwan | 28.6 | 52.5 | 65.4 | 69.9 | 73.1 | 76.1 | 80.7 | 85.6 | 89.9 | 107.2 | 112.6 | 121.7 | 132.1 | 143.2 | 145.5 | 152.4 |
| United Kingdom | 44.7 | 70.1 | 81.7 | 80.9 | 82.5 | 83.4 | 87.7 | 93.5 | 96.9 | 104.3 | 110.8 | 115.8 | 119.8 | 123.8 | 124.0 | 119.8 |
| Output | | | | | | | | | | | | | | | | |
| United States | 49.8 | 67.6 | 79.4 | 82.0 | 86.9 | 91.2 | 96.1 | 102.3 | 97.6 | 102.9 | 111.2 | 114.8 | 119.9 | 125.2 | 120.7 | 113.6 |
| Australia | 70.8 | 81.8 | 86.5 | 88.2 | 90.1 | 92.2 | 93.5 | 94.9 | 96.9 | 102.6 | 102.6 | 101.9 | 102.7 | 105.7 | 104.6 | 102.2 |
| Belgium | 67.2 | 86.7 | 89.4 | 89.7 | 94.0 | 95.6 | 95.9 | 100.4 | 100.7 | 98.8 | 102.4 | 102.5 | 102.7 | 106.5 | 106.1 | 96.8 |
| Canada | 55.2 | 68.7 | 76.5 | 77.5 | 82.8 | 86.9 | 94.1 | 103.4 | 99.1 | 99.2 | 101.1 | 102.6 | 101.3 | 99.0 | 93.0 | 82.5 |
| Czech Republic | - | - | 73.4 | 80.2 | 84.1 | 78.5 | 87.0 | 95.4 | 94.9 | 99.0 | 112.1 | 125.5 | 143.8 | 157.0 | 169.4 | 149.3 |
| Denmark | 77.3 | 85.5 | 94.7 | 90.3 | 97.7 | 98.5 | 99.4 | 102.9 | 103.0 | 97.2 | 98.8 | 99.3 | 103.8 | 107.1 | 111.0 | 97.6 |
| Finland | 40.3 | 54.6 | 60.8 | 62.6 | 68.5 | 75.1 | 81.1 | 92.3 | 96.4 | 102.9 | 107.8 | 112.0 | 126.3 | 139.3 | 139.3 | 111.6 |
| France | 69.5 | 81.5 | 83.8 | 83.6 | 87.5 | 91.7 | 94.7 | 99.1 | 100.1 | 101.9 | 102.8 | 105.2 | 104.9 | 106.6 | 104.5 | 92.8 |
| Germany | 81.3 | 94.5 | 90.1 | 88.2 | 92.0 | 93.1 | 94.0 | 100.4 | 102.1 | 100.7 | 104.3 | 106.5 | 113.6 | 116.4 | 117.0 | 95.7 |
| Italy | 71.1 | 88.2 | 95.7 | 95.2 | 96.6 | 97.5 | 97.3 | 101.4 | 101.1 | 97.3 | 98.0 | 97.8 | 101.1 | 103.2 | 98.2 | 82.7 |
| Japan | 61.9 | 98.9 | 101.7 | 105.6 | 108.2 | 102.5 | 102.1 | 107.4 | 101.6 | 105.3 | 111.4 | 117.2 | 121.3 | 126.1 | 122.3 | 95.4 |
| Korea, Rep. of | 12.7 | 40.0 | 59.2 | 63.4 | 67.1 | 62.2 | 76.5 | 89.8 | 92.0 | 105.4 | 115.9 | 123.1 | 133.0 | 142.5 | 146.6 | 144.2 |
| Netherlands | 59.3 | 77.0 | 85.1 | 86.3 | 87.5 | 90.5 | 93.8 | 100.1 | 99.9 | 98.9 | 102.3 | 104.3 | 107.9 | 114.1 | 111.9 | 102.1 |
| Norway | 95.1 | 91.4 | 94.6 | 98.4 | 102.7 | 101.9 | 101.8 | 101.3 | 100.5 | 103.3 | 109.2 | 114.1 | 117.5 | 121.3 | 124.5 | 117.3 |
| Singapore | 26.0 | 51.2 | 75.4 | 77.4 | 80.8 | 80.2 | 90.6 | 104.4 | 92.2 | 102.9 | 117.2 | 128.3 | 143.6 | 152.2 | 145.8 | 139.8 |
| Spain | 58.8 | 73.7 | 76.0 | 77.9 | 82.9 | 87.9 | 92.9 | 97.0 | 100.1 | 101.2 | 101.9 | 103.1 | 105.0 | 105.8 | 103.0 | 88.9 |
| Sweden | 45.5 | 54.5 | 65.8 | 68.0 | 73.6 | 80.2 | 87.5 | 95.1 | 93.3 | 105.0 | 115.0 | 120.7 | 129.0 | 133.5 | 129.7 | 106.4 |
| | 29.4 | 59.3 | 72.7 | 76.1 | 80.9 | 82.8 | 88.9 | 96.1 | 89.5 | 110.1 | 121.5 | 131.0 | 142.9 | 156.9 | 158.5 | 151.5 |
| Taiwan | 78.5 | 94.8 | 97.1 | 97.8 | 99.6 | 100.3 | 101.3 | 103.6 | 102.2 | 99.7 | 101.9 | 101.8 | 103.3 | 103.8 | 100.8 | 90.0 |
