

MONTHLY LABOR REVIEW

U.S. Department of Labor

U.S. Bureau of Labor Statistics

Out-of-pocket health care expenditures: a comparison

also in this issue: Producing disease-based price indexes • New expenditure data in the PSID: comparisons with the CE





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Date	Time	Release
Thursday, March 04, 2010	8:30 AM	Productivity and Costs (R) for Fourth Quarter 2009
Friday, March 05, 2010	8:30 AM	Employment Situation for February 2010
Tuesday, March 09, 2010	10:00 AM	Job Openings and Labor Turnover Survey for January 2010
Wednesday, March 10, 2010	10:00 AM	Employer Costs for Employee Com- pensation for December 2009
Wednesday, March 10, 2010	10:00 AM	Regional and State Employment and Unemployment (Monthly) for January 2010
Tuesday, March 16, 2010	8:30 AM	U.S. Import and Export Price Indexes for February 2010
Wednesday, March 17, 2010	8:30 AM	Producer Price Index for February 2010
Thursday, March 18, 2010	8:30 AM	Consumer Price Index for February 2010
Thursday, March 18, 2010	8:30 AM	Real Earnings for February 2010
Friday, March 19, 2010	10:00 AM	Metropolitan Area Employment and Unemployment (Monthly) for January 2010
Tuesday, March 23, 2010	10:00 AM	Mass Layoffs (Monthly) for February 2010
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The February Review

Consumer expenditures and price indexes are the topics at hand in this issue of the *Review*. The articles present these topics in a comparative manner by evaluating multiple data sources, highlighting their differences, and, if applicable, offering alternative methods of compilation.

The lead article, by BLS economist Ann C. Foster, takes an in-depth look at annual aggregate health care expenditure data from three separate data sources-the Consumer Expenditure Survey (CE), the household component of the Medical Expenditure Panel Survey (MEPS), and the National Health Expenditure Accounts (NHEA). "Out-of-pocket health care expenditures: a comparison" analyzes health care expenditures from 1996 to 2006 to determine whether or not these data sources are consistent. The article compares each survey on the basis of the categories into which it classifies, or counts, specific types of expenditures. For example, the CE includes expenditures on nursing home care as "all services provided and billed by a convalescent or nursing home," MEPS does not include this category or an analogous one, and the NHEA uses the category "services provided by freestanding nursing home facilities" for nursing home expenditures. The author finds that some comparisons across the surveys are possible, but that methodology differences appear to explain the differences in estimates.

Continuing with the health-related theme, "Producing disease-based price indexes" compares two differ-

ent methods of measuring health care costs. One method, which is used in creating the BLS Consumer Price Index, is called the "goods-and-services" concept; it measures the cost of each medical good and service separately. The other method, called the "treatment concept," measures the cost of all goods and services used to treat a particular disease. The authors explain that each approach provides different information: the "goods-and-services concept" measures the contribution of each medical input to total health care inflation, whereas the "treatment concept" indicates how much disease influences health care inflation. The authors conclude that, if BLS had used the "treatment concept" approach, there would have been little change to the medical CPI during the period examined. Further, the analysis shows that increased productivity and substitutions towards less expensive services have reduced the total price of health care, but that these reductions did not lead to any significant reduction in consumer premiums during the timespan studied.

The CE is the primary topic in the final article of this issue. As with the lead article, the authors compare CE data with similar data from another source, but in this case, the other source is the Panel Study of Income Dynamics (PSID). The authors find that, generally, CE and PSID estimates of expenditures align closely in most broad categories despite differences in their instruments and design features. The paper concludes that the CE "will remain the primary dataset for cross-sectional analyses" but that the PSID's longitudinal nature and genealogical design will allow for "new

areas of research...with the use of PSID consumption expenditure data."

Work stoppages in 2009

This month, BLS released data on major work stoppages in 2009. For the year, there were 5 major strikes or lockouts involving 1,000 or more workers. This is the lowest number of major work stoppages since BLS began collecting data for the series in 1947. The news release regarding these data is available online at http://www.bls.gov/news.release/ pdf/wkstp.pdf. Additional information is available at http://www.bls. gov/wsp/.

Manufacturing multifactor productivity

Manufacturing-sector multifactor productivity increased at a 4.7 percent annual rate in 2007. Multifactor productivity, which measures the change in output per unit of combined inputs, increased 6.0 percent in the durable goods manufacturing sector and 3.0 percent in the nondurable goods manufacturing sector for the year. Multifactor productivity differs from labor productivity (output per hour worked) and is designed to measure the joint influences on economic growth of technological change, efficiency improvements, and other factors, allowing for the effects of capital, labor, and intermediate inputs (energy, materials, and purchased business services). The news release regarding these data is available online at http://www.bls. gov/news.release/pdf/prod5.pdf. Additional information is available at http://www.bls.gov/mfp/. \square

Out-of-pocket health care expenditures: a comparison

An examination of aggregate out-of-pocket health care expenditures from the CE, MEPS, and the NHEA for the 1996–2006 period indicates that methodological differences account for the lack of agreement among estimates

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ealth care expenditure data produced by the Federal Government come from a variety of data sources, including the Bureau of Labor Statistics (BLS) Consumer Expenditure Survey (CE), the household component of the Medical Expenditure Panel Survey (MEPS-HC) of the Department of Health and Human Services (DHHS) Agency for Healthcare Research and Quality, the National Health Expenditure Accounts (NHEA) of the DHHS Centers for Medicare and Medicaid Services, and the Personal Consumption Expenditures (PCE) of the Bureau of Economic Analysis (BEA). The purpose of this article is to examine annual aggregate CE, MEPS, and NHEA out-of-pocket health care expenditures for comparable categories from 1996 to 2006 to determine whether they are consistent across the three data sources.¹

The CE collects information about outof-pocket spending on health care and other expenses from consumer units² throughout the United States. The MEPS-HC collects nationwide data on the cost and use of health care and on health insurance coverage at the household and the individual level.³ The NHEA are the official estimates of total health care spending in the United States. The NHEA measure aggregate annual expenditures for health care goods and services, public-health activities, program administration, and research and other investment related to health care, as well as the net cost of private insurance. The PCE measure the market value of health care and other goods and services purchased by the "personal sector" of the U.S. Census Bureau's National Income and Product Accounts. Data for the NHEA and the PCE are obtained from secondary sources. Although health insurance premiums are a major part of household health care spending, they will not be examined in this article because the MEPS data that were used did not provide the information needed for the research undertaken.

The first section of the article compares and contrasts the content and methodology of the CE, MEPS, and NHEA. The next section describes the methods to be used subsequently to carry out the comparison, including spending category alignment, population adjustment, and expenditure computation. Then, the relevant findings from the analysis are presented and examined, followed by conclusions and implications.⁴

Consumer Expenditure Survey

Conducted continuously since 1980, the CE has two components: a quarterly Interview Survey and a weekly Diary Survey. Each com-

ponent queries an independent sample of consumer units designed to be representative of the U.S. civilian noninstitutionalized population.⁵ The CE collects information not just on health care expenditures, but on all spending components, including food, housing, apparel and services, transportation, and entertainment. Data are collected on an ongoing basis in 91 areas of the country.

CE data are used in various ways, one of which is in the periodic revision of the BLS Consumer Price Index (CPI). CE data form the basis of the selection of new market baskets of goods and services for the CPI, determine the relative importance of CPI components, and are used to derive new cost weights for the market baskets.⁶

CE data are collected by the U.S. Census Bureau under contract with the BLS. The Interview Survey is designed to collect spending information that usually can be remembered after 3 or more months. Included is information about fairly large expenditures, such as major appliances, and those which occur regularly, such as rent or health insurance premiums. Also included is information on expenses for reimbursements for medical care costs that are not collected in the Diary Survey. Interview Survey respondents are interviewed every 3 months for a total of five interviews. Information on spending (net of any reimbursements) is collected from respondents in the second through fifth interviews, by means of uniform questions. About 7,000 consumer units are interviewed each quarter.

Although the Diary Survey is designed to obtain information about small, frequently purchased items, such as food and personal care products, that are hard to remember over long periods, it is not limited to these expenses. With few exceptions, all expenses a consumer unit incurs during a survey week are recorded in a self-administered diary. Health care expenditures collected only in the Diary Survey are repair of medical equipment, nonprescription drugs, nonprescription vitamins, and topicals and dressings. About 7,000 consumer units are sampled annually for the Diary Survey, with each consumer unit completing two consecutive 1-week diaries, yielding around 14,000 diaries a year.⁷

Data from the Diary and Interview Surveys are combined to provide a more complete picture of consumer expenditures and income that neither component alone is designed to do. Most of the published health care expenditures are obtained from the Interview Survey; however, there is considerable overlap in item coverage between the two surveys. Thus, the problem of determining the best survey component from which to select expenditure items must be addressed. When overlap occurs, the more reliable of the two estimates is determined by statistical methods.⁸ Integrated CE data will be used in the analysis that follows, for a more complete picture of out-of-pocket health care spending.

Medical Expenditure Panel Survey

The MEPS-HC, which began in 1996, is a householdbased survey that contains individual and household-level estimates of health care expenditures and use, health insurance coverage, and a wide range of other health-related and socioeconomic characteristics.⁹

MEPS data are used for policy-related and behavioral research on the determinants of health care use, spending, and insurance coverage. The Federal Government uses MEPS data to prepare national estimates of health care use and spending, private and public health insurance coverage, and the availability, cost, and scope of private health insurance benefits for the U.S. population and for subgroups of policy interest.¹⁰

With the use of an overlapping panel design, MEPS-HC data are collected from a sample that is selected to be representative of the U.S. civilian noninstitutionalized population. Data are collected at the household and the individual level. In 2006, for example, data were collected from 12,811 families in order to obtain information on 32,577 individuals. Each year, a new panel of households is selected from those that participated in the previous year's National Health Interview Survey conducted by the National Center for Health Statistics of the DHHS. For each panel, 2 years of data are collected in five in-person interviews over 2½ years.¹¹

Each of the five interview rounds of the MEPS-HC contains core component questions that request information about demographic characteristics; charges and payments by source (household, private insurance, Medicare, Medicaid, and so forth); health status; medical conditions; utilization data for hospital visits, physicians' services, home health care, and prescription drugs; public and private health insurance coverage; and employment status. Rounds 2 and 4 have supplemental sections to elicit information about access to care, child preventive health care, and satisfaction with health plans and providers. Rounds 3 and 5 have supplemental sections requesting information on income, preventative health care, and priority conditions, while information on assets is requested in round 5 only. Unlike the CE, which collects data on the consumer unit only, the MEPS-HC collects data on individual household members.¹²

The medical provider component of MEPS (MEPS-MPC) supplements and validates information reported

in the MEPS-HC by means of telephone interviews with, and survey materials mailed to, medical providers and pharmacies reported by HC respondents. The MPC sample includes hospitals and hospital-based physicians, home health care agencies, office-based physicians, and pharmacies. Information about dates of visits, diagnosis and procedure codes, charges, and payments is collected from all medical providers. The MPC pharmacy component collects detailed information on drugs, including the National Drug Code, name of the medicine, date filled, and sources and amounts of payments. MPC data are used to replace expenditure data reported by HC respondents with data reported by their providers, because the latter data generally are more complete and less prone to reporting errors. MPC data also are used as an imputation source for item nonresponse in order to reduce the level of bias in survey estimates of medical expenditure.¹³

Methodological differences between the CE and MEPS could produce low CE-MEPS ratios. One factor is that, as mentioned in the previous paragraph, the MEPS-MPC uses provider data to verify respondent data for hospital, physician, and prescription drug spending, while the CE relies on respondent data only. The nature of the MEPS interview also could play a part because respondents are asked about health conditions and associated treatments, as well as related expenses, for all household members. This format could increase respondents' recall of expenditures, compared with the CE practice of asking about total consumer unit out-of-pocket expenses only. CE respondents provide information about outlays on food, housing, transportation, entertainment, and more, in addition to health care, further complicating their recall of expenditures.

National Health Expenditure Accounts

Dating back to 1960, the NHEA are compiled to measure aggregate health care spending and to provide a way to examine the relationship between payers and providers of goods and services over time. The NHEA cover a larger population than the CE and MEPS, because all persons, military and civilian, living in the United States are considered part of the resident population.¹⁴

NHEA data provide valuable information on health care spending as a proportion of the gross domestic product (GDP), on changes over time in expenditures for types of goods and services and in sources of funds, and on health care spending projections. NHEA data also provide specialized historical estimates of spending by age and State, along with estimates by sponsor (businesses, households, and government) of health care.¹⁵ The NHEA use many secondary data sources. For hospital care, the basic data sources are the American Hospital Association's Annual Survey and the Census Bureau's Services Annual Survey (SAS); Federal hospital estimates are based on data from the Federal agencies that administer them. Data sources for physician and clinical services, dental services, and other professional services include the Census Bureau's SAS and Census of Service Industries, as well as data from the BLS Current Employment Statistics, Consumer Price Index, and Producer Price Index programs. Data sources for the NHEA home health care component include SAS and the Census of Service Industries for private establishments; for government-owned home health care agencies, the NHEA derive their estimates from Medicare data.¹⁶

In the NHEA, the categories of prescription drugs, other nondurable medical products, and durable medical equipment include products purchased or leased from retail outlets or through mail order only. Expenditures made in connection with hospital care, nursing home care, or a professional visit are included in the estimates for those providers' services. However, optical goods, such as eyeglasses and contact lenses, are included in durable medical equipment instead of with optometrists' receipts.

Through 2002, the NHEA used detailed data from the Census Bureau's Census of Retail Trade to estimate prescription drug spending. Estimates for subsequent years are prepared by extrapolating the 2002 levels with IMS Health, Inc., data on retail and wholesale purchases.¹⁷

Estimates for other nondurable medical products (nonprescription drugs and medical sundries) and for durable medical products (for example, eyeglasses, hearing aids, and medical equipment) are benchmarked to the national Input-Output (I-O) tables produced by the BEA in years ending in 2 and 7. The nonprescription drug estimate is interpolated between I-O years and extrapolated to recent periods on the basis of retail sales data from Kline & Company; for medical sundries, detailed Personal Consumption Expenditure data from the BEA's National Income and Product Accounts are used. From 1987 through 2007, private (nongovernment) spending estimates for durable medical equipment were prepared by interpolating between, and extrapolating from, adjusted I-O levels, using CE data, adjusted and distributed National Medical Expenditure Survey or MEPS data. For 2008, durable medical equipment expenditures were prepared by using the historical relationship of CPI for eyeglasses and eye care, real GDP, and current population data combined with public data sources.¹⁸

The NHEA estimate sources of payment as follows for a majority of the personal health expenditure sectors described in the preceding paragraphs: government spending for both Federal Government programs and State and local government programs is calculated. Private spending (outof-pocket spending; private health insurance; and other private sources, such as philanthropy) is calculated as personal health care expenditures minus government expenditures. The NHEA allocation of private expenditures across out-ofpocket, private health insurance, and other private sources is determined from numerous data sources.¹⁹ The way in which the NHEA allocate health care expenditures across categories will influence CE-NHEA ratios compared with ratios computed under alternative assumptions. The exact impact of the NHEA assumptions on these categories, however, cannot be determined from available data.

In the NHEA, out-of-pocket spending for health care consists of direct spending by consumers. This estimate includes the amount spent for health care goods and services not covered by insurance and for coinsurance and deductibles (including provider payments covered by Health Savings Accounts) required by private insurance and by public programs such as Medicare and Medicaid.²⁰

Health care categories

Because each data source categorizes health care expenditures differently, a comparison of the categories helps in constructing research variables with the greatest possible alignment across the three sources. Exhibit 1 summarizes expenditure categories and other differences among them.

Inpatient hospital care. The CE collects information on spending for inpatient hospital rooms and services provided by facilities such as general-care hospitals, psychiatric hospitals, substance abuse hospitals, and birthing centers. MEPS also collects information on spending for inpatient hospital facilities, but excludes charges for hospital-based nursing home care, skilled nursing facilities, and intermediate care facilities for those with intellectual disabilities. Hospital stays of 45 or more days also are out of scope for MEPS, whereas hospital-based home health care is included in the home health care category.

In the NHEA, the type of product consumed or the type of establishment providing a service determines what is included in a spending category. Thus, hospital expenses cover all services provided by hospitals, including room and board, operating room fees, resident physician fees, prescription drugs, hospital-based nursing home care, and hospital-based home health care.²¹ In contrast to the CE and MEPS, the NHEA do not distinguish between inpatient, outpatient, and emergency room care. All U.S. hospitals are within the scope of the NHEA.

Laboratory tests and x rays. The CE collects information on laboratory tests and x rays received neither as a hospital inpatient nor in connection with eye and dental care. MEPS places these expenses into several categories, including emergency room facilities charges, outpatient facilities charges, and office visits. Medical laboratory services billed directly from medical and diagnostic laboratories are part of the "other professional services" category.

The NHEA include laboratory tests and x rays in with the charges of the establishment providing the service. Laboratory tests and x rays provided by hospitals on an inpatient, outpatient, or emergency room basis are part of the hospital care category. Charges for laboratory tests and x rays also are included in physician and clinical services spending. Establishments in this category include offices of physicians (NAICS 62111) and outpatient care centers, such as health maintenance organizations (NAICS 6214). Medical laboratory services billed directly from medical and diagnostic laboratories (NAICS 62151) also are included in the physician and clinical services category.

Other medical care services. In the CE, outpatient hospital care, emergency room services, and ambulance services are part of the "other medical services" category. MEPS has separate categories for outpatient and emergency room facilities charges, while ambulance services are part of the "other medical equipment and services" category. The NHEA include outpatient hospital care and emergency room services in the hospital care category. Ambulance services are not included in consumer outlays for health care, but ambulance services reimbursed by Medicare are included in "other professional services."

Physicians' services. CE respondents are asked to give information about all services provided and billed by physicians. Information about whether these services were related to hospital care, an office visit, or a home visit is not requested. MEPS classifies separately billed physician charges by whether they were made in connection with an inpatient hospital stay, outpatient hospital care, hospital emergency room treatment, or an office visit. Besides obtaining this information from respondents, MEPS requests additional verification from providers.

In the NHEA, spending on the services of physicians, dentists, and other medical professionals is categorized by the establishment providing the service. The NHEA physician and clinical services category covers spending on services provided by offices of physicians (NAICS 62111)

Exhibit 1.

Comparison of the Consumer Expenditure Survey, Medical Expenditure Panel Survey, and National Health Expenditure Accounts

Category	Consumer Expenditure Survey	Medical Expenditure Panel Survey	National Health Expenditure Accounts
Population represented	U.S. civilian noninstitutionalized population.	U.S. civilian noninstitutionalized population.	U.S. resident population plus net undercount.
Databases	Data based on expenditures classi- fied by type of service, regardless of medical event leading to expenditure.	Data based on event-level expendi- tures classified by type of service.	Data based on estimates of revenues received by providers, classified by type of establishment.
Data sources	Information from Interview and Diary Survey respondents. Infor- mation for each service is the total for all consumer unit members.	Information provided for each event leading to an expenditure. Survey estimates at individual and household level. Information obtained by inter- view, with information on hospital services, hospital-based physicians, home health agencies, office-based physicians, and pharmacies verified by providers.	Aggregate data from secondary sources. Includes information from Federal agen- cies administering public programs such as Medicare and Medicaid; the Annual Survey of the American Hospital Asso- ciation; and the Census Bureau's Service Annual Survey, Census of Service Indus- tries, and Census of Retail Trade.
Inpatient hospital care	Includes spending for inpatient hospital rooms and services from facilities such as general-care hospitals, psychiatric hospitals, sub- stance abuse hospitals, and birthing centers.	Information on inpatient hospital facilities charges. Excludes charges for hospital-based nursing home care, skilled-nursing facilities, and inter- mediate care facilities for those with intellectual disabilities. Hospital stays of 45 days or more are out of scope. Hospital-based home health care part of home health care category.	Hospital care category includes charges for all services provided by hospitals, including inpatient, outpatient, and emergency room services; prescription drugs; and hospital-based nursing home and home health care.
Laboratory tests and x rays	Spending for laboratory tests or x rays not received as a hospital inpatient or in connection with eye and dental care.	Included in outpatient facilities charges, emergency room facilities charges, and office-based visits catego- ries. Medical laboratory services billed directly from medical and diagnostic laboratories are in the "other profes- sional services" category.	Usually included in the charges of the establishment providing the service. Part of hospital care category if provided by hospitals on an inpatient, outpatient, or emergency room basis. Part of physician and clinical services category if billed by physician's office or outpatient care center. Also in physician and clinical services category if billed directly by laboratory.
Other medical care services	Includes outpatient hospital care, emergency room services, and am- bulance services.	Included in outpatient facilities charges and emergency room facilities charges. Ambulance services part of "other medi- cal equipment and services" category.	Outpatient hospital care and emergency room services charges included in hospi- tal care category. Out-of-pocket spending for ambulance services not included.
Physicians' services	Includes all services provided and billed by physicians.	Separately billed physicians' charges collected for hospital inpatient, outpatient, and emergency room care and office visits.	Spending for physicians' services categorized by the establishment providing the service. Physician and clinical services category includes services by physicians' offices and freestanding outpatient care centers. Physicians' charges also included in hospital care, nursing home care, and home health care categories.
Other professional services	Services provided by other medical professionals except physicians, dentists, and optometrists. Includes services provided both inside and outside the home.	Services by medical professionals except physicians and dentists. In- formation collected in connection with outpatient hospital care and office visits. In-home care included in home health care category. Independ- ently billed lab tests also included in this category.	Services of professionals (other than physicians or dentists) in independent practice (NAICS 6213) included in "other professional services" category. Services of other professionals also included in hospital care, physicians and clinical services, home health care, nursing home care, and dental services categories.

Exhibit 1.	Continued—Comparison o Expenditure Panel Survey,	of the Consumer Expenditur and National Health Expen	e Survey, Medical diture Accounts
Category	Consumer Expenditure Survey	Medical Expenditure Panel Survey	National Health Expenditure Accounts
Dental services	Dental care, such as examinations, cleaning, bridges, crowns, dentures, orthodontia, root canals, and x rays.	Includes services of general dentists, dental hygienists, technicians, and surgeons; orthodontists; endodontists; and periodontists.	Dental services category includes services provided by offices of dentists (NAICS 6212). Independently practicing denturists and dental hygienists in- cluded in "other professional services" category.
Eye care services	Eye examinations, treatments, or surgery. Does not distinguish between optometrists, who perform eye examinations and basic treatments, and ophthalmologists, who perform surgery and may also prescribe eyeglasses or contact lenses.	Services of optometrists included in "other professional services." Services of ophthalmologists included in phy- sicians' charges.	See "other professional services" category for treatment of optometrists' charges and physicians' services category for treatment of ophthalmologists' charges.
Eyeglasses and contact lenses	Spending for eyeglasses and contact lenses.	Included in "other medical equip- ment and services" category.	Retail purchases of eyeglasses and con- tact lenses included in durable medical equipment category. Items obtained from other providers included in spend- ing for those providers' services.
Prescription drugs	All prescribed medicines not connected with an inpatient hospital stay. Insulin included in prescription drugs; diabetic supplies in medical equipment for general use.	Prescribed medicines obtained from retail outlets, in health maintenance organization/clinic/hospital pharmacies, by mail order, and online. Includes diabetic supplies and insulin.	Limited to items obtained from retail outlets or by mail order. Insulin syringes included in "other nondurable medical products" category.
Other nondurable medical products	Separate categories for non- prescription drugs, nonprescription vitamins, and topicals and dress- ings. Collected from Diary Survey respondents only.	No estimates for nonprescription, nondurable goods.	Retail purchases of items in the three categories included in "other nondurable medical products" category. Items obtained from other providers included in spending for those providers' services.
Repair of medical equipment	Classified as a medical service. Information obtained from Diary Survey respondents only.	All medical equipment spending included in "other medical equipment and services" category.	Included in durable medical equipment category. Services obtained from other providers included in spending for those providers' services.
Hearing aids	Purchase of hearing aids.	Included in "other medical equipment and services" category.	Included in durable medical equipment category. Services obtained from other providers included in spending for those providers' services.
Supportive or con- valescent medical equipment	One category for purchase, one category for rental. Includes items such as crutches, wheelchairs, and Ace bandages.	All medical equipment included in "other medical equipment and services" category.	Some retail purchases and rentals included in durable medical equipment category; other retail purchases and rentals included in "other nondurable medical products" category. Items obtained from other providers included in spending for those providers' services.
Medical equipment for general use	One category for purchase, one category for rental. Includes items such as ice bags, thermometers, heating pads, sun lamps, and insulin needles.	Diabetic supplies included in pre- scription drugs category; other items included in "other medical equipment and services" category.	Some retail purchases and rentals in- cluded in durable medical equipment category; other retail purchases and rentals included in "other nondurable medical products" category. Items ob- tained from other providers included in spending for those providers' services.

Category	Consumer Expenditure Survey	Medical Expenditure Panel Survey	National Health Expenditure Accounts
Nursing home care	All services provided and billed by a convalescent or nursing home.	Not included.	Services provided by freestanding nursing home facilities.
Home health care	No specific category. Some charges might be included in other categories.	Care provided by home health care agencies and independent providers. Agency data verified by provider. Nonagency data collected once a year from households.	Medical care in the home provided by non-facility-based home health care agencies. Medical equipment sales or rentals not billed through agency and nonmedical care. (For example, chore worker or custodial services and Meals on Wheels are excluded.)
Health insurance	Premiums paid for private health insurance obtained individually or through a group plan. Pre- miums paid to the Medicare Supplementary Medical Insurance (SMI) Trust Fund (Part B, C, and D coverage). Amounts paid to the Medicare Hospital Insurance (HI) Trust Fund (Part A coverage) are treated as deductions from income for Social Security.	Premiums paid for private health insurance, excluding long-term care insurance, obtained individually or through a group plan. Data available for 2001–06 only. Information on premiums paid to the Medicare SMI and HI Trust Funds is not requested.	Premiums paid for private health insurance, including long-term care insurance, obtained individually or through a group plan. Unlike the Consumer Expenditure Survey and the Medical Ependiture Panel Survey, the National Health Expenditure Accounts include the portion of property and casualty insurance premiums covering health care in private health insurance. Premiums paid to Medicare SMI and HI Trust Funds.

Exhibit 1. Continued—Comparison of the Consumer Expenditure Survey, Medical

and outpatient care centers (NAICS 6214). The category also includes medical laboratory services billed directly from medical and diagnostic laboratories (NAICS 62151).

Spending on the services of a professional whose salary is paid by a hospital, nursing home, or other health establishment is reported together with spending on the relevant establishment's services. For example, services provided by hospital interns are categorized as hospital care and the services of nursing home staff nurses are included in nursing home care. However, doctors' fees received from arrangements with hospitals are included in hospital care instead of physician and clinical services.

Dental services. CE respondents are asked to provide information about dental care expenses such as exams, cleaning, x rays, fillings, dentures, bridges, orthodontia, crowns, and root canals. The type of provider is not requested.

The MEPS dental services category includes services from any dental care provider, such as general dentists, dental hygienists, dental technicians, and orthodontists. In the NHEA, the dental services category includes services provided by offices of dentists (NAICS 6212). Services received from dentists working for other providers are included in the spending for those providers' services.

Other professional services. In the CE, other professional

services includes those provided by health professionals other than physicians, dentists, and optometrists. Among these professionals are chiropractors, acupuncturists, marriage counselors, nurse practitioners, podiatrists, physical therapists, psychologists, substance abuse professionals, and certified medical massage therapists. The "other professional services" category includes services provided both inside and outside the home. The services of optometrists are included in the eye care services category.

MEPS classifies separately billed charges from other medical professionals (that is, medical professionals other than physicians and dentists) by whether the charges were made in connection with outpatient hospital care or an office visit. Unlike the CE, MEPS includes optometrists' services and independently billed laboratory charges in the category of "other professional services."

In the NHEA, the "other professional services" category covers spending for services provided by health professionals (other than physicians and dentists) in independent practice (NAICS 6213). The services of other professionals working for other providers are included in the spending for those providers' services.²²

Eye care services. In the CE, the eye care services category covers eye examinations, treatments, and surgery. There is no distinction between optometrists, who perform eye examinations and basic treatments, and ophthalmologists, who perform surgery and also can prescribe eyeglasses and contact lenses. MEPS includes optometrists' services in "other professional services" and ophthalmologists' services among those provided by physicians.

In the NHEA, the services of independently practicing optometrists are classified into the "other professional services" category, while the services of independently practicing ophthalmologists are in the physician and clinical services category. If these eye care professionals work for other providers, their services are included in the spending for those providers' services.

Prescription drugs. The CE requests spending information on prescription drugs, but not on the type of outlet where they were obtained. MEPS requests information about prescription drugs obtained from a retail outlet, from a health maintenance organization, clinic, or hospital, by mail order, or online. This information is then verified by pharmacies identified by respondents who have authorized the release of their pharmacy records. MEPS includes diabetic supplies, such as syringes and insulin, in the prescription drugs category, even though this spending information is requested in the "other medical supplies" section of the MEPS-HC survey. MEPS data in the latter section are obtained from households, but are not verified by pharmacies. In the CE, spending on syringes and insulin needles is in the category titled "medical equipment for general use."

In the NHEA, the prescription drugs category is included under retail purchase of medical products. This expenditure class is limited to spending on items obtained from retail outlets or by mail order. The value of drugs and of other medical products such as nonprescription drugs and medical equipment provided to patients in hospitals (on an inpatient or outpatient basis), nursing homes, and other provider settings is implicit in the estimates of spending on those providers' services. Optical goods are an exception because they are subtracted from optometrists' receipts and placed in the durable medical products category.

Nonprescription drugs, nonprescription vitamins, and topicals and dressings. In the CE, spending information about nonprescription drugs, nonprescription vitamins, and topicals and dressings is collected from Diary Survey respondents only. MEPS estimates, however, do not include spending on nonprescription nondurable goods like those in the three CE categories.²³ The NHEA place retail purchases of items from all three CE categories in the nondurable medical products category.

Repair of medical equipment. In the CE, information about spending on medical equipment repair, classified separately as a medical service, is requested from Diary Survey respondents only. In MEPS, all medical equipment spending is in the "other medical equipment and services" category. In the NHEA, the repair of medical equipment is not separated from the purchase or rental of durable medical equipment.

Medical supplies. Some of the products in the CE categories classified as medical supplies, such as hearing aids, and eyeglasses and contact lenses, would be considered durable medical products by the NHEA. Other categories—for example, the purchase or rental of medical equipment for general use—contain both durable and nondurable items.

In MEPS, the "other medical equipment and services" category includes durable medical products such as eyeglasses and contact lenses, hearing aids, and medical equipment. Spending on ambulance services; spending on home alterations and modifications, including ramps, handrails, and elevators; and spending on automobile modifications also are in the "other medical equipment and services" category. In the CE, spending on ambulance services is part of the "other medical care services" category, while home alterations and modifications are considered a capital improvement, not an expense. NHEA data do not include information on these two expenditures, except for ambulance services reimbursed by Medicare. MEPS collects spending information about eyeglasses and contact lenses every 6 months, but only once a year for hearing aids, medical equipment, ambulance services, home alterations and modifications, and automobile modifications.

In classifying retail purchases of medical products, the NHEA distinguish between durable and nondurable medical products. The former, which include items such as contact lenses, eyeglasses, and other ophthalmic products; surgical and orthopedic products; medical equipment; oxygen; and hearing aids, generally have a useful life of more than 3 years. Items purchased from other providers are included in the spending on those providers' goods and services.

Nondurable products, such as prescription and nonprescription drugs, needles, and thermometers, generally have a useful life of less than 3 years.

Nursing home care. The CE requests information about all services provided and billed by a convalescent or nursing home, whereas nursing home care is out of scope in MEPS.

In the NHEA, the nursing home care category is for

services provided by freestanding nursing homes only: (1) private-sector establishments engaged primarily in providing inpatient nursing and rehabilitative services and continuous care to those requiring nursing care (NAICS 6231), and (2) continuing-care retirement communities with onsite nursing care facilities (NAICS 623311). As mentioned earlier, hospital-based nursing home care outlays are included in the hospital care category (NAICS 622).

Home health care. The CE does not request specific information about home health care outlays. In MEPS, the home health care category includes services provided by home health care agencies and paid independent providers. Agencies include hospital-based home health care agencies, as well as freestanding home health care agencies such as visiting-nurse associations. In the NHEA, the home health care category is for freestanding home health care is included in the hospital care category.

Health insurance. The CE collects information about premiums for both private health insurance and Medicare. Private insurance includes coverage obtained individually or through a group plan sponsored by an employer or other organization. Premiums for Medicare supplemental (Medigap) plans, longterm care insurance, and special-purpose plans (dental insurance, vision insurance, prescription drug insurance, and dreaddisease policies, among others) also are part of this category. The CE collects information about premiums paid to the Medicare Supplementary Medical Insurance (SMI) Trust Fund (Parts B, C, and D coverage); amounts paid to the Medicare Hospital Insurance (HI) Trust Fund for Part A coverage are treated as deductions from income that go to Social Security.

MEPS-HC respondents provide information about premiums for private health insurance, except for long-term care insurance, but this information is available only from 2001 on. Information about amounts paid to the Medicare SMI and HI Trust Funds is not requested.²⁴

In the NHEA, premiums paid by households for private health insurance are part of the private health insurance source of funds. Unlike the CE and MEPS, the NHEA include the portion of property and casualty insurance premiums that covers health care in with household spending for private insurance. In the CE, these amounts are part of the premiums paid for property and casualty coverage as a whole, while MEPS does not collect this information at all. In the NHEA, premiums that individuals pay to the Medicare SMI and HI Trust Funds are in the Federal Government source-of-funds category.²⁵

Comparison methods

The CE data used in this research are unpublished integrated data showing the most detailed (least aggregated) breakdowns available. The MEPSnet/HC query tool was used to obtain expenditure data from the MEPS-HC public-use files. The NHEA data source was the file titled "National Health Expenditures by Type of Service and Source of Funds: Calendar Years 1960–2007." Data for the years 1996–2006 were examined because MEPS-HC data were available for that period only.²⁶ Variables examined were out-of-pocket expenses for the following categories:

- Total health care
- Hospital care
- Physicians' services
- Other professional services
- Dental services
- Prescription drugs
- Medical supplies

Exhibit 1 indicates many differences in scope and methodology among the CE, MEPS, and NHEA. Although data were adjusted to make the data source components as comparable as possible, perfect alignment is not attainable for a number of reasons, to be discussed shortly. At the outset, MEPS and NHEA estimates were adjusted so that they would refer to the CE population concept. A multiplier was computed for each year covered by the research. For MEPS, the multiplier was derived by finding the ratio of the population covered by the CE to the population covered by MEPS. The same procedure was used with NHEA data.²⁷

Aggregate out-of-pocket expenses were obtained for all relevant variables for the survey years covered. CE-MEPS and CE-NHEA spending ratios were computed for all variables of interest. The discussion that follows describes these variables and any additional adjustments that were made.

Total health care expenditures. This variable is the sum of the following expenditures:

- Hospital care
- Physicians' services
- Other professional services
- Dental services
- Prescription drugs
- Medical supplies

Out-of-pocket expenses for nursing home care, other nondurable medical products (nonprescription drugs, medical sundries, and others), and Medicare premiums were excluded because they are out of scope in the MEPS-HC. Premiums for private health insurance were not included because MEPS data were available only for a portion of the period covered by the study. Home health care expenses were excluded because the CE does not specifically request such information.²⁸

Hospital care. Because the NHEA hospital care category covers all services provided by hospitals, some CE and MEPS categories were combined to make them more comparable to the NHEA hospital care category. For the CE, the categories titled "inpatient hospital care," "laboratory tests and x rays," and "other medical services" were combined to form the hospital care category. For MEPS, hospital care was set to the sum of out-of-pocket spending for inpatient, outpatient, and emergency room facilities.

The CE hospital care category was not a perfect fit with either the MEPS or the NHEA category. Because the CE category includes all laboratory tests and x rays, as well as ambulance services, it could overstate CE-MEPS ratios, given that MEPS includes separately billed laboratory tests and x rays in the "other professional services" category and ambulance charges in the "other medical equipment and services" category.

Because the NHEA hospital care category includes all services provided by hospitals, it is possible that hospitalbased prescription drug sales, home health and nursing care, and outpatient and emergency room physicians' charges will reduce CE-NHEA ratios despite the inclusion of ambulance charges and the additional charges for laboratory tests and x rays in the CE category.

Physicians' services. For the CE, the physicians' services category was used without modification. For MEPS, physicians' services comprised the combination of separately billed physicians' charges for (1) hospital inpatient, outpatient, and emergency room care and (2) office visits. Although the CE and MEPS data appeared to be fairly comparable, the choice of NHEA data was difficult because the NHEA categorize such data by the establishment providing the service. The physician and clinical services category was chosen because it was the closest match. Because the NHEA category includes items not found in the CE category (for example, separately billed laboratory charges and prescription drugs from health maintenance organization pharmacies), it was anticipated that CE-NHEA ratios would be lower than CE-MEPS ratios for comparable years.

Dental services. The dental services categories were used

without additional adjustment in all three data sources. Although the three categories were fairly similar, CE-NHEA ratios could be higher than CE-MEPS ratios for comparable years. One reason is that the NHEA category covers services rendered by independently practicing dentists only. Charges made by dentists employed by other establishments would be reflected in the charges made by those establishments. Also, services rendered by dental hygienists in independent practice would be included in the "other professional services" category, not in dental services.

Other professional services. For the CE, the eye care services category was combined with the "other professional services" category to better align the data with the category in MEPS and the NHEA. However, it is possible that the combined category contains some spending on physicians' services because some of the procedures captured in eye care services often are provided by ophthalmologists.

For MEPS, the "other professional services" category, which includes optometrists, was used. Although this category is the best fit possible, it also contains separately billed laboratory charges found elsewhere in the CE and the NHEA. Because MEPS data did not permit the removal of these charges, CE-MEPS ratios would likely be lower than ratios calculated without such charges. The amount of the reduction, however, cannot be determined from the data used in this research.

For the NHEA, the "other professional services" category was used. Because this NHEA category includes only those in independent practice, not all services of other professionals will be captured, possibly increasing CE-NHEA ratios.

Prescription drugs. The prescription drugs category was used without additional adjustment in all three data sources. For the CE and MEPS, this was a close alignment, because both surveys include prescriptions drugs received from retail outlets and by mail order, as well as from other outlets such as health maintenance organizations, clinics, and hospital pharmacies. Because the NHEA category includes only prescription drugs obtained from retail outlets and by mail order, CE-NHEA ratios are likely to be higher than CE-MEPS ratios for comparable years.

Medical supplies. For the CE, the following categories were combined to form the category of medical supplies: eyeglasses and contact lenses, hearing aids, repair of medical equipment, purchase or rental of supportive or convalescent medical equipment, and purchase or rental of

medical equipment for general use.

For MEPS, the "other medical equipment and services" category was used as the measure of medical supplies. This choice was not the best alignment, because the category also includes spending on ambulance services; home modifications, such as ramps, handrails, and elevators; and automobile modifications.

The durable medical products category was used for the NHEA because it was the closest to the CE medical supplies category. Because the NHEA category includes spending on durable items from retail outlets only, it was not an ideal fit with the CE category, which includes spending on durable and nondurable items from all outlets.

Findings

Table 1 and charts 1 and 2 summarize the information discussed in this section.

Total health care. CE-MEPS ratios for total health care spending ranged from 0.68 to 0.93. The highest ratios were for hospital care, while the lowest were for prescription drugs.

CE-NHEA ratios moved between 0.72 and 0.86 during the study period. The highest ratios were for prescription drugs, the lowest for physicians' services.

Hospital care. CE-MEPS ratios for hospital care ranged from 0.98 to 1.82, higher than what might be expected, because MEPS is able to contact hospitals to verify data provided by respondents.

Breaking down CE and MEPS data by inpatient expenditures and outpatient/emergency room expenditures provides some insights into all three findings. The CE-MEPS ratios for inpatient hospital care are the largest, ranging from 1.22 to 2.92. The inpatient hospital findings appear to reflect MEPS out-of-scope charges, which might have been picked up in the CE. Except for 1999, CE-MEPS ratios for outpatient/emergency room hospital care were less than 1.0, ranging from 0.55 to 0.95. These ratios appear to reflect the dissimilar nature of the items in the CE and MEPS categories.²⁹

CE-NHEA hospital care ratios ranged from 0.76 to 1.27. Several factors could account for these relatively high ratios. One is that the CE outpatient/emergency room hospital category includes ambulance charges that are not tracked in the NHEA. Also, some of the CE laboratory tests or x-ray charges might be charges that the NHEA would consider separately billed and included in the physician and clinical services category. Because the NHEA hospital care data did not allow for additional breakdowns, it was not possible to obtain further insights into these findings.