| United Kingdom | 70.0 | 04.0 | 07.1 | 07.0 | 00.0 | 100.0 | 101.0 | 100.0 | 102.2 | 00.7 | 101.0 | 101.0 | 100.0 | 100.0 | 100.0 | 00.0 |
| Total hours | | | | | | | | | | / | | | | | | |
| United States | 119.4 | 116.5 | 115.9 | 115.7 | 117.7 | 117.4 | 116.6 | 115.1 | 107.6 | 95.1 | 94.6 | 93.5 | 94.3 | 92.6 | 88.9 | 77.7 |
| Australia | 111.8 | 105.2 | 101.9 | 101.1 | 102.4 | 99.7 | 97.6 | 101.5 | 98.5 | 97.8 | 98.4 | 96.6 | 95.0 | 96.1 | 98.1 | 91.7 |
| Belgium | 133.5 | 116.4 | 103.1 | 102.0 | 100.6 | 100.9 | 102.0 | 102.7 | 103.6 | 97.0 | 97.0 | 95.3 | 94.9 | 94.2 | 93.0 | 83.6 |
| Canada | 100.0 | 97.2 | 91.8 | 93.4 | 94.9 | 95.2 | 98.9 | 102.7 | 100.8 | 99.0 | 99.8 | 97.9 | 95.4 | 92.9 | 89.4 | 78.6 |
| Czech Republic | - | - | 104.4 | 108.3 | 108.8 | 107.4 | 103.6 | 103.6 | 102.3 | 97.2 | 98.0 | 100.4 | 102.4 | 103.5 | 104.9 | 95.7 |
| Denmark | 117.0 | 107.8 | 104.3 | 102.9 | 103.1 | 104.5 | 103.7 | 103.7 | 103.7 | 93.4 | 89.6 | 87.3 | 86.9 | 87.7 | 88.7 | 79.0 |
| Finland | 137.0 | 112.9 | 92.0 | 92.3 | 95.8 | 99.3 | 100.1 | 102.1 | 102.5 | 97.1 | 95.4 | 95.0 | 96.1 | 97.1 | 96.0 | 84.0 |
| France | 161.9 | 128.2 | 111.3 | 110.7 | 109.4 | 109.0 | 108.0 | 105.4 | 104.4 | 97.5 | 95.8 | 93.7 | 91.3 | 91.8 | 90.7 | 86.8 |
| Germany | 149.3 | 135.4 | 111.7 | 106.4 | 104.9 | 105.8 | 104.2 | 104.0 | 103.1 | 97.3 | 97.1 | 95.0 | 93.9 | 94.9 | 95.6 | 86.2 |
| Italy | 125.2 | 113.0 | 101.6 | 100.7 | 100.1 | 102.5 | 101.5 | 100.5 | 99.9 | 99.4 | 98.7 | 97.0 | 98.5 | 100.1 | 98.8 | 88.4 |
| Japan | 129.3 | 139.6 | 122.0 | 121.0 | 119.9 | 112.5 | 109.1 | 109.0 | 105.3 | 98.6 | 97.5 | 96.3 | 98.6 | 98.9 | 95.6 | 84.2 |
| Korea, Rep. of | - | 119.8 | 113.6 | 109.9 | 102.2 | 84.5 | 92.5 | 98.9 | 102.1 | 98.7 | 99.0 | 94.2 | 91.3 | 91.3 | 93.2 | 90.1 |
| Netherlands | 123.6 | 112.8 | 103.7 | 102.9 | 104.0 | 104.5 | 104.1 | 103.6 | 103.0 | 96.8 | 93.9 | 91.6 | 91.3 | 91.8 | 92.1 | 87.9 |
| Norway | 135.6 | 104.1 | 107.3 | 108.4 | 112.8 | 115.0 | 111.0 | 107.1 | 103.4 | 95.1 | 94.9 | 95.8 | 100.7 | 104.5 | 106.3 | 99.3 |
| Singapore | 78.6 | 101.1 | 103.6 | 104.0 | 103.9 | 99.1 | 98.0 | 103.1 | 101.7 | 99.3 | 103.0 | 110.4 | 119.6 | 131.0 | 138.4 | 133.1 |
| Spain | 101.6 | 92.1 | 81.4 | 84.5 | 89.0 | 92.8 | 96.4 | 99.7 | 100.5 | 98.8 | 97.6 | 96.8 | 96.8 | 95.4 | 94.2 | 82.0 |
| Sweden | 113.3 | 110.2 | 101.3 | 101.3 | 100.1 | 102.3 | 102.5 | 103.8 | 104.4 | 97.0 | 95.7 | 94.3 | 93.0 | 94.2 | 94.3 | 83.4 |
| | 102.9 | 113.0 | 111.1 | 101.9 | 110.6 | 102.3 | 110.1 | 112.4 | 99.6 | 102.7 | 107.9 | 107.7 | 108.1 | 109.6 | 108.9 | 99.4 |
| Taiwan United Kingdom | 175.7 | 135.2 | 118.9 | 120.9 | 120.7 | 120.3 | 115.5 | 110.8 | 105.4 | 95.6 | 91.9 | 87.8 | 86.2 | 83.9 | 81.3 | 75.1 |
| See notes at end of table | 170.7 | 100.2 | 110.0 | 120.0 | 120.7 | 120.0 | 110.0 | 1.10.0 | 100.7 | 55.0 | 01.0 | 07.0 | 00.2 | 00.0 | 01.0 | 70.1 |

See notes at end of table.

53. Continued— Annual indexes of manufacturing productivity and related measures, 19 economies

| Measure and economy | 1980 | 1990 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------|---------------|--------------|---------------|--------------|--------------|---------------|---------------|----------------|
| | | | | | | | | | | | | | | | | |
| Unit labor costs | | | | | | | | | | | | | | | | |
| (national currency basis) | 04.0 | 407.0 | 407.4 | 405.0 | 400.0 | 404.5 | 400.0 | 400.0 | 1015 | | 00.0 | 04.0 | | 07.0 | 00.7 | 00.7 |
| United States | 91.6 | 107.0 | 107.1 | 105.3 | 103.6 | 104.5 | 102.8 | 102.8 | 104.5 | 99.8 | 92.6 | 91.6 | 90.2 | 87.6 | 90.7 | 88.7 |
| Australia | - | 82.1 | 91.6 | 94.1 | 94.3 | 94.8 | 95.4 | 96.8 | 97.6 | 101.0 | 105.5 | 111.0 | 115.8 | 118.7 | 124.1 | 130.1 |
| Belgium | 80.9 | 93.8 | 97.2 | 97.5 | 95.2 | 95.4 | 97.4 | 95.3 | 99.0 | 100.3 | 98.0 | 98.0 | 100.5 | 100.2 | 102.5 | 107.6 |
| Canada | 65.8 | 96.6 | 97.9 | 99.9 | 97.3 | 97.8 | 95.8 | 93.5 | 98.4 | 103.7 | 106.6 | 107.6 | 110.3 | 113.9 | 117.0 | 115.7 |
| Czech Republic | - | - | 73.8 | 82.4 | 86.7 | 100.4 | 92.2 | 89.2 | 98.7 | 106.1 | 100.1 | 94.5 | 88.7 | 87.9 | 86.7 | 88.6 |
| Denmark | 49.4 | 86.4 | 87.3 | 94.0 | 90.0 | 92.9 | 93.7 | 92.3 | 96.5 | 102.5 | 100.6 | 103.0 | 101.8 | 105.1 | 104.7 | 109.2 |
| Finland | 75.4 | 124.4 101.2 | 117.5 | 118.2 107.7 | 114.2 104.8 | 112.5 100.4 | 108.8 99.3 | 101.5 | 104.3 98.3 | 97.0 97.9 | 94.5 98.3 | 94.4 97.4 | 87.7 98.9 | 82.6 100.2 | 85.3 103.9 | 97.2 114.0 |
| France | 65.8 65.7 | | 106.1 100.8 | | 98.9 | 99.9 | | 97.6 98.1 | 98.6 | 98.7 | | 92.9 | 89.6 | 89.3 | 91.8 | |
| Germany | 65.7 34.5 | 85.5 78.6 | 87.7 | 102.7 92.0 | 94.4 | 94.0 | 99.7 95.6 | 93.2 | 96.1 | 106.0 | 95.7 108.1 | 110.0 | 110.3 | 112.9 | 121.0 | 106.3 135.5 |
| Italy | 105.4 | 109.2 | 110.8 | 106.9 | 106.8 | 108.3 | 105.4 | 99.5 | 102.9 | 91.6 | 86.4 | 81.8 | 80.1 | 76.0 | 77.2 | 86.3 |
| Japan | 40.4 | 72.4 | 10.8 | 115.1 | 110.7 | 108.3 | 96.2 | 93.8 | 98.8 | 98.8 | 102.7 | 107.0 | 105.2 | 104.6 | 104.8 | 108.8 |
| Korea, Rep. of | 85.6 | 90.5 | 93.8 | 93.5 | 95.7 | 96.9 | 96.2 | 94.1 | 97.6 | 101.8 | 99.5 | 96.6 | 95.7 | 93.8 | 99.6 | 108.0 |
| Netherlands | 35.3 | 66.6 | 78.5 | 79.4 | 82.7 | 89.9 | 91.8 | 94.1 | 97.0 | 95.8 | 93.4 | 94.5 | 102.4 | 107.7 | 112.8 | 118.0 |
| Norway | 78.5 | 107.5 | 113.5 | 116.5 | 117.8 | 115.8 | 96.0 | 92.3 | 106.0 | 97.1 | 88.9 | 86.4 | 82.7 | 85.3 | 95.2 | 91.4 |
| Singapore | 35.7 | 73.7 | 93.6 | 97.0 | 98.4 | 97.4 | 95.6 | 96.0 | 97.6 | 102.5 | 104.1 | 107.0 | 110.0 | 114.4 | 122.4 | 125.9 |
| SpainSweden | 67.1 | 123.4 | 110.4 | 115.1 | 110.6 | 107.8 | 102.0 | 98.9 | 106.1 | 96.5 | 89.3 | 86.7 | 82.2 | 84.8 | 90.2 | 101.2 |
| | 69.3 | 108.5 | 123.1 | 122.7 | 121.0 | 120.0 | 115.5 | 110.9 | 112.4 | 96.2 | 94.5 | 92.6 | 90.4 | 84.3 | 85.0 | 78.7 |