Physicians' services. CE-MEPS ratios for these services ranged from 0.65 to 0.83. The fact that MEPS contacts many of these providers to verify respondents' information could reduce underreporting, compared with the CE, which does not verify data through a third party.

Physicians' services had the lowest CE-NHEA ratios, ranging from 0.42 to 0.58. One reason is that separately billed laboratory charges are part of the NHEA category. Another is that, in the NHEA, the establishment providing the service determines what is included in the spending category. For example, health maintenance organizations (part of NAICS 6214, outpatient care centers) often have their own pharmacies. Although these pharmacy charges would fall under the NHEA physician and clinical services category, they would be part of the CE prescription drugs category.

Other professional services. CE-MEPS ratios for this category ranged from a low of 0.68 to a high of 1.32. Differences in items included in the CE and MEPS categories could have had an influence. For example, MEPS includes separately billed laboratory charges in the "other professional services" category, whereas these charges would be in the CE hospital care category. Also, the CE includes acupuncture and homeopathic therapy in "other professional services," but MEPS does not include services provided by these alternative caregivers in its official estimates.

CE-NHEA ratios for the "other professional services" category were higher than those for physicians' services, ranging from 0.67 to 0.84. One reason is that similar expenses are found in both categories. The less-than-complete alignment could be due to methodological differences between the two data sources and possible underreporting by CE respondents.

Dental services. CE-MEPS ratios for dental services varied from 0.76 to 0.97. Although MEPS dental charges are not verified by providers, the more detailed nature of the MEPS interview process could have resulted in less underreporting of dental expenses compared with those reported in the CE.

CE-NHEA ratios for dental services were closely aligned at the beginning of the period, but were 0.72 by the end. One reason for the relatively high ratios is that most, if not all, expenditures for dental services fall under the same classification in both the CE and the NHEA. Underreporting by CE respondents or the NHEA methodology Table 1.

Comparison of aggregate out-of-pocket health care expenditures: Consumer Expenditure Survey (CES), Medical Expenditure Panel Survey (MEPS), and National Health Expenditure Accounts (NHEA)

[Aggregate expendit	ures, in millions]							
		1996			1997		1998		
Expenditure catgory	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio
Health care, total ¹	82,949	0.93	0.86	85,814	0.86	0.83	89,366	0.86	0.80
Hospital care	12,639	1.82	1.27	12,228	1.20	1.15	12,350	1.21	1.06
Inpatient care	8,973	2.92	(2)	9,212	2.17	(2)	8,918	1.87	(2)
Outpatient/emer- gency room care	3,666	.95	(2)	3,016	.64	(2)	3,432	.63	(2)
Physicians' services.	14,821	.79	.58	14,104	.75	.52	14,772	.83	.51
Dental services	20,130	.93	1.04	21,491	.97	1.01	22,824	.92	.99
Other professional services	5,845	.96	.77	6,775	1.12	.79	6,453	1.13	.69
Prescription drugs	21,799	.77	.94	22,866	.69	.93	24,792	.68	.93
Medical supplies	7,715	.97	.75	8,351	.92	.76	8,176	.99	.69
	Ì	1999		2000			2001		
Expenditure catgory	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio
Health care, total ¹	96,362	.88	.82	100,443	.87	.80	105,290	.78	.79
Hospital care	11,087	1.29	.89	11,785	1.29	.89	12,843	1.38	.93
Inpatient care	6,693	1.42	(2)	8,430	2.17	(2)	9,694	2.76	(2)
Outpatient/emer- gency room care .	4,394	1.12	(2)	3,355	.64	(2)	3,149	.55	(2)
Physicians' services .	14,552	.81	.49	14,700	.82	.47	14,580	.71	.45
Dental services	24,199	.94	.99	24,147	.90	.90	24,346	.85	.86
Other professional	8,532	1.28	.84	7,877	1.32	.74	7,837	.91	.70
50111005			1			1	1		
Prescription drugs	28,075	.66	.95	33,376	.72	1.03	35,572	.62	1.02
Prescription drugs Medical supplies	28,075 8,919	.66 1.08	.95 .75	33,376 8,569	.72 .91	1.03 .72	35,572 8,110	.62 .82	1.02 .69

(or both) might account for the less-than-complete alignment exhibited in recent years.

Prescription drugs. CE-MEPS ratios in the prescription drugs category ranged from a low of 0.51 to a high of 0.77. Spending on prescription drugs is verified by pharmacies in the MPC component of the MEPS-HC, most likely increasing accuracy and reducing underreporting among MEPS, compared with CE, respondents.

Although underreporting is a problem in interview surveys, accurate reporting of prescription drug spending is even more difficult than it is for many other expenditures, because respondents must provide details of often numerous purchases for all household members. MEPS handles this problem by relieving the respondent of the burden of reporting detailed spending information for every drug purchase. Instead, computerized printouts or completed survey forms are obtained from respondents' pharmacies. To improve accuracy, MEPS respondents are asked about medications prescribed in connection with other medical events, such as emergency room and office visits.

MEPS research has found that, among respondents with at least one purchase of a prescribed medicine, the average annual number of purchases increased from 11.1 prescriptions per person in 1997 to 16.0 prescriptions in 2004.³⁰ If CE respondents have had similar experiences, Table 1.

Continued—Comparison of aggregate out-of-pocket health care expenditures: Consumer Expenditure Survey (CES), Medical Expenditure Panel Survey (MEPS), and National Health Expenditure Accounts (NHEA)

	2002			2003			2004		
Expenditure category	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio
Health care, total ¹	115,358	0.78	0.80	113,458	0.68	0.72	120,789	0.69	0.75
Hospital care	13,938	1.35	.92	13,004	1.10	.76	16,445	1.49	.89
Inpatient care	9,874	2.27	(2)	8,006	1.64	(2)	10,606	2.31	(2)
Outpatient/emergency room care	4,064	.68	(2)	4,998	.72	(2)	5,839	.90	(2)
Physicians' services	16,539	.70	.48	16,569	.73	.45	17,045	.68	.43
Dental services	25,477	.83	.81	26,213	.82	.77	27,977	.82	.78
Other professional services	8,628	.78	.75	8,437	.74	.67	9,120	.68	.68
Prescription drugs	41,909	.68	1.07	40,205	.51	.92	40,630	.51	.89
Medical supplies	8,897	.89	.74	9,028	.81	.70	9,570	.79	.73
See footnotes at end o	f table.								

[Aggregate expenditures, in millions]

underreporting could have increased because of a recall problem associated with an increase in the number of prescribed drugs.

Although there is no consistent pattern, CE-NHEA ratios for prescription drugs were among the highest, ranging from 0.89 to 1.07. One reason, mentioned earlier, is the fact that the NHEA prescription drug category includes spending on items obtained from retail outlets and mail-order pharmacies only, while the CE also includes items obtained from other sources, such as health maintenance organization pharmacies.

Medical supplies. CE-MEPS ratios for medical supplies ranged from 0.76 to 1.08. Because the MEPS category includes ambulance charges and remodeling and alteration expenses, whereas the CE category does not, it is difficult to determine the influence of these expenses on CE-MEPS ratios. The effect of underreporting also is hard to determine. Except for eyeglasses and contact lenses, MEPS collects information on the remaining items in the medical supplies category only once a year. MEPS respondents could be less likely to recall spending on these items, compared with CE respondents, who more frequently report spending on items in this category.

CE-NHEA ratios for medical supplies moved between 0.66 and 0.78 during the 1996–2006 period. Underreporting by CE respondents or the NHEA methodology (or both) might account for the less-than-complete alignment.

AGGREGATE OUT-OF-POCKET HEALTH CARE expenditures from the Consumer Expenditure Survey (CE), the Medical Expenditure Panel Survey (MEPS), and the National Health Expenditure Accounts (NHEA) were examined for the years 1996–2006. CE-MEPS and CE-NHEA ratios were computed for total health care spending and for selected health care spending categories. Although some alignment of the three data sets was possible, differences in methodology appear to be responsible for the lack of agreement among the estimates.

Methodological differences affect the magnitude of the CE-MEPS and CE-NHEA ratios, but they fail to explain the fact that these ratios were generally lower at the end of the period than at the beginning. Data, however, indicate that, for most categories, the greatest declines were during the 1996–2003 period. Since 2003, both ratios have been fairly constant.

CE-MEPS ratios. The CE-MEPS ratios may reflect the fact that the MEPS-MPC verifies respondent data for hospital, physician, and prescription drug spending, whereas the CE relies on respondent data only. The nature of the MEPS interview also could play a part, because respondents are asked about health conditions and associated treatments, as well as related expenses, for all household members. This format could increase respondents' recall of expenditures, compared with the CE practice of asking only about the consumer unit's total expenditures.

Table 1.

Continued—Comparison of aggregate out-of-pocket health care expenditures: Consumer Expenditure Survey (CES), Medical Expenditure Panel Survey (MEPS), and National Health Expenditure Accounts (NHEA)

[Aggregate expenditures,	in	millions]	
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		2005		2006			
Expenditure category	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	CE aggregate expenditure	CE-MEPS ratio	CE-NHEA ratio	
Health care, total ¹	132,718	0.71	0.75	134,456	0.71	0.74	
Hospital care	17,854	1.06	.91	18,235	.98	.86	
Inpatient care	11,100	1.22	(2)	11,149	1.23	(2)	
Outpatient/emergency room care	6,754	.87	(2)	7,087	.74	(2)	
Physicians' services	18,058	.65	.42	19,954	.65	.43	
Dental services	29,847	.85	.79	28,399	.76	.72	
Other professional services	10,350	.73	.73	10,452	.75	.70	
Prescription drugs	47,551	.58	.99	46,702	.61	1.01	
Medical supplies	9,054	.76	.66	10,714	.87	.78	
¹ Excludes health insurance	ce premiums, nursing h	nome care, nonprescri	iption ² Data r	not available.			

The CE is designed to collect information on household expenditures on goods and services used in day-today living. Because the survey encompasses more than just health care, it would not be feasible to query respondents in as detailed a manner for all expenses and to verify expenses with third parties, as MEPS does. For this reason, it is likely that the CE will lag MEPS in many of the health care items reported.

Clearly, a more detailed examination of CE and MEPS health care expenses is needed. Additional research using CE public-use microdata and MEPS household-component full-year public-use data files could result in better data alignment and provide further insights into how consistent the results are. *CE-NHEA ratios.* NHEA expenditures are based on secondary data sources, whereas CE information is collected directly from households. NHEA estimates are made for business, government, and consumer sources of payment, CE estimates for consumer unit payments only. When NHEA spending by source of payment is estimated, government sources of payment (Medicare, Medicaid, and so forth) are estimated, and then private expenditures (out-of-pocket payments and private health insurance expenditures) are calculated as the residual of total expenditures less government expenditures. The allocation between out-of-pocket expenses and private health insurance expenditures depends on the assumptions that are made by the NHEA. These assumptions ultimately influence CE-NHEA ratios.³¹



Notes

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¹ CE data have been regularly compared with estimates from other sources to check for consistency. Because the PCE have been a major source of independent data for comparison, PCE data are not used in this article. For more information, see "Consumer Expenditure Survey compared with Personal Consumption Expenditures," in Consumer Expenditure Survey, 2004-2005, Report 1008 (Bureau of Labor Statistics, October 2008), pp. 6-11, on the Internet at www.bls.gov/cex/ twoyear/200405/csxtwoyr.pdf (visited Feb. 22, 2010); Thesia I. Garner, George Janini, William Passero, Laura Paszkiewicz, and Mark Vendemia, "The CE and the PCE: a comparison," Monthly Labor Review, September 2006, pp. 20-46, on the Internet at www.bls.gov/ opub/mlr/2006/09/art3full.pdf (visited Feb. 22, 2010); and Clinton P. McCully, Brian C. Moyer, and Kenneth J. Stewart, "A Reconciliation between the Consumer Price Index and the Personal Consumption Expenditures Price Index" (Bureau of Economic Analysis, September 2007), on the Internet at www.bea.gov/papers/pdf/cpi_pce.pdf (visited Feb. 22, 2010).

² A consumer unit is defined as (1) all members of a particular household who are related by blood, marriage, adoption, or some other legal arrangement, such as foster children; (2) a financially independent person living alone, sharing a housing unit with others, or living as a roomer in a private home, lodging house, or permanently in a hotel or motel; or (3) two or more persons living together who pool their incomes to make joint expenditures. For more information, see *BLS Handbook of Methods* (Bureau of Labor Statistics, April 2007), chapter 16, "Consumer Expenditures and Income," on the Internet at www.bls. gov/opub/hom/pdf/homch16.pdf (visited Feb. 22, 2010).

³ MEPS also has an insurance component (MEPS-IC), which is a separate survey of employers that provides data on employer-based health insurance. For more information, see "Medical Expenditure Panel Survey: Insurance/Employer Component" (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, Oct. 17, 2008), on the Internet at www.meps.ahrq.gov/mepsweb/survey_comp/ Insurance.jsp (visited Feb. 22, 2010).

⁴ CE-NHEA data comparisons have been less extensive than CE-PCE comparisons. For more information, see "Consumer Expenditure Survey Comparisons," pp. 19-21; and E. Raphael Branch, "The Consumer Expenditure Survey: a comparative analysis," Monthly Labor Review, December 1994, pp. 47-55, on the Internet at www.bls. gov/opub/mlr/1994/12/art6full.pdf (visited Feb. 22, 2010). Research attempting to reconcile MEPS with NHEA data has examined outof-pocket expenses, insurance reimbursement, and public-program (Medicare, Medicaid, and so forth) spending on health care. (See Thomas M. Selden, Katharine R. Levit, Joel W. Cohen, Samuel H. Zuvekas, John F. Moeller, David McKusick, and Ross H. Arnett, III, "Reconciling Medical Expenditure Estimates from the MEPS and the NHA, 1996," Health Care Financing Review, fall 2001, pp. 161-78, on the Internet at www.cms.hhs.gov/HealthCareFinancingReview/ Downloads/01fallpg161.pdf (visited Feb. 22, 2010); Merrile Sing, Jessica S. Banthin, Thomas M. Selden, Cathy A. Cowan, and Sean P. Keehan, "Reconciling Medical Expenditure Estimates from the MEPS and NHEA, 2002," Health Care Financing Review, fall 2006, pp. 25-40, on the Internet at www.cms.hhs.gov/HealthCareFinancingReview/ downloads/06Fallpg25.pdf (visited Feb. 23, 2010); and Thomas M. Selden and Merrile Sing, Aligning the Medical Expenditure Panel *Survey to Aggregate U.S. Benchmarks*, Working Paper No. 08006 (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, July 2008), on the Internet at **www.gold.ahrq.gov/pdf/110pdf** (visited Feb. 23, 2010).)

⁵ Excluded are members of the active-duty military and persons residing in institutions such as nursing homes, mental hospitals, jails, prisons, and juvenile correctional facilities. For more information, see *BLS Handbook of Methods*, chapter 16.

⁶ For more information, see *BLS Handbook of Methods*, chapter 16.

⁷ For more information, see *Consumer Expenditures in 2007*, Report 1016 (Bureau of Labor Statistics, October 2008), on the Internet at www. **bls.gov/cex/csxann07.pdf** (visited Feb. 23, 2010); and *BLS Handbook of Methods*, chapter 16.

⁸ The selection of the survey source is evaluated periodically. For more information, see *BLS Handbook of Methods*, chapter 16.

⁹ MEPS is the third in a series of national medical expenditure surveys conducted by the Agency for Healthcare Research and Quality, formerly the Agency for Health Care Policy and Research. The first of these surveys, the National Medical Care Expenditure Surveys (NMCES) was conducted in 1977, the second, the National Medical Expenditure Survey (NMES), in 1987. For more information about these earlier surveys, see "Medical Expenditure Panel Survey: Survey Background" (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, Sept. 5, 2006), on the Internet at www.meps.ahrq.gov/mepsweb/about_meps/survey_back.jsp (visited Feb. 23, 2010).

¹⁰ Additional information about the uses of MEPS data may be found in "Medical Expenditure Panel Survey" (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, no date), on the Internet at **www.meps.ahrq.gov/mepsweb** (visited Feb. 23, 2010).

¹¹ For more information, see T. M. Ezzati-Rice, F. Rohde, and J. Greenblatt, Sample Design of the Medical Expenditure Survey Household Component, 1998–2007, Methodology Report No. 22 (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, March 2008), on the Internet at www.meps.ahrq.gov/mepsweb/data_files/publications/mr22/mr22.pdf (visited Feb. 23, 2010). Tables providing detailed information about MEPS-HC sample sizes from 1996 to 2006 may be found in "Medical Expenditure Panel Survey: MEPS-HC Sample Sizes " (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, May 1, 2007), on the Internet at www.meps.ahrq.gov/mepsweb/survey_comp/hc_sample_size.jsp (visited Feb. 23, 2010).

¹² For a more detailed explanation, see "Medical Expenditure Panel Survey: MEPS Online Workbook" (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, no date), on the Internet at www.meps.ahrq.gov/mepsweb/about_meps/ online_workbook.jsp (visited Feb. 23, 2010).

¹³ The MPC is not designed as an independent survey of nationwide medical expenditures. One reason is that it does not cover all types of health care providers. Another is that the MPC sample is generated from responses to the MEPS-HC and only providers for whom there is a signed respondent permission form are contacted. (For more information, see Marie N. Stagnitti, Karen Beauregard, and Amy Solis, *Design, Methods, and Field Results of the Medical Expenditure Panel Survey Medical Provider Component (MEPS-MPC)*—2006 Calendar Year Data, Methodology Report No. 23 (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, November 2008), on the Internet at www.meps.ahrq.gov/mepsweb/ data_files/publications/mr23/mr23.pdf (visited Feb. 23, 2010); and Steven R. Machlin and Amy K. Taylor, *Design, Methods, and Field Results of the 1996 MEPS Medical Provider Component*, Methodology Report No. 9 (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, May 2000), on the Internet at www.meps.ahrq.gov/mepsweb/data_files/publications/mr9/mr9.pdf (visited Feb. 23, 2010).)

¹⁴ The NHEA define the population used in their data tables as the U.S. Census resident population plus the net undercount. The resident population includes all residents (both civilian and in the Armed Forces) living in the United States. The geographic universe for the resident population is the 50 States and the District of Columbia. (For more information, see "Population Estimates: Terms & Definitions" (U.S. Census Bureau, Dec. 22, 2009), on the Internet at www.census.gov/popest/topics/terms/national.html (visited Feb. 23, 2010); and "Category Definitions: National Health Expenditures" (U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services, no date), on the Internet at www.cms.hhs.gov/ NationalHealthExpendData/downloads/quickref.pdf (visited Feb. 23, 2010).)

¹⁵ For more information, see "National Health Expenditures Accounts: Definitions, Sources, and Methods, 2008" (Centers for Medicare and Medicare Services, 2008) on the Internet at www.cms.hhs. gov/NationalHealthExpendData/downloads/dsm-08.pdf (visited Feb. 23, 2010).

- ¹⁶ Ibid.
- ¹⁷ *Ibid*.
- ¹⁸ *Ibid*.
- ¹⁹ Ibid.

²⁰ *Ibid.* Consumer outlays for private insurance and Medicare premiums are not included in this source of funds because payment is made to a third-party insurer, which the NHEA classify as a separate source of funds.

²¹ In the NHEA, services are categorized according to the framework provided by the North American Industrial Classification System (NAICS). (For more information about NAICS, see *North American Industrial Classification System* (Washington, DC, Executive Office of the President, Office of Management and Budget, 2007), on the Internet at www.census.gov/cgi-bin/sssd/naics/naicsrch?chart=2007 (visited Feb. 23, 2010).)

²² For more information, see "National Health Expenditure Accounts."

²³ At one time, MEPS collected a limited amount of information on nonprescription, nondurable goods, but the information was not included in official MEPS estimates. Questions requesting this information were omitted from the questionnaire beginning in 2002 (Panel 6, Round 3; and Panel 7, Round 1). (See Selden and others, "Reconciling Medical Expenditure Estimates"; and "Survey Questionnaires—Household Component" (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, Nov. 1, 2006), on the Internet at www.meps.ahrq.gov/ mepsweb/survey_comp/survey_questionnaires.jsp (visited Feb. 23, 2010).)

²⁴ *Ibid*.

²⁵ *Ibid.* (For more information, see "Sponsors of Health Care Costs: Business, Households and Government, 1987–2008" (U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services, Jan. 4, 2010), on the Internet at www.cms. hhs.gov/NationalHealthExpendData/downloads/bhg08.pdf (visited Feb. 23, 2010); and "2009 Annual Report of the Boards of Trustees of the Federal Hospital Insurance and the Federal Supplementary Medical Insurance Trust Fund" (Centers for Medicare and Medicaid Services, May 12, 2009), on the Internet at www.cms.hhs. gov/ReportsTrustFunds (visited Feb. 23, 2010).)

²⁶ The MEPS data used in this research were accessed on February 24, 2009. The MEPSnet/HC query tool has since been updated to include 2007 MEPS data. (For more information about the MEPSnet/HC query tool, see "Medical Expenditure Panel Survey" (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, Dec. 31, 2009), on the Internet at www.meps.ahrq.gov/mepsweb/data_stats/MEPSnetHC.jsp (visited Feb. 23, 2010).

Note that when the Centers for Medicare and Medicaid Services publish data for subsequent years, data from previous years often are revised. The NHEA data used in this article were those released with the 2007 estimates and accessed February 24, 2009. NHEA data for 2008 were released on January 5, 2010, and the earlier data were replaced with newer data titled "National Health Expenditures by Type of Service and Source of Funds: Calendar Years 1960–2008" (U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services, Jan. 4, 2010), on the Internet at www.cms.hhs.gov/NationalHealthExpendData/02_ NationalHealthAccountsHistorical.asp (visited Feb. 23, 2010).)

 $^{\rm 27}$ This was the method employed by Garner and colleagues, "The CE and the PCE," in comparing expenditures reported in those two data sources.

²⁸ MEPS data were available for 2001–06 only. In addition, MEPS-HC information about private insurance premium payments was not available from the MEPSnet/HC query tool. Also, despite adjustments, it was not possible to remove all nursing home and home health care expenses from the data, because the NHEA includes hospital-based nursing home and home health care in its hospital care category. Finally, nondurable medical products obtained from nonretail outlets, such as hospital or health maintenance organization pharmacies, also would be included in NHEA out-of-pocket expenses for those nondurable medical products obtained from nonretail outlets.

²⁹ The CE outpatient/emergency room category was formed as the combination of the laboratory tests and x-rays category and the "other medical services" category. The MEPS category includes only charges for hospital outpatient and emergency room facilities. The CE category comprises both spending on laboratory tests and x rays not rendered on an outpatient or emergency room basis and ambulance charges, neither of which is included in the MEPS category.

³⁰ MEPS data indicate that in 2006 there were 16.5 prescription purchases among those with at least 1 purchase during the year. (For more information, see Marie N. Stagnitti, "Trends in Outpatient Prescription Drug Utilization and Expenditures, 1997 and 2004," Statistical Brief no. 168 (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, April 2007), on the Internet at www.meps.ahrq.gov/mepsweb/data_files/ publications/st168/stat168.pdf (visited Feb. 23, 2010); and "Average number of Total (Including Refills) and Unique Prescriptions by Select Person Characteristics, 2006," Statistical Brief no. 245 (U.S. Department of Health and Human Services, Agency for Healthcare Research and Quality, May 2009), on the Internet at www.meps. ahrq.gov/mepsweb/data_stats/Pub_ProdResults_Details. jsp?pt=Statistical%20Brief&copt=2&cid=906 (visited Feb. 23, 2010).)

³¹ Research attempting to align MEPS data with NHEA data found that estimated out-of pocket spending was 12 percent greater in MEPS than in the NHEA. However, estimates of spending on personal health insurance, Medicare, and Medicaid were lower than those of the NHEA. (For more information, see Sing and colleagues, "Reconciling Medical Expenditure Estimates.")

Producing disease-based price indexes

Using a total-expenditure scope and adjusting for utilizations under a treatment concept for measuring health care costs slows down the rate of growth of medical prices; the downside is that most of the saving is seen in insurance benefit payments and not in out-of-pocket payments or lower insurance premiums for consumers

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here are two basic ways of measuring health care costs. The first, labeled the "goods-and-services" concept, measures the cost of each medical good and service separately. The second, called the "treatment concept," measures the cost of all the goods and services used to treat a particular disease. With an eye toward improving the accuracy of the Consumer Price Index (CPI), the National Academies' Committee on National Statistics (CNSTAT) recommends the latter approach. In pursuit of satisfying the CNSTAT recommendation, this article compares these two concepts as they apply to constructing price indexes for medical care. The article does not select which concept is best: each approach provides different information. The first measures the contribution of each medical input to total health care inflation, whereas the second indicates how each disease influences health care inflation.

Ideally, what is sought to be measured is the cost of the healing that is derived from using medical goods and services. However, the amount of healing derived from a service cannot be directly measured; instead, only what is readily observable, such as the physician office visit, the hospital stay, or the prescription drug purchase, can be measured. Accordingly, in measuring medical care inflation as part of the CPI, the BLS collects prices for goods and services such as physician visits, emergency room visits, and prescription drug purchases. The resulting measures of medical price change are published, under the goods-andservices concept, as distinct indexes for physicians' services, hospital and related services, prescription drugs, and nonprescription drugs and medical supplies.¹

As long ago as 1967, it was recognized that "the average consumer of medical care is not as interested in the price of a visit or hospital day as he is in the total cost of an episode of illness."² Several well-known economists have been interested in the "total cost of an episode of illness" (the treatment concept) because there is evidence that, over time, the mix of goods and services used to treat a particular disease has changed and less expensive treatments have become substitutes for more expensive ones. In addition, interest has arisen in the economic effects of improved healing outcomes for certain diseases.

Over the years, economists have attempted to compute price indexes for the entire treatment of an episode of disease, rather than computing separate indexes for each of the

goods and services used to treat a particular disease. Matthew D. Shapiro and David Wilcox constructed a price index for treating a cataract and found that, during the last quarter of the 20th century, there was a shift in point of service for this procedure from an inpatient hospital setting to an outpatient surgical center.³ This move away from the inpatient hospital reduced the price of treating an episode of surgery for removal of a cataract. David M. Cutler, Mark McClellan, Joseph P. Newhouse, and Dahlia Remler examined how acute myocardial infarction (one kind of heart attack) was treated and found that prices for treating the condition had actually decreased when the increased longevity resulting from new surgical procedures was taken into account.⁴ Finally, Ernst R. Berndt and colleagues argued that prices for treating depression fell with the introduction of a new generation of antidepressants-the selected serotonin reuptake inhibitors-as the improved pharmaceuticals became a cheaper alternative to expensive psychotherapy.⁵

In treating medical conditions, not only do the relative proportions of goods and services change over time, but the average intensity of use also changes. For instance, in the treatment of diabetes, the utilization of all medical goods and services has increased. The treatment concept allows changes to be incorporated into the composition and intensity of use of the goods and services utilized to treat particular diseases. But because the BLS computes medical indexes under the goods-and-services concept, it does not incorporate either the substitution of less expensive treatments for more expensive ones or the change in intensity of use of treatments into its medical price indexes.⁶

Although current national accounts measure medical consumption and output with a goods-and-services concept, the U.S. Bureau of Economic Analysis (BEA) is seeking to create an alternative, or satellite, account that would redefine the final medical good as the entire treatment of a disease under the treatment concept.⁷ Deriving a real-dollar amount for this nominal expenditure requires a price index that is categorized by disease, not medical services and products. As a result, there is a need for experimental disease-based price indexes that would properly deflate medical expenditures measured under a treatment concept.⁸ This article is a summary of BLS research into the production of these indexes.

The BLS is not the only agency that is producing indexes under the two concepts described. Having found evidence of input substitution and changes in intensity of use of treatments, Ana Aizcorbe, of the BEA, and Nicole Nestoriak have generated disease-based indexes that account for both phenomena.⁹ The Steering Committee for the Workshop to Provide Guidance for Development of a Satellite Health Care Account at the BEA published the proceedings of a meeting between academic economists and government agencies that discussed implementing a satellite account for medical expenditures by disease. Disease-based price indexes also were discussed at the meeting.¹⁰

The BLS's first experience with the production of diseasebased indexes derives from the following recommendation made by CNSTAT:

BLS should select between 15-40 diagnoses from the ICD (International Classification of Diseases), chosen randomly in proportion to their direct medical treatment expenditures and use information from retrospective claims databases to identify and quantify the inputs used in their treatment and to estimate their cost. On a monthly basis, the BLS could reprice the current set of specific items (e.g., anesthesia, surgery, and medications), keeping quantity weights temporarily fixed. Then, at appropriate intervals, perhaps every year or two, the BLS should reconstruct the medical price index by pricing the treatment episodes of the 15 to 40 diagnoses-including the effects of changed inputs on the overall cost of those treatments. The frequency with which these diagnosis adjustments should be made will depend in part on the cost to BLS of doing so. The resulting MCPI [medical consumer] price indexes should initially be published on an experimental basis. The panel also recommends that the BLS appoint a study group to consider, among other things, the possibility that the index will "jump" at the linkage points and whether a prospective smoothing technique should be used.¹¹

Rather than producing the indexes in-house, the BLS contracted with Thomson Healthcare Company to construct price indexes using insurance claims filed by self-insured companies. Medical indexes were constructed for three metropolitan areas by randomly selecting from 40 narrowly defined diseases, with a probability of selection proportional to the area's expenditure share on each disease. Each year, the inputs used to treat the selected diseases were updated and reflected in the index. The results of this study were reported in a work by Xue Song, William Marder, William Houchens, John E. Conklin, and Ralph Bradley.¹²

In the process of completing the Thomson study, BLS researchers discovered important characteristics and limitations of the data used to calculate the disease-based indexes. First, the insurance claims data did not represent those who had only public insurance or who were uninsured; this was because the data contained records for privately insured patients

alone. Second, because the claims data covered just those companies which had contracted with Thomson, the data may not have been representative of the overall privately insured population. Third, the data included unobserved additions of patients, as well as attrition; therefore, it was not possible to determine whether the change in inputs was the result of using inputs more efficiently or the result of a change in the patient mix.¹³ Fourth, several claim records did not have a diagnosis (records of this kind are known as orphan records); hence, it could not be guaranteed that all the treatments being used to treat a particular disease were included. Fifth, under the CNSTAT recommendation, it was possible to track only the price indexes of randomly selected diseases; consequently, the aggregate treatment price for a disease that was not in the sample could not be tracked.

The price indexes computed under the method recommended by CNSTAT did not differ statistically from the currently published medical CPI under the goods-and-services concept. The point estimates from the CNSTAT indexes, however, were lower than those of the BLS indexes.

Because of the limitations of the Thomson study, it was decided to recalculate disease-based price indexes with a data source that is more representative and has less attrition than an insurance claims database. Thus, instead of randomly selecting 40 narrowly defined disease categories, a price index was computed for every major disease so that it could readily be understood how each disease source contributed to the overall medical inflation rate. The final set of indexes computed complies with the CNSTAT recommendations and is representative of what the Nation is paying for treating each disease.

In what follows, the methods of computing medical price indexes under the goods-and-services concept and under the treatment concept are described and compared. Then, the data and the methods used to construct the disease-based indexes are presented. Finally, the resulting indexes are analyzed, and the article closes with an explication of how the disease-based indexes differ from indexes based on the goods-and-services concept.

No quality adjustment issues are addressed, because many improvements in medical care cannot be immediately observed—if they can be observed at all. The CPI is a real-time index; consequently, the BLS must generate and publish indexes for price movements roughly 2 to 3 weeks after the end of each month. This schedule does not allow enough time to observe the quality changes associated with, for example, the increased longevity resulting from heart bypass surgery, which could be measured only years after the surgery has been performed. When the BLS collects a price quote for heart surgery, it cannot adjust for this increased longevity because it will not occur until long after the quote has been collected and the index published.

The CPI: the goods-and-services concept

The BLS currently publishes medical price indexes under the goods-and-services concept. The prices used in the generation of these indexes are collected from medical goods and services outlets (such as physicians' offices) and hospitals. Indexes are calculated by the type of provider, expressed as a service (that is, physicians' services, hospital and related services, and so forth) or good.

Sampling for prices is done at the outlet level. Outlets of a particular medical good or service are selected with a probability proportional to their share of total spending. The BLS identifies the responses of medical outlets through a household survey. For example, suppose that there are three physicians' offices, labeled A, B, and C, in a certain geographical area. Suppose also that office A accounts for 50 percent of the area's expenditures on physicians; then it will have a 50-percent chance of getting selected in a sample draw.

Once the outlet is selected, a particular good or service must be selected inside the outlet. Taking the example of physicians' offices again, suppose that office B offers three services. Then, if each of the services accounts for a third of the office's revenue, each service will have a one-third chance of being sampled.

The published CPI has four major medical indexes: prescription drugs, nonprescription drugs and medical supplies, professional services (physician, dental, and so forth), and hospital and related services (inpatient, outpatient, and emergency room). A fifth, minor, index, health insurance, essentially prices the part of the premium that does not finance the insurance benefit.

Implicit quantity weights are derived when the sample is initiated, and they stay fixed throughout the entire sample period. Many claim that this method produces an upward bias because the savings from substituting less expensive or more efficient inputs are not incorporated into the index. But it also could be a source of downward bias because the method does not adjust for increases in utilization.

Disease-based indexes: the treatment concept

Under the treatment concept, disease-based indexes are computed for each disease, following the guidelines of the CNSTAT recommendation. The disease categories used are set forth in the chapters of the ICD-9 manual and are as follows:

- Infectious diseases
- Neoplasms
- Endocrine, nutritional, and related diseases
- Diseases of the blood
- Mental disorders
- Diseases of the nervous system
- Diseases of the circulatory system
- Diseases of the respiratory system
- Diseases of the digestive system
- Diseases of the genitourinary system
- Complications of pregnancy
- Diseases of the skin
- Diseases of the musculoskeletal system
- Congenital anomalies
- Certain conditions in the prenatal period
- Injury and poisoning
- Other conditions

To compute disease-based indexes, data are needed on the amounts of goods and services used to treat each disease for each year.¹⁴ For example, one needs to know how many emergency room visits took place in 2003 to treat diseases of the skin. The data source for this important information is the Medical Expenditures Panel Survey (MEPS), a survey administered by the U.S. Agency for Healthcare Research and Quality. This panel survey queries households about the diseases they contract and their expenditures and utilizations for the goods and services used to treat those diseases.¹⁵

Because monthly indexes had to be computed, but MEPS data had only yearly prices, a monthly update was imputed by increasing the yearly price by the growth in the monthly price index counterpart in the CPI. For physicians' services, the yearly price was increased by the growth in the monthly CPI index for that expenditure category. For outpatient and inpatient services, the monthly price was increased by the CPI index for hospital services; for pharmaceuticals, the yearly price was increased by the CPI for pharmaceutical goods.

The year-opening quantities of each type of good and service used to treat any disease were updated to account for substitutions of products or services and changes in their intensity of utilization. Thus, if there was a substitution away from expensive inpatient hospitals to inexpensive prescription medicines, then the index would be lower than it would have been if that substitution had not been incorporated.

A simple example will serve to explain how diseasebased indexes are generated, both for this article and in general. Suppose that there are two diseases, A and B, and two services, 1 and 2, used to treat these diseases. Suppose also that in 2002 the price of service 1 is \$1,000 per visit and the price of service 2 is \$100 per visit. To treat disease A in 2002 requires 2 visits of service 1 and 2 visits of service 2. (These figures represent the utilization of the two services.) To treat disease B in 2002 requires 1 visit of service 1 and 1 visit of service 2. Now, suppose further that there is a substitution away from the higher priced service 1 to the lower priced service 2 in 2003, so that the treatment of disease A now requires 1 visit of service 1 and 4 visits of service 2. Suppose also that it has become more difficult to treat disease B in 2003, so that utilizations have doubled for both services and it now requires 2 visits each of service 1 and service 2 to treat disease B. Finally, suppose that the price for both services increases by 10 percent from 2002 to 2003. Then, under the services approach, the price index for medical care would increase by 10 percent. Under the disease approach, there would be a 30-percent *drop* in the price index for treating disease A, because the index would account for the substitution from the high-priced to the low-priced service. By contrast, the price index for treating disease B would *increase* by 120 percent, because the utilization of each service has doubled and the price for each service has increased by 10 percent. Applying the broad outlines of this example to utilizations in the MEPS database reveals that there are some diseases like disease A, such as mental disorders, for which there has been a substitution from higher priced services, such as visits to a therapist, to lower priced pharmaceuticals, and some diseases like disease B, such as endocrine disease, for which the utilization of all goods and services has increased over time.

In constructing disease-based indexes, the problem of *comorbidities*—instances in which the patient has more than one condition or disease and the doctor is treating more than one disease in a single office visit—needs to be addressed. As table 1 shows, comorbidities for physician visits are increasing over time. What is the best approach to measure utilizations in situations with comorbidities? In what follows, two sets of indexes are generated that treat comorbidities differently. Under the first method, if a patient uses a service to treat more than one disease, then the use of that service is recorded for each disease treated. In the second method, the use of the service is prorated to each disease, so that if a patient had three diseases treated in one physician visit, only one-third of

Table 1.Indicators of comorbidity, 1996–2004										
	Physician office visits									
Year	Mean number of diseases per visit	Number of visits for one disease	Number of visits for two diseases	Number of visits for three diseases						
1996	1.532	914,097,000	88,510,626	23,576,756						
1997	1.802	857,015,927	105,222,051	27,585,681						
1998	1.780	877,451,281	110,900,249	30,690,505						
1999	1.800	845,212,132	116,441,032	27,143,362						
2000	1.939	847,517,668	103,487,437	31,378,739						
2001	1.900	936,244,257	110,942,893	36,068,550						
2002	2.085	1,006,756,597	131,275,941	39,673,678						
2003	2.216	1,012,850,592	143,401,176	40,693,481						
2004	2.033	1,026,306,773	156,835,092	40,904,072						

a visit is recorded for each of the diseases treated. Both methods have their shortcomings. The first method will overcount utilizations if the patient would have used less of the service if he or she were treated for just one of the diseases alone. In the second method, the increase in comorbidities by itself will increase the productivity of medical services solely because the patient is sicker and the service is treating more diseases per visit. This result might not be desirable.

Another price index problem is that a substantial fraction of providers are not paid for their services and the cost of these uncompensated services must be defrayed from other sources. Current CPI methods do not account for this situation, because the price that the BLS collects is for services that get full reimbursement. However, when a patient pays nothing, the BLS does not collect any price data. The MEPS database, by contrast, does account for nonpayment. Average prices computed by sampling only those who do ultimately pay puts an upward bias on the average price that all patients pay. Tables 2 and 3 and the following tabulation of the relationship between growth in the incidence of unpaid emergency room visits and the difference of price growth for all emergency room visits and for reimbursed visits illustrate the problem:

	Yearly growth in incidence	Difference of price growth
	of unpaid emergency	for all visits and price growth
Year	room visits (percent)	for reimbursed visits
1999	5.61	0.46
2000	15.64	1.32
2001	5.62	.61
2002	-29.64	-3.10
2003	17.28	1.28
2004	10.39	1.08

Six percent to nine percent of emergency room visits go unreimbursed. In years when there was an increase in the incidence of unreimbursed visits, the average price for reimbursed visits rose more rapidly than that for all visits. It is plausible to assume that part of this price increase for reimbursed visits financed the increases in delinquencies (unpaid visits). Likewise, in 2002 there was a dramatic drop in the unreimbursed share, and only in that year did the average price for all emergency room visits grow more rapidly than that for just the reimbursed visits. Over the 1998–2004 period, the reimbursed price

grew more rapidly than the all-visits price while, at the same time, the incidence of unpaid visits also increased. However, the all-visits price is reflective of all consumers, not just those who pay. The BLS prices reimbursed visits only and does not account for those patients who, for example, have been able to receive emergency room care for which no reimbursement was made on their behalf.