| Taiwan | 52.8 | 83.2 | 87.6 | 88.3 | 90.4 | 96.3 | 97.3 | 96.5 | 97.6 | 100.7 | 98.9 | 100.2 | 102.2 | 102.4 | 104.3 | 110.9 |
| United Kingdom | 32.0 | 03.2 | 07.0 | 00.5 | 30.4 | 90.5 | 91.5 | 90.5 | 97.0 | 100.7 | 30.3 | 100.2 | 102.2 | 102.4 | 104.5 | 110.9 |
| Unit labor costs | | | | | | | | | | | | | | | | |
| (U.S. dollar basis) | | | | | | | | | | | | | | | | |
| United States | 91.6 | 107.0 | 107.1 | 105.3 | 103.6 | 104.5 | 102.8 | 102.8 | 104.5 | 99.8 | 92.6 | 91.6 | 90.2 | 87.6 | 90.7 | 88.7 |
| Australia | - | 118.0 | 124.8 | 135.5 | 129.0 | 109.7 | 113.2 | 103.6 | 92.8 | 121.2 | 142.9 | 155.7 | 160.4 | 183.3 | 194.8 | 189.7 |
| Belgium | 118.1 | 119.7 | 140.7 | 134.4 | 113.4 | 112.1 | 109.8 | 93.0 | 93.8 | 120.2 | 128.9 | 129.1 | 133.5 | 145.3 | 159.6 | 158.5 |
| Canada | 88.4 | 130.1 | 112.1 | 115.0 | 110.4 | 103.5 | 101.3 | 98.8 | 99.8 | 116.3 | 128.6 | 139.5 | 152.8 | 166.7 | 172.4 | 159.2 |
| Czech Republic | - | - | 91.0 | 99.4 | 89.5 | 101.8 | 87.3 | 75.6 | 85.0 | 123.1 | 127.6 | 129.2 | 128.5 | 140.2 | 166.4 | 149.8 |
| Denmark | 69.1 | 110.1 | 123.0 | 127.8 | 107.4 | 109.3 | 105.8 | 89.9 | 91.4 | 122.9 | 132.5 | 135.5 | 135.1 | 152.3 | 162.3 | 160.8 |
| Finland | 127.1 | 204.6 | 169.2 | 161.8 | 138.4 | 132.4 | 122.6 | 99.2 | 98.8 | 116.2 | 124.3 | 124.3 | 116.6 | 119.8 | 132.9 | 143.2 |
| France | 108.0 | 128.9 | 147.6 | 146.1 | 124.5 | 118.1 | 111.9 | 95.3 | 93.1 | 117.2 | 129.3 | 128.2 | 131.4 | 145.3 | 161.9 | 168.1 |
| Germany | 74.7 | 109.4 | 145.6 | 141.2 | 117.9 | 117.4 | 112.4 | 95.8 | 93.3 | 118.2 | 125.9 | 122.3 | 119.1 | 129.4 | 143.0 | 156.7 |
| Italy | 82.6 | 134.3 | 110.2 | 122.1 | 113.5 | 110.8 | 107.7 | 91.0 | 91.0 | 126.9 | 142.2 | 144.8 | 146.5 | 163.7 | 188.5 | 199.8 |
| Japan | 58.2 | 94.3 | 147.7 | 123.1 | 110.4 | 103.6 | 116.1 | 115.6 | 106.0 | 98.9 | 100.1 | 93.0 | 86.3 | 80.8 | 93.5 | 115.4 |
| Korea, Rep. of | 83.1 | 127.3 | 176.7 | 178.8 | 146.1 | 96.2 | 101.1 | 103.7 | 95.6 | 103.6 | 112.1 | 130.6 | 137.8 | 140.8 | 119.2 | 106.7 |
| Netherlands | 100.4 | 115.9 | 136.3 | 129.3 | 114.2 | 113.8 | 108.4 | 91.9 | 92.5 | 121.9 | 130.8 | 127.2 | 127.2 | 136.0 | 155.1 | 159.1 |
| Norway | 57.0 | 85.0 | 98.9 | 98.1 | 93.2 | 95.0 | 93.9 | 85.2 | 86.1 | 108.0 | 110.6 | 117.2 | 127.6 | 146.9 | 159.7 | 149.8 |
| Singapore | 65.7 | 106.2 | 143.4 | 148.0 | 142.0 | 124.0 | 101.4 | 95.8 | 105.9 | 99.7 | 94.2 | 93.0 | 93.3 | 101.5 | 120.6 | 112.5 |
| Spain | 87.6 | 127.3 | 132.2 | 134.8 | 118.1 | 114.8 | 107.7 | 93.8 | 92.4 | 122.7 | 136.9 | 140.9 | 146.2 | 165.9 | 190.7 | 185.6 |
| Sweden | 154.3 | 202.6 | 150.4 | 166.8 | 140.7 | 131.9 | 119.9 | 104.8 | 99.8 | 116.2 | 118.1 | 112.8 | 108.5 | 122.1 | 133.2 | 128.5 |
| Taiwan | 66.4 | 139.3 | 160.4 | 154.2 | 145.2 | 123.5 | 123.4 | 122.6 | 114.7 | 96.5 | 97.8 | 99.5 | 96.1 | 88.6 | 93.2 | 82.3 |