Finally, the notion of *expenditure* scope is important in the construction of price indexes. In the medical sector, there are several alternative scopes. At the Bureau of Economic Analysis, the scope for personal consumption expenditures is all expenditures, regardless of how they are financed. Their corresponding price deflators are then also based on total expenditures. In addition, there is an out-of-pocket scope covering only expenditures that are financed directly from consumers' disposable income. Medicare, Medicaid, and private insurance reimbursements are included in measured medical expenditures under the total-expenditure scope, but are not included in that expenditure category under the out-of-pocket scope. Different expenditures scopes generate different prices. For the total-expenditure scope, the price is the total price, regardless of the source of financing, whereas for the out-of-pocket scope, the price is merely the out-of-pocket price that the consumer pays directly. The BLS scope is a hybrid between the total-expenditure scope and the outof-pocket scope: all out-of-pocket payments are included, and the portion of both public and private insurance reimbursement that is attributed to the consumer's out-ofpocket payments for premiums also is included. So, too, are all employee contributions to employer-sponsored plans, as well as the individual's payment of the Parts B and D Medicare insurance premium. In what follows, indexes are generated for the total-expenditure scope, the out-of-pocket scope, and the BLS scope.

Table 2.	Incidence of unreimbursed em visits, 1998–2004	ergency room
	Year and status of patient	Percent of visits unreimbursed
	1998	
All		7.14
Privately i	nsured	4.34
Publicly in	sured	6.87
Uninsured	l	24.32
	1999	
All		7.54
Privately i	nsured	4.13
Publicly in	sured	8.17
Uninsured	l	28.33
	2000	
All		8.72
Privately i	nsured	5.75
Publicly in	sured	7.38
Uninsured	l	31.12
	2001	
All		9.21
Privately i	nsured	6.67
Publicly in	sured	8.15
Uninsured	l	27.74
	2002	
All		6.48
Privately i	nsured	4.01
Publicly in	sured	5.67
Uninsured	I	26.16
	2003	
All		7.60
Privately i	nsured	5.04
Publicly in	sured	6.15
Uninsured	l	27.34
	2004	
All		8.39
Privately i	nsured	5.73
Publicly in	sured	5.98
Uninsured	I	33.34

Results

Table 4 lists the number of diagnoses for each major disease category for the United States. The endocrine and nutritional disease category, which includes all diabetes diagnoses and confirms the rapid growth in type II diabetes in the Nation, grew the most rapidly between 1998 and 2004, increasing nearly 61 percent. The challenge here is that diabetes leads to additional comorbidities and is in part the reason for the growth in comorbidities depicted in table 1. Growth in the number of visits for one disease increased 12.3 percent between 1998 and 2004, while the growth rates in the number of visits for two and three diseases increased 77.2 percent and 73.5 percent, respectively. The increase in diabetes is perhaps also part of the reason for the 33.2-percent increase in the incidence of circulatory system diseases between 1998 and 2004, given that diabetes and circulatory problems are com-

Table 3.Average prices for emergency room visits, 1998–2004						
Year and type of visit	Price per visit	Standard error	Yearly price growth			
1998						
All visits	\$381.38	6.4				
Reimbursed visits	410.69	6.5				
1999						
All visits	399.60	9.1	4.78			
Reimbursed visits	432.21	9.4	5.24			
2000						
All visits	410.21	8.2	2.65			
Reimbursed visits	449.39	8.5	3.97			
2001						
All visits	463.82	9.1	13.07			
Reimbursed visits	510.85	9.5	13.68			
2002						
All visits	493.93	9.1	6.49			
Reimbursed visits	528.16	9.4	3.39			
2003						
All visits	524.84	8.2	6.26			
Reimbursed visits	567.98	8.4	7.54			
2004						
All visits	646.73	14.7	23.22			
Reimbursed visits	705.99	15.3	24.30			
2002 All visits Reimbursed visits 2003 All visits Reimbursed visits 2004 All visits Reimbursed visits Reimbursed visits Reimbursed visits	493.93 528.16 524.84 567.98 646.73 705.99	9.1 9.4 8.2 8.4 14.7 15.3	6.49 3.39 6.26 7.54 23.22 24.30			

mon comorbidities.

The following tabulation lists the aggregate medical indexes based on the different methods outlined in this article for the period from 1999 to 2004 (because of rounding, differences of columns may not exactly equal the resulting number shown):

Scope	(1) Goods and services	(2) Treatment with updated utilization	(3) Adjusted for comor- bidities	(2) - (1)	(3) – (2)
Total expenditures	1.3585	1.3342	1.3091	-0.0243	-0.0251
only BLS scope	1.2831 1.3032	1.3163 1.3055	1.3057 1.2881	.0332 .0024	0106 0175

Column 1 lists the results obtained from the treatment concept, in which utilizations are updated annually. Column 2 lists the results for indexes computed by the goods-and-services concept, for which there is no utilization update. Column 3 lists the indexes computed under the treatment concept by prorating comorbidities such that if a service treated more than one disease, the utilization of that service would be prorated across the diseases treated. Under the total-expenditure scope, accounting for utilization changes results in a 2.43-percent drop in the cumulative index, compared with computing no utilization adjustment. When utilizations are prorated for comorbidities, there is a further 2.51-percent

Table 4.

Number of diagnoses for major categories of disease, 1998–2004

[In millions]							
Disease	1998	1999	2000	2001	2002	2003	2004
Infectious diseases	25.1 17.2 47.1 3.1 40.7 85.5 65.7 175.6 79.1 34.7 13.7 27.4 75.9 2.3 .4 64.3	23.8 16.9 50.2 3.3 38.2 79.1 65.1 172.7 82.1 35.3 14.6 25.8 75.8 1.6 .5 60.1	24.5 17.2 55.0 3.9 39.8 76.9 68.8 168.9 82.7 38.0 16.9 28.2 76.4 1.6 .8 60.8	26.2 18.9 60.8 4.2 45.7 81.7 72.4 183.2 83.4 40.8 18.4 31.4 86.3 1.7 .8 64.7	26.1 20.7 64.7 4.2 54.5 82.6 80.0 179.1 90.4 41.3 18.0 31.6 96.6 1.7 .9 66.1	26.0 20.6 67.7 4.1 56.0 86.6 83.6 184.4 93.8 41.8 19.0 30.9 99.6 1.8 1.1 68.0	23.9 20.1 75.6 4.2 59.7 88.2 87.5 177.4 92.2 41.3 18.8 29.2 102.6 1.9 .9 68.5
Other conditions	64.2	66.6	71.3	79.2	81.7	83.4	83.7

drop in the cumulative index, reflecting the effect of growing comorbidities on the productivity of medical services. Both differences are statistically significant.

When an out-of-pocket scope is used, the results differ. Here, utilization adjustment actually *increases* the index by a statistically significant 3.32 percent. There are two major reasons for this difference. First, most of the savings that occur are the result of shifting from inpatient hospital services to outpatient services. The share of total medical expenditures that finance inpatient services is much higher than the out-of-pocket counterpart. Therefore, the savings from the inpatient-to-outpatient shift are higher for the total-expenditure approach. Adjusting for comorbidity then yields a drop in the index; for example, under the BLS scope, the drop is a statistically significant 1.75 percent.

Table 5 lists the ratio of out-of-pocket payments to total payments for various services from 1998 to 2004. In 2004, out-of-pocket payments were 1.8 percent for inpatient facilities and 6.7 percent of total payments for outpatient facilities. Suppose that there was a shift in 2004 from inpatient to outpatient facilities that resulted in a 50-percent saving for total expenditures. Then, given the preceding ratios, consumer out-of-pocket payments would still have risen 86 percent, because their rate of insurance reimbursement on outpatient services was less than their rate of reimbursements on inpatient services. A second reason that the utilization-adjusted out-of-pocket index is higher than the unadjusted indexes is that the utilization intensity of pharmaceutical products has increased, disproportionately affecting out-of-pocket payments.

Because the BLS scope is a hybrid of the total-expenditure and out-of-pocket scopes, the results are mixed. There is no statistically significant difference in the indexes between adjusting and not adjusting for utilization. Note, however, that table 5 covers only the 1998–2004 period, and another period might produce differences that are statistically significant. Accounting for comorbidities does create a significant 1.75-percent drop in the index.

The savings from the substitution toward less expensive inputs have been concentrated in several disease categories that have relatively large expenditure shares—such as neoplasms, mental disorders, and pregnancies—for which inpatient utilization has dropped dramatically.

THE BLS RESPONSE TO CNSTAT'S RECOMMENDATION that the BLS construct disease-based consumer medical price indexes has produced mixed results. With the total-expenditure scope, adjusting for utilizations under the treatment concept results in a drop in the rate of medical price growth for the 1999–2004 period. But this drop does not extend to all diseases and all scopes. Most of the savings accrues to insurance benefit payments; the consumer sees no drop in either out-of-pocket payments or lower insurance premiums. Thus, using an out-of-pocket scope actually results in an *increase* in the index when utilization changes are taken into account. During the 1999–2004 period, had the BLS kept its expenditure scope and shifted

Table 5.	Table 5. Ratio of out-of-pocket payments to total payments, selected services, 1998–2004								
[In percent]									
Year	Total expenditures	Emergency room facilities	Emergency room physicians	Outpatient facilities	Outpatient physician	Inpatient facilities	Inpatient physician	Office based visits	Prescriptions
1998	19.3	15.7	13.0	8.1	6.4	2.7	4.4	18.2	48.0
1999	19.2	14.7	10.4	5.1	6.2	2.6	3.7	18.0	46.2
2000	19.4	11.7	14.6	8.1	5.5	2.0	3.5	16.8	46.1
2001	19.7	11.6	13.6	6.8	7.0	1.8	5.6	15.2	44.0
2002	19.1	11.0	13.1	5.9	8.1	2.0	5.1	16.0	42.3
2003	19.6	12.5	11.0	5.9	7.6	1.9	3.7	15.2	44.9
2004	19.0	11.5	13.1	6.7	7.6	1.8	5.1	14.1	42.2

from pricing services directly to pricing diseases, there would have been little change to the medical CPI.

Unlike the study by Song and colleagues, most of the results presented here are statistically significant. Significance was achieved by computing indexes for broad disease categories, rather than randomly selecting 40 disease categories from a narrowly defined classification system. This approach resulted in more degrees of freedom and reduced the variance of the parameter estimates. One might argue that there is little homogeneity within these broadly defined groups and that, consequently, overall disease severity could vary widely. The proper reply to this critique is that, although it is true that there is much within-group variance in the broad categories used in this article, it is evident that narrowing the categories will not substantially reduce that variance.

The results presented here are likely more representative of U.S. consumers than are the results obtained in Song and colleagues' study, because the sample used herein is representative of the entire U.S. civilian noninstitutional population. By contrast, Song and colleagues used a private claims database that perhaps is not representative of the privately insured population, and the scope of the study was limited to three metropolitan areas.

Even if more narrowly defined disease categories were used here, the within-category variance would still be large. Bradley computed summary statistics for utilizations within a more narrowly defined clinical classification system than the one used in this study.¹⁶ Even under that system, the standard deviations were large relative to their means. For example, the number of hospital nights used to treat an episode of acute myocardial infarction ranged from 0 to 325. The diagnosis can give only limited information about the overall severity of the disease and therefore only limited information about the resources used to treat the disease. Other factors, such as age and stage of the disease, play key roles. Perhaps the use of reporting reforms recommended in the next paragraph would reduce some of the variance.

As is true of any medical care statistic, the accuracy of the disease-based index depends on the accuracy of the records kept by the medical system. If physicians do not diagnose patients accurately or do not report their diagnoses accurately, then the resulting indexes will contain measurement error. Oftentimes, the physician cannot immediately diagnose an ailment, and the recordkeeping system must allow for this possibility. If a physician makes a misdiagnosis, there needs to be a process by which both the misdiagnosis and the corrected diagnosis can be reported. If misdiagnoses are not reported, then it is not possible to estimate the true quantity of services used to treat a disease.

Another area of reform centers around the documentation of treatments. Usually, it is the responsibility of the primary physician to organize and record all treatments, including the use of any additional physician specialties. However, when physicians submit their claims to insurers, they often do not give the insurer this information, so the insurer must use a "grouper" to try to determine which treatments the physician actually used when he or she treated a particular disease. Bradley found that the groupers utilized by insurers generally fail to link all the goods and services that are used to treat a particular disease.¹⁷ Frequently, there are treatments that cannot be assigned a diagnosis, and this generates what is called an "orphan" record. Consequently, for many diagnoses, utilizations are underreported. For instance, if an expenditure for Glucophage does not have a diagnosis linked to it, then there is a diagnosis (most likely, diabetes) for which the total amount of money spent on Glucophage by prescription will be underreported. This situation can introduce a systematic downward bias in disease-based indexes. At other times, there are diagnoses that do not have links to all the treatments used to treat the disease in question. Both the MEPS database and claims data have records of acute myocardial infarction diagnoses that have no physician office visit assigned to them,¹⁸ yet, in order to establish the diagnosis, there had to be at least one such visit.

Finally, improved outcomes have not been factored into these indexes. Whether or not the BLS publishes diseasebased indexes, accounting for improvements in outcomes will continue to be a deficiency. At this point in time, it is difficult to estimate a reliable value that a consumer places on an outcome. Using an approach such as that of Cutler and colleagues,¹⁹ in which a dollar value is placed on an additional "quality-adjusted life year," is likely too controversial to incorporate into a monthly published index.

The findings presented in this study show that there

have been both productivity gains and substitutions toward less expensive services that have reduced the total price of health care. However, it is also evident that these price reductions have not "trickled down" to patient outof-pocket payments. Nor have they led to any significant reduction in premiums. In another study, Bradley constructed a cost-of-living index that directly prices health insurance and that accounts for increases in productivity.²⁰ However, the main conclusion drawn by Bradley was no different from that presented in this article: although these savings from substituting toward less expensive inputs generated savings in insurance benefit payments, they did not induce reductions in premiums.

Notes

¹ A full description of how the CPI measures medical care price movement can be found in "Consumer Price Index: Measuring Price Change for Medical Care in the CPI" (Bureau of Labor Statistics, Feb. 23, 2010), on the Internet at **www.bls.gov/cpi/cpifact4.htm** (visited Feb. 28, 2010).

² A Report to the President on Medical Prices (U.S. Department of Health, Education, and Welfare, 1967), p. 13.

³ Matthew D. Shapiro and David Wilcox, "Mismeasurement in the Consumer Price Index: An Evaluation," *NBER Macroeconomics Annual*, December 1996, pp. 93–142.

⁴ David M. Cutler, Mark McClellan, Joseph P. Newhouse, and Dahlia Remler, "Are Medical Prices Declining? Evidence from Heart Attack Treatments," *Quarterly Journal of Economics*, November 1998, pp. 991–1024.

⁵ See Ernst R. Berndt, Iain M. Cockburn, Zvi Griliches, Theodore E. Keeler, and Martin Neil Baily, "Pharmaceutical Innovations and Market Dynamics: Tracking Effects on Price Indexes on Anti-Depressant Drugs," *Brookings Papers on Economic Activity, Microeconomics* (Washington, DC, Brookings Institution, 1996), pp. 133–99; and Ernst R. Berndt, Anupa Bir, Susan H. Busch, Richard G. Frank, and Sharon-Lise T. Normand, "The Medical Treatment of Depression, 1991–1996: Productive Inefficiency, Expected Outcome Variations, and Price Indexes," *Journal of Health Economics*, May 2002, pp. 373–96.

⁶ An exception is the substitution of less expensive generic drugs for brand-name drugs.

⁷ See Ana M. Aizcorbe, Bonnie A. Retus, and Shelly Smith, "BEA Briefing: Toward a Health Care Satellite Account," *Survey of Current Business*, May 2008, pp. 24–30.

⁸ The Federal Medicare Part A program sets its schedule of reimbursement by diagnosis-related groups, which some private insurers use. However, reimbursement is for a particular medical service that treats a particular disease, not for all the treatments for a given diagnosis-related group.

⁹See Ana Aizcorbe and Nicole Nestoriak, "The Importance of Pricing the Bundle of Treatments," BEA working Paper no. 2008-04 (Bureau of Economic Analysis, July 2008), on the Internet at **www.bea. gov/papers/pdf/wp2008-04_bundle_treatments_paper.pdf** (visited Mar. 4, 2010).

¹⁰ See Christopher J. Mackie and the National Research Council,

Strategies for a BEA Satellite Health Care Account: Summary of a Workshop/Committee on National Statistics, Division of Behavioral and Social Sciences and Education, Christopher Mackie, Rapporteur (Washington, DC, National Academies Press, 2009).

¹¹ See Charles Schultze and Christopher Mackie, eds., *At What Price? Conceptualizing and Measuring Cost-of-Living and Price Indexes* (Washington, DC, National Academies, 2002). "ICD-9" is an abbreviation used in the medical field that stands for "International Classification of Diseases, ninth revision." The ICD-9 provides a standard classification of diseases for the purpose of maintaining health records. The World Health Organization assigns, publishes, and uses the ICD-9 to classify diseases and to track mortality rates on the basis of death certificates and other vital health records. Medical conditions and diseases are translated into a single format by means of ICD-9 codes.

¹² Xue Song, William Marder, William Houchens, John E. Conklin, and Ralph Bradley, "Can a Disease Based Price Index Improve the Estimation of the Medical CPI?" in *Price Index Concepts and Measurement* (NBER, 2008), pp. 329–72.

¹³ As a rule, patients move in and out of databases. Thus, when an increase in, for example, the number of patient visits used to treat diabetics is observed in a database, it is unclear whether the change was due to a less effective use of physicians' services or an increase in the number of relatively less healthy patients.

¹⁴ In the medical field, the quantity (amount) of a service or good used to treat a disease is oftentimes referred to as utilization. In this article, the quantity of a service (that is, the number of hospital visits) is synonymous with the utilization of that service.

¹⁵ Additional information on the MEPS may be found on the Internet at **www.meps.ahrq.gov/mepsweb** (visited Feb. 28, 2010).

¹⁶ Ralph Bradley, "Issues in Computing Disease Based Price Indexes," unpublished BLS manuscript, 2006.

- ¹⁷ *Ibid.*
- ¹⁸ Ibid.

¹⁹ Cutler, McClellan, Newhouse, and Remler, "Are Medical Prices Declining?"

²⁰ Ralph Bradley, "The Effects of Health Insurance Prices on the Cost of Living Index: The Shadow Price of Worry," unpublished BLS manuscript, 2008.

New expenditure data in the PSID: comparisons with the CE

New data in the Panel Study of Income Dynamics (PSID) align closely with corresponding measures from the Consumer Expenditure Survey (CE), for each broad category in the former; imputed total PSID expenditures are very close to total CE expenditures, and cross-sectional life-cycle estimates of household expenditures are similar across the two surveys, both for total expenditures and for the distinct categories

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onsumption is a fundamental concept in economics, figuring prominently in the theoretical literature of both microeconomics and macroeconomics. However, data on consumption expenditures at the household level have been quite limited. The Consumer Expenditure Survey (CE), the modern version of which began regular data collection in 1980, is the most widely used data set for studying consumption in the United States.

Another national survey that has collected data on some consumption expenditures over a long period is the Panel Study of Income Dynamics (PSID).¹ Historically, this survey collected information only on food and housing expenditures. Beginning in 1999, however, the PSID added questions about other expenditures, including spending on transportation, health care, education, utilities, and childcare. With this expanded set of questions on consumption expenditures, the PSID covered more than 70 percent of the total outlays measured in the CE.

Several features of the PSID's design make the survey a unique resource for studying consumption expenditure issues that cannot be addressed with the cross-sectional CE data. Among these features are the PSID's longitudinal design, the inclusion of consumption expenditure data on the parents and siblings of respondents, and many additional variables, including detailed information on health status, wealth, pensions, income, employment, and family structure.

This article describes the expanded expenditure data collected in the PSID, outlines the questions that have been included in each wave, and examines item nonresponse. Because most empirical studies of consumption expenditures have used CE data, and because the CE remains the gold-standard source for information on consumption expenditures in any given period, benchmarking exercises are conducted to establish the quality of the PSID expenditure data compared with the corresponding CE data. Specifically, estimates of total expenditures based on the PSID are compared with those based on the CE, as are cross-sectional estimates of lifecycle expenditure patterns derived from the two surveys. Overall, the comparisons show that the PSID expenditure data compare favorably with the CE data.

The data sets

The Panel Study of Income Dynamics. The PSID began in 1968 with a sample of roughly 5,000 families, including a low-income oversample. The PSID has a unique genealogical design. All 1968 family members living in households are followed in future waves. When children left their parents' homes or when couples who were married in 1968 separated or divorced, both individuals were followed and continue to be interviewed today. In addition, children born to sample members after 1968 are followed. Thus, since 1968, interviews have been completed with numerous members of the same extended families, including siblings, parents and adult children, and, in some cases, grandparents and grandchildren.

The sample grew to nearly 10,000 households by 1997. Then, budget constraints resulted in about two-thirds of the low-income oversample being dropped, reducing the sample to about 6,500 families. Because sample members are followed when they leave the PSID family and form a new one, 7,822 families completed interviews in 2003. Consistently high core response rates of 95 percent to 98 percent, together with the fact that the sample is replenished through births and marriages, enable the PSID, when weighted appropriately, to remain representative of the U.S. population.²

Families were interviewed annually from 1968 to 1997 and every other year since 1997. The interviews, which averaged 72 minutes in 2003, are completed by telephone for 97 percent of the families and face to face for the other 3 percent. Expenditures are reported for the family as a whole, with a PSID family defined as a group of people living together. Family members are generally related by blood, marriage, or adoption, but unrelated persons can be part of a PSID family if they permanently reside together and share both income and expenses.

Exhibit 1 reports the spending questions from the 2003 wave, along with an indication of whether the same or a similar question was asked in earlier waves. As mentioned, the PSID included a few expenditure questions from the start. Spending on food eaten at home has been collected in all but three waves, spending on food away from home in all but four waves. Housing-related expenditures have been included in many waves, with data on mortgage payments collected in all but 6 years since 1968. Rental payments for housing and property taxes have been included in most waves. Utility payments were collected from 1981 to 1983, dropped for 15 years, and added back in 1999. Childcare spending was asked in each wave since 1988 and in several earlier years.

In 1999, the expenditure questions were expanded. Four questions on out-of-pocket spending for health care were added: hospital and nursing home care, doctor's visits, prescription drugs, and insurance premiums.³ Assessments of educational expenses include payments for tuition, books, supplies, and room and board. Transportation-related expenses (for up to three owned or leased vehicles) include outlays on vehicles, vehicle loan and lease payments, downpayments on vehicles, vehicle insurance payments, gasoline, repairs and maintenance, parking, bus fares, and taxicabs.

The period over which PSID expenditures are reported-weekly, monthly, or yearly-varies across spending categories. Even when a preferred period is specified in the questionnaire, respondents usually are allowed to report spending over alternative periods if doing so facilitates recall. Table 1 summarizes item nonresponse rates and the period of reported spending for the 1999, 2001, and 2003 waves. For food at home, respondents are asked to report the amount they currently spend in an average week, but they are allowed to report annual or monthly amounts. Because the question mentions "average week" in each of the 1999, 2001, and 2003 waves, 89 percent of respondents report a weekly amount. Questions about spending on food delivered and food away from home are asked right after the question about food at home, but the question does not specify that they be reported for an average week. As a result, 48 percent and 68 percent, respectively, of respondents report these expenditures as weekly amounts.

Education and child care spending are reported on an annual basis for the previous calendar year (that is, in the 2001 interview, respondents report spending for calendar year 2000), whereas health care spending is reported for the previous 2 calendar years combined. Most housing and transportation expenses refer to current spending and typically are reported for an average month. Respondents are asked to report annual spending for home and vehicle insurance and for property taxes because these payments are not typically made on a monthly basis.

Item nonresponse is low in the PSID. (See column 1 of table 1). In most spending categories, less than 2 percent of families failed to report a valid response. Nonresponse was highest for housing insurance and health insurance payments, at 8 percent and 11 percent, respectively. For food, the most extensively studied expenditure, 1.3 percent had invalid responses for food at home, while 0.9 percent had invalid responses for food eaten away from home.⁴

The Consumer Expenditure Survey. In addition to fulfilling its role as the official source for the Consumer Price Index, the CE is used to answer various important research questions about household consumption. For example, David Cutler and Lawrence Katz used CE data to describe the dispersion of total expenditures in the U.S. popula-

Table 1. Item nonresponse and time period of reporting in the Panel Survey of Income Dynamics, average for 1999–2003 ¹									
	Percent of	Are	Period of spending						
Expenditure category	families with valid	unfolding brackets	Asked in the	Actually reported by respondent , percent				t	
	response	used?	survey	Weekly	Biweekly	Monthly	Annually	Other	
Food:									
At home	98.7	No	weekly	89.4	2.1	7.9	0.5	0.0	
Away from home	99.1	No	not defined	68.3	2.2	27.7	1.7	.0	
Delivered	99.9	No	not defined	48.0	6.9	41.3	3.7	.0	
Housing:									
Mortgage	99.3	No	monthly	.0	.0	100.0	.0	.0	
Rent	99.0	No	monthly	.4	.1	99.3	.3	.0	
Insurance	91.7	No	annual	.0	.0	.0	100.0	.0	
Property tax	93.9	No	annual	.0	.0	.0	100.0	.0	
Electricity	96.6	No	monthly	.0	.0	99.2	.7	.1	
Heat	95.2	No	monthly	.0	.0	91.3	8.0	.8	
Water	96.0	No	monthly	.0	.0	86.7	9.8	3.4	
Other utility	99.8	No	monthly	.0	.0	97.2	2.2	.6	
Transportation:									
Loan payment	99.1	No	monthly	0	0	96.2	4	34	
Downpayment	98.1	No	annual	.0	.0	0	2100.0	0	
Lease payment	99.9	No	monthly	.0	.0	98.8	.1	1.1	
Insurance	92.9	No	annual	.0	.0	22.1	77.9	.0	
Gasoline	97.8	No	monthly	.0	.0	100.0	.0	.0	
Repairs	99.0	No	monthly	.0	.0	100.0	.0	.0	
Other vehicle expenses	99.1	No	monthly	.0	.0	100.0	.0	.0	
Parking	99.6	No	monthly	.0	.0	100.0	.0	.0	
Bus and train	99.7	No	monthly	.0	.0	100.0	.0	.0	
Taxicab	99.8	No	monthly	.0	.0	100.0	.0	.0	
Other transportation	99.8	No	monthly	.0	.0	100.0	.0	.0	
Education	99.2	No	annual	.0	.0	.0	100.0	.0	
Child care	99.3	No	annual	.0	.0	.0	100.0	.0	
Health care:									
Hospital and nursing home care	99.6	Yes	(3)	(3)	(3)	(3)	(3)	(³)	
Doctor's visits	99.3	Yes	(3)	(3)	(3)	(3)	(3)	(3)	
Prescription drugs in-home medical care,	99.3	Yes	(3)	(3)	(3)	(3)	(3)	(3)	
special facilities									
Insurance premiums	88.8	Yes	(3)	(3)	(3)	(3)	(3)	(3)	

¹ Weights are not used to calculate values in table.

the previous calendar year.

³ Previous two calendar years combined.

² Survey asks about down payments in the previous two calendar years, but

one can identify the date of each down payment to determine the amount in

This article compares the PSID with the Interview Survey and shows that PSID expenditures provide a good approximation to reported Interview Survey expenditures. Since the first quarter of 1999, the Interview Survey has been given to 7,000 to 8,000 households each quarter, with respondents reporting spending during the previous 3 months. The survey measures 578 separate categories at the Universal Classification Code (ucc) level, covering about 95 percent of total spending; among excluded items are spending on nonprescription drugs, household supplies, and personal care.⁸ The response (consumer unit cooperation) rate was 80 percent in 2000.⁹ Because it is PSID and Interview Survey expenditures, and not consumption,

tion across various years.⁵ The CE consists of the quarterly Interview Survey and the Diary survey, which together provide data on the buying habits of consumers, including expenditures, income, and basic demographic characteristics.⁶ The Diary Survey collects data on all spending during each day for two consecutive 1-week periods, focusing on frequently purchased items such as food, tobacco, and personal-care products. The Interview Survey, conducted in person, consists of five interviews 3 months apart, with key expenditure data collected in the last four interviews, covering a 12-month period. In both the surveys, expenditures are reported for the "consumer unit."⁷ The sample frame includes noninstitutionalized persons.

Exhibit 1. Expenditures data collected in the PSID: 1968–2003							
Domain	Question in 2003	Waves Available					
Food:							
At home	F17 and F18: In addition to what you buy with food stamps, [you and anyone else in your family/you] do spend	1968–2003,					
Delivered	any money on food that you use at home? How much do you spend on that food in an average week? F19 and F20: Do you have any food delivered to the door which isn't included in that? How much do you spend on that food?	except '73, '88, '89 1968, 1994–2003					
Away from home	F21: About how much do [you and anyone else in your family/you] spend eating out?	1969–2003, except '73, '88, '89					
Health care: Hospital and nursing	H64: About how much did you pay out-of-pocket for nursing home and hospital bills in 2001 and 2002 com-	1999–2003					
Doctor	H70: About how much did you pay out-of-pocket for doctor, outpatient surgery, dental bills in 2001 and 2002	1999–2003					
Prescription drugs	H76: About how much did you pay out-of-pocket for prescriptions, in–home medical care, special facilities, and	1999–2003					
Insurance	 H63: Altogether, how much did [you/your family] pay for health insurance premiums, in 2001 and 2002 combined, for (all of) the health insurance or health care coverage(s) you just mentioned? Please include amounts you had automatically deducted from your pay, as well as amounts you paid directly. 	1999–2003					
Housing:							
Mortgage	A25: How much are your monthly mortgage payments?	1968–2003,					
	A30: Do your payments include insurance premiums?	except '73, '74, '75,					
	A29: Do your payments include property tax?	82, 88, 89					
Rent	A31: About how much rent do you pay a month?	1968–2003,					
Incurance	A22. How much is your total yourly homeowney's insurance premium?	except 88, 89					
Property tax	A22: How much is your total yearly noneowner's insurance premium: A21: About how much are your total yearly property taxes including city county and school taxes?	1991-2003					
	A21. About now much are your total yearly property taxes, including city, county, and school taxes:	evcent '78 '88 '89					
Electricity	A48: The next few questions are about amounts paid for utilities, such as electricity and water. How much	1981–83,					
Heat	A49: How much for gas or other types of heating fuel per month?	1999–2003 1981–83,					
Water and course	AFOr How much Ido you / doos your family I you ally now for water and source nor month?	1999–2003					
water and sewer	ASO: How much to you/does your family usually pay for water and sever per month?	1991–85, 1999–2003					
Other utilities	A51, A52, and A53: And do you have any other utility expenses? What were those other utilities expenses? On	1981–83,					
Tueseesstation	average, how much are these other utility expenses per month? [Cable, garbage, phone, sewer]	1999–2003					
Vehicle loan navment	V20: How much are your payments and how often are they made?	1068 1000 2003					
Down payment	V17: How much did you put down in cash? (Asked up to three times if the household has multiple vehicles?	1908, 1999-2003					
Vehicle lease payment	 V24: How much vala your initial outlay for that lease—including your down payment and any fees? V25: How much are your payments and how often are they made? (Asked up to three times if the household bac multiple vehicles)? 	1999 2005					
Other vehicle expendi-	X3: (Other than the car navments you already told me about) how much did you nay in car navments?	1999-2003					
tures	As. To the finantine car payments you alleady told the about, now inderfaid you pay in car payments.	1999 2003					
Insurance	X1: How much do [you/you and your family living there] pay for car insurance [per year/for all your vehicles per	1968, 1999–2003					
Gasoline	X4: In the last month how much did [you/you and your family living there] pay for each of these transportation related expenses?	1999–2003					
Repairs and mainte-	X4:	1999–2003					
nance							
Parking and carpool	X4:	1999–2003					
Bus fares and train fares	X4:	1999–2003					
Taxicabs	X4:	1999–2003					
Other transportation	X4:	1999–2003					
Education	X6 and X7: In 2002, did [you/you and your family living there] have any school-related expenses such as - Purchase or rental of books, supplies, uniforms, or equipment including computers and software -Tuition or tutoring not including any amounts for day care or nursery school. I will ask you about those later; -Room and board for a family member who is away at school? How much in total were these expenses?	1999–2003					
See footnotes at end of t	able.						

Exhibit 1. Continued—Expenditures data collected in the PSID: 1968–2003						
Domain	Question in 2003	Waves Available				
	X8, X9, and X10: In 2002, were there any other school-related expenses not already covered in the previous question? What other types of school-related expenses did you have? Altogether, how much were these other expenses?					
Child Care	F7: How much did [you/you and your family living there] pay for child care in 2002?					
 ¹ Mortgage payment question ² Vehicle loan and leas asked up to three times if 	Lestion, A25, was asked for up to two mortgages. e payment questions, V17, V20, V24 and V25, were the household has multiple vehicles. Other vehicle	n question X3. X3 nore vehicles.				

that are being compared, expenditures on durables are not converted into flows of services received. $^{10}\,$

A comparison of PSID and CE expenditures

Consumption expenditures in both data sets were annualized. For the PSID, if an amount was reported for a period of less than 1 year, it was inflated by the reciprocal of the fraction of the year that the report covers. If the report was for more than 1 year, the amount was deflated, effectively assuming that spending was uniform over the period. For the CE, BLS procedures for calculating the weighted mean across interviews were followed.¹¹

There are many reasonable approaches to imputing values for families with item nonresponse. However, given the PSID's low rate of nonresponse, estimates of spending are relatively insensitive to the choice of imputation strategy. Table 2 reports average PSID spending for each category when the missing data are dropped (implicitly assuming that spending for families with item nonresponse is equal to the average among families that responded) and when the missing data are imputed with the use of a model that includes a third-order polynomial in age and an unrestricted spline for family size. The imputation models were fit separately for each expenditure category listed in table 2 using ordinary least squares.

The CE measures far more spending categories than the PSID does. Accordingly, we mapped the UCC codes from the CE into the PSID categories. Details of this mapping are given in exhibit 2. The mapping was determined by having two coders independently map the UCC codes into the PSID categories. Differences were reconciled through close inspection of each UCC.

For each PSID category, average spending for the PSID and the CE in 2001 is shown in the first and third columns of table 3; subsequent columns report comparisons for 1999 and 2003. Estimates for certain subcategories are significantly different in some cases, most likely because of respondent misallocation of spending into narrowly defined categories. These differences aside, total spending in each major category aligns fairly closely across the two surveys, especially considering the differences in survey design. For example, in 2001 total spending on food in the PSID is 8 percent higher than in the CE, total housing aligns exactly, and total transportation spending is 5 percent lower. These three categories account for 86 percent of spending measured in the PSID.

The gaps are larger for spending on health care, education, and child care, with PSID respondents reporting higher amounts in each case. In mapping education expenditures between the two surveys, the CE UCCS of computers, computer systems, and related hardware for nonbusiness use, and those of computer software and accessories for nonbusiness use (but not limited to school-related use) were included, which would lead to a higher estimate for the CE than the PSID. Moreover, CE UCC 660900—supplies and equipment expenses for "other schools," such as business, secretarial, technical, and trade schools-also was included, to match with the PSID category "other schoolrelated expenditures." However, this ucc also covers such expenses for daycare centers and nursery schools, which, alternatively, can be counted as child care expenses. In this article, these expenditures are characterized as school related. However, even given this potential inconsistency, the PSID education expenditure estimate is still higher than that of the CE.

With all PSID categories combined, annual spending totals \$25,961, a figure that is 2 percent greater than CE spending. (See table 3.) Estimates for 1999 and 2003 are similar, with PSID total spending 4 percent lower than CE spending in 1999 and 1 percent higher in 2003.

Spending on categories included in the PSID totals

Table 2. Average spending before and after imputation for item nonresponse, Panel Study of Income Dynamics, 2001 wave								
		Before imputation		After imputation				
Inputation	Number of families with valid responses	Percent of families with spending greater than 0	Unconditional mean	Number of families	Unconditional mean	Unconditional mean after trimming top 1 percent		
Food, total	7,228	98.8	5,936	7,406	5,899	5,724		
At home	7,276	97.1	3,990	7,406	3,969	3,881		
Away from home	7,318	89.9	1,829	7,406	1,825	1,770		
Delivered	7,397	13.1	105	7,406	105	81		
Housing, total	5,841	100.0	10,783	7,406	1,0471	9,777		
Mortgage	6,543	42.2	4,493	7,406	4,737	4,153		
Rent	7,337	33.9	2,006	7,406	2,014	1,789		
Insurance	6,822	54.5	363	7,406	376	344		
Property tax	6,977	56.1	1,210	7,406	1,224	1,107		
Utilities ¹	6,867	92.8	2,128	7,406	2,120	2,048		
Transportation, total	6,496	84.0	5,892	7,406	5,921	5,471		
Loanpayment	7,246	27.7	1,188	7,406	1,192	1,072		
Downpayment ¹	7,219	19.8	1,363	7,406	1,367	996		
Lease payment ¹	7,365	5.4	393	7,406	392	256		
Insurance	6,871	83.5	1,163	7,406	1,158	1,073		
Gasoline	7,264	84.6	1,343	7,406	1,342	1,259		
Repairs	7,332	40.5	110	7,406	110	90		
Other vehicle expenses	7,338	24.1	97	7,406	97	84		
Parking	7,374	6.2	46	7,406	46	24		
Bus and train	7,383	4.7	42	7,406	42	18		
Taxicab	7,383	2.4	15	7,406	15	4		
Other transportation	7,387	3.1	160	7,406	160	46		
Education	7,362	32.9	1,199	7,406	1,199	831		
Child care	7,379	14.9	341	7,406	342	234		
Health care, total	6,746	88.4	2,100	7,406	2,129	1,873		
Hospital and nursing home	7,383	27.2	310	7,406	311	147		
Doctor	7,366	68.7	427	7,406	426	351		
Prescriptions, in-home medical care,				-				
special facilities	7,370	74.2	338	7,406	339	272		
Insurance	6,770	63.6	1,056	7,406	1,052	974		

¹ PSID family weights are used to calculate means and percents.

²For utilities, downpayments, and leases, the proportion with valid responses reported in table 1 multipled by the sample size (7,406) does not equal the number of families with valid responses reported here. For utilities, if any individual component does not have a valid response, total utilities are counted as not having a valid response. For vehicles, some households can have multiple cars. In table 1, if the family reports one valid downpayment for a car, it is counted as valid. Here, the sum of all car downpayments for cars is reported, and if any car downpayments is invalid, the sum is invalid. The same is true of lease payments.

\$25,340, as measured by the CE in 2001. This figure accounts for 72 percent of total spending across all CE categories, including those not collected in the PSID (not shown in tables). This spending gap falls largely into five categories not measured in the 1999, 2001, or 2003 PSID waves: home repairs and maintenance (\$1,200 in the 2001 CE), household furnishing and equipment (\$1,400), clothing and apparel (\$1,300), trips and vacations (\$1,300), and recreation and entertainment (\$1,200). To capture spending on these items, questions were added to the 2005 and subsequent waves of the PSID.

Life-cycle expenditure profiles. Chart 1 displays weighted cross-sectional life-cycle expenditure profiles from both the PSID and the CE surveys.¹² The chart also shows the 95-percent confidence interval for the PSID expenditures. For each data source, two different measures of expenditures are plotted, by the age of the family head. The first measure is the total of the expenditure categories collected in the PSID. The second measures total expenditures, for the PSID, the imputed value of total expenditures; for the CE, the sum of all expenditure categories. The three-age-group moving average for each single year of age (for
Table 3.

Estimated expenditures in the Panel Survey of Income Dynamics (PSID) and the Consumer Expenditure Survey (CE), 2001, and means and ratios of means. 1999, 2001, and 2003¹

			2001	10	99	2003				
	P	SID		CE				200		
Expenditure category	Uncon- ditional mean	Percent of total ex- penditures	Uncon- ditional mean	incon- itional mean tures		Uncon- ditional mean, PSID	Ratio of means, PSID/CE	Uncon- ditional mean, PSID	Ratio of means, PSID/CE	
Total	25,961	100.0	25,340	100.0	1.02	22,449	0.96	26,994	1.01	
Food										
Total food	5,899	22.7	5,482	21.6	1.08	5,397	1.03	6,058	1.10	
At home	3,969	15.3	3,817	15.1	1.04	3,735	1.04	4,070	1.06	
Away from home	1,825	7.0	1,339	5.3	1.36	1,575	1.16	1,858	1.35	
Delivered	105	.4	(2)	(2)	(²)	87	(2)	130	(2)	
Alcohol	(2)	(2)	326	1.3	(2)	(2)	(2)	(2)	(²)	
Housing										
Total bousing	10.471	40.3	10.482	41.4	1.00	8 03 1	94	10 764	97	
Mortaago	/ 727	18.2	3 737	1.4	1.00	3 773	.94	4 762	.97	
Pont	2,014	7.0	2,727	1.5	06	1 010	1.10	2,052	06	
	2,014	7.0	2,090	0.5	.90	1,910	.90	2,033	.90	
Broporty tax	1 224	1.4	1 201	5.1	05	1 046	07	1 221	05	
Floperty tax	2 1 2 0	4.7	1,291	J.1 07	.95	1,040	.07	2 171	.95	
Talanhana	2,120	0.2	2,200	0.7	.90	(2)	(2)	2,171	.93	
	()		890	5.5	()		()	()	()	
Transportation										
Total transportation	5,921	2.3	6,251	24.7	.95	4,994	.86	6,148	.94	
Loan payment	1,192	4.6	1,514	6.0	.79	1,071	.76	1,403	.80	
Downpayment	1,367	5.3	1,214	4.8	1.13	1,186	.98	1,237	.96	
Lease payment	392	1.5	340	1.3	1.15	291	.96	227	.96	
Insurance	1,158	4.5	819	3.2	1.41	1,085	1.13	1,475	1.63	
Gasoline	1,342	5.2	1,268	5.0	1.06	979	.94	1,315	1.00	
Repairs	110	.42	631	2.5	.17	89	.14	100	.17	
Other vehicle expenses	97	.37	(2)	(2)	(2)	95	(²)	103	(²)	
Parking	46	.18	28	.10	1.64	34	1.36	43	1.54	
Bus and train	42	.16	98	.40	0.43	35	.38	58	.70	
Taxicab	15	.06	17	.10	0.88	11	.65	24	1.50	
Other transportation	160	.62	(2)	(2)	(2)	118	(2)	163	(2)	
Public transportation	(²)	(2)	322	1.3	(2)	(2)	(2)	(2)	(2)	
Education	1 100	16	014	26	1 2 1	1 020	1 1 6	1 217	1 1 2	
Childcaro	1,199	4.0	914	5.0	1.51	1,030	1.10	1,217	1.15	
ChildCare	J42	1.5	275	1.1	1.25	2/4	1.21	540	1.20	
Health care										
Total health care	2,129	8.2	1,938	.40	1.10	1,823	1.04	2,461	1.14	
Hospital and nursing home	311	1.2	109	1.8	2.85	315	3.08	354	3.03	
Doctor	426	1.6	455		.94	368	.85	480	1.04	
Prescriptions, in-home medical										
care, special facilities	339	1.3	364	1.4	.93	272	.83	412	.87	
Insurance	1,052	4.1	952	3.8	1.11	868	.97	1,215	1.09	
¹ Weights are used to calculate all es	timates	1 1		² Not a	oplicable			1		
				nora	spilcable.					

example, 25 to 27 years, 26 to 28 years, 27 to 29 years and so forth.) is calculated for each year (1999, 2001, and 2003) and then averaged across the years. Chart 1 does not control for any household characteristics (for instance, gender of head of household and family size). The profiles represent how, at a given point in time, consumption expenditures differ for family heads at different points in the life cycle and thus reflect changes in household size, composition, and other factors over the life cycle.

The chart shows that, for the categories measured in the PSID, the life-cycle expenditure profiles in the two data sets are similar. The lower profiles show that spending in the categories measured in the PSID rise through the late forties or early fifties and then fall almost monotonically



through the mid-seventies. The one period when the patterns for the two data sources diverge somewhat is in the early fifties, and this is due almost entirely to the gap in education expenditures at those ages. Notice that, despite this slight divergence, the CE series lies almost everywhere within the 95-percent confidence band of the PSID series.

The upper two profiles display total spending. For the CE, the data are total measured expenditures, including categories not measured in the PSID. For the PSID, total spending is imputed with a strategy developed by Jona-than Skinner.¹³ The CE data are used to estimate a regression of total expenditures on the expenditure categories measured in the PSID. Then, the coefficients from that regression are used together with PSID data to predict total PSID expenditures. The value of R-squared from the imputation regression is 0.89; the estimated coefficients are reported in table 4.

Chart 1 shows that total CE expenditures and imputed total PSID expenditures are similar. The profiles imply spending of roughly \$30,000 per year in the late twenties, increasing to above \$40,000 in the late forties (CE) and early fifties (PSID). Spending falls thereafter, so that by the late sixties it is about the same as the level experienced by families headed by people in their midtwenties. The two series are generally very close, with the CE series lying within the 95-percent confidence interval for the PSID throughout virtually the entire life cycle. The point estimate of the PSID series is often somewhat higher than that of the CE after middle age, but the difference is typically statistically insignificant. The slightly higher point estimate of the imputed expenditure in the PSID is consistent with what Jonathan Fisher and David Johnson found. Expanding the Skinner imputation strategy by including demographic characteristics, they also report a slightly higher imputed total consumption in the PSID than in the cE.¹⁴ On balance, both their results and the ones presented here indicate that, measured against the benchmark of the cE, the PSID expenditure data provide a high-quality estimate of household expenditure behavior.

THIS ARTICLE HAS DEMONSTRATED that PSID and CE estimates of expenditures in most broad categories align closely despite substantial differences in their instruments and design features. Also, cross-sectional lifecycle consumption expenditure profiles are similar in the two surveys. Because the PSID expanded the set of questions on consumption expenditures 1999, it now gives a very good approximation of the consumption expenditures provided

Panel Survey of Income Dynamics Consumption Category Consumer Expenditure Survey Universal Classification Codes Food!. 190904, 790220, 790230 At home 190904, 790220, 790230 Delivered 190901, 190902, 190902, 190903, 790410, 790430, 800700 Health Care 570110, 570210, 570220, 570230 Doctor 570110, 560210, 560210, 560330, 560300, 560400 Prescription drugs 340906, 540000, 550110, 550320, 550303, 550906, 560400 Insurance. 580111, 580112, 580113, 580114, 580311, 580312, 580903, 580903, 580905, 580906 Housing 220311, 220312, 220321, 220322, 830201, 830202 Rent 220311, 250113, 250114, 250211, 250213, 250214, 250212, 250232, 25023, 22021, 22021, 22021, 22021, 22021, 22021, 22021, 22021, 22021, 22021, 22021, 22022, 25023, 25002, 25004, 26011, 26012, 270903, 270904, 270903, 270904, 270903, 270904, 2709302, 270904, 270930, 270904, 270930, 270904, 270930, 270904, 2709	Exhibit 2. Mapping of Universa Dynamics Categories	l Classification Codes from Consumer Expenditure Survey into Panel Survey of Income s
Food!. 19904, 790220, 790230 At home 19904, 790220, 790230 Delivered 190901, 199092, 199093, 790410, 790430, 800700 Away from home 190901, 199092, 199093, 790410, 790230, 570230 Hospital and nursing home 560110, 550320, 550330, 5503340, 570930, 550330, 570340 Insurance. 580111, 580112, 580113, 580114, 580311, 580931, 580935, 580906, 580905, 580906 Housing 200311, 220312, 220322, 20322, 830201, 830202 Rent 200311, 220312, 220322, 230201, 820201, 82021, 22021, 220212, 220322, 830201, 830202 Insurance 20011, 250112, 250113, 250114, 25021, 250212, 250213, 250214, 250221, 22021, 22021, 22021, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220212, 22021, 220211, 220211, 220211, 220211, 220211, 220211, 220211, 220212, 22021, 22023, 26023, 26024, 270904, 27	Panel Survey of Income Dynamics Consumption Category	Consumer Expenditure Survey Universal Classification Codes
At home 190904, 790220, 790230 Delivered 190901, 190902, 190903, 790410, 790430, 800700 Health care 570110, 570210, 570220, 570230 Doctor 560110, 56021, 560330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550330, 550400, 550110, 550320, 550301, 550330, 550400, 550110, 550320, 550301, 550330, 550400, 550110, 550320, 550301, 550301, 550301, 550330, 550400, 52011, 22012, 220321, 220312, 220321, 220312, 220321, 220331, 4503314, 450410, 4603314, 4603314, 460314, 460314, 46031	Food ¹ .	
Delivered 190901, 190902, 190903, 790410, 790430, 800700 Health care 570110, 570210, 570220, 570230 Hospital and nursing home 560110, 560210, 560310, 560310, 560330, 560400 Doctor 560110, 560210, 560310, 560310, 560330, 560400 Insurance. 580111, 580112, 580113, 580113, 580112, 580330, 550340, 570901, 570903, 570240 Mortgage 220311, 220312, 220321, 220322, 830201, 830202 Rent 210110, 800710 Insurance 220111, 250113, 250114, 250211, 250213, 250214, 250221, 250222, 250223, 220231, 220312, 2203214, 250212, 250222, 250234, 250901, 250903, 250904, 50114, 260112, 260112, 260112, 260123, 25013, 250214, 250211, 250214, 250211, 250214, 250211, 250214, 250211, 250214, 250211, 250214, 250211, 250214, 250211, 250213, 25013, 25014, 250204, 2509005, 2509005, 250907, 250914, 290904, 24090314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314, 490314,	At home	190904, 790220, 790230
Away from home 150501, 190502, 190503, 20010, 20030, 20010, 20030, 20010, 50020, 500230 Heakth care 570110, 570210, 570220, 570230 Hospital and nursing home 570110, 570210, 570220, 570230, 560330, 550330, 550340, 570901, 550930, 550340, 570901, 550930, 550340, 570901, 550930, 550940, 580904, 220121, 220121, 220122, 22021, 220321, 220321, 220321, 220321, 220321, 220312, 220321, 220312, 22031, 220312, 22031, 22031, 220312, 22031, 22031, 220312, 22031, 220312, 22031, 220312, 22031, 220312, 22031, 22031, 22031, 22031, 22031, 22031, 22031, 22031, 22031, 22031,	Delivered	
Hearitable 570110, 570210, 570220, 570230 Doctor 560110, 560210, 560210, 56030, 56030, 560400 Prescription drugs 340906, 540000, 550110, 550230, 55030, 550400, 550900, 580903, 580900, 580903, 580900, 580903, 580900, 580903, 580900, 580903, 580900, 580903, 580900, 580903, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 580900, 220311, 220312, 220321, 220331, 530311, 530312, 530311, 530311, 530311, 530311, 530311, 5303	Away from home	190901, 190902, 190903, 790410, 790430, 800700
Transportation Solution	Hospital and pursing home	570110 570210 570220 570230
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Insurance. 580111, 580112, 580113, 580114, 580311, 580312, 580903, 580904, 580905, 580906 Housing 200311, 220312, 220321, 220322, 830201, 830202 Rent 210110, 800710 Insurance 220121, 220122 Property tax 20011, 250112, 250113, 250114, 250211, 250212, 250213, 250214, 250212, 250222, 250232, 250302, 250903, 250904, 50011, 260112, 260112, 260112, 260112, 260114, 260112, 260112, 260112, 260112, 260112, 260114, 260211, 260212, 260213, 260214, 270211, 270212, 270213, 270214, 270310, 270411, 270413, 270414, 270413, 270414, 270901, 270903, 270904 Transportation. 870103, 870104, 870203, 870204 Vehicle lease payment 870103, 870104, 870203, 870204 Insurance 450310, 450313, 450314, 450410, 450411, 450411, 500110 Gasoline 870103, 870104, 870203, 870204 Housing 470220, 470211, 470212, 270213, 270214, 270310, 270913, 270903, 270903, 270904 Cher vehicle payment 870103, 870104, 870203, 870204 Insurance 450310, 450313, 450314, 450410, 450411, 4505011, 4505012, 5205511, 520512, 520522, 520542, 520502, 520903, 52	Prescription drugs	340906, 540000, 550110, 550320, 550340, 550901, 570903, 570240
Housing Mortgage Rent Insurance Property tax Utilities ² Transportation. Vehicle loan payment Vehicle loan payment Vehicle loan payment Vehicle loan payment Schooline Repairs Child care Description Child care Schooling Child care Child care Child care Child care Child care Child care Mortgage Rent 120011, 22012, 22022, 23020, 22032, 250901, 22021, 250214, 250221, 250222, 250223, 250224, 250901, 250902, 250903, 250904, 260111, 260112, 260113, 260114, 260211, 260213, 260214, 270411, 270412, 270901, 270902, 270903, 270904 Child care Child care Ch	Insurance.	580111, 580112, 580113, 580114, 580311, 580312, 580901, 580903, 580904, 580905, 580906
Mortgage 220311, 220312, 220321, 22032, 220321, 22032, 830201, 830202 Rent 101010, 800710 Insurance 20011, 22012 Property tax 220211, 22012, 22012, 22022, 52023, 22022, 52023, 250003, 250904, 260111, 260112, 260113, 260114, 260211, 26021, 22021, 22021, 22021, 22022, 52023, 250021, 22022, 52023, 250001, 250904, 260111, 260112, 260113, 260114, 260211, 260112, 20012, 270903, 270904, 270904, 270901, 270902, 270903, 270904, 270901, 270902, 270903, 270904, 270901, 270902, 270903, 270904, 270901, 270902, 270903, 270904, 270901, 270902, 270903, 270904, 270901, 270902, 270903, 270904, 270901, 270902, 270903, 270904, 270904, 270902, 270903, 270904, 270904, 270902, 270904, 270904, 270902, 270904, 270904, 270904, 270902, 270904, 270904, 270904, 270902, 270904, 270911, 470112, 490113, 490312, 490313, 490314, 490318, 490319, 490414, 490413, 490514, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 490504, 500506, 520907, 53011, 530314, 530314, 530311, 530314, 530314, 530314, 5	Housing	
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Insurance 220121, 220122 Property tax 220211, 22011, 22011, 250113, 250114, 250211, 250212, 250213, 250214, 25021, 250212, 25022, 250223, 25023, 250904, 260111, 260112, 260113, 260114, 26021, 260213, 260214, 270211, 270212, 270213, 270214, 270310, 270904, 2	Rent	210110, 800710
Property tax 220211, 220212 Utilities ² 250111, 250112, 250113, 250114, 250211, 250212, 250214, 25022, 25022, 25022, 25023, 250244, 250901, 250902, 250903, 250904, 260111, 260113, 260114, 260211, 260212, 260213, 260214, 270211, 270212, 270213, 270214, 270310, 270413, 270413, 270413, 270413, 270414, 270901, 270902, 270903, 270904 Transportation. Vehicle loan payment 870103, 870104, 870203, 870204 Downpayment 870101, 870102, 870201, 870202 450310, 450313, 450314, 450410, 450413, 450314 Insurance 450310, 450131, 450314, 450411, 500110 450311, 450411, 450112, 470112, 470113 Repairs 470220, 470211, 470212, 480110, 480213, 480214, 490110, 490211, 490421, 490411, 490412, 490413, 490314, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 490318, 530311, 530312, 530501, 530902, 530201 Other vehicle payments 520511, 520512, 520521, 520522, 520542, 520902, 520903, 520904, 520905, 520906, 520907, 53011, 530312, 530311, 530312, 530311, 530312, 530301, 530901, 530911, 530312, 530501, 530902, 5302010 Other vehicle payments 520511, 520512, 520521, 520522, 520542, 520902, 520903, 520904, 520905, 520906, 520907, 530110, 530911 Chird care 190901, 210310, 370903, 390901, 660110, 660210, 660310, 660900, 670110, 670210, 670901, 670901, 670911, 690112, 690111, 690112 Chird care 340211, 340212, 670310	Insurance	220121, 220122
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Zb021, 2003, 2003, 2003, 2003, 2001	Utilities ²	250111, 250112, 250113, 250114, 250211, 250212, 250213, 250214, 250221, 250222, 250223, 250904, 260111, 260112, 260113, 260114, 260211, 260212
Transportation. 270901, 270902, 270903, 270904 Vehicle loan payment 870103, 870104, 870203, 870204 Downpayment 870101, 870102, 870201, 870202 Vehicle lease payment 450310, 450313, 450410, 450413, 450414 Insurance 450310, 450313, 450410, 450413, 450414 Gasoline 470111, 470112, 470113 Repairs 470220, 470211, 470212, 480110, 480213, 480214, 490110, 490212, 490211, 490214, 490214, 490214, 490214, 490514, 490502, 4902031, 490313, 490314, 490318, 490314, 490318, 490319, 490413, 490502, 490203, 490300, 520410 Other vehicle payments 520511, 520512, 520521, 520522, 520542, 520902, 520904, 520905, 520906, 520907, 530110, 530901 Farking 530311, 530312, 530501, 530902, 530210 Taxicab 520511, 520512, 520521, 520522, 520542, 520902, 520903, 520904, 520905, 520906, 520907, 530110, 530901 Education 54061ing Schooling 190901, 210310, 370903, 390901, 660110, 660210, 660310, 660900, 670110, 670210, 6709210, 670920, 800802, 800804 Other school-related expenditures 340211, 340212, 670310		260213, 260214, 270211, 270212, 270213, 270214, 270310, 270411, 270412, 270413, 270414,
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Education Schooling Other school-related expenditures Childcare 190901, 210310, 370903, 390901, 660110, 660210, 660310, 660900, 670110, 670210, 670901, 670902, 800802, 800804 690111, 690112 340211, 340212, 670310	Other transportation	520511, 520512, 520521, 520522, 520542, 520902, 520903, 520904, 520905, 520906, 520907,
Education Schooling Other school-related expenditures Childcare 190901, 210310, 370903, 390901, 660110, 660210, 660310, 660900, 670110, 670210, 670901, 670902, 800804 690111, 690112 340211, 340212, 670310		530110, 530901
Schooling 190901, 210310, 370903, 390901, 660110, 660210, 660310, 660900, 670110, 670210, 670901, 670902, 800802, 800804 Other school-related expenditures 690111, 690112 Childcare 340211, 340212, 670310	Education	
Other school-related expenditures Childcare 340211, 340212, 670310	Schooling	100001 210210 270002 200001 660110 660210 660210 660000 670110 670210 670001 670002 200202 200204
Childcare 340211, 340212, 670310	Other school-related expenditures	690111 690112
	Childcare	340211. 340212. 670310

¹ The Universal Classification Codes of alcoholic beverages consumed at home, in restaurants, and on trips—200900, 790310, 790320, and 790420 are also included to match with the PSID total food expenditure, although these UCCs are not assigned to food at home or food away from home. ² The Universal Classification Codes of telephone services—270101 and 270102—are included in order to match the PSID total housing expenditures. ³ The Consumer Expenditure Survey has Universal Classification Codes for expenditures on motorcycles, mopeds, scooters, and private airplanes. The Panel Survey of Income Dynamics explicitly asked households not to include these payments when they report vehicle expenditures. ⁴ Universal Classification Codes 450311 and 450411 encompass other charges on leased vehicles, such as maintenance charges.

by the CE.

Most likely, the CE will remain the primary data set for cross-sectional analyses. The survey collects detailed expenditure data on a continuous quarterly basis, so CE data permit highly accurate assessments of year-to-year changes in expenditures across the population. Also, because the CE has collected comprehensive expenditure data for more than two decades, long-term trends can only be analyzed with that survey.

Still, given the PSID's longitudinal nature, its genealogical

Table 4.

survey expenditures used to impute total expenditures in the Panel Study of Income Dynamics Coefficient Imputation p-value Spending on: -2546 < 0.0001 Constant. < 0.0001 Food at home.... 1.19 Food away... 2.35 < 0.0001 < 0.0001 Mortgage... 1.01 Rent..... 1.16 < 0.0001 2.10 < 0.0001 Home insurance..... < 0.0001 Property tax..... 2.62 Utilities.... 2.00 < 0.0001 < 0.0001 Transportation..... 1.26 < 0.0001 1.18 Education..... Child care..... < 0.0001 1.59 Health care..... 1.42 < 0.0001

Ordinary least square model of total Consumer Expenditure

design, and the wealth of information it provides on labor market and demographic variables, several new areas of research can be advanced with the use of PSID consumption expenditure data. For example, previous research using cross-sectional data has documented that income-poor families consume substantially more than their annual income.¹⁵ Does this result hold when both income and consumption expenditures are measured over multiple years? Similarly, a large literature documents a strong intergenerational relationship between wealth and income.¹⁶ Is there a similar intergenerational pattern for consumption expenditure? Using the PSID to answer these and other questions will greatly enrich our understanding of consumption behavior and provide a useful complement to research that analyzes the CE.

Notes

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¹ The 2001 and 2003 Consumption and Activities Mail Surveys, supplements to the Health and Retirement Study, gathered comprehensive assessments of expenditures of people 50 years and older, allowing longitudinal analyses of consumption in this panel study.

² John Fitzgerald, Peter Gottschalk, and Robert Moffitt, "An Analysis of Sample Attrition in Panel Data," *Journal of Human Resources*, Spring 1998, pp. 251–99; and Sean Becketti, William Gould, Lee Lillard, and Finis Welch, "The Panel Study of Income Dynamics after Fourteen Years: An Evaluation," *Journal of Labor Economics*, October 1988, pp. 472–92.

³ The use of so-called unfolding brackets in the PSID questions on wealth has been found to reduce item nonresponse substantially. (See Thomas Juster and James P. Smith, "Improving Quality of Economic Data: Lessons from the HRS and AHEAD," *Journal of the American Statistical Association*, March,1997, pp. 1268–78.). The health care expenditure questions added in 1999 also offer respondents unfolding brackets. For example, if the respondent says "don't know" when asked the amount spent on prescription drugs, in-home medical care, special facilities, and other services combined, the respondent is asked, "Would it amount to \$5,000 or more?" If the respondent says "yes," then he or she is asked in subsequent questions whether it is more than \$10,000 and then more than \$20,000. If the respondent says "no," then he or she is asked in subsequent questions whether it was more than \$1,000. If the respondent says "no" again, he or she is then asked if the amount was more than \$500. If the respondent continues to respond "don't know," the series of questions is terminated.

⁴ Over the 1999, 2001, and 2003 waves analyzed in this article, 15 respondents had expenditures in one category that were several orders of magnitude larger than the average spending across all families for that category. In these cases, the value was assumed to be invalid and was imputed using the same approach used for item nonresponse (described subsequently).

⁵ David Cutler and Lawrence Katz, "Rising Inequality? Changes in the Distribution of Income and Consumption in the 1980s," *American Economic Review*, May 1992, pp. 546–51.

⁶ Consumer Expenditure Survey Anthology, 2003, Report 967 (Bureau of Labor Statistics, 2003), on the Internet at www.bls.gov/cex/csxanthol03. pdf (visited March 3, 2010).

⁷A consumer unit is defined as (1) all members of a household who are related by blood, marriage, adoption, or some other legal arrangement; (2) a person living alone or sharing a household with others, living as a roomer in a private home or lodging house, or living permanently in a hotel or motel, but who is financially independent; or (3) two or more persons living together who combine their incomes and make joint expenditure decisions. Financial independence is determined by three expense categories: housing, food, and other living expenses. To be considered financially independent, the respondent must provide expenditures, either entirely or in part, in at least two of the three categories.

⁸ Consumer Expenditure Survey, 2000: Interview Survey and Detailed Expenditure Files (Bureau of Labor Statistics, 2002), distributed by Interuniversity Consortium for Political and Social Research, Ann Arbor, MI, 2002.

⁹ *Ibid.*, p. 247.

¹⁰ Note that the conventional method for imputing consumption expenditure is to apply a linear transformation to the stock of durable goods. If expenditure outlays on durables are similar across the two surveys, it is likely that the stock of durables and the flows of services would be similar across the surveys as well.

¹¹ Because of the evolving structure of the CE sample design, the weight assigned to each consumer unit changes over quarters. Therefore, the annual weighted mean is computed by adding four quarterly weighted

means together. (For details, see Consumer Expenditure Survey, 2000.)

¹² Comparisons of life-cycle profiles for detailed expenditure categories are reported in Kerwin Kofi Charles, Sheldon Danziger, Geng Li, and Robert Schoeni, *Studying Consumption with the Panel Study of Income Dynamics: Comparisons with the Consumer Expenditure Survey and an Application to the Intergenerational Transmission of Well-being*, Finance and Economics Discussion Series (Washington, DC, Federal Reserve Board, 2007).

¹³ Jonathan Skinner, "A Superior Measure of Consumption from the Panel Study of Income Dynamics," Economics Letters, February 1987, pp. 213–16.

¹⁴ Jonathan D. Fisher and David S. Johnson, "Consumption Mobility in the United States: Evidence from Two Panel Data Sets," *Topics in* *Economic Analysis and Policy*, vol. 6, no. 1, 2006, Article 16, on the Internet at **www.bepress.com/bejeap/topics/vol6/iss1/art16** (visited March 4, 2010). Another distinction between Fisher and Johnson's imputation and the one presented here is that they focus on consumption, instead of expenditure, by replacing durable goods and housing expenditures with estimated service flows.

¹⁵ Bruce Meyer and James Sullivan, "Changes in the Consumption, Income, and Well-Being of Single Mother Headed Families," *American Economic Review*, December 2008, pp. 2221–41.

¹⁶ See Gary Solon, "Intergenerational Income Mobility in the United States," *American Economic Review*, June 1992, pp. 393–408; and Kerwin Kofi Charles and Erik Hurst, The Correlation of Wealth Across Generations," *Journal of Political Economy*, December 2003, pp. 1155–82.

Virtual immigration

From 1996 to 2008, immigration to the United States rose about 68 percent. Although this statistic represents strong growth, it appears that a much newer phenomenon—*virtual immigration*—has been increasing substantially faster. Virtual immigration is similar to physical immigration in that tasks are done by people from other countries; the difference is that it is the work—not the worker—that moves when virtual immigration occurs. One example is a bookkeeper in India who creates a report of financial data for a company in the United States.

"Labor Market Globalization in the Recession and Beyond" is an article by W. Michael Cox, Richard Alm, and Justyna Dymerska (Federal Reserve Bank of Dallas, Economic Letter, December 2009) that discusses virtual immigration before and during the recession that started in December 2007. The article explains that there are no nations that measure virtual immigration explicitly. However, there are numerous data which indicate that virtual immigration has increased rapidly. For example, about two-thirds of the categories of imports and exports tracked by the Department of Commerce are categories that are likely to include strong concentrations of virtual immigrants, and U.S. imports and exports in these categories climbed by 180 percent from 1998 to 2008. According to the article, the growth of data transmission capacity to the point at which large quantities of information can be uploaded and downloaded has made a great difference in the amount of virtual immigration in recent years. Wealthier countries tend to specialize in exporting knowledge-intensive services, whereas less developed

countries generally export more back-office work such as computer programming and claims processing; thus, there are virtual immigrants in both rich and poor nations.

Data indicate that physical immigration is very sensitive to the business cycle. During the most recent recession, for example, workers from other countries have been among the first laid off. Virtual immigration, in contrast, though having slowed recently, appears to have continued to grow in spite of the recession. The article theorizes that the continued growth occurs because, whereas most physical immigrants work in highly cyclical industries involving goods, most virtual immigrants work in services, a sector that traditionally has been less sensitive than goods to the business cycle. The authors state that market forces have had a greater impact than protectionist policies in reducing both kinds of immigration. In addition, they affirm that physical and virtual immigration are likely to increase once the demand for labor rises again.

Female athletes paid longterm dividends by Title IX

Being a member of a high school sports team has long been touted as a way to stay fit, make friends, and gain self-esteem, but a new study indicates that women reap additional benefits from high school athletics many years after they receive a diploma. Evidence suggests that increased female participation in high school sports leads to increased college attendance and labor force participation rates.

In a recent National Bureau of Economic Research (NBER) study entitled "Beyond the Classroom: Using Title IX to Measure the Return to High School Sports" (NBER Working Paper No. 15728, February 2010), Betsey Stevenson examines the returns that Title IX has given to the generation of American women that first benefited from the legislation and how Title IX continues to affect younger generations. By controlling for a large number of factors and analyzing boys' data alongside girls' data, Stevenson determines that athletic participation in high school has had important causal effects on women's educational and labor market outcomes.

Enacted by Congress in 1972 as an amendment to the 1964 Civil Rights Act, Title IX banned gender discrimination in any educational program or activity that received Federal financial assistance. Title IX had a particular effect on gender equality in athletic participation. From 1972 to 1978, high schools across the United States experienced a rapid increase in the female athletic participation rate, from 7 percent to over a third; by the latter date, there was roughly the same proportion of female students participating in sports as male students.

The author calculates that changes brought about by Title IX led to a 30-percentage-point rise in female sports participation and that a roughly 0.12-year rise in educational attainment and a 4.5-percentage-point rise in labor force participation can be attributed to the increased opportunities to participate in sports. Stevenson finds that, in the post-Title IX era, women who participate in high school sports receive 0.4 years more education and 8 percent higher wages, even when the study controls as thoroughly as possible for a student's underlying abilities and resources. Further, since Title IX was enacted, there has been a 20-percent increase in education and a roughly 40-percent rise in employment for 25- to 34-year-old women.□

Wallowing in significance

The Cult of Statistical Significance: How the Standard Error Costs Us Jobs, Justice, and Lives. By Stephen T. Ziliak and Deirdre N. McCloskey, Ann Arbor, MI, The University of Michigan Press, 2007, 321 pp., \$24.95/paper.

All but the most astute BLS news release reader might overlook the note near the end of some BLS regional reports that states, "A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance." This reviewer thought he understood what that meant, but after a reading of *The Cult of Statistical Significance*, that statement has taken on new "significance."

Stephen T. Ziliak and Deirdre N. McClosky are "not professional statisticians, only amateur historians and philosophers of science." They are both professors and economists who are also artful writers. Ziliak has taught at Emory University and the Georgia Institute of Technology; he is currently Professor of Economics at Roosevelt University. Ziliak's resume includes a stint working as a state labor market analyst, in which he was not able to provide black teenage unemployment rates because they did not meet an "arbitrary level of statistical significance." McCloskey, the Distinguished Professor of Economics, History, English, and Communication at the University of Illinois at Chicago, has authored 20 books and 300 articles. This reviewer was first introduced to McCloskey's work over 20 years ago when a colleague shared the article, "Economical Writing" (Western Economic Association, Economic Inquiry, April 1985), an entertaining and engaging piece that provides writing guidance

to economists.

According to *Cult's* authors, the problem is that significance has become a broken, or highly overused and abused, statistical instrument. "The offering of statistically significant coefficients seems ceremonial," write Professors Ziliak and McCloskey, who document a history of the problem while attacking its misuse. "In statistical fields such as economics...the idol is the test of significance." Put succinctly, Ziliak and Mc-Closkey feel statistical significance is simply bad science-"One erects little 'significance' hurdles, six inches tall, and makes a great show of leaping over them, concluding from a test of statistical significance that the data are 'consistent with' one's own very charming hypothesis."

Their point of contention is that "fit is not the same thing as importance. Statistical significance is not the same thing as scientific finding." A scientific study is concerned with determining the magnitude of effect, answering the question, "How much?" Contrast this with conclusions based solely on a statement of statistical significance. The difference is one of what the authors call "oomph" versus a "philosophy of mere existence." This point is masterfully illustrated with a number of case histories (including the 1990 South Carolina salmonella outbreak and studies on both St. John's-Wort and Vioxx).

In 1996, the authors analyzed scholarly American Economic Review (AER) articles from the 1980s, subjecting them to 19 critical evaluative questions, in order to assess the quality of their statistical analyses. Among their findings was that 70 percent of the applied econometric papers published made no distinction between statistical significance and economic significance. The authors repeated the study with articles from the 1990s, and the results were not much better.

"No competent statistician would recommend,"write Ziliak and Mc-Closkey, " that economists use only tests of statistical significance without a loss function or a consideration of power..." Explain the Cult's authors, "Power asks, 'What in the proffered experiment is the probability of correctly rejecting the null hypothesis, concluding that the null hypothesis is indeed false when it is false?" Ziliak and McCloskey assert, "Calculations of Type I error pretend otherwise... they act as if the null hypothesis...is the only hypothesis that is worthy of probabilistic assessment. They ignore the other hypotheses."

To help solve the statistical significance problem, Ziliak and McCloskey propose issuing a "Statement on the proprieties of substantive significance" and distributing it to editors and researchers. "Undergraduates need to hear from the beginning that size matters," state the authors. Size matters from more than one perspective: in terms of the size of the error (and, the authors point out, random error is but "one out of many dozens of errors and seldom the biggest"); in terms of sample size; and in terms of the size of the observed economic effect.

How did it happen that statistical significance became the expected and most abused litmus test of modern research? McCloskey and Ziliak raise a number of possibilities, including sociological reasons, to explain the current situation. "Testimators rest content with a nominal level of statistical significance, ignoring the real significance—the rise or fall in the price of the ostensible object of inquiry. Suffering from precision illusion, they ignore real error."

In addition to exposing us to the

development of ideas, the authors also paint a picture of the personalities behind the number theories. This added color, though sometimes entertaining, may occasionally border on character attack. Some of the portrayals, in this reviewer's opinion, may have detracted from the book's potency.

Nevertheless, the message remains: Even employees of major U.S. statistical agencies might take statistical significance for granted. After all, we and other statistical practitioners and data disseminators know all about estimate formulation and sample error. We can analyze data and present our survey results and research findings to the public, providing valuable information about our economy. Relatively few of us, however, know the history of significance analysis, the controversy that surrounds its use, and the "substantive" strength added by considerations of power and other analytical methods.

Cult's strength is that it fills that void...and then some. The authors are not shy about their message: "We hope you, oh significance tester, will read the book optimistically—with a sense of how "real" significance can transform your science." Whether or not one agrees with their conclusions,

some benefit might still accrue from a close reading of this work. Beyond the many-faceted descriptions of the problem, *Cult* provides a "reader's guide" for further direction and additional background in statistical testing estimation and error. And, if you are a researcher, the most valuable part of this work might be the discussion that surrounds Ziliak and McCloskey's 19-question AER evaluation—how would *your* study fare? \Box

> —Bruce Bergman New York Office Bureau of Labor Statistics

Book review interest?

Interested in reviewing a book for the *Monthly Labor Review*? We have a number of books by distinguished authors on economics, industrial relations, other social sciences, and related issues waiting to be reviewed. If you have good writing skills and/or experience, then please contact us via E-mail at **mlr@bls.gov**.

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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 x 100 = \$2). The \$2 (or any other resulting

values) are described as "real," "constant," or "1982" dollars.

Sources of information

Data that supplement the tables in this section are published by the Bureau in a variety of sources. Definitions of each series and notes on the data are contained in later sections of these Notes describing each set of data. For detailed descriptions of each data series, see *BLS Handbook of Methods*, Bulletin 2490. Users also may wish to consult *Major Programs of the Bureau of Labor Statistics*, Report 919. News releases provide the latest statistical information published by the Bureau; the major recurring releases are published according to the schedule appearing on the back cover of this issue.

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

www.bls.gov/cps/

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

www.bls.gov/ces/

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

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

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

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

www.bls.gov/lpc/

For additional information on international comparisons data, see *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.
 - p = preliminary. To increase the timeliness of some series, preliminary figures are issued based on representative but incomplete returns.
 - r = revised. Generally, this revision reflects the availability of later data, but 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 partici**pation** rate is the proportion of the civilian noninstitutional population that is in the labor force. The employment-population ratio is employment as a percent of the civilian noninstitutional population.

Notes on the data

From time to time, and especially after a decennial census, adjustments are made in the Current Population Survey figures to correct for estimating errors during the intercensal years. These adjustments affect the comparability of historical data. A description of these adjustments and their effect on the various data series appears in the Explanatory Notes of *Employment and Earnings*. For a discussion of changes introduced in January 2003, see "Revisions to the Current Population Survey Effective in January 2003" in the February 2003 issue of *Employment and Earnings* (available on the BLS Web site at **www.bls.gov/cps/rvcps03.pdf**).

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

At the beginning of each calendar year, historical seasonally adjusted data usually are revised, and projected seasonal adjustment factors are calculated for use during the January–June period. The historical seasonally adjusted data usually are revised for only the most recent 5 years. In July, new seasonal adjustment factors, which incorporate the experience through June, are produced for the July–December period, but no revisions are made in the historical data.

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

Establishment survey data

Description of the series

Employment, hours, and earnings data in this section are compiled from payroll records reported monthly on a voluntary basis to the Bureau of Labor Statistics and its cooperating State agencies by about 160,000 businesses and government agencies, which represent approximately 400,000 individual worksites and represent all industries except agriculture. The active CES sample covers approximately one-third of all nonfarm payroll workers. Industries are classified in accordance with the 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 positions. Those workers mentioned in tables 11–16 include production workers in manufacturing and natural resources and mining; construction workers in construction; and nonsupervisory workers in all private service-providing industries. Production and nonsupervisory workers account for about four-fifths of the total employment on private nonagricultural payrolls.

Earnings are the payments production or nonsupervisory workers receive during the survey period, including premium pay for overtime or late-shift work but excluding irregular bonuses and other special payments. **Real earnings** are earnings adjusted to reflect the effects of changes in consumer prices. The deflator for this series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

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

The **Diffusion Index** represents the percent of industries in which employment was rising over the indicated period, plus one-half of the industries with unchanged employment; 50 percent indicates an equal balance between industries with increasing and decreasing employment. In line with Bureau practice, data for the 1-, 3-, and 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 UI 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 infor-mation for the last business day of the reference month. A job opening requires that (1) a specific position exists and there is work available for that position; and (2) work could start within 30 days regardless of whether a suitable candidate is found; and (3) the employer is actively recruiting from outside the establishment to fill the position. Included are full-time, part-time, permanent, short-term, and seasonal openings. Active recruiting means that the establishment is taking steps to fill a position by advertising in newspapers or on the Internet, posting help-wanted signs, accepting applications, or using other similar methods.

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

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

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

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

Notes on the data

The JOLTS data series on job openings, hires, and separations are relatively new. The full sample is divided into panels, with one panel enrolled each month. A full complement of panels for the original data series based on the 1987 Standard Industrial Classification (SIC) system was not completely enrolled in the survey until January 2002. The 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 business services.

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

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

Unit nonlabor costs contain all the components of unit nonlabor payments except unit profits.

Unit profits include corporate profits with inventory valuation and capital consumption adjustments per unit of output.

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

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

Capital services are the flow of services from the capital stock used in production. It

is developed from measures of the net stock of physical assets—equipment, structures, land, and inventories—weighted by rental prices for each type of asset.

Combined units of labor and capital inputs are derived by combining changes in labor and capital input with weights which represent each component's share of total cost. Combined units of labor, capital, energy, materials, and purchased business services are similarly derived by combining changes in each input with weights that represent each input's share of total costs. The indexes for each input and for combined units are based on changing weights which are averages of the shares in the current and preceding year (the Tornquist index-number formula).

Notes on the data

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

The productivity and associated cost measures in tables 47–50 describe the relationship between output in real terms and the labor and capital inputs involved in its production. They show the changes from period to period in the amount of goods and services produced per unit of input.

Although these measures relate output to hours and capital services, they do not measure the contributions of labor, capital, or any other specific factor of production. Rather, they reflect the joint effect of many influences, including changes in technology; shifts in the composition of the labor force; capital investment; level of output; changes in the utilization of capacity, energy, material, and research and development; the 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 approximating U.S. concepts for the United States, Canada, Australia, Japan, and six European countries. The Bureau adjusts the figures for these selected countries, for all known major definitional differences, to the extent that data to prepare adjustments are available. Although precise comparability may not be achieved, these adjusted figures provide a better basis for international comparisons than the figures regularly published by each country. For further information on adjustments and comparability issues, see Constance Sorrentino, "International unemployment rates: how comparable are they?" Monthly Labor Review, June 2000, pp. 3-20, available on the Internet at www. bls.gov/opub/mlr/2000/06/art1full.pdf.

Definitions

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

Notes on the data

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

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

Some adjustments for comparability are not made because data are unavailable for adjustment purposes. For example, no adjustments to unemployment are usually made for deviations from U.S. concepts in the treatment of persons waiting to start a new job or passive 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 Technical Notes of *Comparative Civilian Labor Force Statistics, 10 Countries,* on the Internet at **www.bls.gov/fls/flscomparelf.htm**, and the Notes of *Unemployment rates in 10 countries, civilian labor force basis, approximating U.S. concepts, seasonally adjusted,* on the Internet at **www.bls.gov/fls/flsjec.pdf**.