| United Kingdom | 81.7 | 98.8 | 92.1 | 91.7 | 98.5 | 106.2 | 104.7 | 97.3 | 93.5 | 109.5 | 120.7 | 121.4 | 125.4 | 136.5 | 128.7 | 115.6 |
| Office Kingdom | 0 | 00.0 | 02.1 | 0 | 00.0 | .00.2 | | 07.0 | 00.0 | .00.0 | .20 | | 120 | .00.0 | 120 | |
| Hourly compensation | | | | | | | | | | | | | | | | |
| (national currency basis) | | | | | | | | | | | | | | | | |
| United States | 38.2 | 62.1 | 73.4 | 74.6 | 76.5 | 81.2 | 84.8 | 91.3 | 94.8 | 108.0 | 108.9 | 112.5 | 114.7 | 118.5 | 123.2 | 129.6 |
| Australia | - | 63.9 | 77.8 | 82.1 | 83.0 | 87.7 | 91.4 | 90.5 | 96.0 | 106.0 | 110.1 | 117.1 | 125.2 | 130.7 | 132.4 | 145.0 |
| Belgium | 40.7 | 69.9 | 84.3 | 85.8 | 89.0 | 90.4 | 91.5 | 93.2 | 96.3 | 102.2 | 103.5 | 105.4 | 108.8 | 113.2 | 116.9 | 124.5 |
| Canada | 36.3 | 68.3 | 81.6 | 82.9 | 84.9 | 89.3 | 91.2 | 94.2 | 96.7 | 104.0 | 108.0 | 112.8 | 117.2 | 121.4 | 121.7 | 121.4 |
| Czech Republic | - | - | 51.9 | 61.0 | 67.1 | 73.4 | 77.4 | 82.0 | 91.6 | 108.1 | 114.6 | 118.1 | 124.5 | 133.3 | 139.9 | 138.3 |
| Denmark | 32.6 | 68.5 | 79.3 | 82.5 | 85.3 | 87.6 | 89.8 | 91.6 | 95.9 | 106.8 | 110.9 | 117.2 | 121.6 | 128.3 | 131.2 | 134.9 |
| Finland | 22.2 | 60.2 | 77.6 | 80.2 | 81.7 | 85.1 | 88.2 | 91.8 | 98.1 | 102.8 | 106.7 | 111.4 | 115.3 | 118.5 | 123.8 | 129.0 |
| France | 28.2 | 64.3 | 79.8 | 81.3 | 83.8 | 84.4 | 87.2 | 91.8 | 94.3 | 102.3 | 105.5 | 109.3 | 113.6 | 116.5 | 119.7 | 121.8 |
| Germany | 35.8 | 59.7 | 81.2 | 85.1 | 86.7 | 88.0 | 90.0 | 94.7 | 97.6 | 102.2 | 102.8 | 104.1 | 108.4 | 109.5 | 112.3 | 118.0 |
| Italy | 19.6 | 61.3 | 82.5 | 87.0 | 91.1 | 89.4 | 91.7 | 94.1 | 97.2 | 103.8 | 107.4 | 110.8 | 113.2 | 116.4 | 120.3 | 126.7 |
| Japan | 50.4 | 77.4 | 92.4 | 93.2 | 96.4 | 98.8 | 98.6 | 98.0 | 99.3 | 97.8 | 98.8 | 99.6 | 98.5 | 97.0 | 98.8 | 97.8 |
| Korea, Rep. of | - | 24.1 | 56.9 | 66.3 | 72.6 | 79.3 | 79.5 | 85.2 | 89.0 | 105.5 | 120.2 | 139.7 | 153.2 | 163.4 | 164.7 | 174.2 |
| Netherlands | 41.1 | 61.8 | 77.0 | 78.4 | 80.5 | 83.9 | 86.7 | 90.9 | 94.8 | 104.0 | 108.4 | 110.0 | 113.1 | 116.6 | 121.0 | 125.4 |
| Norway | 24.7 | 58.5 | 69.2 | 72.1 | 75.3 | 79.7 | 84.2 | 89.0 | 94.4 | 104.1 | 107.5 | 112.6 | 119.5 | 125.0 | 132.1 | 139.4 |
| Singapore | 26.0 | 54.5 | 82.6 | 86.8 | 91.7 | 93.7 | 88.8 | 93.4 | 96.2 | 100.6 | 101.2 | 100.5 | 99.4 | 99.2 | 100.2 | 95.9 |
| | 20.7 | 59.0 | 87.4 | 89.5 | 91.6 | 92.3 | 92.1 | 93.5 | 97.2 | 105.0 | 101.2 | 113.9 | 119.4 | 126.9 | 133.8 | 136.5 |
| SpainSweden | 27.0 | 61.0 | 71.7 | 77.3 | 81.4 | 84.5 | 87.2 | 90.6 | 94.9 | 103.0 | 107.3 | 111.0 | 114.2 | 120.9 | 124.0 | 129.0 |
| Taiwan | 19.8 | 57.0 | 80.5 | 85.7 | 88.5 | 91.4 | 93.3 | 94.9 | 101.0 | 104.5 | 107.3 | 112.7 | 119.5 | 120.2 | 123.7 | 119.9 |
| United Kingdom | 23.6 | 58.4 | 71.6 | 71.5 | 74.6 | 80.3 | 85.3 | 90.2 | 94.6 | 105.1 | 100.4 | 116.1 | 122.5 | 126.8 | 129.3 | 132.8 |
| NOTE: Data for Germany for ve | | | | | | | | | | | | | | | 120.0 | 102.0 |

NOTE: Data for Germany for years before 1995 are for the former West Germany. Data for 1995 onward are for unified Germany. Dash indicates data not available.

54. Occupational injury and illness rates by industry. 1 United States

| • | Incidence rates per 100 full-time workers ³ | | | | | | | | | | | | |
|--|--|--------------|--------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------|------------|
| Industry and type of case ² | 1989 ¹ | 1990 | 1991 | 1992 | 1993 ⁴ | 1994 ⁴ | 1995 ⁴ | 1996 ⁴ | 1997 ⁴ | 1998 ⁴ | 1999 ⁴ | 2000 4 | 2001 4 |
| PRIVATE SECTOR ⁵ | | | | | | | | | | | | | |
| Total cases | . 8.6 | 8.8 | 8.4 | 8.9 | 8.5 | 8.4 | 8.1 | 7.4 | 7.1 | 6.7 | 6.3 | 6.1 | 5.7 |
| Lost workday cases | 4.0 | 4.1 | 3.9 | 3.9 | 3.8 | 3.8 | 3.6 | 3.4 | 3.3 | 3.1 | 3.0 | | 2.8 |
| Lost workdays | . 78.7 | 84.0 | 86.5 | 93.8 | - | - | - | - | - | - | _ | _ | - |
| Agriculture, forestry, and fishing ⁵ | | | | | | | | | | | | | |
| Total cases | . 10.9 | 11.6 | 10.8 | 11.6 | 11.2 | 10.0 | 9.7 | 8.7 | 8.4 | 7.9 | 7.3 | 7.1 | 7.3 |
| Lost workday cases | . 5.7 | 5.9 | 5.4 | 5.4 | 5.0 | 4.7 | 4.3 | 3.9 | 4.1 | 3.9 | 3.4 | 3.6 | 3.6 |
| Lost workdays | . 100.9 | 112.2 | 108.3 | 126.9 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Mining | | | | | | | | | | | | | |
| Total cases | . 8.5 | 8.3 | 7.4 | 7.3 | 6.8 | 6.3 | 6.2 | 5.4 | 5.9 | 4.9 | | 4.7 | 4.0 |
| Lost workday cases Lost workdays | . 4.8 | 5.0 119.5 | 4.5 129.6 | 4.1 204.7 | 3.9 | 3.9 | 3.9 | 3.2 | 3.7 | 2.9 | 2.7 | 3.0 | 2.4 |
| Construction | . 107.2 | 110.0 | 120.0 | 204.7 | | | | | | | | | |
| Total cases | . 14.3 | 14.2 | 13.0 | 13.1 | 12.2 | 11.8 | 10.6 | 9.9 | 9.5 | 8.8 | 8.6 | 8.3 | 7.9 |
| Lost workday cases | 6.8 | 6.7 | 6.1 | 5.8 | 5.5 | 5.5 | 4.9 | 4.5 | 4.4 | 4.0 | | | 4.0 |
| Lost workdays | 143.3 | 147.9 | 148.1 | 161.9 | _ | _ | - | _ | _ | _ | _ | _ | _ |
| General building contractors: | | | | | | | | | | | | | |
| Total cases | | 13.4 | 12.0 | 12.2 | 11.5 | 10.9 | 9.8 | 9.0 | 8.5 | 8.4 | | | 6.9 |
| Lost workday cases | . 6.5 | 6.4 | 5.5 | 5.4 | 5.1 | 5.1 | 4.4 | 4.0 | 3.7 | 3.9 | 3.7 | 3.9 | 3.5 |
| Lost workdays | . 137.3 | 137.6 | 132.0 | 142.7 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Heavy construction, except building: Total cases | . 13.8 | 13.8 | 12.8 | 12.1 | 11.1 | 10.2 | 9.9 | 9.0 | 8.7 | 8.2 | 7.8 | 7.6 | 7.8 |
| Lost workday cases | | 6.3 | 6.0 | 5.4 | 5.1 | 5.0 | 4.8 | 4.3 | 4.3 | 4.1 | | | 4.0 |
| Lost workdays | 147.1 | 144.6 | 160.1 | 165.8 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Special trades contractors: | | | | | | | | | | | | | |
| Total cases | | 14.7 | 13.5 | 13.8 | 12.8 | 12.5 | 11.1 | 10.4 | 10.0 | 9.1 | | | |
| Lost workday cases | . 6.9 | 6.9 | 6.3 | 6.1 | 5.8 | 5.8 | 5.0 | 4.8 | 4.7 | 4.1 | 4.4 | 4.3 | 4.1 |
| Lost workdays | . 144.9 | 153.1 | 151.3 | 168.3 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Manufacturing | 40.4 | 40.0 | 40.7 | 40.5 | 40.4 | 400 | 44.0 | 40.0 | 400 | 0.7 | | | |
| Total cases Lost workday cases | . 13.1 . 5.8 | 13.2 5.8 | 12.7 5.6 | 12.5 5.4 | 12.1 5.3 | 12.2 5.5 | 11.6 5.3 | 10.6 4.9 | 10.3 4.8 | 9.7 4.7 | 9.2 4.6 | | 8.1 4.1 |
| Lost workdays | . 113.0 | 120.7 | 121.5 | 124.6 | 5.5 | 5.5 | 5.5 | 4.5 | 4.0 | 4.7 | 4.0 | 4.5 | 4.1 |
| • | . 113.0 | 120.7 | 121.5 | 124.0 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Durable goods: | | 440 | 40.0 | 40.4 | 40.4 | 40.5 | 40.0 | 44.0 | 44.0 | 40.7 | 40.4 | | |
| Total cases Lost workday cases | . 14.1 | 14.2 6.0 | 13.6 5.7 | 13.4 5.5 | 13.1 5.4 | 13.5 5.7 | 12.8 5.6 | 11.6 5.1 | 11.3 5.1 | 10.7 5.0 | | _ | 8.8 4.3 |