FOR ADDITIONAL INFORMATION on

this series, contact the Division of Foreign Labor Statistics: (202) 691–5654 or **flshelp@ bls.gov.**

Manufacturing productivity and labor costs

Description of the series

Table 53 presents comparative indexes of manufacturing output per hour (labor productivity),output, total hours, compensation per hour, and unit labor costs for the United States, Australia, Canada, Japan, the Republic of Korea, Singapore, Taiwan, and 10 European 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.

Definitions

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

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

To preserve the comparability of the U.S.

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

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

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

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

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

Notes on the data

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

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

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 accounts, State motor vehicle fatality records, and follow-up questionnaires to employers.

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

Definition

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

Notes on the data

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

FOR ADDITIONAL INFORMATION on the Census of Fatal Occupational Injuries contact the BLS Office of Safety, Health, and Working Conditions at (202) 691– 6175, or the Internet at: www.bls.gov/iif/

1. Labor market indicators

Solocted indicators		0000	2007	2008				2009				
Selected Indicators	2008	2009	IV	I	Ш	III	IV	Ι	Ш	III	IV	
Employment data												
Employment status of the civilian noninstitutional												
population (household survey): ¹												
Labor force participation rate	66.0	65.4	66.0	66.1	66.1	66.0	65.9	65.7	65.7	65.3	64.9	
Employment-population ratio	62.2	59.3	62.8	62.8	62.6	62.0	61.3	60.3	59.7	59.0	58.4	
Unemployment rate	5.8	9.3	4.8	5.0	5.3	6.0	6.9	8.2	9.3	9.7	10.0	
Men	6.1	10.3	4.9	5.1	5.5	6.4	7.6	9.0	10.4	10.8	11.2	
16 to 24 years	14.4	20.1	12.1	12.7	13.3	14.9	16.5	18.1	19.9	20.7	22.0	
25 years and older	4.8	8.8	3.7	3.9	4.2	5.1	6.1	7.6	8.9	9.4	9.5	
Women	5.4	8.1	4.7	4.8	5.1	5.6	6.2	7.3	8.0	8.3	8.7	
16 to 24 years	11.2	14.9	9.9	10.2	11.0	11.7	11.7	13.2	14.6	15.6	15.9	
25 years and older	4.4	6.9	3.8	3.9	4.1	4.5	5.3	6.2	6.9	7.1	7.5	
Employment, nonfarm (payroll data), in thousands: ¹												
Total nonfarm	136,790	130,912	138,152	137,858	137,285	136,283	134,328	132,070	130,637	129,857	129,547	
Total private	114,281	108,369	115,783	115,419	114,775	113,715	111,767	109,510	108,075	107,377	107,067	
Goods-producing	21,334	18,620	22,043	21,815	21,511	21,092	20,294	19,233	18,503	18,124	17,906	
Manufacturing	13,406	11,883	13,777	13,654	13,528	13,270	12,822	12,212	11,782	11,634	11,529	
Service-providing	115,456	112,292	116,109	116,043	115,774	115,191	114,031	112,837	112,134	111,733	111,641	
Average hours:												
Total private	33.6	33.1	33.8	33.8	33.7	33.5	33.3	33.1	33.0	33.1	33.2	
Manufacturing	40.8	39.8	41.2	41.3	41.0	40.4	39.8	39.4	39.5	39.9	40.6	
Overtime	3.7	2.9	4.1	4.1	3.9	3.5	2.9	2.6	2.8	3.0	3.4	
Employment Cost Index ^{1, 2, 3}												
Total compensation:												
Civilian nonfarm ⁴	2.6	1 5	6	0	7	0	2	4	4	F	2	
Driveto ponform	2.0	1.0	.0	o. 0	./	.0		.4	.4	.5	.5	
	2.4	1.2	.0	.9	.7	.0	.2	.4	.3	.4	.2	
Goods-producing	2.4	1.0	.6	1.0	.7	.4	.3	.4	.3	.2	.2	
Service-providing ⁵	2.5	1.3	.6	.9	.7	.6	.3	.4	.3	.4	.3	
State and local government	3.0	2.4	.7	.5	.5	1.7	.3	.6	.5	1.0	.3	
Workers by bargaining status (private nonfarm):												
Union	2.8	2.9	.7	.8	.8	.7	.6	1.0	.6	.6	.5	
Nonunion	2.4	.9	.6	.9	.7	.6	.2	.3	.2	.3	.2	

 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. Sprise hased on NAICS and SOC became the official informational purposes only. Series based on NAICS and SoC became the official BLS estimates starting in March 2006.

4

Excludes Federal and private household workers. Goods-producing industries include mining, construction, and manufacturing. Service-5 providing industries include all other private sector industries.

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

Selected measures		2009	2007		20	08		2009				
		2005	IV	I	Ш	III	IV	I	Ш	III	IV	
Compensation data ^{1, 2, 3}												
Employment Cost Index—compensation:												
Civilian nonfarm	2.6	1.5	0.6	0.8	0.7	0.8	0.3	0.4	0.4	0.5	0.3	
Private nonfarm	2.4	1.2	.6	.9	.7	.6	.2	.4	.3	.4	.2	
Employment Cost Index—wages and salaries:												
Civilian nonfarm	2.7	1.5	.7	.8	.7	.8	.3	.4	.4	.5	.3	
Private nonfarm	2.6	1.4	.6	.9	.7	.6	.3	.4	.3	.5	.3	
Price data ¹												
Consumer Price Index (All Urban Consumers): All Items	3.8	4	.7	1.7	2.5	0	-3.9	1.2	1.4	.1	.0	
Producer Price Index:												
Finished goods	6.3	-2.5	1.8	2.8	4.2	1	-7.4	.2	3.1	5	1.6	
Finished consumer goods	7.4	-3.8	1.9	3.4	5.2	4	-10.0	.3	4.3	6	1.9	
Capital equipment	2.9	2.0	1.2	.7	.6	1.0	1.9	2	2	3	.7	
Intermediate materials, supplies, and components	10.3	-8.3	2.0	5.0	6.9	.7	-13.6	-2.1	2.8	1.5	.8	
Crude materials	21.6	-30.5	11.9	14.5	14.9	-15.6	-32.1	-7.2	12.3	-3.2	11.3	
Productivity data ⁴												
Output per hour of all persons:												
Business sector	1.9	3.0	1.6	.2	3.1	.3	.8	.2	6.8	7.4	6.5	
Nonfarm business sector	1.8	2.9	2.0	1	3.1	1	.8	.3	6.9	7.2	6.2	
Nonfinancial corporations ⁵	1.9	-	5.3	-2.7	6.9	3.2	-1.4	-7.3	8.4	6.3	-	

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

¹ Annual changes are December-to-December changes. Quarterly changes are calculated using the last month of each quarter. Compensation and price data are not seasonally adjusted, and the price data are not compounded. ² Excludes Federal and private household workers.

 ² Excludes Federal and private nouserious 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

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

⁴ Annual rates of change are computed by comparing annual averages. Quarterly percent changes reflect annual rates of change in quarterly indexes. The data are seasonally adjusted.

⁵ Output per hour of all employees.

3. Alternative measures of wage and compensation changes

		Quar	terly ch	ange		I	Four qu	arters e	nding—	
Components	2008		20	09		2008		20	09	
	IV	Ι	Ш	Ш	IV	IV	I	Ш	III	IV
Average hourly compensation: ¹										
All persons, business sector	2.6	-4.7	6.7	5.9	1.6	2.5	0.9	2.2	2.5	2.2
All persons, nonfarm business sector	2.9	-4.7	6.9	5.5	1.5	2.6	.9	2.3	2.5	2.2
Employment Cost Index—compensation: 2										
Civilian nonfarm ³	.3	.4	.4	.5	.3	2.6	2.1	1.8	1.5	1.5
Private nonfarm	.2	.4	.3	.4	.2	2.4	1.9	1.5	1.2	1.2
Union	.6	1.0	.6	.6	.5	2.8	3.0	2.9	2.9	2.9
Nonunion	.2	.3	.2	.3	.3	2.4	1.8	1.2	.9	.9
State and local government	.3	.6	.5	1.0	.3	3.0	3.1	3.2	2.4	2.4
Employment Cost Index—wages and salaries: ²										
Civilian nonfarm ³	.3	.4	.4	.5	.3	2.7	2.2	1.8	1.5	1.5
Private nonfarm	.3	.4	.3	.5	.3	2.6	2.0	1.6	1.4	1.4
Union	.7	.6	.7	.5	.6	3.2	3.1	2.7	2.6	2.6
Nonunion	.2	.4	.2	.4	.3	2.5	1.9	1.4	1.1	1.2
State and local government	.3	.5	.5	.8	.2	3.1	3.0	3.0	2.1	2.0

1 Seasonally adjusted. "Quarterly average" is percent change from a quarter ago, at an annual rate. 2 The Employment Cost Index data reflect the conversion to the 2002

North American Classification System (NAICS) and the 2000 Standard

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

³ Excludes Federal and private household workers.

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

[Numbers in thousands]

Employment status	Annual a	average	2008						20	09					
Employment status	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL															
Civilian noninstitutional															
population ¹	233,788	235,801	235,035	234,739	234,913	235,086	235,271	235,452	235,655	235,870	236,087	236,322	236,550	236,743	236,924
Participation rate	66.0	65.4	65.8	65.7	65.7	65.6	65.8	65.8	65.7	65.4	65.4	65.1	65.0	64.9	64.6
Employed	145,362	139,877	143,188	142,221	141,687	140,854	140,902	140,438	140,038	139,817	139,433	138,768	138,242	138,381	137,792
Employment-pop-															
ulation ratio ²	62.2 8 924	59.3 14 265	60.9 11.400	60.6 11 919	60.3 12 714	59.9 13 310	59.9 13.816	59.6 14 518	59.4 14 721	59.3 14 534	59.1 1/ 003	58.7 15 159	58.4 15.612	58.5 15 340	58.2 15 267
Unemployed	5.8	9.3	7.4	7.7	8.2	8.6	8.9	9.4	9.5	9.4	9.7	9.8	10,012	10,040	10,207
Not in the labor force	79,501	81,659	80,448	80,599	80,512	80,922	80,554	80,496	80,895	81,519	81,661	82,396	82,696	83,022	83,865
Men, 20 years and over															
Civilian noninstitutional															
population ¹	104,453	105,493	105,083	104,902	104,999	105,095	105,196	105,299	105,412	105,530	105,651	105,780	105,906	106,018	106,125
Civilian labor force	79,047	78,897	79,108	78,769	78,859	78,680	79,106	79,339	79,246	78,984	79,196	78,977	79,024	78,901	78,402
Participation rate	75.7 74 750	74.8 71.341	73 237	72 625	72 266	74.9 71.667	75.2 71.665	75.3 71 552	75.2 71.354	74.8 71 255	75.0 71 142	70.861	74.6	74.4 70.662	73.9
Employment-pop-	,	,	. 0,201	. 2,020	. 2,200	,	. 1,000	,002	. 1,00 .	,200	,	. 0,001	10,002	10,002	. 0,001
ulation ratio ²	71.6	67.6	69.7	69.2	68.8	68.2	68.1	68.0	67.7	67.5	67.3	67.0	66.7	66.7	66.3
Unemployed	4,297	7,555	5,871	6,144	6,593	7,013	7,441	7,787	7,892	7,728	8,055	8,116	8,362	8,239	8,011
Unemployment rate	5.4 25.406	26 596	7.4 25.975	7.8 26.133	26 140	26 / 15	9.4 26.091	9.8 25.961	26 166	9.8 26 547	26 455	26 803	26 882	10.4 27 117	10.2 27 723
	20,400	20,000	20,010	20,100	20,140	20,415	20,001	20,001	20,100	20,547	20,400	20,000	20,002	27,117	21,125
Women, 20 years and over															
Civilian noninstitutional															
population ¹	112,260	113,265	112,825	112,738	112,824	112,908	112,999	113,089	113,189	113,296	113,405	113,522	113,636	113,737	113,832
Civilian labor force	68,382	68,856	68,904 61.1	68,793	68,914	68,972	69,105 61.2	69,060 61.1	68,984	68,910 60.8	68,847	68,686 60 5	68,687	68,742	68,620 60.3
Employed	65.039	63.699	64.744	64.391	64.238	64.110	64.147	63.847	63.741	63.685	63.552	63.280	63.133	63.269	62.998
Employment-pop-							-					-		-	
ulation ratio ²	57.9	56.2	57.4	57.1	56.9	56.8	56.8	56.5	56.3	56.2	56.0	55.7	55.6	55.6	55.3
Unemployed	3,342	5,157	4,160	4,402	4,676	4,863	4,957	5,213	5,243	5,225	5,295	5,406	5,554	5,473	5,622
Not in the labor force	4.9 43.878	44.409	43.921	6.4 43.946	43.910	43.936	43.894	7.5 44.029	7.6 44.205	7.6 44.386	44.558	7.9 44.837	44.949	8.0 44.994	8.2 45.212
	- ,	,	- / -	- ,	-,	-,	- ,	,	,	,	,	,	,	,	- /
Both sexes, 16 to 19 years															
Civilian noninstitutional															
population '	17,075	17,043	17,126	17,098	17,090	17,083	17,076	17,064	17,053	17,044	17,031	17,020	17,008	16,988	16,967
Participation rate	40.2	37.5	38.4	38.5	38.8	38.1	38.1	38.4	38.3	37.9	37.5	36.8	36.1	35.8	35.6
Employed	5,573	4,837	5,207	5,205	5,183	5,077	5,089	5,039	4,943	4,877	4,740	4,627	4,448	4,450	4,403
Employment-pop-															
ulation ratio ²	32.6	28.4	30.4	30.4	30.3	29.7	29.8	29.5	29.0	28.6	27.8	27.2	26.1	26.2	25.9
Unemployed	1,203	24.3	20.8	20.9	21.8	22.0	21.8	23.2	24.3	24.5	25.7	26.1	27.6	26.8	27.1
Not in the labor force	10,218	10,654	10,551	10,519	10,462	10,571	10,569	10,507	10,525	10,586	10,648	10,756	10,865	10,911	10,930
White [®]															
Civilian noninstitutional	190 540	100 002	100.251	100 225	100 221	100 126	100 552	100 667	100 901	100.044	101 096	101 244	101 204	101 516	101 629
Civilian labor force	125.635	125.644	125.792	125.524	125.835	125.659	126.108	126.326	126.088	125.911	126.038	191,244	125.567	125.258	124.605
Participation rate	66.3	65.8	66.1	66.0	66.1	66.0	66.2	66.3	66.1	65.9	66.0	65.7	65.6	65.4	65.0
Employed	119,126	114,996	117,335	116,709	116,427	115,663	115,896	115,451	115,102	114,984	114,784	114,215	113,754	113,669	113,339
Employment-pop-	00.0	00.0	04.0	04.4	04.0	00 7	00.0	00.0	00.0	00.0	00.4	50.7	50.4	50.4	50.4
Linemployed	6 509	10 648	8 458	8 815	9 408	9 996	10 213	10 874	10.986	00.2 10.927	11 254	59.7 11.366	59.4 11 813	59.4 11.589	59.1 11.266
Unemployment rate	5.2	8.5	6.7	7.0	7.5	8.0	8.1	8.6	8.7	8.7	8.9	9.1	9.4	9.3	9.0
Not in the labor force	63,905	65,258	64,559	64,701	64,496	64,777	64,443	64,342	64,713	65,033	65,048	65,663	65,827	66,258	67,024
Black or African American ³															
Civilian noninstitutional															
population ¹	27.843	28.241	28.059	28.052	28.085	28.118	28.153	28.184	28.217	28.252	28.290	28.330	28.369	28.404	28.437
Civilian labor force	17,740	17,632	17,797	17,741	17,692	17,543	17,795	17,716	17,665	17,651	17,596	17,455	17,516	17,660	17,600
Participation rate	63.7	62.4	63.4	63.2	63.0	62.4	63.2	62.9	62.6	62.5	62.2	61.6	61.7	62.2	61.9
Employed	15,953	15,025	15,646	15,463	15,296	15,176	15,119	15,066	15,048	15,050	14,914	14,754	14,763	14,904	14,758
Employment-pop-	57 3	52.2	55.9	55 1	51 5	54.0	53 7	53 5	53.3	53.3	52.7	52.1	52 A	52 F	51.0
Unemployed	1,788	2,606	2,150	2,278	2,396	2,367	2,676	2,650	2,617	2,600	2,682	2,701	2,754	2,757	2,843
Unemployment rate	10.1	14.8	12.1	12.8	13.5	13.5	15.0	15.0	14.8	14.7	15.2	15.5	15.7	15.6	16.2
Not in the labor force	10,103	10,609	10,262	10,311	10,393	10,575	10,358	10,467	10,552	10,601	10,694	10,875	10,853	10,744	10,837

See footnotes at end of table.

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

[Numbers in thousands]

Employment status	Annual	average	2008						20	09					
Employment status	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Hispanic or Latino ethnicity															
Civilian noninstitutional															
population ¹	32,141	32,891	32,649	32,417	32,501	32,585	32,671	32,753	32,839	32,926	33,017	33,110	33,202	33,291	33,379
Civilian labor force	22,024	22,352	22,145	22,004	22,120	22,236	22,403	22,459	22,348	22,540	22,320	22,444	22,492	22,564	22,404
Participation rate	68.5	68.0	67.8	67.9	68.1	68.2	68.6	68.6	68.1	68.5	67.6	67.8	67.7	67.8	67.1
Employed	20,346	19,647	20,056	19,817	19,687	19,664	19,855	19,599	19,609	19,748	19,411	19,595	19,553	19,692	19,513
Employment-pop- ulation ratio ² Unemployed	63.3 1,678 7.6	59.7 2,706 12 1	61.4 2,089 9.4	61.1 2,186 9.9	60.6 2,433 11.0	60.3 2,571 11.6	60.8 2,548 11 4	59.8 2,860 12 7	59.7 2,739 12.3	60.0 2,792 12 4	58.8 2,908 13.0	59.2 2,849 12 7	58.9 2,939 13 1	59.2 2,872 12 7	58.5 2,891 12.9
Not in the labor force	10,116	10,539	10,505	10,414	10,382	10,350	10,268	10,294	10,491	10,386	10,697	10,666	10,710	10,727	10,976

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

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

5. Selected employment indicators, monthly data seasonally adjusted

[In thousands]

Selected externation	Annual	average	2008						20	09					
Selected categories	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Characteristic															
Employed, 16 years and older	145,362	139,877	143,188	142,221	141,687	140,854	140,902	140,438	140,038	139,817	139,433	138,768	138,242	138,381	137,792
Men Women	77,486 67,876	73,670	75,812	75,118	74,756	74,072	74,107 66 794	73,974	73,727 66 311	73,613	73,436	73,120 65 648	72,844	72,794 65 587	72,499
Married mon, spouse	07,070	00,200	07,570	07,105	00,001	00,702	00,734	00,403	00,511	00,203	00,007	00,040	05,550	00,007	05,235
present	45,860	43,998	45,155	44,694	44,449	44,451	44,424	44,214	44,242	43,955	43,847	43,656	43,401	43,336	43,312
Married women, spouse		-													
present	35,869	35,207	35,622	35,347	35,545	35,465	35,438	35,347	35,402	35,321	35,151	34,891	34,736	34,867	35,004
Persons at work part time ¹															
All industries:															
Part time for economic															
reasons	5,875	8,913	8,090	7,897	8,672	9,023	8,888	9,048	8,962	8,808	9,077	9,158	9,240	9,225	9,165
Slack work or business															
conditions	4,169	6,648	6,068	5,833	6,511	6,839	6,699	6,788	6,779	6,831	6,895	6,815	6,882	6,684	6,453
Could only find part-time															
work	1,389	1,966	1,617	1,689	1,771	1,847	1,819	1,917	1,970	1,826	2,065	2,081	2,084	2,238	2,346
Part time for noneconomic															
reasons	19,343	18,710	18,964	18,879	18,861	18,829	18,976	18,848	18,715	18,993	18,768	18,590	18,632	18,354	18,364
Nonagricultural industries:															
Part time for economic															
reasons	5,773	8,791	7,972	7,755	8,584	8,910	8,795	8,894	8,825	8,664	8,946	8,983	9,158	9,137	9,055
Slack work or business															
conditions	4,097	6,556	5,990	5,713	6,455	6,761	6,634	6,670	6,685	6,713	6,797	6,695	6,797	6,616	6,378
Could only find part-time															
work	1,380	1,955	1,616	1,676	1,771	1,848	1,826	1,910	1,964	1,789	2,046	2,063	2,033	2,241	2,349
Part time for noneconomic															
reasons	19,005	18,372	18,647	18,563	18,556	18,494	18,595	18,478	18,358	18,610	18,383	18,251	18,317	18,066	18,056

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.

6. Selected unemployment indicators, monthly data seasonally adjusted

[Unemployment rates]

Colocial actorization	Annual	average	2008						20	09					
Selected categories	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Characteristic															
Total, 16 years and older	5.8	9.3	7.4	7.7	8.2	8.6	8.9	9.4	9.5	9.4	9.7	9.8	10.1	10.0	10.0
Both sexes, 16 to 19 years	18.7	24.3	20.8	20.9	21.8	22.0	21.8	23.2	24.3	24.5	25.7	26.1	27.6	26.8	27.1
Men, 20 years and older	5.4	9.6	7.4	7.8	8.4	8.9	9.4	9.8	10.0	9.8	10.2	10.3	10.6	10.4	10.2
Women, 20 years and older	4.9	7.5	6.0	6.4	6.8	7.1	7.2	7.5	7.6	7.6	7.7	7.9	8.1	8.0	8.2
White, total ¹	5.2	8.5	6.7	7.0	7.5	8.0	8.1	8.6	8.7	8.7	8.9	9.1	9.4	9.3	9.0
Both sexes, 16 to 19 years	16.8	21.8	18.9	18.6	19.3	20.3	20.0	20.7	21.7	22.5	24.3	23.3	25.1	23.0	23.6
Men, 16 to 19 years	19.1	25.2	21.5	22.0	22.4	23.5	22.9	24.6	24.4	26.1	28.1	26.8	28.6	26.0	27.4
Women, 16 to 19 years	14.4	18.4	16.3	15.0	16.3	17.1	17.1	16.6	19.0	18.7	20.2	19.7	21.4	20.0	19.8
Men, 20 years and older	4.9	8.8	6.6	7.0	7.6	8.1	8.5	9.0	9.2	9.1	9.3	9.6	9.9	9.8	9.3
Women, 20 years and older	4.4	6.8	5.7	5.9	6.1	6.5	6.4	6.9	6.8	6.8	7.0	7.1	7.4	7.4	7.4
Black or African American, total ¹	10.1	14.8	12.1	12.8	13.5	13.5	15.0	15.0	14.8	14.7	15.2	15.5	15.7	15.6	16.2
Both sexes, 16 to 19 years	31.2	39.5	33.3	36.8	38.9	33.1	35.1	39.9	38.5	36.2	35.0	41.7	42.1	49.8	48.4
Men, 16 to 19 years	35.9	46.0	35.3	44.4	45.6	41.7	41.7	46.2	44.8	39.2	46.8	50.8	43.6	57.1	52.2
Women, 16 to 19 years	26.8	33.4	31.3	30.1	32.5	26.0	28.2	34.8	33.1	33.5	24.5	32.7	40.7	41.4	44.8
Men, 20 years and older	10.2	16.3	13.8	14.4	15.1	15.6	17.2	16.7	16.4	16.0	17.0	16.5	17.0	16.8	16.6
Women, 20 years and older	8.1	11.5	8.9	9.4	10.1	10.1	11.4	11.3	11.5	11.9	12.2	12.5	12.5	11.7	13.1
Hispanic or Latino ethnicity	7.6	12.1	9.4	9.9	11.0	11.6	11.4	12.7	12.3	12.4	13.0	12.7	13.1	12.7	12.9
Married men, spouse present	3.4	6.6	4.6	5.1	5.6	6.0	6.3	6.7	6.9	6.9	7.1	7.3	7.5	7.5	7.3
Married women, spouse present	3.6	5.5	4.6	4.8	5.2	5.5	5.5	5.6	5.6	5.5	5.5	5.8	5.9	5.7	5.8
Full-time workers	5.8	10.0	7.7	8.1	8.8	9.3	9.6	10.2	10.3	10.2	10.5	10.7	11.1	11.0	10.9
Part-time workers	5.5	6.0	5.9	5.9	5.8	5.9	6.0	6.1	6.0	6.0	6.3	6.4	6.1	5.6	6.0
Educational attainment ²															
Less than a high school diploma	9.0	14.6	11.2	12.4	13.0	13.8	14.9	15.4	15.4	15.3	15.5	15.0	15.5	15.0	15.3
High school graduates, no college ³	5.7	9.7	7.8	8.1	8.4	9.1	9.4	10.0	9.8	9.4	9.8	10.8	11.2	10.4	10.5
Some college or associate degree	4.6	8.0	5.9	6.4	7.1	7.3	7.5	7.8	8.0	8.0	8.2	8.6	9.0	9.0	9.0
Bachelor's degree and higher ⁴	2.6	4.6	3.7	3.9	4.2	4.4	4.4	4.8	4.7	4.7	4.7	4.8	4.7	4.9	5.0

 $^{1}\,$ Beginning in 2003, persons who selected this race group only; persons who

selected more than one race group are not included. Prior to 2003, persons who

reported more than one race were included in the group they identified as the main

race.

² Data refer to persons 25 years and older.

7. Duration of unemployment, monthly data seasonally adjusted

[Numbers in thousands]

Weeks of	Annual	average	2008						20	09					
unemployment	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Less than 5 weeks	2,932	3,165	3,294	3,633	3,364	3,314	3,284	3,219	3,152	3,181	2,992	2,938	3,131	2,774	2,929
5 to 14 weeks	2,804	3,828	3,535	3,622	3,961	4,032	3,962	4,300	3,994	3,539	4,093	3,838	3,671	3,517	3,486
15 weeks and over	3,188	7,272	4,599	4,762	5,369	5,815	6,296	7,013	7,844	7,819	7,849	8,405	8,804	8,976	8,969
15 to 26 weeks	1,427	2,775	1,987	2,073	2,405	2,574	2,571	2,983	3,404	2,847	2,825	2,958	3,184	3,075	2,840
27 weeks and over	1,761	4,496	2,612	2,689	2,964	3,241	3,725	4,030	4,440	4,972	5,024	5,447	5,620	5,901	6,130
Mean duration, in weeks	17.9	24.4	19.6	19.9	20.0	20.8	21.8	22.9	24.4	25.3	25.2	26.5	27.2	28.6	29.1
Median duration, in weeks	9.4	15.1	10.7	10.6	11.4	11.9	13.1	14.9	18.2	15.9	15.5	17.8	19.0	20.2	20.5

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

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

[Numbers in thousands]

Reason for	Annual	average	2008						20	09					
unemployment	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
lob losers ¹	4 700	0.400	0.700	7.054	7.070	0.404	0.007	0.400	0.500	0.540	0.044	40.000	40.004	0.005	0.704
000 103013	4,789	9,160	6,729	7,251	1,010	8,434	0,007	9,428	9,562	9,549	9,814	10,230	10,201	9,965	9,701
On temporary layoff	1,176	1,630	1,550	1,468	1,519	1,581	1,638	1,842	1,741	1,670	1,704	1,918	1,671	1,548	1,558
Not on temporary layoff	3,614	7,530	5,179	5,784	6,359	6,853	7,229	7,586	7,821	7,880	8,110	8,318	8,590	8,418	8,143
Job leavers	896	882	1,007	912	820	884	887	909	822	882	835	869	909	929	932
Reentrants	2,472	3,187	2,802	2,792	2,912	3,017	3,127	3,200	3,322	3,306	3,294	3,255	3,461	3,221	3,334
New entrants	766	1,035	820	792	1,016	881	919	977	969	994	1,096	1,134	1,114	1,270	1,270
Percent of unemployed															
Job losers ¹	53.7	64.2	59.2	61.7	62.4	63.8	64.3	65.0	65.2	64.8	65.3	66.1	65.2	64.8	63.7
On temporary layoff	13.2	11.4	13.6	12.5	12.0	12.0	11.9	12.7	11.9	11.3	11.3	12.4	10.6	10.1	10.2
Not on temporary layoff	40.5	52.8	45.6	49.2	50.4	51.9	52.4	52.3	53.3	53.5	53.9	53.7	54.6	54.7	53.4
Job leavers	10.0	6.2	8.9	7.8	6.5	6.7	6.4	6.3	5.6	6.0	5.6	5.6	5.8	6.0	6.1
Reentrants	27.7	22.3	24.7	23.8	23.1	22.8	22.7	22.0	22.6	22.4	21.9	21.0	22.0	20.9	21.9
New entrants	8.6	7.3	7.2	6.7	8.0	6.7	6.7	6.7	6.6	6.8	7.3	7.3	7.1	8.3	8.3
Percent of civilian															
labor force															
Job losers ¹	3.1	5.9	4.4	4.7	5.1	5.5	5.7	6.1	6.2	6.2	6.4	6.6	6.7	6.5	6.3
Job leavers	.6	.6	.7	.6	.5	.6	.6	.6	.5	.6	.5	.6	.6	.6	.6
Reentrants	1.6	2.1	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.2
New entrants	.5	.7	.5	.5	.7	.6	.6	.6	.6	.6	.7	.7	.7	.8	.8

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]

Sox and ago	Annual	average	2008						20	09					
Sex and age	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total, 16 years and older	. 5.8	9.3	7.4	7.7	8.2	8.6	8.9	9.4	9.5	9.4	9.7	9.8	10.1	10.0	10.0
16 to 24 years	. 12.8	17.6	14.9	15.0	15.8	16.4	16.7	17.5	17.9	18.0	18.3	18.3	19.2	19.1	18.9
16 to 19 years	. 18.7	24.3	20.8	20.9	21.8	22.0	21.8	23.2	24.3	24.5	25.7	26.1	27.6	26.8	27.1
16 to 17 years	. 22.1	25.9	23.7	21.5	23.1	23.9	23.4	23.8	25.5	26.0	26.5	28.2	30.2	28.8	29.9
18 to 19 years	. 16.8	23.4	19.4	20.3	21.2	21.1	21.7	23.2	23.8	23.3	25.2	24.4	25.7	26.1	25.8
20 to 24 years	. 10.2	14.7	12.4	12.4	13.2	14.0	14.6	15.1	15.2	15.3	15.1	15.0	15.6	15.9	15.6
25 years and older	. 4.6	7.9	6.1	6.5	7.0	7.3	7.6	8.1	8.2	8.1	8.4	8.6	8.7	8.5	8.5
25 to 54 years	. 4.8	8.3	6.4	6.9	7.3	7.7	7.9	8.5	8.5	8.4	8.8	9.1	9.2	8.9	8.9
55 years and older	. 3.8	6.6	5.0	5.3	5.7	6.2	6.4	6.7	7.0	6.7	6.8	6.8	7.0	7.1	7.2
Men, 16 years and older	. 6.1	10.3	8.1	8.5	9.0	9.6	10.1	10.5	10.6	10.5	11.0	11.0	11.4	11.2	11.0
16 to 24 years	. 14.4	20.1	17.0	17.3	17.9	19.2	19.6	20.3	19.9	20.3	20.8	20.9	22.2	21.8	22.0
16 to 19 years	. 21.2	27.8	23.2	24.4	25.0	25.9	25.9	27.1	26.5	27.9	29.9	29.9	31.0	30.4	30.9
16 to 17 years	. 25.2	28.7	26.5	26.3	26.6	28.2	26.4	26.5	26.5	28.5	29.6	31.1	33.5	30.5	33.1
18 to 19 years	. 19.0	27.4	21.8	23.3	24.9	24.8	25.7	28.0	27.1	27.3	29.9	28.3	28.9	30.5	30.2
20 to 24 years	. 11.4	17.0	14.4	14.4	14.9	16.5	17.0	17.4	17.2	17.1	17.0	17.2	18.6	18.3	18.4
25 years and older	. 4.8	8.8	6.6	7.1	7.7	8.0	8.5	9.0	9.2	9.1	9.5	9.7	9.7	9.5	9.2
25 to 54 years	. 5.0	9.2	7.0	7.5	8.1	8.4	8.9	9.5	9.6	9.6	10.0	10.3	10.2	10.0	9.6
55 years and older	. 3.9	7.0	5.2	5.5	6.1	6.4	6.8	7.0	7.8	7.4	7.5	7.3	7.8	7.8	7.9
Women, 16 years and older	5.4	8.1	6.6	6.9	7.3	7.6	7.6	8.1	8.3	8.2	8.3	8.5	8.8	8.6	8.8
16 to 24 years	. 11.2	14.9	12.7	12.5	13.6	13.4	13.6	14.5	15.8	15.6	15.6	15.5	15.9	16.2	15.7
16 to 19 years	. 16.2	20.7	18.3	17.3	18.6	18.2	17.6	19.1	22.1	20.9	21.4	22.2	24.0	23.1	23.1
16 to 17 years	19.1	23.1	20.9	16.5	19.9	19.7	20.4	21.2	24.6	23.6	23.3	25.1	26.8	27.1	26.8
18 t0 19 years	14.3	19.4	16.8	17.3	17.3	17.4	17.5	18.0	20.3	19.2	20.2	20.2	22.4	21.5	21.3
20 to 24 years	. 8.8	12.3	10.2	10.3	11.4	11.3	11.8	12.5	12.9	13.2	13.1	12.7	12.4	13.3	12.5
25 years and older	. 4.4	6.9	5.5	5.9	6.2	6.6	6.6	7.0	7.0	7.0	7.1	7.3	7.6	7.3	7.6
25 to 54 years	. 4.6	7.2	5.8	6.1	6.5	6.8	6.8	7.2	7.2	7.2	7.3	7.7	8.0	7.5	8.1
55 years and older ¹	3.7	6.0	4.3	5.4	5.3	5.8	5.4	5.8	6.4	7.1	6.7	6.3	6.1	6.2	5.8

¹ Data are not seasonally adjusted.

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

State	Nov.	Oct.	Nov.	State	Nov.	Oct.	Nov.
oluie	2008	2009 ^p	2009 ^p	otate	2008	2009 ^p	2009 ^p
Alabama	6.2	10.9	10.5	Missouri	6.8	9.3	9.4
Alaska	6.8	8.7	8.4	Montana	4.9	6.4	6.4
Arizona	6.4	9.3	8.9	Nebraska	3.6	4.9	4.6
Arkansas	5.5	7.6	7.4	Nevada	8.0	12.9	12.3
California	8.3	12.5	12.4	New Hampshire	4.1	6.8	6.7
Colorado	5.4	7.0	6.9	New Jersey	6.3	9.7	9.7
Connecticut	6.3	8.8	8.2	New Mexico	4.6	7.8	7.8
Delaware	5.6	8.6	8.6	New York	6.3	9.0	8.6
District of Columbia	8.0	11.9	11.8	North Carolina	7.5	10.9	10.7
Florida	7.2	11.3	11.5	North Dakota	3.2	4.2	4.1
Georgia	7.1	10.1	10.1	Ohio	7.1	10.5	10.6
Hawaii	4.9	7.3	6.8	Oklahoma	4.4	7.3	7.1
Idaho	5.8	9.0	9.1	Oregon	7.8	11.2	10.7
Illinois	6.9	11.0	10.9	Pennsylvania	6.1	8.9	8.5
Indiana	7.0	9.8	9.6	Rhode Island	9.1	12.9	12.7
lowa	4.3	6.6	6.7	South Carolina	8.2	12.0	12.3
Kansas	4.8	6.7	6.4	South Dakota	3.4	5.0	4.9
Kentucky	7.2	11.3	10.6	Tennessee	7.2	10.5	10.2
Louisiana	5.3	7.4	6.7	Texas	5.4	8.3	8.0
Maine	6.2	8.2	8.0	Utah	3.8	6.5	6.3
Maryland	5.1	7.3	7.3	Vermont	5.3	6.5	6.4
Massachusetts	6.1	8.9	8.7	Virginia	4.6	6.6	6.6
Michigan	9.6	15.1	14.7	Washington	6.1	9.3	9.0
Minnesota	6.1	7.6	7.4	West Virginia	4.3	8.5	8.4
Mississippi	7.4	9.8	9.8	Wisconsin	5.4	8.4	8.2
				Wyomina	3.1	7.4	7.2

10. Unemployment rates by State, seasonally adjusted

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

	1						1
	Nov.	Oct.	Nov.		Nov.	Oct.	Nov.
State	2008	2000 ^p	2000 ^p	State	2008	2000 ^p	2000 ^p
	2000	2009	2009		2000	2009	2009
Alabama	2 150 000	2 080 1/0	2 064 495	Missouri	3 013 002	3 000 046	2 990 799
Alaska	2,155,550	2,000,140	2,004,433	Montana	507.037	406 472	407 749
Alaska	2 472 422	2 4 4 2 5 5 4	2 4 4 4 0 6 4	Nebreeke	000,107	430,472	497,740
Arizona	3,172,433	3,142,551	3,144,961	Neuraska	999,107	979,583	981,721
Arkansas	1,374,877	1,369,261	1,377,307	Nevada	1,399,659	1,386,954	1,378,058
California	18,536,742	18,340,446	18,338,695	New Hampshire	738,462	737,980	739,164
Calarada	0 744 540	2 000 555	2 662 060	New Jersey	4 540 400	4 500 050	4 500 606
	2,741,519	2,000,000	2,003,900	New Jersey	4,510,423	4,526,252	4,539,686
Connecticut	1,888,407	1,900,582	1,895,165	New Mexico	964,878	957,693	962,650
Delaware	445,174	428,357	426,713	New York	9,731,708	9,729,641	9,692,492
District of Columbia	332,550	329,809	330,754	North Carolina	4,572,175	4,529,162	4,534,637
Florida	9,315,998	9,183,076	9,210,521	North Dakota	371,465	362,349	362,933
Georgia	4,868,341	4,717,661	4,717,491	Ohio	5,968,907	5,886,475	5,905,692
Hawaii	657,186	645,628	643,502	Oklahoma	1,763,972	1,781,426	1,783,645
Idaho	759,373	753,774	755,245	Oregon	1,977,264	1,953,078	1,946,772
Illinois	6,652,844	6,639,555	6,647,839	Pennsylvania	6,432,891	6,339,778	6,328,949
Indiana	3,236,966	3,107,954	3,108,442	Rhode Island	567,033	569,817	570,649
lowa	1,677,612	1,685,358	1,682,172	South Carolina	2,180,411	2,170,975	2,173,419
Kansas	1,507,088	1,526,472	1,521,896	South Dakota	446,447	446,677	445,723
Kentucky	2,055,583	2,072,191	2,064,336	Tennessee	3,047,058	2,986,985	2,982,649
Louisiana	2,105,168	2,065,775	2,055,096	Texas	11,823,440	12,059,825	12,092,607
Maine	709.121	700,499	702.402	Utah	1.393.949	1.361.012	1.363.377
	,	,	- , -		, ,	1 1-	
Maryland	3,006,457	2,934,716	2,946,776	Vermont	356,472	356,694	359,872
Massachusetts	3,429,595	3,443,540	3,453,832	Virginia	4,163,788	4,134,999	4,139,313
Michigan	4,900,202	4,850,045	4,843,939	Washington	3,515,329	3,543,201	3,514,488
Minnesota	2,947,270	2,950,414	2,963,981	West Virginia	804,331	789,582	790,040
Mississippi	1.317.273	1.281.915	1.283.931	Wisconsin	3.096.819	3.047.729	3.041.399
	,,	, ,,,,,,,,	,,	Wvoming	294,289	291.748	291.638
	1	1	1		00	==:,: 10	,500

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

^p = preliminary

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

la duata.	Annual	average	2008						20	09					
industry	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
TOTAL NONFARM	137,066	131,997	135,074	134,333	133,652	133,000	132,481	132,178	131,715	131,411	131,257	131,118	130,991	130,995	130,910
TOTAL PRIVATE	114,566	109,482	112,542	111,793	111,105	110,457	109,865	109,573	109,182	108,936	108,770	108,670	108,507	108,507	108,443
GOODS-PRODUCING	21,419	18,938	20,532	20,127	19,832	19,520	19,253	19,041	18,829	18,713	18,583	18,488	18,379	18,321	18,240
Natural resources and	774	707	790	701	774	75 4	740	704	701	715	706	705	700	704	702
Logging	57.0	51.8	789 55.7	55.2	54.5	754 51.9	51.4	51.3	51.4	51.1	51.2	51.9	50.5	704 50.7	50.4
Mining	717.0	674.9	733.3	725.3	716.4	701.9	689.0	679.6	669.3	663.8	655.1	653.2	649.9	652.8	652.7
Oil and gas extraction	161.6 227.7	166.6 218.0	169.4 229.2	167.7 227 0	167.8	166.9	167.0	168.1 219.4	166.9	165.5 215.6	165.2	166.1	165.4 212.4	166.2 213.6	166.2 212.6
Coal mining	80.6	80.2	84.5	84.9	84.1	83.3	82.4	81.4	80.3	79.0	78.9	78.5	77.3	76.9	76.4
Support activities for mining	327.7	290.3	334.7	329.7	322.9	312.2	301.6	292.1	285.0	282.7	275.6	272.7	272.1	273.0	273.9
Construction of buildings	7,215	6,234	6,841 1.572.9	6,706 1.536.9	6,593 1.509.5	6,470 1.481.5	6,367	6,310 1.451.2	6,231	6,162	6,096 1,406,1	6,043 1.391.9	5,987 1.381.6	5,960 1.381.1	5,907 1.369.6
Heavy and civil engineering	970.2	866.1	933.2	926.6	919.0	907.2	885.5	876.1	862.1	854.4	849.2	841.2	827.0	829.0	810.6
Speciality trade contractors	4,585.3	3,933.5	4,335.2	4,242.2	4,164.4	4,081.4	4,019.6	3,983.1	3,935.9	3,892.4	3,840.2	3,810.0	3,778.5	3,750.1	3,726.5
Production workers	9,649	8,420	9,174	8,946	8,804	8,654	8,532	8,409	8,316	8,301	8,265	8,243	8,211	8,192	8,164
Durable goods	8,476	7,360	8,085	7,881	7,753	7,620	7,490	7,372	7,271	7,248	7,204	7,169	7,134	7,105	7,089
Production workers	5,986	5,046	5,633	5,458	5,352	5,239	5,130	5,034	4,957	4,957	4,924	4,906	4,882	4,863	4,847
Nonmetallic mineral products	459.0	408.5	410.2	403.9	425.8	417.0	415.5	410.7	406.1	405.5	402.6	400.9	395.7	394.5	395.1
Primary metals	443.3	369.9	419.6	409.3	395.2	386.4	376.2	367.8	360.3	358.8	359.3	357.3	356.8	357.0	357.6
Fabricated metal products	1,528.3	1,320.4	1,461.5	1,425.3	1,399.0	1,370.3	1,344.1	1,325.9	1,308.8	1,295.1	1,288.3	1,280.2	1,275.1	1,270.6	1,269.9
Machinery Computer and electronic	1,100.0	1,024.9	1,100.2	1,120.0	1,100.8	1,070.5	1,001.4	1,032.0	1,010.3	1,003.2	5.186	509.0	301.3	5/4.1	309.0
products ¹ Computer and peripheral	1,247.6	1,147.7	1,223.7	1,212.9	1,196.9	1,187.1	1,171.1	1,156.1	1,142.4	1,134.5	1,125.6	1,120.2	1,114.3	1,108.3	1,105.9
equipment Communications equipment	182.8 129.0	165.1 126.9	180.0 129.1	180.3 129.6	175.5 129.0	173.5 128.5	167.8 127.8	164.2 127.4	162.7 126.5	162.4 126.3	160.5 125.7	160.4 126.1	159.1 125.0	158.1 124.0	157.7 124.4
Semiconductors and															
electronic components	432.4	378.8	417.4	410.5	403.3	397.6	389.2	382.8	375.6	371.0	367.6	365.2	363.7	362.6	362.4
Electronic instruments	441.6	423.3	437.5	433.8	431.9	430.9	431.1	427.2	424.4	422.2	420.0	417.3	415.5	412.7	410.7
Electrical equipment and															
appliances Transportation equipment	424.9 1,606.5	379.2 1,352.2	412.0 1,501.8	406.1 1,423.5	399.1 1,423.7	389.7 1,400.4	382.0 1,365.9	378.4 1,335.3	377.0 1,309.6	374.0 1,339.0	372.3 1,330.0	371.8 1,326.9	368.0 1,326.7	365.1 1,320.1	363.7 1,315.7
Furniture and related															
products	481.0	390.8	440.6	428.6	417.4	408.8	401.0	394.4	388.1	382.7	378.2	374.5	371.5	372.7	370.3
Miscellaneous manufacturing	630.8	593.1	618.4	611.0	604.5	601.1	600.4	597.4	595.1	590.9	587.7	585.8	582.3	580.7	577.4
Production workers	4,955	4,618	4,817	4,759	4,715	4,676	4,656	4,628	4,606	4,588	4,577	4,571	4,558	4,552	4,541
Food manufacturing	1,484.8	1,471.8	1,477.6	1,470.7	1,467.2	1,464.4	1,474.9	1,471.7	1,473.8	1,473.9	1,476.4	1,476.3	1,473.9	1,471.0	1,466.9
Beverages and tobacco															
products	199.0	190.4	195.8	194.2	191.3	191.6	190.9	190.5	190.0	189.4	189.8	189.7	189.8	189.2	188.7
Textile mills	151.0	125.1	136.8	133.6	130.0	128.2	127.3	126.1	124.5	122.5	122.3	121.8	121.1	121.7	122.3
Apparel	198.4	168.3	183.5	178.9	176.3	173.8	169.9	170.2	165.8	166.7	165.4	163.7	163.4	162.7	164.5
Leather and allied products	33.6	30.9	32.6	32.4	31.9	31.7	31.7	31.5	30.8	31.3	30.6	30.2	29.6	29.8	29.9
Paper and paper products	445.8	410.2	433.4	427.3	422.5	418.3	415.1	410.5	409.1	407.2	405.7	405.4	402.1	401.0	397.8
Printing and related support	504.4	504.0	507.0	550.4	540.0	E 44 E	504.4	500.0	500.0	540.4	540 7	544.4	500.0	500.0	500 5
Petroleum and coal products	594.1 117.1	524.3	567.0 116.9	558.1 114.2	549.2 114.6	541.5 114.5	534.4 114.6	529.6	522.8	518.4 114.3	513.7 114.0	511.4 114.2	508.3	503.6 114.2	503.5 112.3
Chemicals	849.8	812.3	837.1	832.7	828.2	823.4	818.9	814.9	811.0	807.4	803.4	802.5	802.3	804.9	801.8
Plastics and rubber products	734.2	642.8	694.9	679.7	669.3	659.0	651.1	641.4	637.1	631.3	630.4	629.5	629.1	630.4	629.3
SERVICE-PROVIDING	115,646	113,059	114,542	114,206	113,820	113,480	113,228	113,137	112,886	112,698	112,674	112,630	112,612	112,674	112,670
PRIVATE SERVICE- PROVIDING	93,146	90,543	92,010	91,666	91,273	90,937	90,612	90,532	90,353	90,223	90,187	90,182	90,128	90,186	90,203
Trade, transportation,	26.205	25 202	05.040	05 705	05 005	0E 470	05 074	25 202	25.050	05 47 4	0E 4.40	25 000	25 001	24.000	24.000
Wholesale trade	26,385	25,263	25,843 5.850.7	25,735	25,605	25,479	25,371	25,308	25,258	25,174	25,146	25,090	25,031	24,999 5.636.7	24,962 5.618.5
Durable goods	3,060.7	2,855.1	2,978.6	2,959.6	2,926.2	2,899.4	2,875.5	2,861.8	2,848.1	2,836.8	2,828.3	2,821.2	2,813.4	2,800.1	2,786.2
Nondurable goods	2,053.0	1,996.7	2,025.1	2,013.9	2,006.6	2,002.5	1,997.7	1,996.6	1,994.0	1,992.2	1,991.6	1,990.5	1,988.7	1,992.8	1,987.4
Electronic markets and							a						a ·		
agents and brokers	850.1	841.6	847.0	845.8 14 901 5	840.9	839.4 14 872 4	837.6	837.3	838.2	837.8	841.1 14 726 1	842.4	845.2	843.8 14 633 2	844.9 14 623 0
Motor vehicles and parts	10,000.0	14,114.2	10,001.9	1-1,091.0	17,004.0	17,072.4	1,033.7	,	G.181,F	14,747.0	,,,∠0.1	,000.4	14,040.7		17,023.0
deplore1	1 844 5	1 684 0	1 745 6	1 730 1	1 716 8	1 701 8	1 690 2	1 681 6	1 673 0	1 669 9	1 674 7	1 668 /	1 668 /	1 667 /	1 669 8
Automobile dealers	1,186.0	1,052.9	1,099.9	1,088.6	1,078.7	1,067.7	1,057.1	1,050.2	1,042.6	1,040.4	1,045.6	1,040.7	1,041.1	1,043.0	1,045.3
Furniture and home															
furnishings stores	542.8	488.5	514.2	508.3	499.7	497.7	492.4	486.3	484.7	483.9	479.6	480.0	481.6	483.6	482.9
Electronics and appliance															
stores	549.6	516.2	538.6	535.5	533.7	518.6	518.0	517.0	515.7	513.1	513.0	511.5	507.3	505.7	505.4

See notes at end of table.

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

Industry	Annual	average	2008						20	09					
industry	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
Building material and garden															
supply stores	1,253.1	1,181.3	1,227.8	1,214.9	1,207.1	1,193.5	1,189.3	1,186.3	1,181.1	1,175.3	1,169.7	1,167.8	1,164.8	1,164.6	1,168.1
Health and personal care	2,000.4	2,010.0	2,000.1	2,000.0	2,020.0	2,027.0	2,020.0	2,020.0	2,020.0	2,020.0	2,021.4	2,010.4	2,000.0	2,001.0	2,700.1
stores	1,002.4	983.0	991.2	985.7	986.9	985.0	984.2	984.7	984.3	984.1	982.2	976.5	978.7	976.9	980.6
Gasoline stations	. 843.4	830.4	834.4	833.0	832.1	830.4	831.1	829.0	829.9	830.3	834.4	830.1	830.5	825.6	826.1
Clothing and clothing	1 404 2	1 4 2 4 2	1 1 1 9 5	1 445 0	1 1 1 2 0	1 1 2 2 1	1 422 7	1 126 0	1 4 20 1	1 414 4	1 410 0	1 /11 2	1 /16 2	1 4 2 1 4	1 1 2 1 1
	1,404.2	1,424.2	1,440.5	1,445.0	1,443.0	1,433.4	1,432.7	1,420.0	1,420.1	1,414.4	1,410.9	1,411.3	1,410.2	1,421.4	1,421.1
book, and music stores	646.7	602.6	624.3	620.8	613.6	610.0	608.8	607.0	605.1	605.4	601.8	604.5	589.7	586.6	586.1
General merchandise stores1	3,047.1	3,026.3	3,029.2	3,040.7	3,040.7	3,045.5	3,041.2	3,041.8	3,045.1	3,032.8	3,025.7	3,019.1	2,996.1	2,999.5	2,984.7
Department stores Miscellaneous store retailers	1,557.0 847.8	1,524.1 802.0	1,521.2	1,529.1 819.5	1,532.6 815.1	1,530.9 810.4	1,524.0	1,526.0 805.8	1,528.6 804.8	1,523.3 797.6	1,524.2	1,524.4	1,510.2 791.2	1,515.9 790.4	1,510.3 788.0
Nonstore retailers	436.3	416.1	424.0	422.7	418.8	418.5	417.6	417.3	418.0	416.7	415.2	412.9	412.3	409.6	412.1
Transportation and															
warehousing	4,505.0	4,227.9	4,389.9	4,354.4	4,327.0	4,295.5	4,251.7	4,233.5	4,218.4	4,193.9	4,192.3	4,182.2	4,168.5	4,161.7	4,153.7
Rail transportation	. 492.0	214.8	226.8	227.1	224.1	220.7	217.9	214.6	212.2	212.2	213.0	211.5	209.9	208.0	208.7
Water transportation	65.2	57.6	60.3	59.7	60.9	59.6	58.1	57.2	56.5	55.7	56.3	56.5	56.7	56.9	57.7
I ruck transportation	1,391.1	1,275.6	1,340.8	1,323.3	1,313.9	1,300.3	1,283.2	1,277.4	1,269.5	1,264.6	1,261.2	1,261.7	1,253.5	1,249.9	1,246.6
Transit and ground passenger transportation	418.1	404 7	410.1	408.1	406.4	406.2	401.8	405.4	413.0	407.0	405.4	400.5	400 5	402.6	400.7
Pipeline transportation	42.0	42.8	43.3	43.1	43.1	43.0	43.0	42.5	42.3	41.8	42.4	43.2	43.3	43.0	42.7
Scenic and sightseeing															
transportation	. 28.0	27.3	27.2	26.9	27.0	27.0	27.2	28.5	27.7	28.7	28.1	28.1	26.7	26.1	25.9
Support activities for															
transportation	. 589.9 575.9	543.0 552.4	579.5 564.6	569.3 563.2	561.0 563.7	554.6 558.5	550.3 556.0	545.6 550.5	537.8 551.5	532.5 547.8	533.0 549.0	534.6 545.5	532.7 547.0	533.7 545.6	532.4 544.5
Warehousing and storage	672.8	644.0	659.5	656.9	652.1	651.6	647.4	645.1	644.0	640.7	640.4	638.9	636.2	636.4	637.3
Utilities	. 559.5	568.0	564.6	569.3	570.0	570.1	568.5	567.5	567.8	566.1	566.5	567.5	568.1	567.4	566.5
Information	2,997	2,856	2,940	2,924	2,918	2,905	2,884	2,858	2,845	2,834	2,829	2,828	2,826	2,812	2,806
Publishing industries, except Internet	882.6	803.4	857.8	846.3	836.3	827.8	820.1	808.6	801.8	795.6	788.5	787.3	781.0	777.3	773.6
Motion picture and sound															
recording industries	381.6	385.6	377.2	376.7	389.8	393.7	389.5	381.3	379.3	380.3	384.3	385.0	389.3	385.6	388.3
Broadcasting, except Internet.	315.9	293.4	308.1	306.5	302.5	299.0	296.3	294.2	291.9	290.2	288.7	289.6	288.3	290.3	287.6
Internet publishing and															
Telecommunications	1,021.4	983.4	1,004.0	1,001.6	999.5	996.7	989.3	986.4	981.6	978.2	976.7	975.0	976.0	969.4	965.9
ISPs, search portals, and															
data processing	261.6	254.9	256.4	257.0	254.6	253.9	255.5	253.8	254.4	254.8	256.9	255.8	254.7	253.5	254.2
Other information services	. 133.6	135.2	136.5	135.7	134.8	134.1	133.7	133.2	135.5	135.3	134.3	135.1	136.6	136.0	135.9
Finance and insurance	6,015.2	5,771.6	5,924.0	5,890.4	5,853.9	5,829.5	5,799.6	5,781.6	5,760.5	5,748.0	5,729.8	5,720.9	5,718.7	5,714.6	5,724.5
Monetary authorities-															
central bank	. 22.2	20.5	21.3	21.0	20.9	20.8	20.5	20.3	20.3	20.2	20.3	20.3	20.6	20.4	20.4
Credit intermediation and															
related activities ¹	. 2,735.8	2,611.6	2,680.8	2,665.3	2,648.8	2,635.4	2,619.8	2,613.5	2,604.0	2,602.1	2,594.4	2,589.1	2,589.1	2,589.8	2,593.6
Depository credit															
intermediation ¹	. 1,819.5 1,359.9	1,775.4	1,804.9	1,798.1	1,790.9	1,783.4	1,778.0	1,774.4	1,772.7	1,770.0	1,767.4	1,766.1	1,765.7	1,768.6	1,769.2
Securities commodity	.,	.,	.,	.,	.,	.,	.,	.,	.,	.,	.,	.,	.,	.,	.,
contracts, investments	858.1	791.3	839.9	826.5	814.9	805.8	797.0	791.7	786.4	782.3	780.5	777.8	778.6	775.7	779.5
Insurance carriers and															
related activities	2,308.8	2,260.8	2,292.0	2,287.4	2,281.1	2,279.4	2,274.3	2,268.3	2,261.9	2,256.5	2,247.6	2,247.2	2,244.0	2,242.6	2,245.3
Funds, trusts, and other															
financial vehicles	. 90.3	87.4	90.0	90.2	88.2	88.1	88.0	87.8	87.9	86.9	87.0	86.5	86.4	86.1	85.7
Real estate and rental	2 1 2 0 2	2 001 1	2 095 9	2 062 2	2 0 4 2 9	2 0 2 7 0	2 011 7	2 002 7	1 000 6	1 000 6	1 09 4 2	1 092 2	1 079 2	1 076 5	1 070 4
Real estate	. 1,481.1	1,407.9	1,458.2	1,444.9	1,432.4	1,421.9	1,411.9	1,405.1	1,396.3	1,396.4	1,394.9	1,399.0	1,396.9	1,400.6	1,395.2
Rental and leasing services	620.9	565.4	599.3	589.9	583.2	576.6	571.5	569.2	566.5	564.6	562.1	555.9	553.9	548.5	547.8
Lessors of nonfinancial															
intangible assets	. 28.2	27.9	28.3	28.4	28.2	28.5	28.3	28.4	27.8	27.6	27.3	27.4	27.5	27.4	27.4
Professional and business	47 770	40 707	47.050	47.005	47.000	40.040	40 700	40 750	40.055	40.004	40.040	40.040	40.075	40 704	40.044
Professional and technical	. 17,778	16,787	17,356	17,205	17,029	16,910	16,783	16,756	16,655	16,624	16,618	16,642	16,675	16,764	16,814
convices ¹	7,829.7	7,640.1	7,797.2	7,765.5	7,729.2	7,697.9	7,670.7	7,652.4	7,615.6	7,598.9	7,587.8	7,588.5	7,588.4	7,596.5	7,605.3
Legal services	1,163.7	1,131.7	1,156.8	1,154.1	1,148.7	1,144.9	1,139.4	1,136.9	1,131.7	1,128.2	1,127.2	1,124.8	1,118.7	1,116.2	1,114.1
Accounting and bookkeeping															
services	950.1	932.5	933.7	927.5	924.4	929.5	929.3	938.0	936.8	934.8	938.0	932.0	935.6	929.1	926.5
Architectural and engineering		1 0 40 0	1 440 -		1 004 0	4 077 0	1 204 4	1 050 0	1.005.0	4 004 5	1 200 2	1 200 0	1 0 1 0 0	4 000 0	1 00 1 0
Services	1,444.8	1,346.0	1,419.4	1,411.1	1,394.2	1,377.9	1,364.1	1,350.3	1,335.9	1,324.5	1,320.9	1,322.2	1,318.8	1,320.2	1,324.2

See notes at end of table

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

	Annual average		2008	2009											
Industry	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
								-			-			_	
Computer systems design and related services	1,450.3	1,464.7	1,466.8	1,462.4	1,463.7	1,459.2	1,460.4	1,457.0	1,456.0	1,462.6	1,461.3	1,465.6	1,471.8	1,473.7	1,477.1
Management and technical consulting services	1,008.9	1,020.1	1,020.5	1,025.7	1,021.6	1,016.0	1,016.7	1,017.9	1,015.7	1,014.9	1,015.3	1,016.6	1,024.4	1,030.4	1,033.9
Management of companies and enterprises	1,894.6	1,829.3	1,872.1	1,871.7	1,862.1	1,852.6	1,840.2	1,829.9	1,823.8	1,819.7	1,816.4	1,810.8	1,807.5	1,806.3	1,804.0
Administrative and waste	0.050.7	7 047 0	7 000 0	7 507 5	7 407 0	7 050 4	7 070 0	7 074 0	7.045.0	7 005 0	70444	7.040.0	7 070 0	7 004 4	7 404 0
Administrative and support	8,053.7	7,317.8	7,080.3	7,007.0	7,437.8	7,359.4	1,212.3	7,274.0	7,215.2	7,205.8	7,214.1	7,242.9	1,219.3	7,301.4	7,404.3
services ¹	7,693.5	6,955.0	7,324.4	7,203.1	7,076.5	6,999.2	6,911.7	6,912.7	6,854.3	6,843.7	6,851.6	6,877.8	6,914.9	6,996.9	7,039.3
Employment services ¹	3,144.4	2,547.9	2,829.5	2,720.5	2,638.7	2,567.0	2,506.4	2,501.9	2,470.3	2,459.5	2,465.6	2,486.9	2,529.5	2,594.6	2,650.3
Temporary help services	2,342.6	1,818.9	2,055.6	1,965.7	1,892.7	1,835.4	1,781.5	1,780.6	1,750.9	1,745.2	1,748.4	1,765.6	1,809.9	1,865.1	1,911.6
Business support services Services to buildings	823.2	791.7	816.0	817.6	805.0	799.1	792.9	790.5	783.8	783.9	784.5	787.0	785.6	789.4	784.9
and dwellings	1,847.0	1,777.2	1,818.1	1,812.5	1,796.8	1,791.5	1,778.7	1,786.1	1,771.2	1,769.8	1,765.3	1,764.8	1,763.0	1,766.5	1,763.3
Waste management and remediation services	360.2	362.7	361.9	364.4	361.3	360.2	360.6	361.3	360.9	362.1	362.5	365.1	364.4	364.5	365.0
Educational and health															
services	18,855 3,036.6	19,272 3,082.8	19,080 3,063.1	19,119 3,088.4	19,138 3,083.1	19,158 3,077.9	19,175 3,077.4	19,215 3,077.6	19,248 3,082.0	19,262 3,072.2	19,312 3,077.7	19,348 3,074.3	19,384 3,084.6	19,421 3,095.1	19,456 3,105.9
Health care and social assistance	15 818 5	16 189 1	16 017 0	16 030 3	16 054 7	16 080 1	16 097 8	16 137 7	16 166 1	16 190 2	16 233 8	16 273 2	16 299 6	16 325 5	16 350 2
Ambulatory health care	10,010.0	10,100.1	10,01110	10,000.0	10,00 111	10,000.1	10,00110	10,10111	10,10011	10,100.2	10,200.0	10,210.2	10,200.0	10,020.0	10,00012
services ¹	5,660.7	5,836.3	5,742.6	5,753.3	5,770.1	5,779.8	5,794.1	5,812.9	5,830.6	5,842.0	5,855.8	5,873.4	5,885.2	5,899.0	5,921.8
Offices of physicians	2,265.7	2,324.8	2,294.5	2,300.4	2,304.4	2,308.0	2,310.5	2,314.6	2,321.9	2,329.8	2,335.3	2,339.0	2,339.1	2,340.3	2,349.2
Outpatient care centers	532.5	542.3	536.7	538.0	538.5	537.7	538.7	539.3	543.5	542.0	543.8	543.6	548.0	547.1	549.6
Home health care services	958.0	1,018.5	980.7	981.4	991.0	996.7	1,004.5	1,013.3	1,016.7	1,018.2	1,022.6	1,030.7	1,038.8	1,046.9	1,054.9
Hospitals	4,641.1	4,723.1	4,703.7	4,707.5	4,711.3	4,715.1	4,716.7	4,719.1	4,718.9	4,722.4	4,723.9	4,729.6	4,735.8	4,739.9	4,741.3
care facilities 1	3,008.1	3,059.7	3,029.6	3,029.4	3,033.6	3,041.0	3,042.8	3,049.1	3,056.3	3,064.7	3,073.6	3,076.1	3,081.3	3,082.5	3,079.8
Nursing care facilities	1,613.7	1,629.5	1,617.3	1,616.6	1,617.9	1,621.8	1,624.5	1,626.8	1,628.9	1,631.4	1,634.9	1,636.5	1,637.8	1,636.1	1,636.2
Social assistance 1	2,508.7	2,570.1	2,541.1	2,540.1	2,539.7	2,544.2	2,544.2	2,556.6	2,560.3	2,561.1	2,580.5	2,594.1	2,597.3	2,604.1	2,607.3
Child day care services	859.2	856.8	864.3	862.7	860.4	858.2	853.9	860.3	854.3	845.9	856.3	859.4	856.4	857.0	856.2
Leisure and hospitality	13,459	13,180	13,304	13,268	13,236	13,202	13,168	13,195	13,176	13,177	13,163	13,176	13,134	13,121	13,096
Arts, entertainment, and recreation	1,969.3	1,910.2	1,947.1	1,943.8	1,936.2	1,928.7	1,900.6	1,901.8	1,885.5	1,897.8	1,893.2	1,922.8	1,900.8	1,900.0	1,890.8
Performing arts and spectator sports	406.3	397.4	401.4	405.7	398.6	400.5	392.9	396.8	393.8	400.0	395.2	399.1	399.1	394.7	392.0
Museums historical sites															
zoos, and parks	131.8	131.0	130.8	130.3	130.9	130.6	130.5	130.9	130.8	130.5	131.0	131.4	131.2	130.7	131.2
Amusements, gambling, and recreation	1,431.2	1,381.8	1,414.9	1,407.8	1,406.7	1,397.6	1,377.2	1,374.1	1,360.9	1,367.3	1,367.0	1,392.3	1,370.5	1,374.6	1,367.6
Accommodations and															
food services Accommodations	11,489.3 1,857.3	11,269.7 1,723.0	11,356.5 1,794.3	11,323.7 1,768.4	11,299.7 1,754.7	11,273.2 1,732.7	11,267.0 1,723.6	11,293.6 1,728.7	11,290.0 1,721.0	11,278.8 1,715.5	11,269.5 1,714.4	11,253.6 1,709.8	11,232.9 1,703.2	11,221.4 1,698.3	11,204.8 1,696.9
Food services and drinking places	9.632.0	9.546.6	9.562.2	9.555.3	9.545.0	9.540.5	9.543.4	9.564.9	9.569.0	9.563.3	9.555.1	9.543.8	9.529.7	9.523.1	9.507.9
Other services	5,528	5,412	5,477	5,461	5,449	5,426	5,420	5,416	5,420	5,415	5,405	5,395	5,381	5,378	5,374
Repair and maintenance	1,228.2	1,160.7	1,189.9	1,184.7	1,177.3	1,166.3	1,163.7	1,158.4	1,157.8	1,155.1	1,154.3	1,150.6	1,150.7	1,153.9	1,154.4
Personal and laundry services	1,326.6	1,295.5	1,320.9	1,313.6	1,312.5	1,302.4	1,297.3	1,293.3	1,298.4	1,296.1	1,293.4	1,289.6	1,284.5	1,283.5	1,280.4
organizations	2,973 3	2,955 7	2,965 7	2,963 1	2,958 7	2,956.8	2,958.6	2,964 3	2,963 9	2,963.4	2,956.8	2,955 1	2,945.6	2,940.3	2,939.3
Government	22 500	22 516	22 532	22 540	22 547	22 543	22 616	22 605	22 533	22 475	22 487	22 448	22 484	22 488	22 467
Federal	2,764	2,830	2,778	2,793	2,796	2,808	2,876	2,860	2,817	2,826	2,825	2,827	2,844	2,839	2,830
Federal, except U.S. Postal															
Service	2,016.8	2,126.3	2,057.3	2,065.8	2,071.0	2,086.0	2,154.6	2,150.2	2,111.1	2,120.9	2,129.3	2,137.0	2,161.0	2,163.7	2,167.0
U.S. Postal Service	747.5	703.4	720.9	726.9	724.9	721.7	721.0	709.5	705.9	705.4	695.8	689.5	683.3	675.7	663.1
State	5,178	5,182	5,196	5,192	5,192	5,186	5,189	5,189	5,174	5,149	5,172	5,173	5,179	5,180	5,177
Education	2,359.0	2,384.1	2,381.3	2,380.2	2,382.3	2,379.9	2,385.5	2,386.2	2,377.9	2,357.2	2,377.3	2,375.8	2,389.3	2,395.5	2,393.6
Uther State government	2,818.9	2,798.0	2,814.8	2,811.6	2,809.4	2,805.9	2,803.5	2,802.5	2,796.3	2,791.4	2,794.3	2,796.7	2,789.9	2,784.6	2,783.0
Education	8 075 0	8 020 4	8 060 5	8 070 7	8 076 7	8 070 7	14,551 8 004 4	8 079 0	8 070 0	14,500 8 015 0	8 007 0	7 000 0	8 020 0	8 02 4 7	14,400 8 022 E
Other local government.	6,481.8	6,464.6	6,497.7	6,484.7	6,482.5	6,469.8	6,469.2	6.478.3	6,471.3	6,484.6	6,481.7	6,459.1	6,441.4	6,434.1	6,426.0
Joronnonnin	2, 101.0	2, 100	-,	-, /0/	-, .02.0	2, .00.0	-,	-,	-,	-,	-,	-,	÷,+	-,	-, .20.0

 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

	Annual	average	2008						20	09					
Industry	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
TOTAL PRIVATE	33.6	33.1	33.3	33.3	33.3	33.1	33.1	33.1	33.0	33.1	33.1	33.1	33.0	33.2	33.2
GOODS-PRODUCING	40.2	39.2	39.4	39.3	39.2	38.9	39.0	39.0	39.0	39.3	39.4	39.3	39.1	39.6	39.6
Natural resources and mining	45.1	43.3	44.3	44.2	43.9	43.4	43.0	43.3	43.3	42.9	43.3	43.2	42.8	43.2	43.5
Construction	38.5	37.6	38.0	37.9	38.0	37.7	37.5	37.6	37.6	37.8	37.9	37.5	36.9	37.7	37.7
Manufacturing Overtime hours	40.8 3.7	39.8 2.9	39.9 2.9	39.8 2.9	39.5 2.7	39.4 2.6	39.6 2.7	39.4 2.8	39.5 2.8	39.9 2.9	39.9 3.0	40.0 3.0	40.1 3.2	40.4 3.4	40.4 3.4
Durable goods	41.1	39.8	40.0	39.8	39.6	39.3	39.5	39.4	39.4	39.9	39.9	40.1	40.2	40.5	40.5
Wood products	39.6	2.7	2.0	2.7	2.5	2.4	2.5	2.0	2.0	2.7	2.0	2.0	27.9	29.1	39.4
Nonmetallia mineral producto	42.1	40.9	40.0	40.2	40.0	20.9	40.2	30.9 40 E	40.9	31.1 41 E	41.2	41.1	40.0	41.0	40.4
Primany motals	42.1	40.0	40.9	40.2	40.0	40.1	40.2	40.0	40.0	41.5	41.5	41.1	40.0	41.5	40.1
Fabricated metal products	42.2	30 /	40.3	30.7	30.5	30.0	30.2	30.2	30.7	30.1	39.5	30 /	30.6	39.6	30.0
Machinony	41.5	40.1	40.3	40.0	40.6	40.1	40.1	20.0	20.9	20.0	39.5	39.4	40.2	40.5	40.7
Computer and electronic products	42.5	40.1	41.1	40.9	40.0	30.0	40.1	40.0	40.0	40.2	40.5	40.5	40.2	40.5	40.7
Electrical equipment and appliances	41.0	40.4	40.4 20.7	40.7	40.0	39.9	40.Z	20.2	20.0	40.Z	40.5	40.5	40.0 20.5	40.0	40.0
Transportation aquipment	40.9	J9.J	40.0	40.4	40.1	40.0	40.6	40.0	40.4	41.0	JJ.1 11.6	42.0	42.0	40.0	12.1
Euroiture and related products	42.0	27.9	40.9	27.7	27 /	40.0	27.6	27.9	27.9	27.0	37.5	42.0	42.0	42.Z	39.6
Miscellaneous manufacturing	38.9	38.4	38.3	38.4	38.2	38.2	38.3	38.0	37.9	38.3	38.6	38.6	38.6	39.0	38.9
Nondurable goods.	40.4	39.7	39.7	39.7	39.5	39.4	39.6	39.6	39.6	39.8	39.9	39.9	40.0	40.1	40.2
Overtime hours.	3.7	3.2	3.1	3.2	3.0	3.0	3.1	3.2	3.2	3.3	3.3	3.3	3.5	3.6	3.6
Food manufacturing.	40.5	40.0	39.8	40.1	39.9	40.1	40.1	40.0	39.9	39.6	40.1	39.9	40.0	40.2	40.2
Beverage and tobacco products	38.8	36.0	36.7	37.0	37.0	36.2	35.8	36.5	35.3	35.0	35.4	35.9	36.2	36.1	36.3
Textile mills.	38.7	37.7	37.0	37.1	36.4	36.3	36.9	36.8	37.8	37.6	37.9	37.9	38.9	39.7	39.3
Textile product mills	38.6	37.8	37.1	37.0	37.1	37.0	37.5	38.3	38.0	38.4	38.1	38.3	38.1	37.8	38.1
Apparel	36.4	36.0	36.0	36.0	35.6	36.1	36.1	36.1	35.6	36.2	35.6	36.0	36.1	36.3	36.1
Leather and allied products	37.5	33.5	34.7	34.0	33.3	32.8	32.4	32.0	32.0	33.3	33.7	33.2	34.8	35.8	35.1
Paper and paper products	42.9	41.8	41.9	41.6	41.5	41.1	41.4	41.2	41.8	42.2	42.0	42.4	42.1	42.2	41.9
Printing and related support															
activities	38.3	38.0	38.0	37.7	37.3	37.5	37.7	37.6	38.1	38.5	38.7	38.4	38.2	38.3	38.3
Petroleum and coal products	44.6	43.5	45.3	45.1	43.8	44.3	43.8	43.4	43.4	43.2	44.1	43.0	42.1	42.7	43.2
Chemicals	41.5	41.3	41.1	41.1	41.1	40.9	41.0	41.1	41.2	41.6	41.4	41.4	41.7	41.7	41.9
Plastics and rubber products	41.0	40.2	40.0	39.9	39.6	39.4	39.8	39.8	39.8	40.4	40.3	40.6	40.7	40.9	41.0
PRIVATE SERVICE-															
PROVIDING	32.3	32.1	32.2	32.2	32.1	32.1	32.0	32.0	31.9	32.0	32.0	32.0	32.0	32.1	32.1
Trade, transportation, and															
utilities	33.2	32.9	32.9	32.9	32.8	32.7	32.8	32.9	32.8	32.8	32.8	32.8	32.9	32.9	32.9
Wholesale trade	38.2	37.6	37.8	38.1	37.9	37.8	37.8	37.6	37.6	37.4	37.5	37.4	37.5	37.6	37.6
Retail trade	30.0	29.8	29.7	29.7	29.8	29.7	29.8	29.9	29.8	29.8	29.8	29.8	29.9	29.9	29.9
Transportation and warehousing	36.4	36.1	36.2	36.0	35.7	35.7	35.8	36.0	35.8	36.3	36.1	36.4	36.3	36.4	36.6
Utilities	42.7	42.1	42.9	42.6	43.2	42.4	42.3	42.1	41.9	41.9	41.9	41.5	41.7	41.9	41.7
Information	36.7	36.6	37.0	37.2	36.9	36.7	36.4	36.5	36.4	36.4	36.4	36.4	36.3	36.7	36.5
Financial activities	35.8	36.1	35.9	36.2	36.2	36.1	36.0	36.0	35.9	35.9	36.1	35.9	36.0	36.1	35.9
Professional and business															
services	34.8	34.7	34.8	34.9	34.8	34.7	34.7	34.7	34.6	34.6	34.7	34.7	34.7	34.9	34.8
Education and health services	32.5	32.3	32.4	32.4	32.3	32.4	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.3
Leisure and hospitality	25.2	24.8	25.0	24.8	25.0	24.8	24.8	24.7	24.7	24.7	24.6	24.8	24.6	24.8	24.8
Other services	30.8	30.5	30.6	30.7	30.6	30.5	30.5	30.5	30.3	30.4	30.5	30.5	30.5	30.5	30.5
	00.0	00.0	00.0	00.1	00.0	00.0	00.0	00.0	00.0	00.4	00.0	00.0	00.0	00.0	00.0

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.

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 duction (Annual	average	2008						20	09					
industry	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
TOTAL PRIVATE															
Current dollars	\$18.08	\$18.60	\$18.40	\$18.43	\$18.46	\$18.50	\$18.50	\$18.53	\$18.54	\$18.59	\$18.66	\$18.68	\$18.74	\$18.77	\$18.80
Constant (1982) dollars	8.30	8.60	8.65	8.64	8.61	8.64	8.65	8.65	8.57	8.59	8.58	8.57	8.57	8.54	8.54
GOODS-PRODUCING	19.33	19.89	19.69	19.72	19.78	19.85	19.82	19.84	19.85	19.92	19.92	19.92	20.00	20.04	20.03
Natural resources and mining	22.50	23.22	23.23	23.14	23.14	23.33	23.38	23.26	23.28	23.23	23.21	23.14	23.33	23.18	23.27
Construction	21.87	22.61	22.41	22.43	22.42	22.59	22.55	22.59	22.58	22.60	22.63	22.50	22.84	22.80	22.77
Manufacturing	. 17.74	18.21	17.96	17.99	18.07	18.10	18.11	18.11	18.13	18.27	18.27	18.36	18.35	18.41	18.40
Excluding overtime	16.97	17.57	17.33	17.36	17.47	17.52	17.51	17.49	17.51	17.63	17.61	17.70	17.65	17.67	17.66
Durable goods	. 18.70	19.32	18.94	18.99	19.09	19.17	19.18	19.23	19.22	19.44	19.41	19.49	19.52	19.59	19.59
Nondurable goods	. 16.15	16.55	16.39	16.43	16.49	16.46	16.49	16.45	16.54	16.54	16.60	16.70	16.63	16.68	16.66
PRIVATE SERVICE-PRIVATE SERVICE-															
PROVIDING	. 17.77	18.32	18.10	18.14	18.17	18.20	18.21	18.24	18.25	18.30	18.39	18.41	18.47	18.50	18.54
Trade,transportation, and															
utilities	16.16	16.48	16.31	16.36	16.38	16.38	16.38	16.42	16.38	16.41	16.54	16.53	16.58	16.63	16.69
Wholesale trade	. 20.14	20.89	20.31	20.41	20.52	20.59	20.70	20.87	20.79	20.86	20.99	21.05	21.14	21.29	21.45
Retail trade	12.87	13.03	12.94	12.97	12.96	12.97	12.96	12.97	12.96	12.98	13.10	13.09	13.08	13.11	13.15
Transportation and warehousing	18.41	18.66	18.66	18.72	18.67	18.68	18.62	18.63	18.54	18.58	18.67	18.61	18.76	18.73	18.75
Utilities	28.84	29.62	29.16	29.22	29.67	29.31	29.29	29.45	29.44	29.48	29.79	29.71	29.79	30.02	30.12
Information	. 24.77	25.45	24.91	24.98	25.09	25.31	25.28	25.41	25.45	25.42	25.61	25.52	25.66	25.81	25.85
Financial activities	. 20.27	20.79	20.53	20.53	20.55	20.62	20.64	20.75	20.78	20.75	20.85	20.90	20.98	21.05	21.14
Professional and business															
services	21.19	22.37	21.97	22.04	22.17	22.26	22.26	22.26	22.32	22.42	22.48	22.57	22.54	22.49	22.55
Education and health															
services	18.88	19.42	19.20	19.18	19.24	19.24	19.33	19.34	19.39	19.45	19.49	19.52	19.59	19.59	19.61
Leisure and hospitality	10.84	11.09	10.94	10.97	10.97	10.98	10.97	10.99	11.05	11.07	11.12	11.21	11.20	11.26	11.25
Other services	16.08	16.34	16.29	16.30	16.25	16.23	16.22	16.24	16.24	16.29	16.37	16.41	16.46	16.48	16.53

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.