| Lost workdays | | 123.3 | 122.9 | 126.7 | 5.4 | 5.7 | 5.0 | 5.1 | 5.1 | 5.0 | 4.0 | _ | 4.3 |
| Lumber and wood products: | . 110.5 | 120.0 | 122.3 | 120.7 | | | | | | _ | | | |
| Total cases | 18.4 | 18.1 | 16.8 | 16.3 | 15.9 | 15.7 | 14.9 | 14.2 | 13.5 | 13.2 | 13.0 | 12.1 | 10.6 |
| Lost workday cases | | 8.8 | 8.3 | 7.6 | 7.6 | 7.7 | 7.0 | 6.8 | 6.5 | 6.8 | | 6.1 | 5.5 |
| Lost workdays | | 172.5 | 172.0 | 165.8 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Furniture and fixtures: | | - | | | | | | | | | | | |
| Total cases | 16.1 | 16.9 | 15.9 | 14.8 | 14.6 | 15.0 | 13.9 | 12.2 | 12.0 | 11.4 | | | 11.0 |
| Lost workday cases | . 7.2 | 7.8 | 7.2 | 6.6 | 6.5 | 7.0 | 6.4 | 5.4 | 5.8 | 5.7 | 5.9 | 5.9 | 5.7 |
| Lost workdays | - | - | _ | 128.4 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Stone, clay, and glass products: Total cases | 15.5 | 15.4 | 14.8 | 13.6 | 13.8 | 13.2 | 12.3 | 12.4 | 11.8 | 11.8 | 10.7 | 10.4 | 10.1 |
| Lost workday cases | | 7.3 | 6.8 | 6.1 | 6.3 | 6.5 | 5.7 | 6.0 | 5.7 | 6.0 | | 5.5 | 5.1 |
| Lost workdays | | 160.5 | 156.0 | 152.2 | _ | _ | _ | - | _ | - | _ | - | _ |
| Primary metal industries: | | | | | | | | | | | | | |
| Total cases | | 19.0 | 17.7 | 17.5 | 17.0 | 16.8 | 16.5 | 15.0 | 15.0 | 14.0 | | | 10.7 |
| Lost workday cases | | 8.1 | 7.4 | 7.1 | 7.3 | 7.2 | 7.2 | 6.8 | 7.2 | 7.0 | 6.3 | 6.3 | 5.3 |
| Lost workdays | . 168.3 | 180.2 | 169.1 | 175.5 | _ | _ | _ | _ | _ | _ | _ | _ | 11.1 |
| Fabricated metal products: Total cases | 18.5 | 18.7 | 17.4 | 16.8 | 16.2 | 16.4 | 15.8 | 14.4 | 14.2 | 13.9 | 12.6 | 11.9 | 11.1 |
| Lost workday cases | | 7.9 | 7.1 | 6.6 | 6.7 | 6.7 | 6.9 | 6.2 | 6.4 | 6.5 | | | 5.3 |
| Lost workdays | . 147.6 | 155.7 | 146.6 | 144.0 | _ | _ | - | - | - | - | - | - | - |
| Industrial machinery and equipment: | | | | | | | | | | | | | |
| Total cases | | 12.0 | 11.2 | 11.1 | 11.1 | 11.6 | 11.2 | 9.9 | 10.0 | 9.5 | | | 11.0 |
| Lost workday cases | . 4.8 | 4.7 | 4.4 | 4.2 | 4.2 | 4.4 | 4.4 | 4.0 | 4.1 | 4.0 | 3.7 | 3.6 | 6.0 |
| Lost workdays | . 86.8 | 88.9 | 86.6 | 87.7 | _ | _ | _ | _ | _ | _ | - | _ | - |
| Electronic and other electrical equipment: | | | | | | | | | | | | | |
| Total cases Lost workday cases | 9.1 | 9.1 3.8 | 8.6 3.7 | 8.4 3.6 | 8.3 3.5 | 8.3 3.6 | | 6.8 3.1 | 6.6 3.1 | 5.9 2.8 | | | 5.0 2.5 |
| Lost workdays | 77.5 | 79.4 | 83.0 | 81.2 | 3.5 | 3.0 | 3.3 | 3.1 | 3.1 | 2.0 | 2.0 | 2.9 | 2.5 |
| Transportation equipment: | | . 5.4 | 55.5 | 51.2 | | | _ | | | | | | |
| Total cases | 17.7 | 17.8 | 18.3 | 18.7 | 18.5 | 19.6 | 18.6 | 16.3 | 15.4 | 14.6 | 13.7 | 13.7 | 12.6 |
| Lost workday cases | | 6.9 | 7.0 | 7.1 | 7.1 | 7.8 | 7.9 | 7.0 | 6.6 | 6.6 | 6.4 | 6.3 | 6.0 |
| Lost workdays | . 138.6 | 153.7 | 166.1 | 186.6 | - | - | - | _ | - | - | _ | _ | - |
| Instruments and related products: | | | | | | | | | | | | | |
| Total cases Lost workday cases | | 5.9 2.7 | 6.0 2.7 | 5.9 2.7 | 5.6 2.5 | 5.9 2.7 | 5.3 2.4 | 5.1 2.3 | 4.8 2.3 | 4.0 1.9 | | | |
| Lost workdays | | 57.8 | 64.4 | 65.3 | 2.5 | 2.7 | 2.4 | 2.3 | 2.3 | 1.9 | 1.0 | 2.2 | 2.0 |
| Miscellaneous manufacturing industries: | 33.4 | 57.0 | 04.4 | 00.0 | _ | _ | _ | _ | _ | _ | | - | |
| Total cases | 11.1 | 11.3 | 11.3 | 10.7 | 10.0 | 9.9 | 9.1 | 9.5 | 8.9 | 8.1 | 8.4 | 7.2 | 6.4 |
| Lost workday cases | | 5.1 | 5.1 | 5.0 | 4.6 | 4.5 | | 4.4 | 4.2 | 3.9 | | | |
| Lost workdays | 97.6 | 113.1 | 104.0 | 108.2 | l – | l _ | _ | _ | l _ | _ | l _ | 1 _ | l _ |

See footnotes at end of table.

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

| | | | | | Incid | lence ra | tes per 1 | 00 work | ers ³ | | | | |
|---|-------------------|-------------|--------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| Industry and type of case ² | 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 Lost workday cases | | 11.7 5.6 | 11.5 5.5 | 11.3 5.3 | 10.7 5.0 | 10.5 5.1 | 9.9 4.9 | 9.2 4.6 | 8.8 4.4 | 8.2 4.3 | 7.8 4.2 | 7.8 4.2 | 6.8 3.8 |
| Lost workdays | | 116.9 | 119.7 | 121.8 | - 3.0 | - | 7.5 | - | - | - | - 4.2 | - 4.2 | - 5.0 |
| 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 | | 9.9 | 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: Total cases | 8.7 | 7.7 | 6.4 | 6.0 | 5.8 | 5.3 | 5.6 | 6.7 | 5.9 | 6.4 | 5.5 | 6.2 | 6.7 |
| Lost workday cases | | 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: | | | | | | | | | | | | | |
| Total cases Lost workday cases | | 9.6 4.0 | 10.1 4.4 | 9.9 4.2 | 9.7 4.1 | 8.7 4.0 | 8.2 4.1 | 7.8 3.6 | 6.7 3.1 | 7.4 3.4 | 6.4 3.2 | 6.0 | 5.2 2.7 |
| Lost workdays | | 85.1 | 88.3 | 87.1 | 4.1 | 4.0 | 4.1 | 3.6 | 3.1 | 3.4 | 3.2 | 3.2 | 2.1 |
| Apparel and other textile products: | | 00 | 00.0 | 0 | | | | | | | | | |
| 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 | | 3.9 | 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: | 10 7 | 40.4 | 44.0 | 44.0 | 0.0 | 0.0 | 0.5 | 7.0 | 7.0 | 7.1 | 7.0 | | |
| Total cases Lost workday cases | | 12.1 5.5 | 11.2 5.0 | 11.0 5.0 | 9.9 4.6 | 9.6 4.5 | 8.5 4.2 | 7.9 3.8 | 7.3 3.7 | 7.1 3.7 | 7.0 3.7 | 6.5 3.4 | 6.0 3.2 |
| Lost workdays | | 124.8 | 122.7 | 125.9 | 4.0 | 4.5 | 4.2 | 3.0 | 3.7 | 3.7 | 3.7 | 3.4 | 3.2 |
| Printing and publishing: | 02.0 | | | .20.0 | | | | | | | | | |
| Total cases | | 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 | 3.2 | 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 | | 3.1 | 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: | | | | | | | | | | | | | |
| Total cases | | 6.6 | 6.2 2.9 | 5.9 2.8 | 5.2 2.5 | 4.7 2.3 | 4.8 2.4 | 4.6 2.5 | 4.3 2.2 | 3.9 1.8 | 4.1 1.8 | 3.7 | 2.9 1.4 |
| Lost workday cases Lost workdays | | 3.1 77.3 | 68.2 | 71.2 | 2.5 | 2.3 | 2.4 | 2.5 | 2.2 | 1.0 | 1.0 | 1.9 | 1.4 |
| Rubber and miscellaneous plastics products: | | | 00.2 | | | | | | | | | | |
| 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 | | 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 | | 5.9 | 5.9 | 5.4 | 5.5 | 5.3 | 4.8 | 4.5 | 4.3 | 4.5 | 5.0 | 4.3 | 4.4 |
| Lost workdays | | 152.3 | 140.8 | 128.5 | _ | _ | _ | - | _ | _ | _ | - | - |
| Transportation and public utilities | | | | | | | | | | | | | |
| Total cases | | 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 | | 5.5 | 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 | | 7.9 3.5 | 7.6 3.4 | 8.4 3.5 | 8.1 3.4 | 7.9 3.4 | 7.5 3.2 | 6.8 2.9 | 6.7 3.0 | 6.5 2.8 | 6.1 2.7 | 5.9 2.7 | 6.6 2.5 |
| Lost workdays | | 65.6 | 72.0 | 80.1 | - 0.4 | - 0.4 | - 0.2 | 2.5 | - 5.0 | 2.0 | | | 2.5 |
| Wholesale trade: | | | | | | | | | | | | | |
| Total cases | 1 | 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 | | 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: Total cases | 8.1 | 8.1 | 7.7 | 8.7 | 8.2 | 7.9 | 7.5 | 6.9 | 6.8 | 6.5 | 6.1 | 5.9 | 5.7 |
| Lost workday cases | | 3.4 | 3.3 | 3.4 | 3.3 | 3.3 | 3.0 | 2.8 | 2.9 | 2.7 | 2.5 | | 2.4 |
| Lost workdays | . 60.0 | 63.2 | 69.1 | 79.2 | - | _ | - | - | - | - | - | - | - |
| Finance, insurance, and real estate | | | | | | | | | | | | | |
| Total cases | | 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 | | 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 | | | 0.0 | - . | | 0 - | | 0.5 | | | 4.5 | | |
| Total cases Lost workday cases | | 6.0 2.8 | 6.2 2.8 | 7.1 3.0 | 6.7 2.8 | 6.5 2.8 | 6.4 2.8 | 6.0 2.6 | 5.6 2.5 | 5.2 2.4 | 4.9 2.2 | 4.9 2.2 | 4.6 2.2 |
| Lost workdays | 51.2 | 56.4 | 60.0 | 68.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 2.4 | | | 2.2 |
| 1 Data for 1090 and subsequent years are based on | | 55.4 | ctrial Class | | number (| | | | | | | | |

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.

NOTE: Dash indicates data not available.

 $^{^{\}rm 2}\,$ 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:

N = number of injuries and illnesses or lost workdays;

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.

Excludes farms with fewer than 11 employees since 1976.

55. Fatal occupational injuries by event or exposure, 1996-2005

| 1 | 1996-2000 | 2001-2005 | 200 | ₀₅ 3 |
|--|-----------|------------------------|----------|-----------------|
| Event or exposure ¹ | (average) | (average) ² | 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 overturnedno 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 | 0.0 | | | • |
| roadway | 129 | 136 | 140 | 2 |
| Worker struck by vehicle, mobile equipment in | 120 | 100 | 1.10 | _ |
| parking lot or non-road area | 171 | 166 | 176 | 3 |
| Water vehicle | 105 | 82 | 88 | 2 |
| Aircraft | 263 | 206 | 149 | 3 |
| Allorait | 203 | 200 | 143 | 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 |
| | 153 | 154 | 160 | 3 |
| Fall from roofFall to lower level, n.e.c. | 117 | 123 | 117 | 2 |
| Fall to lower level, fi.e.c. | 117 | 123 | 117 | |
| 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 |
| | 400 | | 4.50 | |
| Fires and explosions | 196 | 174 | 159 | 3 2 |
| | | | | |
| Firesunintended or uncontrolled Explosion | 103 92 | 95 78 | 93 65 | 1 |

<sup>Based on the 1992 BLS Occupational Injury and Illness Classification Manual.

Excludes fatalities from the Sept. 11, 2001, terrorist attacks.

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 sociently. Page indicate no data reported or data that do not meet publication criteria.</sup>

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.