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

la duration	Annual	average	2008	3 2009											
industry	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov. ^p	Dec. ^p
TOTAL PRIVATE	\$18.08	\$18.60	\$18.40	\$18.49	\$18.57	\$18.57	\$18.52	\$18.47	\$18.42	\$18.49	\$18.60	\$18.70	\$18.73	\$18.85	\$18.82
Seasonally adjusted	-	-	18.40	18.43	18.46	18.50	18.50	18.53	18.54	18.59	18.66	18.68	18.74	18.77	18.80
GOODS-PRODUCING	19 33	19.89	19 75	19 64	19.64	19 74	19 78	19.83	19.83	19 97	20.00	20.02	20.07	20.09	20.08
Natural resources and mining	22.50	23.22	23.53	23.41	23.19	23.40	23.40	23.10	22.94	23.08	23.07	23.18	23.21	23.12	23.52
O-metrosoften	04.07	00.04	00.50		00.05	00.45	00.44	00.54	00.47	00.00	00.70	00.00	00.04	00.07	00.07
Construction	21.87	22.61	22.52	22.32	22.25	22.45	22.44	22.54	22.47	22.68	22.73	22.69	23.01	22.87	22.87
Manufacturing	17.74	18.21	18.06	18.03	18.07	18.09	18.13	18.09	18.12	18.18	18.23	18.41	18.30	18.43	18.49
Durable goods	18.70	19.32	19.06	18.99	19.09	19.17	19.20	19.20	19.22	19.33	19.39	19.56	19.47	19.61	19.70
Wood products	14.20	14.95	14.66	14.69	14.77	14.67	14.72	14.91	14.84	15.03	15.11	15.10	15.10	15.26	15.17
Nonmetallic mineral products	16.90	17.29	16.73	16.82	17.03	17.19	17.37	17.25	17.39	17.44	17.45	17.48	17.35	17.40	17.27
Primary metals	20.18	20.11	20.05	19.80	19.75	19.69	19.98	19.80	19.90	20.18	20.24	20.51	20.36	20.61	20.52
Fabricated metal products	16.99	17.49	17.36	17.24	17.30	17.29	17.41	17.38	17.43	17.47	17.50	17.64	17.60	17.74	17.89
Machinery	17.97	18.40	18.15	18.16	18.17	18.26	18.20	18.36	18.25	18.37	18.37	18.63	18.56	18.75	18.87
Computer and electronic products	21.03	21.83	21.44	21.46	21.42	21.71	21.73	21.70	21.67	21.85	22.07	21.99	22.04	22.24	22.18
Electrical equipment and appliances	15.78	16.27	15.88	15.81	15.93	15.95	15.99	16.15	16.23	16.39	16.58	16.61	16.48	16.60	16.55
I ransportation equipment	23.83	24.87	24.58	24.66	24.69	24.80	24.76	24.85	24.95	25.01	24.83	25.08	24.87	24.91	25.01
Missellenseus manufacturing	14.54	15.00	14.92	14.95	14.00	15.02	15.00	15.02	15.11	10.22	10.13	15.30	16.00	14.97	15.19
wiscenarieous manufacturing	15.15	10.17	15.00	15.00	15.57	10.02	10.07	10.10	10.00	10.10	10.10	10.19	10.21	10.03	10.05
Nondurable goods	16.15	16.55	16.43	16.51	16.48	16.43	16.51	16.43	16.50	16.51	16.53	16.73	16.60	16.69	16.70
Food manufacturing	14.00	14.39	14.26	14.34	14.30	14.24	14.27	14.26	14.34	14.34	14.43	14.65	14.51	14.48	14.50
Beverages and tobacco products	19.35	20.36	19.95	20.07	20.25	20.40	20.25	20.38	20.20	20.15	20.27	20.29	20.60	20.84	20.60
Textile mills	13.57	13.63	13.80	13.90	13.76	13.88	13.79	13.63	13.62	13.49	13.77	13.77	13.60	13.18	13.22
Textile product mills	11.73	11.45	11.72	11.59	11.53	11.34	11.34	11.34	11.56	11.18	11.34	11.29	11.41	11.63	11.78
Apparel	11.40	11.36	11.38	11.46	11.40	11.26	11.44	11.28	11.38	11.38	11.30	11.52	11.15	11.30	11.51
Leather and allied products	12.96	13.87	13.47	14.10	14.19	14.21	14.34	13.85	14.06	13.69	13.59	13.46	13.83	13.72	13.41
Paper and paper products	18.88	19.26	19.11	19.27	18.99	18.90	19.29	19.09	19.29	19.45	19.09	19.50	19.18	19.48	19.55
Printing and related support activities	16.75	16.74	17.01	16.79	16.79	16.69	16.76	16.61	16.56	16.54	16.76	16.87	16.79	16.86	16.89
Petroleum and coal products	27.46	29.80	28.17	29.13	29.57	29.80	29.26	29.18	29.42	29.69	29.60	29.92	30.57	30.77	30.73
Chemicals	19.49	20.29	19.72	19.89	19.96	19.93	20.02	20.16	20.18	20.35	20.37	20.58	20.57	20.77	20.69
Plastics and rubber products	15.85	16.05	16.24	16.24	16.22	16.20	16.19	16.09	16.06	15.83	15.90	16.06	15.79	15.96	16.07
PROVIDING	17 77	18 32	18.09	18 23	18 33	18 31	18 24	18 18	18 11	18 16	18 29	18 4 1	18 44	18 58	18 55
		10.02	.0.00	.0.20						10.10	.0.20				
Trade, transportation, and															
utilities	16.16	16.48	16.14	16.37	16.47	16.45	16.42	16.40	16.35	16.39	16.55	16.59	16.56	16.62	16.54
Wholesale trade	20.14	20.89	20.36	20.44	20.65	20.64	20.69	20.78	20.66	20.83	21.02	21.03	21.08	21.40	21.50
Retail trade	12.87	13.03	12.74	12.96	12.99	13.02	13.01	12.99	12.96	12.99	13.12	13.22	13.07	13.04	12.98
Transportation and warehousing	18.41	18.66	18.62	18.68	18.73	18.64	18.58	18.54	18.54	18.64	18.73	18.62	18.74	18.78	18.73
Utilities	28.84	29.62	29.28	29.27	29.70	29.42	29.50	29.50	29.27	29.33	29.51	29.76	29.83	30.06	30.32
Information	24.77	25.45	24.86	25.03	25.12	25.40	25.24	25.41	25.26	25.30	25.68	25.62	25.74	25.88	25.75
Financial activities	20.27	20.79	20.50	20.48	20.68	20.67	20.65	20.72	20.66	20.65	20.87	20.89	20.96	21.18	21.12
Professional and business															
services	21.19	22.37	22.01	22.16	22.52	22.52	22.28	22.15	22.11	22.25	22.41	22.43	22.37	22.67	22.61
Education and health															
services	18.88	19.42	19.23	19.26	19.26	19.23	19.33	19.29	19.32	19.47	19.43	19.58	19.59	19.58	19.64
Leisure and hospitality	10.84	11.09	11.05	11.03	11.06	11.00	10.99	10.99	10.97	10.96	11.02	11.21	11.22	11.31	11.37
Other services	16.08	16.34	16.27	16.34	16.34	16.33	16.27	16.29	16.16	16.17	16.31	16.44	16.44	16.48	16.57

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 o	r nonsupervisor	workers ¹ on	private nonfarm i	pavrolls, by	v industrv
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	Annual	average	2008						20	09		,			
Industry	2000	2000	Dee	lan	Fab	Max	A	Max	20		A	Comt	0.04	N P	Dec
	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	мау	June	July	Aug.	Sept.	Oct.	Nov. ^P	Dec. ^P
TOTAL PRIVATE Seasonally adjusted	\$607.95 -	\$617.11 -	\$610.88 612.39	\$607.99 613.72	\$616.19 613.20	\$615.66 613.01	\$608.44 613.34	\$610.50 614.01	\$610.70 612.81	\$614.53 616.32	\$625.97 618.64	\$618.09 619.30	\$620.96 619.74	\$632.48 624.16	\$623.94 625.49
GOODS-PRODUCING	776.66	779.79	778.54	762.42	758.49	764.33	759.94	773.76	781.70	789.21	798.40	781.56	791.15	800.39	798.79
Natural resources	4 04 4 60	4 007 00	4 0 4 0 0 7	4 000 00	4 040 07	4 000 04	000.07	000.44	4 000 00	000.00	4 000 00	4 000 54	4 000 00	4 04 4 57	4 000 00
	1,014.69	1,007.92	1,043.27	1,023.89	1,010.07	1,006.01	998.97	993.14	1,002.36	990.82	1,020.03	1,002.51	1,003.80	1,014.57	1,028.38
CONSTRUCTION	842.61	852.48	841.1Z	829.19	824.73	830.03	831.76	858.42	860.26	882.31	704.05	832.28	740.51	8/1./2	850.18
Manufacturing	724.40	125.87	128.22	/12.98	709.52	710.30	706.42	/12.12	720.56	721.12	734.05	/3/.20	740.53	750.31	/58./1
Durable goods	767.95	771.03	773.15	751.29	751.42	753.03	748.44	756.13	764.23	766.66	781.09	784.00	790.16	800.00	812.37
Wood products	547.53	558.93	537.66	524.08	531.36	530.33	533.61	552.42	572.44	576.77	582.47	574.55	573.42	581.39	579.11
Nonmetallic mineral products	711.11	706.36	6/7.16	555.59	556.59	6/3.4b	596.14	599.94	721.27	742.09	744.26	735.07	721.34	741.63	689.07
Entricated metal products	701.29	680.35	706 55	681 38	678.16	671.24	668.03	678.60	685 70	683.47	695 54	601.88	704 40	709.93	727 31
Machinery	759.94	737.70	754.62	740.93	735.48	730.00	720.72	726.66	724.13	723.38	727.06	731.77	749.42	766.70	780.00
products	961 59	992.04	002 74	967 20	962 62	964 95	960.00	964.06	972 20	970.02	000.02	996 60	907 44	021.94	022.26
products	001.00	003.04	003.74	007.39	003.03	004.00	000.90	004.00	073.30	070.03	009.02	000.00	097.44	931.04	932.20
Electrical equipment and															
appliances	645.60	639.46	646.32	621.33	613.31	615.67	615.62	633.08	631.35	631.02	646.62	652.77	657.55	668.62	695.55
Transportation equipment	1,000.67	1,026.64	1,025.02	997.02	993.68	995.60	991.52	995.11	1,019.54	1,024.08	1,046.64	1,062.60	1,059.15	1,054.85	1,086.20
Furniture and related															
products	553.93	566.41	563.60	558.76	547.60	562.50	550.90	565.50	576.44	579.12	576.07	571.47	570.74	564.75	577.15
Miscellaneous															
manufacturing	591.95	620.78	600.99	601.73	604.42	614.33	611.42	615.98	613.41	619.22	635.04	624.09	628.10	642.67	640.59
Nondurable goods	652 22	658 33	657 20	650.49	644 76	644 45	640.98	648 13	657 50	655 84	661 60	669 60	668 98	676.80	681 39
Food manufacturing	566.91	576 10	572.23	569 70	562 38	562.88	555.88	570.80	574.00	569 70	581.93	587.87	587.66	592.64	595 34
Poverages and teleses	000.01	070.10	072.20	000.70	002.00	002.00	000.00	070.00	074.00	000.70	001.00	007.07	007.00	002.04	000.04
Beverages and tobacco	750.05	704 44	700 40	700 54	744.45	700.00	700 70	754.00	740.40	705.05	705 07	704 50	744.00	744 77	745.00
products	750.25	731.41 517.22	720.18 514.74	728.54	/41.15	730.32 502.46	106.13	107.96	719.1Z	705.25	725.07 525.02	734.50	741.60 522.00	744.77	745.00
Textile product mills	453 10	432 79	441 84	423.04	495.90	420 71	490.44	497.00	448 53	429 31	435.46	434 67	433 58	436 54	457 47
Apparel	415.14	408.89	410.46	407.98	403.56	407.25	409.55	408.34	407.40	414.23	403.41	405.86	403.63	416.55	420.06
Leather and allied products	486.58	466.61	476.84	470.94	465.43	470.35	457.45	445.97	451.33	451.77	462.06	438.80	495.11	497.30	497.51
Paper and paper products	809.57	806.00	814.94	799.02	781.72	770.45	794.05	782.01	807.58	818.16	801.13	835.88	814.50	831.60	838.45
Printing and related															
support activities	642.50	635.75	654.89	627.95	622.91	627.54	625.15	617.89	625.97	628.52	646.94	649.50	649.77	653.26	657.27
Petroleum and coal															
producto	1 222 07	1 285 46	1 251 03	1 301 20	1 278 90	1 282 55	1 249 58	1 246 57	1 280 27	1 300 07	1 299 92	1 289 85	1 302 02	1 291 74	1 301 03
Chemicals	809.29	841.47	815.26	812.33	821.18	816.36	818.04	821.73	836.69	845.77	847.02	857.38	859.02	873.86	890.88
Bloation and rubbar															
Flastics and Tubber	649.09	642.61	657 70	647.00	620.67	626.66	622.02	625 56	642.64	622.90	642.05	652.24	646.09	652 70	657.00
products	040.90	043.01	007.72	647.90	030.07	030.00	033.03	035.50	043.01	032.00	043.95	033.24	040.90	000.70	037.03
PRIVATE SERVICE-	574.05	500.07	500.07	570.40	500.00	500.04	504.00	500.00	570.07	502.00	505 40	500.04	500 54	000.04	504.00
PROVIDING	574.35	588.07	580.37	579.40	592.06	589.04	581.30	580.90	578.67	583.90	595.40	588.24	589.51	603.61	594.88
Trade, transportation,															
and utilities	536.06	542.47	531.01	530.39	540.22	538.90	536.27	538.58	536.94	543.50	552.11	548.46	545.81	550.45	548.14
Wholesale trade	769.62	784.72	766.82	769.83	786.00	781.50	775.13	778.13	776.06	776.21	795.90	779.47	787.27	809.63	802.13
Retail trade	386.21	388.72	380.63	378.14	383.91	383.50	384.50	387.80	386.91	392.99	396.93	397.32	390.20	390.20	392.30
Transportation and															
warehousing	670.37	677.72	679.63	663.14	665.27	670.80	661.17	665.36	667.23	682.44	695.15	685.11	685.71	698.10	694.36
Utilities	1,230.69	1,243.79	1,255.68	1,242.70	1,284.71	1,239.84	1,248.68	1,239.85	1,224.74	1,221.39	1,234.79	1,238.91	1,245.22	1,258.74	1,246.14
Information	908.99	931.81	918.07	921.84	933.07	938.37	915.50	918.75	916.22	925.28	952.01	936.23	938.03	958.27	929.29
Financial activities	727.07	751.04	732.92	736.67	764.57	756.28	740.70	741.13	739.35	738.63	767.76	747.56	750.06	777.67	752.56
Professional and business services	737.70	775.78	760.51	760.93	784.20	784.55	765.40	765.01	766.18	766.59	789.66	768.32	774.85	800.96	782.65
Education and															
health services	613.73	628.59	620.16	621.45	623.05	625.64	623.06	621.78	622.42	631.14	631.48	632.73	631.41	640.90	637.56
Leisure and nospitality	273.39	2/5./8	271.22	205.20	277.00	273.30	∠10.85	272.80	2/4./5	211.19	283.73	277.38	275.38	282.37	218.16
Other services	495.57	506.31	496.54	498.98	502.25	506.61	503.12	503.73	500.08	501.73	512.63	508.29	510.27	515.76	512.54

1 Data relate to production workers in natural resources and mining and manufacturing,

NOTE: See "Notes on the data" for a description of the most recent benchmark revision. Dash indicates data not available.

construction workers in construction, and nonsupervisory workers in the service-providing industries.

p = preliminary.

17. Diffusion indexes of employment change, seasonally adjusted

[In percent]

Timespan and year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
		I		Privat	te nonfa	arm pay	/rolls, 2	78 indu	stries			L
Over 1-month span:												
2005	52.4	62.5	56.7	59.1	56.3	56.5	59.5	61.2	52.4	54.6	61.7	56.1
2006	65.1	66.9	66.0	61.0	49.6	53.0	56.5	54.3	52.0	52.4	55.8	58.2
2007	58.4	59.1	55.4	51.5	56.7	49.1	49.1	43.1	52.4	52.2	53.7	50.6
2008	48.9	48.9	51.1	44.1	38.8	33.3	35.1	32.3	27.3	30.7	22.3	18.2
2009	19.7	17.1	16.5	20.6	27.3	23.0	26.4	32.9	32.9	31.0	46.8	41.3
Over 3-month span:												
2005	51.5	57.4	59.9	62.1	58.4	62.1	61.9	64.5	59.7	54.1	55.4	60.8
2006	67.7	67.8	69.0	69.5	62.5	60.6	55.0	57.4	52.6	49.3	54.8	58.0
2007	60.2	59.7	62.8	58.7	57.1	52.2	53.7	45.5	49.6	49.1	53.5	54.6
2008	56.3	48.1	48.5	46.3	39.6	33.1	31.6	29.0	27.1	26.8	20.8	18.8
2009	17.7	12.3	12.6	10.8	14.9	20.8	21.6	21.7	28.4	27.3	33.8	35.5
Owner O manufility and the												
Over 6-month span:	54.0	57.0	50.4	50.2	50.0	c0 0	647	62.0	60 F	50.0	co 4	60.6
2005	54.6	57.6	58.4	59.3	58.9	60.8	64.7	63.2	62.5	58.2	62.1	62.6
2006	64.1	65.1	66.7	67.3	66.9	69.1	62.5	60.8	58.2	57.2	58.2	55.2
2007	58.6	57.1	62.5	61.9	59.5	59.1	56.7	54.8	56.3	51.5	53.5	51.3
2008	49.1	50.6	51.7	49.6	43.9	39.2	36.1	31.6	28.1	26.4	23.0	21.4
2009	17.5	13.2	12.1	11.9	12.5	13.4	13.2	15.8	20.4	20.4	21.0	26.2
Over 12-month span:												
2005	61.3	61.3	60.4	59.7	58.7	60.8	61.7	63.4	61.2	59.7	59.9	62.3
2006	67.7	66.0	66.4	63.4	65.6	67.3	64.9	64.5	66.7	65.8	65.1	66.0
2007	63.4	59.5	61.2	59.7	59.3	58.4	57.2	57.4	59.9	59.3	58.6	60.0
2008	54.8	56.5	53.0	47.4	48.1	44.2	41.1	39.8	36.4	33.1	29.0	26.8
2009	24.9	17.7	15.4	15.1	15.1	13.8	12.6	11.5	14.1	13.0	13.4	13.2
				Mar	ufactu	ring pay	rolls, 8	4 indus	tries			
Over 1-month span:												
2005	36.6	50.0	43.9	42.7	44.5	32.3	41.5	40.9	42.1	47.0	40.2	47.0
2006	59.1	56.1	55.5	50.0	39.6	51.8	48.8	40.9	34.1	39.0	36.0	41.5
2007	55.5	45.7	31.7	28.7	42.7	36.0	40.2	22.6	32.3	37.2	51.8	42.1
2008	40.9	39.6	45.1	37.2	42.7	23.2	21.3	21.3	16.5	20.1	12.8	4.9
2009	4.9	10.4	9.1	16.5	11.0	11.0	19.5	26.2	20.1	18.9	45.7	40.2
Over 3-month span:												
2006	35.4	41.5	41.5	45.7	36.0	38.4	36.0	37.8	41.5	40.2	36.0	45.1
2007	54.9	58 5	54.9	54.3	48.8	53.7	43.9	41 5	33.5	28.0	29.3	27.4
2008	39.6	40.2	45.7	32.3	31.7	34.1	31.7	25.0	24.4	25.0	32.9	39.0
2009	48.2	36.6	35.4	38.4	39.6	30.5	20.1	9.8	14.0	17.1	13.4	6.1
2010	40.2	2.4	2.4	73	8.5	11.0	73	10.4	17.7	17.7	21.3	31.1
2010	4.0	2.4	2.4	7.0	0.0	11.0	7.0	10.4			21.0	01.1
Over 6-month span:												
2005	33.5	39.6	39.0	37.8	36.0	34.8	43.9	36.0	36.6	36.0	36.0	40.9
2006	43.3	47.6	48.2	51.2	53.0	52.4	47.0	48.8	43.9	39.6	34.1	29.9
2007	34.8	31.7	32.3	32.9	35.4	39.0	34.1	27.4	28.7	24.4	30.5	25.6
2008	27.4	29.9	42.1	38.4	38.4	31.7	26.2	20.1	13.4	12.2	13.4	12.2
2009	7.3	4.9	2.4	6.1	2.4	6.1	7.3	6.1	7.3	8.5	8.5	15.2
Over 10 menth en												
Over 12-month span:	45 -	44-	40 -	44 -	07.0	00.0	00.0	04.0		04.4	04.4	00 f
2005	45.7	44.5	42.7	41.5	37.2	36.0	32.9	34.8	33.5	34.1	34.1	38.4
2006	44.5	41.5	41.5	40.2	40.2	45.7	42.7	43.3	47.6	48.8	46.3	43.9
2007	40.2	37.2	37.8	31.1	29.3	29.9	31.1	29.3	33.5	29.3	34.8	36.0
2008	28.0	29.3	26.2	25.6	31.1	26.8	23.2	19.5	24.4	20.1	16.5	14.6
2009	7.9	3.7	4.9	6.7	3.7	4.9	6.1	4.9	5.5	4.9	4.9	4.9
	1	1				1						

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	sands)			Percent						
Industry and region				2009				2009						
	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p
Total ²	2,513	2,408	2,423	2,586	2,571	2,434	2,497	1.9	1.8	1.8	1.9	1.9	1.8	1.9
Industry														
Total private ²	2,163	2,090	2,128	2,298	2,206	2,088	2,151	1.9	1.9	1.9	2.1	2.0	1.9	1.9
Construction	56	47	65	70	69	75	53	0.9	0.8	1.1	1.2	1.1	1.2	0.9
Manufacturing	113	110	122	132	139	154	175	0.9	0.9	1.0	1.1	1.2	1.3	1.5
Trade, transportation, and utilities	469	393	422	407	373	329	361	1.8	1.5	1.6	1.6	1.5	1.3	1.4
Professional and business services	445	431	438	501	480	431	415	2.6	2.5	2.6	2.9	2.8	2.5	2.4
Education and health services	531	553	520	546	524	543	550	2.7	2.8	2.6	2.7	2.6	2.7	2.7
Leisure and hospitality	276	256	238	311	258	229	234	2.1	1.9	1.8	2.3	1.9	1.7	1.8
Government	322	314	300	296	376	341	343	1.4	1.4	1.3	1.3	1.6	1.5	1.5
Region ³														
Northeast	609	508	513	539	503	493	522	2.4	2.0	2.0	2.1	2.0	2.0	2.1
South	882	870	911	930	897	838	914	1.8	1.8	1.9	1.9	1.9	1.7	1.9
Midwest	496	509	476	556	550	542	452	1.6	1.7	1.6	1.8	1.8	1.8	1.5
West	561	517	533	575	609	571	613	1.9	1.7	1.8	1.9	2.0	1.9	2.0

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

² Includes natural resources and mining, information, financial activities, and other services, not shown separately.

³ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia,

West Virginia; **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 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.

nd, ^P = preliminary

19. Hires levels and rates by industry and region, seasonally adjusted

	Levels ¹ (in thousands)						Percent							
Industry and region				2009				2009						
	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p
Total ²	3,919	4,228	4,040	4,061	4,045	4,125	4,073	3.0	3.2	3.1	3.1	3.1	3.1	3.1
Industry														
Total private ²	3,654	3,930	3,779	3,800	3,730	3,852	3,816	3.3	3.6	3.5	3.5	3.4	3.6	3.5
Construction	277	355	297	349	332	324	358	4.5	5.8	4.9	5.8	5.6	5.4	6.1
Manufacturing	225	272	243	270	245	252	237	1.9	2.3	2.1	2.3	2.1	2.2	2.0
Trade, transportation, and utilities	744	819	818	842	768	839	871	2.9	3.3	3.3	3.4	3.1	3.4	3.5
Professional and business services	644	686	715	724	735	808	661	3.9	4.1	4.3	4.4	4.4	4.8	3.9
Education and health services	530	522	538	526	522	517	524	2.8	2.7	2.8	2.7	2.7	2.7	2.7
Leisure and hospitality	695	716	695	656	677	703	684	5.3	5.4	5.3	5.0	5.2	5.4	5.2
Government	262	282	261	266	304	278	262	1.2	1.3	1.2	1.2	1.4	1.2	1.2
Region ³														
Northeast	735	714	720	693	769	754	748	3.0	2.9	2.9	2.8	3.1	3.1	3.0
South	1,428	1,544	1,493	1,502	1,403	1,546	1,516	3.0	3.3	3.2	3.2	3.0	3.3	3.2
Midwest	839	885	947	911	915	902	900	2.8	3.0	3.2	3.1	3.1	3.0	3.0
West	917	1,042	884	939	929	935	903	3.1	3.5	3.0	3.2	3.2	3.2	3.1

 1 Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series. 2 Includes natural resources and mining, information, financial activities, and other

² Includes natural resources and mining, information, financial activities, and other services, not shown separately.
³ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New

³ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia;

Midwest: Illinois, Indiana, 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.

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

	Levels ¹ (in thousands)							Percent						
Industry and region				2009				2009						
	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p
Total ²	4,306	4,430	4,284	4,325	4,223	4,274	4,238	3.3	3.4	3.3	3.3	3.2	3.3	3.2
Industry														
Total private ²	3,939	4,147	3,976	4,038	3,944	3,993	3,944	3.6	3.8	3.7	3.7	3.6	3.7	3.6
Construction	355	444	342	421	384	361	436	5.7	7.2	5.6	7.0	6.4	6.1	7.4
Manufacturing	352	329	313	314	300	299	298	3.0	2.8	2.7	2.7	2.6	2.6	2.6
Trade, transportation, and utilities	816	874	850	870	840	863	917	3.2	3.5	3.4	3.5	3.4	3.5	3.7
Professional and business services	698	738	728	740	725	763	620	4.2	4.4	4.4	4.5	4.3	4.5	3.7
Education and health services	489	500	509	502	470	488	510	2.5	2.6	2.6	2.6	2.4	2.5	2.6
Leisure and hospitality	696	713	704	697	723	752	704	5.3	5.4	5.3	5.3	5.5	5.7	5.4
Government	340	298	293	279	275	280	297	1.5	1.3	1.3	1.2	1.2	1.2	1.3
Region ³														
Northeast	799	716	759	744	739	820	763	3.2	2.9	3.1	3.0	3.0	3.3	3.1
South	1,535	1,602	1,490	1,521	1,561	1,644	1,493	3.2	3.4	3.1	3.2	3.3	3.5	3.2
Midwest	958	958	951	985	920	868	940	3.2	3.2	3.2	3.3	3.1	2.9	3.2
West	1,053	1,181	1,086	1,036	963	985	1,021	3.6	4.0	3.7	3.5	3.3	3.4	3.5

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 services, not shown separately. ³ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New

York, Pennsylvania, Rhode Island, Vermort, **South:** Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia;

Midwest: Illinois, Indiana, 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 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	isands)			Percent						
Industry and region				2009				2009						
	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p
Total ²	1,787	1,778	1,779	1,804	1,771	1,919	1,764	1.4	1.4	1.4	1.4	1.4	1.5	1.3
Industry														
Total private ²	1,680	1,673	1,680	1,713	1,663	1,817	1,653	1.5	1.5	1.5	1.6	1.5	1.7	1.5
Construction	70	68	67	90	68	77	78	1.1	1.1	1.1	1.5	1.1	1.3	1.3
Manufacturing	93	82	85	94	78	77	76	.8	.7	.7	.8	.7	.7	.7
Trade, transportation, and utilities	391	415	407	445	389	451	397	1.5	1.6	1.6	1.8	1.6	1.8	1.6
Professional and business services	257	265	269	276	283	294	253	1.5	1.6	1.6	1.7	1.7	1.8	1.5
Education and health services	264	235	249	269	268	262	282	1.4	1.2	1.3	1.4	1.4	1.3	1.4
Leisure and hospitality	429	411	413	351	363	413	370	3.3	3.1	3.1	2.7	2.8	3.1	2.8
Government	111	107	106	98	103	108	111	.5	.5	.5	.4	.5	.5	.5
Region ³														
Northeast	279	234	270	297	291	273	274	1.1	1.0	1.1	1.2	1.2	1.1	1.1
South	693	724	687	701	682	814	720	1.5	1.5	1.5	1.5	1.4	1.7	1.5
Midwest	403	435	374	405	386	406	383	1.3	1.5	1.3	1.4	1.3	1.4	1.3
West	434	404	460	414	386	438	383	1.5	1.4	1.6	1.4	1.3	1.5	1.3

¹ Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series. ² Includes natural resources and mining, information, financial activities, and other

services, not shown separately. ³ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New

York, Pennsylvania, Rhode Island, Vermont; **South:** Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia;

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. ^p = preliminary

22. Quarterly Census of Employment and Wages: 10 largest counties, first quarter 2009.

	Establishments,	Empl	oyment	Average	weekly wage ¹
County by NAICS supersector	first quarter 2009 (thousands)	March 2009 (thousands)	Percent change, March 2008-09 ²	First quarter 2009	Percent change, first quarter 2008-09 ²
United States ³ Private industry	9,113.9 8,819.8 126.3 860.9 366.4 1,912.2 148.0 853.1 1,533.8 861.3 739.1 1,234.6 294.2	128,992.2 106,866.1 1,670.1 5,937.8 12,096.6 24,597.3 2,858.8 7,651.3 16,534.8 18,245.7 12,715.3 4,357.1 22,126.1	-4.2 -5.1 -3.8 -15.4 -10.6 -5.5 -5.0 -4.4 -6.4 2.2 -3.1 -2.1 -5	\$882 882 993 906 1,062 733 1,439 1,596 1,129 776 351 543 884	-2.5 -3.3 -2.3 .9 -1.3 -1.6 -2.0 -15.9 2 1.2 5 1.6
Los Angeles, CA Private industry	431.2 427.3 5 14.0 14.4 54.0 8.9 24.0 43.3 28.6 27.5 202.9 3.9	3,996.3 3,395.0 10.7 123.3 401.4 744.8 197.3 223.4 541.8 499.8 384.1 258.5 601.3	-4.9 -5.7 -6.2 -17.4 -9.3 -7.2 -7.3 -6.8 -8.3 1.1 -3.9 3.0 3	967 945 1,479 973 1,063 776 1,755 1,577 1,149 865 519 424 1,090	-2.4 -3.0 -15.8 .3 -1.8 -1.5 1.8 -12.1 -2.1 2.4 -2.4 -3.9 2
Cook, IL Private industry	141.1 139.8 1 12.3 6.9 27.5 2.6 15.6 29.1 14.1 11.9 14.7 1.4	2,381.5 2,069.2 9 71.9 206.7 438.8 53.5 197.7 398.3 385.9 216.4 94.8 312.3	-4.4 -5.0 -3.7 -14.4 -9.5 -6.5 (⁴) -5.0 -8.0 3.1 -3.6 -1.4 .0	1,084 1,093 792 1,317 1,013 797 1,644 2,397 1,644 839 404 729 1,022	-5.4 -6.3 -12.8 .5 -4.1 -4.3 -8.7 -17.4 6 1.0 -2.9 1.1 1.6
New York, NY	119.1 118.8 .0 2.4 2.9 21.7 4.5 19.0 25.4 8.8 11.9 18.2 .3	2,290.3 1,837.8 2 34.0 30.4 230.7 129.0 355.9 463.7 293.9 208.9 86.9 452.6	-3.6 -4.4 1.3 -7.2 -15.3 -6.6 -4.7 -6.2 -5.6 .7 -3.0 -1.3 .0	2,149 2,425 1,967 1,479 1,365 1,136 2,449 6,379 2,095 998 725 999 1,017	-23.4 -24.9 -16.9 -6.4 -8.3 -5.4 -7.9 -35.2 -10.2 -8 -5.0 -9.0 -9.0 1.2
Harris, TX Private industry	97.9 97.4 1.5 6.7 4.6 22.3 1.4 10.5 19.6 10.4 7.7 11.9 .5	2,028.4 1,766.7 82.8 149.0 182.5 418.9 31.3 116.2 321.4 224.3 179.8 59.1 261.7	-1.1 -1.5 (⁴) -6.5 -2.0 -1.5 -3.4 -3.9 -4.5 3.9 1.2 .3 2.2	1,143 1,175 3,483 1,051 1,411 1,029 1,314 1,511 1,321 851 374 628 926	-2.6 -3.1 -5.5 .0 -7.0 -3.1 -3.2 -12.7 2.1 1.3 -2.3 8 3.7
Maricopa, AZ Private industry	104.0 103.3 5 10.8 3.5 23.2 1.7 12.8 23.0 10.3 7.5 7.3 .7	1,671.0 1,444.9 8.5 100.5 111.9 344.5 29.0 137.5 270.4 214.8 178.1 47.8 226.1	-7.4 -8.6 -1.0 -30.7 -11.2 -7.7 -5.0 -4.9 -11.5 3.6 -5.2 -6.5 -5.2	854 852 877 1,227 801 1,166 1,145 896 875 398 567 868	-1.3 -1.3 -14.2 9 -2.1 7 .0 .7.5 3.1 .0 -1.7 -1.2 -1.3

22. Continued—Quarterly Census of Employment and Wages: 10 largest counties, first quarter 2009.

	Establishments.	Empl	oyment	Average weekly wage ¹			
County by NAICS supersector	first quarter 2009 (thousands)	March 2009 (thousands)	Percent change, March 2008-09 ²	First quarter 2009	Percent change, first quarter 2008-09 ²		
Dallas, TX Private industry	67.9 67.3	1,425.7 1,257.6	-3.3 -3.8	\$1,085 1,103	-3.3 -3.9		
Natural resources and mining	.6	8.3	(4)	3,066	-13.0		
Construction	4.3	10.3	-9.8	942	8		
Trade transportation and utilities	15.0	287.9	-0.2	964	-3.0		
Information	1.7	46.7	-6.5	1,823	(4)		
Financial activities	8.7	140.3	(4)	1,632	-13.3		
Professional and business services	14.8	255.0	-6.4	1,219	-2.5		
Education and health services	6.7	154.6	4.5	920	3.1		
Leisure and hospitality	5.4	126.3	(4)	499	-1.4		
Other services	b.7 5	37.7 168.0	-3.0	624 950	.8		
	.0	1 000.5			0.0		
Orange, CA	102.3	1,399.5	-6.8	992	-2.7		
Natural resources and mining	.2	5.1	-16.0	561	-3.4		
Construction	6.9	78.3	-18.1	1,072	-1.0		
Manufacturing	5.3	159.9	-8.8	1,148	-3.1		
Trade, transportation, and utilities	17.3	253.7	-8.5	916	1		
Information	1.4	28.2	-4.8	1,567	.8		
Financial activities	10.7	106.7	(4)	1,502	-12.0		
Frolessional and business services	19.4	244.0	-10.4	972	-2.4		
Leisure and hospitality	7.2	167.0	-4.7	382	-3.3		
Other services	19.2	47.7	-3.0	513	-4.6		
Government	1.4	154.7	-1.8	1,188	1.5		
San Diego, CA	99.6	1,263.0	-4.7	934	-1.1		
Private industry	98.3	1,035.8	-5.5	916	-1.9		
Natural resources and mining	.7	9.7	-13.8	540	.7		
Construction	7.0	64.1	-18.1	975	3		
Trade transportation and utilities	3.1	99.3	(')	1,309	.2		
Information	13	37.8	-1.3	1 604	-16.1		
Financial activities	9.4	71.4	-6.0	1,257	-5.6		
Professional and business services	16.5	201.2	-6.9	1,208	2.7		
Education and health services	8.3	142.2	3.2	851	1.7		
Leisure and hospitality	7.0	152.2	-5.6	393	-6.9		
Other services	27.6	57.4	.2	466	-2.1		
Government	1.5	221.2	4	1,017	2.1		
King, WA	75.4	1,135.9	-3.9	1,127	.2		
Private industry	74.9	979.2	-4.6	1,136	5		
Construction	.4 6.4	57.1	-18.7	1,555	-1.2		
Manufacturing	2.4	104.2	-7.2	1,366	-5.5		
Trade, transportation, and utilities	14.7	206.7	-5.7	967	1.5		
Information	1.8	80.7	4.0	2,125	9		
Financial activities	6.8	69.7	-6.7	1,579	-5.0		
Professional and business services	13.6	176.9	-6.8	1,311	.2		
Loisure and health services	0.0 6.1	130.4	5.1	857	2.4		
Other services	16.3	45.8	-4.2	634	-5.8		
Government	.5	156.6	.8	1,074	6.0		
Miami-Dade, FL	84.7	963.9	-6.1	858	-1.2		
Private industry	84.4	813.6	-6.9	818	-1.8		
Natural resources and mining	.5	10.0	-8.8	403	-12.6		
Construction	6.1	37.7	-25.4	861	6.6		
Manufacturing	2.6	38.4	-16.7	783	.3		
I rade, transportation, and utilities	23.0	238.8	-6.0	765	6		
Information	1.5	18.5	-7.1	1,308	-3.5		
Finalicial activities	9.8	03./ 104 E	-9.0	1,353	-9.7		
Fibressional and bealth services	94	124.5	-0./	992 801	1.0		
Leisure and hospitality	5.9	102.0	-4.2	471	-1.5		
Other services	7.5	35.3	-5.5	529	4		
Government	.4	150.3	-1.7	1,074	.8		
		1	1	1	1		

¹ Average weekly wages were calculated using unrounded data.

Virgin Islands.

ployment and pay data ⁴ Data do not meet BLS or State agency disclosure standards.

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

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

23. Quarterly Census of Employment and Wages: by State, first quarter 2009.

		Empl	ovment	Average	weekly wage ¹
State	Establishments, first quarter 2009 (thousands)	March 2009 (thousands)	Percent change, March 2008-09	First quarter 2009	Percent change, first quarter 2008-09
United States ²	9,113.9	128,992.2	-4.2	\$882	-2.5
Alabama	119.2	1,844.6	-5.2	736	4
Alaska	21.3	303.5	.1	887	2.5
Arizona	164.6	2,459.7	-6.9	807	-1.3
Arkansas	86.4	1,144.5	-2.9	695	4.2
California	1,369.6	14,742.5	-5.0	994	-1.2
Colorado	176.6	2,211.0	-3.9	913	8
Connecticut	113.0	1,620.1	-3.8	1,189	-5.6
Delaware	29.3	399.9	-5.1	975	8
District of Columbia	33.3	679.2	1	1,461	-1.9
Florida	612.2	7,352.2	-7.0	771	8
Georgia	274.4	3,835.9	-5.4	831	-1.4
Hawaii	39.2	599.1	-4.9	775	.4
Idaho	56.7	603.4	-6.3	638	.3
Illinois	372.2	5,552.0	-4.2	951	-3.0
Indiana	161.3	2,701.1	-5.6	739	-2.4
lowa	94.6	1,432.5	-2.5	709	1
Kansas	87.3	1,326.2	-2.6	719	-2.3
Kentucky	109.1	1,710.0	-4.6	712	3
Louisiana	124.2	1,867.4	-1.1	772	.8
Maine	51.0	563.1	-3.7	688	-1.9
Maryland	164.5	2 452 8	-3.1	964	1
Massachusetts	213.0	3,102.8	-3.3	1.101	-3.7
Michigan	253.8	3,765,9	-7.2	825	-3.7
Minnesota	168.6	2.538.5	-4.0	882	-2.9
Mississippi	71.0	1.087.9	-4.5	633	2
Missouri	173.7	2.618.3	-3.4	771	.1
Montana	42.9	413.9	-4.2	628	.5
Nebraska	59.6	894.8	-2.0	699	1.7
Nevada	76.6	1,150.8	-9.1	810	-3.5
New Hampshire	48.8	601.2	-3.2	837	-3.0
New Jersey	271.3	3,775.1	-4.0	1,100	-2.8
New Mexico	54.9	794.1	-3.5	723	.7
New York	588.1	8,332.4	-2.6	1,207	-13.8
North Carolina	260.6	3,852.4	-5.2	766	-2.8
North Dakota	25.6	341.8	4	666	2.0
Ohio	293.6	4,937.1	-4.9	790	-1.0
Oklahoma	100.5	1,517.0	-2.0	709	3
Oregon	130.7	1,602.8	-6.3	772	6
Pennsylvania	342.4	5,449.4	-2.9	862	7
Rhode Island	35.5	441.8	-4.9	831	-2.4
South Carolina	115.3	1,779.4	-5.9	692	4
South Dakota	30.6	382.9	-1.7	630	3
Tennessee	142.7	2,586.1	-5.7	751	-1.3
Texas	564.9	10,237.9	-1.8	886	-1.9
Utah	85.3	1,162.2	-4.6	726	1.1
Vermont	24.8	291.7	-3.2	719	-2.0
Virginia	232.6	3,541.6	-3.0	920	.1
Washington	216.4	2,810.6	-3.8	906	.8
west Virginia	48.4	690.2	-1.4	704	4.0
Wisconsin	156.8	2,619.0	-4.3	747	-1.6
Wyoming	25.1	272.1	-2.0	778	1
Puerto Rico	53.4	967.1	-4.1	496	1.4
Virgin Islands	3.6	44.6	-4.3	685	-3.1
-					

¹ Average weekly wages were calculated using unrounded data.

 nrounded 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.

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)		
1999 2000 2001 2002 2003 2004 2005 2006 2007	7,820,860 7,879,116 7,984,529 8,101,872 8,228,840 8,364,795 8,571,144 8,784,027 8,971,897	127,042,282 129,877,063 129,635,800 128,233,919 127,795,827 129,278,176 131,571,623 133,833,834 135,366,106	\$4,235,579,204 4,587,708,584 4,695,225,123 4,714,374,741 4,826,251,547 5,087,561,796 5,351,949,496 5,692,569,465 6,018,089,108	\$33,340 35,323 36,219 36,764 37,765 39,354 40,677 42,535 44,458	\$641 679 697 707 726 757 782 818 855
2008	9,082,049	134,805,659	6,142,159,200	45,563	876
		1	UI covered	1	
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	7,771,198 7,828,861 7,933,536 8,051,117 8,177,087 8,312,729 8,518,249 8,731,111 8,908,198 9,017,717	124,255,714 127,005,574 126,883,182 125,475,293 125,031,551 126,538,579 128,837,948 131,104,860 132,043,604	\$4,112,169,533 4,454,966,824 4,560,511,280 4,570,787,218 4,676,319,378 4,929,262,369 5,188,301,929 5,522,624,197 5,841,231,314 5,959,055,276	\$33,094 35,077 35,943 36,428 37,401 38,955 40,270 42,124 44,038 45,129	\$636 675 691 701 719 749 774 810 847 868
		Privat	e industry covered		
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	7,560,567 7,622,274 7,724,965 7,839,903 7,963,340 8,093,142 8,294,662 8,505,496 8,681,001 8,789,360	107,619,457 110,015,333 109,304,802 107,577,281 107,065,553 108,490,066 110,611,016 112,718,858 114,012,221 113,188,643	\$3,577,738,557 3,887,626,769 3,952,152,155 3,930,767,025 4,015,823,311 4,245,640,890 4,480,311,193 4,780,833,389 5,057,840,759 5,135,487,891	\$33,244 35,337 36,157 36,539 37,508 39,134 40,505 42,414 44,362 45,371	\$639 680 695 703 721 753 779 816 853 873
		State g	jovernment covered		
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	70,538 65,096 64,583 64,447 64,447 64,447 64,544 66,278 66,921 67,381 67,675	4,296,673 4,370,160 4,452,237 4,485,071 4,481,845 4,484,997 4,527,514 4,565,908 4,611,395 4,642,650	\$149,011,194 158,618,365 168,358,331 175,866,492 179,528,728 184,414,992 191,281,126 200,329,294 211,677,002 222,754,925	\$34,681 36,296 37,814 39,212 40,057 41,118 42,249 43,875 45,903 47,980	\$667 698 727 754 770 791 812 844 883 923
		Local g	overnment covered	1	
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	140,093 141,491 143,989 146,767 149,281 155,043 157,309 158,695 159,816 160,683	12,339,584 12,620,081 13,126,143 13,412,941 13,484,153 13,563,517 13,699,418 13,820,093 14,016,190 14,212,311	\$385,419,781 408,721,690 440,000,795 464,153,701 480,967,339 499,206,488 516,709,610 541,461,514 571,713,553 600,812,461	\$31,234 32,387 33,521 34,605 35,669 36,805 37,718 39,179 40,790 42,274	\$601 623 645 665 686 708 725 753 784 813
	<u> </u>	Federal gov	vernment covered (UCF	E)	
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	49,661 50,256 50,993 50,755 51,753 52,066 52,895 52,916 63,699 64,332	2,786,567 2,871,489 2,752,619 2,758,627 2,764,275 2,739,596 2,733,675 2,728,974 2,726,300 2,762,655	\$123,409,672 132,741,760 134,713,843 143,587,523 149,932,170 158,299,427 163,647,568 169,945,269 176,857,794 183,103,924	\$44,287 46,228 48,940 52,050 54,239 57,782 59,864 62,274 64,871 66,293	\$852 889 941 1,001 1,043 1,111 1,151 1,198 1,248 1,275
2000	04,332	2,702,000	103,103,924	00,293	1,270

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

NOTE: Data are final. Detail may not add to total due to rounding.

25. Annual data: Quarterly Census of Employment and Wages, establishment size and employment, private ownership, by supersector, first quarter 2008

		Size of establishments								
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	8,737,209 112,661,107	5,347,059 7,726,320	1,405,989 9,317,598	940,355 12,712,673	649,897 19,590,026	221,242 15,200,470	125,680 18,769,975	30,651 10,490,782	10,833 7,355,848	5,503 11,497,415
Natural resources and mining Establishments, first quarter Employment, March	125,210 1,735,716	70,167 113,349	23,540 155,594	15,213 205,063	10,230 309,062	3,338 229,769	1,888 285,052	574 198,874	192 129,465	68 109,488
Construction Establishments, first quarter Employment, March	884,900 7,015,698	596,761 820,427	135,351 887,949	80,118 1,076,415	49,933 1,494,411	14,548 990,273	6,455 953,252	1,305 438,169	337 221,521	92 133,281
Manufacturing Establishments, first quarter Employment, March	360,128 13,530,440	138,761 239,464	61,564 413,129	53,932 741,464	52,329 1,631,131	25,129 1,758,241	18,998 2,909,766	6,052 2,072,004	2,298 1,554,107	1,065 2,211,134
Trade, transportation, and utilities Establishments, first quarter Employment, March	1,918,453 26,025,160	1,025,889 1,686,285	381,783 2,543,460	253,919 3,411,060	158,449 4,758,401	53,773 3,726,557	34,906 5,155,843	7,571 2,600,592	1,654 1,090,853	509 1,052,109
Information Establishments, first quarter Employment, March	144,342 3,007,840	82,456 113,866	21,073 140,161	16,279 222,141	13,502 415,963	5,634 388,105	3,580 542,466	1,093 380,246	490 334,589	235 470,303
Financial activities Establishments, first quarter Employment, March	866,044 8,002,154	571,395 880,298	153,677 1,013,702	80,370 1,059,248	39,542 1,176,225	11,675 798,971	6,176 929,717	1,823 631,696	911 630,185	475 882,112
Professional and business services Establishments, first quarter Employment, March	1,500,983 17,672,891	1,026,478 1,403,930	199,658 1,312,525	126,947 1,712,339	85,319 2,594,343	32,918 2,279,648	20,556 3,116,492	5,907 2,019,588	2,267 1,542,704	933 1,691,322
Education and health services Establishments, first quarter Employment, March	838,101 17,855,618	403,555 715,158	181,824 1,208,328	119,131 1,604,008	77,795 2,344,710	28,219 1,961,088	19,577 2,946,642	4,258 1,449,126	1,933 1,343,470	1,809 4,283,088
Leisure and hospitality Establishments, first quarter Employment, March	729,550 13,121,259	280,079 443,453	122,835 829,466	135,822 1,908,049	137,270 4,122,254	40,241 2,674,380	10,754 1,523,474	1,610 547,993	642 438,685	297 633,505
Other services Establishments, first quarter Employment, March	1,157,207 4,450,274	946,782 1,128,799	118,658 775,868	57,400 757,235	25,255 736,119	5,738 391,483	2,787 406,934	458 152,494	109 70,269	20 31,073

¹ Includes establishments that reported no workers in March 2008.

NOTE: Data are final. Detail may not add to total due to rounding.

² Includes data for unclassified establishments, not shown separately.

	Average annual wages ³						
Metropolitan area ²	2007	2008	Percent change, 2007-08				
Metropolitan areas ⁴	\$46,139	\$47,194	2.3				
Abilene, TX	31,567	32,649	3.4				
Aguadilla-Isabela-San Sebastian, PR	20,295	20,714	2.1				
Akron, OH	39,499	40,376	2.2				
Albany, GA	33,378	34,314	2.8				
Albany-Schenectady-Troy, NY	42,191	43,912	4.1				
Albayerque, NM	38,191	39,342	3.0				
Alexandria, LA	32,757	34,783	6.2				
Allentown-Bethlehem-Easton, PA-NJ	41,784	42,500	1.7				
Altoona, PA	31,988	32,986	3.1				
Amarillo, TX	35,574	38,215	7.4				
Ames, IA Anchorage, AK Anderson, IN Anderson, SC Anna Arbor, MI Anniston-Oxford, AL Appleton, WI Asheville, NC Athens-Clarke County, GA Atlanta-Sandy Springs-Marietta, GA	37,041	38,558	4.1				
	45,237	46,935	3.8				
	32,850	31,326	-4.6				
	31,086	32,322	4.0				
	49,427	48,987	-0.9				
	34,593	36,227	4.7				
	36,575	37,522	2.6				
	33,406	34,070	2.0				
	34,256	35,503	3.6				
	48,111	48,064	-0.1				
Atlantic City, NJ	39,276	40,337	2.7				
Auburn-Opelika, AL	31,554	32,651	3.5				
Augusta-Richmond County, GA-SC	36,915	38,068	3.1				
Austin-Round Rock, TX	46,458	47,355	1.9				
Bakersfield, CA	38,254	39,476	3.2				
Baltimore-Towson, MD	47,177	48,438	2.7				
Bangor, ME	32,829	33,829	3.0				
Barnstable Town, MA	37,691	38,839	3.0				
Baton Rouge, LA	39,339	41,961	6.7				
Battle Creek, MI	40,628	42,782	5.3				
Bay City, MI	35,680	36,489	2.3				
Beaumont-Port Arthur, TX	40,682	43,302	6.4				
Bellingham, WA	34,239	35,864	4.7				
Bend, OR	34,318	35,044	2.1				
Billings, MT	35,372	36,155	2.2				
Binghamton, NY	36,322	37,731	3.9				
Birmingham-Hoover, AL	42,570	43,651	2.5				
Bismarck, ND	34,118	35,389	3.7				
Blacksburg-Christiansburg-Radford, VA	35,248	35,272	0.1				
Bloomington, IN	32,028	33,220	3.7				
Bloomington-Normal, IL	42,082	43,918	4.4				
Boise City-Nampa, ID	37,553	37,315	-0.6				
Boston-Cambridge-Quincy, MA-NH	59,817	61,128	2.2				
Boulder, CO	52,745	53,455	1.3				
Bowling Green, KY	33,308	34,861	4.7				
Bremerton-Silverdale, WA	39,506	40,421	2.3				
Bridgeport-Stamford-Norwalk, CT	79,973	80,018	0.1				
Brownsville-Harlingen, TX	27,126	28,342	4.5				
Brunswick, GA	32,705	34,458	5.4				
Buffalo-Niagara Falls, NY	38,218	38,984	2.0				
Burlington, NC	33,132	34,283	3.5				
Burlington-South Burlington, VT	41,907	43,559	3.9				
Canton-Massillon, OH	34,091	34,897	2.4				
Cape Coral-Fort Myers, FL	37,658	37,866	0.6				
Carson City, NV	42,030	43,858	4.3				
Casper, WY	41,105	43,858	6.7				
Cedar Rapids, IA	41,059	42,356	3.2				
Champaign-Urbana, IL	35,788	37,408	4.5				
Charleston, WV	38,687	40,442	4.5				
Charleston-North Charleston, SC	36,954	38,035	2.9				
Charlotte-Gastonia-Concord, NC-SC	46,975	47,332	0.8				
Charlottesville, VA	40,819	41,777	2.3				
Chattanooga, TN-GA	36,522	37,258	2.0				
Cheyenne, WY	36,191	37,452	3.5				
Chicago-Naperville-Joliet, IL-IN-WI	50,823	51,775	1.9				
Chico, CA	33,207	34,310	3.3				
Cincinnati-Middletown, OH-KY-IN	42,969	43,801	1.9				
Clarksville, TN-KY	32,216	32,991	2.4				
Cleveland, TN	34,666	35,010	1.0				
Cleveland, TN	42,783	43,467	1.6				
Coeur d'Alene, ID	31,035 32,630 39,745 33,266 36,293 34,511 41,078 42,655 37,186 41,981	31,353 33,967 40,973 34,331 37,514 35,067 42,610 43,533 38,771 42,343	1.0 4.1 3.2 3.4 1.6 3.7 2.1 4.3 0.9				

26. Average annual wages for 2007 and 2008 for all covered workers' by metropolitan area

	Average annual wages ₃						
Metropolitan area ²	2007	2008	Percent change, 2007-08				
Cumberland, MD-WV Dallas-Fort Worth-Arlington, TX Daton, GA Danville, IL Davenport-Moline-Rock Island, IA-IL Dayton, OH Decatur, AL Decatur, IL Deltona-Daytona Beach-Ormond Beach, FL	\$31,373 49,627 34,433 34,086 30,212 39,385 40,223 35,931 41,039 32,196	\$32,583 50,331 34,403 35,602 30,580 40,425 40,824 36,855 42,012 32,938	3.9 1.4 -0.1 4.4 1.2 2.6 1.5 2.6 2.6 2.4 2.3				
Denver-Aurora, CO Des Moines, IA Detroit-Warren-Livonia, MI Dothan, AL Dover, DE Dubuque, IA Duluth, MN-WI Durham, NC Eau Claire, WI El Centro, CA	50,180 42,895 49,019 32,367 35,978 34,240 35,202 52,420 32,792 32,419	51,270 43,918 50,081 32,965 36,375 35,656 36,307 53,700 33,549 33,239	2.2 2.4 2.2 1.8 1.1 4.1 3.1 2.4 2.3 2.5				
Elizabethtown, KY Elkhart-Goshen, IN Elmira, NY El Paso, TX Erie, PA Eugene-Springfield, OR Evansville, IN-KY Fairbanks, AK Fajardo, PR Fajardo, PR Fargo, ND-MN	32,701 36,566 34,879 31,354 34,788 34,329 37,182 42,345 22,075 35,264	33,728 35,858 36,984 31,837 35,992 35,380 38,304 44,225 22,984 36,745	3.1 -1.9 6.0 1.5 3.5 3.1 3.0 4.4 4.1 4.2				
Farmington, NM	38,572 33,216 37,325 34,473 39,310 34,305 30,699 34,664 39,335 31,236	41,155 34,619 39,025 35,353 39,206 34,841 32,088 36,166 40,154 32,130	6.7 4.2 4.6 -0.3 1.6 4.5 4.3 2.1 2.9				
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	35,613 36,542 35,111 30,979 36,243 36,994 33,564 30,177 30,745 36,221	36,454 36,038 31,718 37,282 37,929 34,531 30,607 32,207 39,246	2.4 0.7 2.6 2.4 2.9 2.5 2.9 1.4 4.8 8.4				
Grand Rapids-Wyoming, MI Great Falls, MT Green Bay, WI Green Bay, WI Greensboro-High Point, NC Greenville, NC Greenville, NC Guayama, PR Gulfport-Bioxi, MS Hagerstown-Martinsburg, MD-WV	38,953 31,009 37,066 37,788 37,213 33,703 36,536 26,094 34,971 35,468	39,868 31,962 38,700 39,247 37,919 34,672 37,592 27,189 35,700 36,472	2.3 3.1 4.4 3.9 1.9 2.9 2.9 4.2 2.1 2.8				
Hanford-Corcoran, CA Harrisburg-Carlisle, PA Harrisonburg, VA Hartford-West Hartford-East Hartford, CT Hattiesburg, MS Hickory-Lenoir-Morganton, NC Hinesville-Fort Stewart, GA Holland-Grand Haven, MI Honolulu, HI Hon Springs, AR	32,504 41,424 32,718 54,188 30,729 32,364 33,210 37,470 40,748 28,448	35,374 42,330 34,197 54,446 31,629 32,810 33,854 37,953 42,090 29,042	8.8 2.2 4.5 0.5 2.9 1.4 1.9 1.3 3.3 2.1				
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	41,604 53,494 33,973 45,763 29,878 42,227 37,457 39,387 38,267 35,771	44,345 55,407 35,717 47,427 30,485 43,128 39,070 41,689 38,672 36,730	6.6 3.6 2.0 2.1 4.3 5.8 1.1 2.7				

26. Continued — Average annual wages for 2007 and 2008 for all covered workers $^{\rm t}$ by metropolitan area

	Average annual wages ³						
Metropolitan area ²	2007	2008	Percent change, 2007-08				
Jackson, TN	\$35,059 41,437 27,005 36,790 32,903 31,985 31,384 30,378 31,068 38,402	\$35,975 41,524 27,893 36,906 33,766 32,759 32,464 31,532 32,156 40,333	2.6 0.2 3.3 0.3 2.6 2.4 3.4 3.8 3.5 5.0				
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 La fayette, IN	33,340 42,921 40,439 32,915 36,399 35,018 38,386 47,269 32,949 36,419	34,451 44,155 41,878 34,299 37,260 35,883 38,912 44,117 34,078 37,832	3.3 2.9 3.6 4.2 2.4 2.5 1.4 -6.7 3.4 3.9				
Lafayette, LA Lake Charles, LA Lakeland, FL Lancaster, PA Lansing-East Lansing, MI Laredo, TX Las Cruces, NM Las Vegas-Paradise, NV Las Vegas-Paradise, NV Lawrence, KS Lawronc, KS	40,684 37,447 34,394 37,043 40,866 29,009 31,422 42,336 30,830 30,617	42,748 39,982 35,195 38,127 42,339 29,572 32,894 43,120 32,313 32,258	5.1 6.8 2.3 3.6 1.9 4.7 1.9 4.8 5.4				
Lebanon, PA Lewiston, ID-WA Lewiston, Auburn, ME Lexington-Fayette, KY Lima, OH Lincoln, NE Little Rock-North Little Rock, AR Loggin, UT-ID Longview, TX Longview, WA	32,876 31,961 33,118 39,290 35,177 34,750 39,305 27,810 36,956 37,101	33,900 32,783 34,396 40,034 35,381 35,834 38,902 29,392 38,902 37,806	3.1 2.6 3.9 0.6 3.1 -1.0 5.7 5.3 1.9				
Los Angeles-Long Beach-Santa Ana, CA Louisville, KY-IN Lubbock, TX Lynchburg, VA Macon, GA Madera, CA Madera, CA Madison, WI Manchester-Nashua, NH Mansfield, OH Mayaguez, PR	50,480 40,125 32,761 34,412 34,243 33,266 41,201 49,235 33,109 21,326	51,520 40,596 33,867 35,207 34,823 34,405 42,623 50,629 33,946 22,394	2.1 1.2 3.4 2.3 1.7 3.4 3.5 2.8 2.5 5.0				
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	27,651 32,877 42,339 32,351 43,428 32,570 45,574 43,261 49,542 32,233	28,498 33,402 43,124 33,903 44,199 33,507 50,116 44,462 51,044 33,414	3.1 1.6 1.9 4.8 1.8 2.9 10.0 2.8 3.0 3.7				
Mobile, AL Modesto, CA Monroe, LA Monroe, M Montgomery, AL Morgantown, WV Morristown, TN Mount Vernon-Anacortes, WA Muncie, IN Muskegon-Norton Shores, MI	36,890 36,739 31,992 41,636 36,223 35,241 32,806 34,620 31,326 34,982	38,180 37,867 32,796 41,849 37,552 37,082 32,858 36,230 32,420 36,033	3.5 3.1 2.5 3.7 5.2 0.2 4.7 3.5 3.0				
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 Niles-Benton Harbor, MI Norwich-New London, CT Ocala, FL	28,576 44,171 41,300 42,728 47,039 43,255 65,685 38,140 45,463 31,623	28,450 45,061 40,178 43,964 48,239 45,108 66,548 38,814 46,727 32,579	-0.4 2.0 -2.7 2.9 2.6 4.3 1.3 1.8 2.8 3.0				

26. Continued — Average annual wages for 2007 and 2008 for all covered workers' by metropolitan area

	Average annual wages ³						
Metropolitan area ²	2007	2008	Percent change, 2007-08				
Ocean City, NJ Odessa, TX Ogden-Clearfield, UT Oklahoma City, OK Olympia, WA Ormaha-Council Bluffs, NE-IA Orlando, FL Oshkosh-Neenah, WI Owensboro, KY Oxnard-Thousand Oaks-Ventura, CA	\$32,452 41,758 34,067 39,678 39,273 38,633 41,014 33,593 47,669	\$33,529 44,316 34,778 39,363 40,714 40,097 39,322 41,781 34,956 46,490	3.3 6.1 2.1 5.8 2.6 2.1 1.8 1.9 4.1 -2.5				
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 Pine Bluff, AR Pittsburgh, PA	40,975 33,950 33,547 39,131 34,165 43,470 50,611 43,697 33,094 42,910	42,089 34,361 35,102 42,734 34,829 44,562 51,814 44,482 34,106 44,124	2.7 1.2 4.6 9.2 1.9 2.5 2.4 1.8 3.1 2.8				
Pittsfield, MA Pocce, PR	38,075 29,268 21,019 38,497 44,335 36,375 40,793 32,048 40,674 34,141	38,957 30,608 21,818 39,711 45,326 36,174 42,148 33,004 42,141 35,516	2.3 4.6 3.8 3.2 2.2 -0.6 3.3 3.0 3.6 4.0				
Pueblo, CO Punta Gorda, FL Racine, WI Raleigh-Cary, NC Rapid City, SD Reading, PA Redding, CA Reno-Sparks, NV Richmond, VA Richrond, VA	32,552 32,833 40,746 42,801 31,119 39,945 34,953 41,365 44,530 37,846	34,055 32,927 41,232 43,912 32,227 40,691 35,655 42,167 45,244 38,617	4.6 0.3 1.2 2.6 3.6 1.9 2.0 1.9 1.6 2.0				
Roanoke, VA Rochester, MN Rockord, IL Rocky Mount, NC Rome, GA SacramentoArden-ArcadeRoseville, CA Saginaw-Saginaw Township North, MI St. Cloud, MN St. George, UT	35,419 44,786 40,752 38,304 32,527 33,041 46,385 37,507 33,996 29,052	36,475 46,196 41,728 39,210 33,110 35,229 47,924 37,549 35,069 29,291	3.0 3.1 2.4 1.8 6.6 3.3 0.1 3.2 0.8				
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 Antonio, TX San Antonio, Carlsbad-San Marcos, CA Sandusky, OH	31,828 42,873 33,986 39,419 34,833 40,935 30,920 38,274 47,657 33,471	32,651 45,419 34,891 40,235 35,901 41,628 32,852 38,876 49,079 33,760	2.6 5.9 2.7 3.1 1.7 6.2 1.6 3.0 0.9				
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	64,559 19,777 82,038 25,939 36,740 41,967 41,540 37,395 42,824 36,424	65,100 19,875 80,063 26,839 38,134 42,617 41,471 38,646 43,757 36,781	0.8 0.5 -2.4 3.5 3.8 1.5 -0.2 3.3 2.2 1.0				
Savannah, GA Scranton-Wilkes-Barre, PA Seattle-Tacoma-Bellevue, WA Sheboygan, WI Sherwan-Denison, TX Shrevepor-Bossier City, LA Sioux City, IA-NE-SD Sioux Falls, SD South Falls, SD South Bend-Mishawaka, IN-MI Spartanburg, SC	36,695 34,205 51,924 37,049 35,672 34,892 33,025 36,056 36,266 37,967	37,846 34,902 53,667 37,834 36,081 36,308 34,326 36,982 37,654 39,313	3.1 2.0 3.4 2.1 1.1 4.1 3.9 2.6 3.8 3.5				

26. Continued — Average annual wages for 2007 and 2008 for all covered workers' by metropolitan area

	Avera	age annual w	ages ³
Metropolitan area ²	2007	2008	Percent change, 2007-08
Spokane, WA Springfield, IL	\$35,539 42,420 39,487 31,868 32,017 36,797 37,906 30,267 39,620 36,543	\$36,792 44,416 40,969 32,971 33,158 38,050 39,075 30,842 40,554 37,433	3.5 4.7 3.8 3.5 3.6 3.4 3.1 1.9 2.4 2.4
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	39,215 32,349 34,079 38,538 36,109 56,645 38,524 38,942 36,737 37,184	40,521 33,562 35,002 39,686 36,714 60,135 39,973 40,205 37,949 38,817	3.3 3.7 2.7 3.0 1.7 6.2 3.8 3.2 3.3 4.4
Utica-Rome, NY Valdosta, GA Vallejo-Fairfield, CA Vero Beach, FL Victoria, TX Vineland-Millville-Bridgeton, NJ Virglaina Beach-Norfolk-Newport News, VA-NC Visalia-Porterville, CA Waco, TX Warner Robins, GA	33,916 27,842 42,932 35,901 38,317 39,408 37,734 30,968 34,679 39,220	34,936 29,288 45,264 36,557 39,888 40,709 38,696 32,018 35,698 40,457	3.0 5.2 5.4 4.1 3.3 2.5 3.4 2.9 3.2
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 Wichita Falls, TX Williamsport, PA Williamsport, PA	60,711 35,899 35,710 32,893 29,475 31,169 39,662 32,320 32,506 34,239	62,653 37,363 36,477 35,356 30,750 32,915 40,423 34,185 33,340 35,278	3.2 4.1 2.1 7.5 5.6 1.9 5.8 2.6 3.0
Winchester, VA-WV Winston-Salem, NC Worcester, MA Yakima, WA Yauco, PR York-Hanover, PA Youngstown-Warren-Boardman, OH-PA Yuba City, CA Yuba X	36,016 38,921 44,652 29,743 19,380 38,469 34,698 35,058 30,147	37,035 39,770 45,955 30,821 19,821 39,379 34,403 36,538 31,351	2.8 2.2 3.6 2.3 2.4 -0.9 4.2 4.0

26. Continued — Average annual wages for 2007 and 2008 for all covered workers' by metropolitan area

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	1999 ¹	2000 ¹	2001 ¹	2002 ¹	2003	2004	2005	2006	2007	2008	2009
Civilian noninstitutional population	207,753	212,577	215,092	217,570	221,168	223,357	226,082	228,815	231,867	233,788	235,801
Civilian labor force	139,368	142,583	143,734	144,863	146,510	147,401	149,320	151,428	153,124	154,287	154,142
Labor force participation rate	67.1	67.1	66.8	66.6	66.2	66.0	66.0	66.2	66.0	66.0	65.4
Employed	133,488	136,891	136,933	136,485	137,736	139,252	141,730	144,427	146,047	145,362	139,877
Employment-population ratio	64.3	64.4	63.7	62.7	62.3	62.3	62.7	63.1	63.0	62.2	59.3
Unemployed	5,880	5,692	6,801	8,378	8,774	8,149	7,591	7,001	7,078	8,924	14,265
Unemployment rate	4.2	4.0	4.7	5.8	6.0	5.5	5.1	4.6	4.6	5.8	9.3
Not in the labor force	68,385	69,994	71,359	72,707	74,658	75,956	76,762	77,387	78,743	79,501	81,659

¹ Not strictly comparable with prior years.

28. Annual data: Employment levels by industry

[In thousands]

Industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total private employment	108,686	110,995	110,708	108,828	108,416	109,814	111,899	114,113	115,380	114,281	108,369
Total nonfarm employment	128,993	131,785	131,826	130,341	129,999	131,435	133,703	136,086	137,598	136,790	130,912
Goods-producing	24,465	24,649	23,873	22,557	21,816	21,882	22,190	22,531	22,233	21,334	18,620
Natural resources and mining	598	599	606	583	572	591	628	684	724	767	700
Construction	6,545	6,787	6,826	6,716	6,735	6,976	7,336	7,691	7,630	7,162	6,037
Manufacturing	17,322	17,263	16,441	15,259	14,510	14,315	14,226	14,155	13,879	13,406	11,883
Private service-providing	84,221	86,346	86,834	86,271	86,600	87,932	89,709	91,582	93,147	92,947	89,749
Trade, transportation, and utilities	25,771	26,225	25,983	25,497	25,287	25,533	25,959	26,276	26,630	26,293	24,947
Wholesale trade	5,893	5,933	5,773	5,652	5,608	5,663	5,764	5,905	6,015	5,943	5,625
Retail trade	14,970	15,280	15,239	15,025	14,917	15,058	15,280	15,353	15,520	15,283	14,528
Transportation and warehousing	4,300	4,410	4,372	4,224	4,185	4,249	4,361	4,470	4,541	4,508	4,234
Utilities	609	601	599	596	577	564	554	549	553	559	561
Information	3,419	3,630	3,629	3,395	3,188	3,118	3,061	3,038	3,032	2,984	2,807
Financial activities	7,648	7,687	7,808	7,847	7,977	8,031	8,153	8,328	8,301	8,145	7,758
Professional and business services	15,957	16,666	16,476	15,976	15,987	16,394	16,954	17,566	17,942	17,735	16,580
Education and health services	14,798	15,109	15,645	16,199	16,588	16,953	17,372	17,826	18,322	18,838	19,190
Leisure and hospitality	11,543	11,862	12,036	11,986	12,173	12,493	12,816	13,110	13,427	13,436	13,102
Other services	5,087	5,168	5,258	5,372	5,401	5,409	5,395	5,438	5,494	5,515	5,364
Government	20,307	20,790	21,118	21,513	21,583	21,621	21,804	21,974	22,218	22,509	22,544

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

Industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Private sector:	1000	2000	2001	2002	2000	2004	2000	2000	2001	2000	2000
Average weekly bours	24.2	24.2	24.0	22.0	22.7	22.7	22.9	22.0	33.0	22.6	22.1
Average weekly hours.	12 /0	14.02	14 54	14.07	15 37	15 60	16 12	16 76	17 / 2	19.09	19.62
Average weekly carpings (in dollars)	10.45	191.02	402 70	FOG 75	E10.06	F20.00	E 4 4 2 2	F67 07	F00.04	607.05	617.11
Average weekly earnings (in dollars)	403.15	401.01	493.79	500.75	516.00	529.09	544.55	507.07	590.04	007.95	017.11
Goods-producing:	10.0	10 7				40.0	40.4	10 5	40.0	40.0	
Average weekly hours	40.8	40.7	39.9	39.9	39.8	40.0	40.1	40.5	40.6	40.2	39.2
Average hourly earnings (in dollars)	14.71	15.27	15.78	16.33	16.80	17.19	17.60	18.02	18.67	19.33	19.90
Average weekly earnings (in dollars)	599.99	621.86	630.01	651.61	669.13	688.13	705.31	730.16	757.34	776.66	779.79
Natural resources and mining											
Average weekly hours	44.2	44.4	44.6	43.2	43.6	44.5	45.6	45.6	45.9	45.1	43.3
Average hourly earnings (in dollars)	16.33	16.55	17.00	17.19	17.56	18.07	18.72	19.90	20.97	22.50	23.29
Average weekly earnings (in dollars)	721.74	734.92	757.92	741.97	765.94	803.82	853.71	907.95	962.64	1014.69	1007.92
Construction:											
Average weekly hours	39.0	39.2	38.7	38.4	38.4	38.3	38.6	39.0	39.0	38.5	37.6
Average hourly earnings (in dollars)	16.80	17.48	18.00	18.52	18.95	19.23	19.46	20.02	20.95	21.87	22.67
Average weekly earnings (in dollars)	655.11	685.78	695.89	711.82	726.83	735.55	750.22	781.21	816.66	842.61	852.48
Manufacturing:				-							
Average weekly bours	41 4	41 3	40.3	40 5	40.4	40.8	40 7	41 1	41 2	40.8	30.8
Average bourly earnings (in dollars)	13.85	1/ 32	14 76	15 20	15 74	16 14	16.56	16.81	17.26	17 75	18.23
Average weekly corpings (in dollars)	F72 14	F00 77	FOF 10	610 75	625.00	659.40	672.20	601.02	711 56	724.46	725.07
Private service-providing:	575.14	550.77	355.15	010.75	035.99	030.49	075.50	091.02	711.50	724.40	125.01
Private service-providing.											
Average weekly hours	32.7	32.7	32.5	32.5	32.3	32.3	32.4	32.5	32.4	32.3	32.1
Average hourly earnings (in dollars)	13.09	13.62	14.18	14.59	14.99	15.29	15.74	16.42	17.11	17.77	18.35
Average weekly earnings (in dollars)	427.98	445.74	461.08	473.80	484.68	494.22	509.58	532.78	554.89	574.35	588.07
Trade, transportation, and utilities:											
Average weekly hours	33.9	33.8	33.5	33.6	33.6	33.5	33.4	33.4	33.3	33.2	32.9
Average hourly earnings (in dollars)	12.82	13.31	13.70	14.02	14.34	14.58	14.92	15.39	15.78	16.16	16.50
Average weekly earnings (in dollars)	434.31	449.88	459.53	471.27	481.14	488.42	498.43	514.34	526.07	536.06	542.47
Wholesale trade:											
Average weekly hours	38.6	38.8	38.4	38.0	37.9	37.8	37.7	38.0	38.2	38.2	37.6
Average hourly earnings (in dollars)	15.62	16.28	16.77	16.98	17.36	17.65	18.16	18.91	19.59	20.13	20.85
Average weekly earnings (in dollars)	602.77	631.40	643.45	644.38	657.29	667.09	685.00	718.63	748.94	769.62	784.72
Retail trade:											
Average weekly hours	30.8	30.7	30.7	30.9	30.9	30.7	30.6	30.5	30.2	30.0	29.9
Average bourly earnings (in dollars)	10.45	10.86	11 29	11.67	11 90	12.08	12 36	12 57	12 75	12.87	13.02
Average weekly earnings (in dollars)	602 77	631.40	6/3/5	644 38	657.20	667.00	685.00	718.63	7/8 0/	769.62	78/ 72
Transportation and warehousing.	002.11	031.40	045.45	044.00	007.20	007.03	005.00	7 10.05	740.04	103.02	104.12
Transportation and warehousing:	07.0	07.4	00.7	00.0	00.0	07.0	07.0	00.0	07.0	00.4	00.4
Average weekly nours	37.6	37.4	36.7	30.8	36.8	37.2	37.0	36.9	37.0	36.4	36.1
Average nourly earnings (in dollars)	14.55	15.05	15.33	15.76	16.25	16.52	16.70	17.28	17.72	18.41	18.80
Average weekly earnings (in dollars)	547.97	562.31	562.70	579.88	598.41	614.96	618.58	636.97	654.95	670.37	677.72
Utilities:											
Average weekly hours	42.0	42.0	41.4	40.9	41.1	40.9	41.1	41.4	42.4	42.7	42.1
Average hourly earnings (in dollars)	22.03	22.75	23.58	23.96	24.77	25.61	26.68	27.40	27.88	28.83	29.56
Average weekly earnings (in dollars)	924.59	955.66	977.18	979.09	1017.27	1048.44	1095.90	1135.34	1182.65	1230.69	1243.79
Information:											
Average weekly hours	36.7	36.8	36.9	36.5	36.2	36.3	36.5	36.6	36.5	36.7	36.6
Average hourly earnings (in dollars)	18.40	19.07	19.80	20.20	21.01	21.40	22.06	23.23	23.96	24.78	25.45
Average weekly earnings (in dollars)	675.47	700.86	730.88	737.77	760.45	777.25	805.08	850.42	874.65	908.99	931.81
Financial activities:											
Average weekly hours	35.8	35.9	35.8	35.6	35.5	35.5	35.9	35.7	35.9	35.8	36.1
Average hourly earnings (in dollars)	14 47	14 98	15 59	16 17	17 14	17.52	17.95	18 80	19.64	20.28	20.83
Average weekly earnings (in dollars)	517 57	537 37	557 92	575 54	609.08	622.87	644.99	672 21	705.13	727.07	751.04
Professional and husiness services:	011.01	007.07	001.02	070.04	000.00	022.07	011.00	072.21	100.10	121.01	701.04
Average weekly hours	24.4	24 E	24.2	24.2	24.1	24.2	24.2	24.6	24.0	24.0	247
Average weekly nours	34.4	34.5	34.2	34.2	34.1	34.2	34.2	34.0	34.8	34.8	34.7
Average nourly earnings (in dollars)	14.85	15.52	16.33	16.81	17.21	17.48	18.08	19.13	20.15	21.18	22.35
Average weekly earnings (in dollars)	510.99	535.07	557.84	574.66	587.02	597.56	618.87	662.27	700.82	/3/./0	//5./8
Education and health services:											
Average weekly hours	32.1	32.2	32.3	32.4	32.3	32.4	32.6	32.5	32.6	32.5	32.3
Average hourly earnings (in dollars)	13.44	13.95	14.64	15.21	15.64	16.15	16.71	17.38	18.11	18.87	19.49
Average weekly earnings (in dollars)	431.35	449.29	473.39	492.74	505.69	523.78	544.59	564.94	590.09	613.73	628.59
Leisure and hospitality:											
Average weekly hours	26.1	26.1	25.8	25.8	25.6	25.7	25.7	25.7	25.5	25.2	24.8
Average hourly earnings (in dollars)	7.96	8.32	8.57	8.81	9.00	9.15	9.38	9.75	10.41	10.84	11.11
Average weekly earnings (in dollars)	208.05	217.20	220.73	227.17	230.42	234.86	241.36	250.34	265.52	273.39	275.78
Other services:											
Average weekly hours	32.5	32.5	32.3	32.0	31.4	31.0	30.9	30.9	30.9	30.8	30.5
Average hourly earnings (in dollars)	12.26	12.73	13.27	13.72	13.84	13.98	14.34	14.77	15.42	16.09	16.59
Average weekly earnings (in dollars)	398.77	413.41	428.64	439.76	434.41	433.04	443.37	456.50	477.06	495.57	506.31

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,¹ by occupation and industry group

[December 2005 = 100]

	2007		20	08			20	09		Percen	t change
Series	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	3 months ended	12 months ended
										Dec	. 2009
Civilian workers ²	106.7	107.6	108.3	109.2	109.5	109.9	110.3	110.8	111.1	0.3	1.5
Workers by occupational group											
Management, professional, and related	107.2	108.3	109.0	110.1	110.4	110.9	111.1	111.5	111.7	.2	1.2
Management, business, and financial	106.6	108.2	108.9	109.7	109.8	110.0	110.1	110.2	110.4	.2	.5
Professional and related	107.6	108.4	109.0	110.4	110.7	111.3	111.6	112.2	112.4	.2	1.5
Sales and office	106.4	106.8	107.7	108.2	108.3	108.4	108.7	109.4	109.7	.3	1.3
Office and administrative support	107.1	108.0	108.6	100.0	110.0	110.8	111.3	111.8	112.1	.3	1.9
Natural resources construction and maintenance	106.8	107 7	108.4	109.3	109.8	110 1	110 7	111 2	111.6	4	16
Construction and extraction	107.4	108.5	109.6	110.3	110.8	111.0	111.6	112.2	112.5	.3	1.5
Installation, maintenance, and repair	106.2	106.7	107.0	108.0	108.6	109.1	109.5	110.0	110.4	.4	1.7
Production, transportation, and material moving	104.7	105.6	106.2	106.9	107.2	108.0	108.5	109.1	109.3	.2	2.0
Transportation and material moving	104.1	104.8	105.3	105.9	106.2	107.2	107.7	108.1	108.4	.3	2.1
Service occupations.	107.7	108.4	109.1	110.2	110.6	111.5	111.9	112.6	113.0	.4	2.2
Workers by industry	105.0	100.1	100.0	107.0	107 5	109.0	100.0	100 5	100 7		
Manufacturing	105.0	106.1	106.8	107.3	107.5	108.0	108.2	108.5	108.7	.2	1.1
Service-providing	107.0	107.8	108.5	109.5	109.8	110.3	110.6	111.3	111.5	.2	1.5
Education and health services	107.9	108.6	109.2	110.8	111.1	111.7	112.2	113.2	113.4	.2	2.1
Health care and social assistance	107.9	108.9	109.6	110.4	110.8	111.7	112.2	112.8	113.2	.4	2.2
Nursing and residential care facilities	107.5	108.4	109.2	10.2	10.8	110.3	112.3	112.9	113.4	.4	2.3
Education services	107.9	108.3	108.9	111.1	111.3	111.8	112.1	113.5	113.6	.1	2.1
Elementary and secondary schools	107.9	108.2	108.8	111.1	111.4	111.9	112.1	113.9	114.0	.1	2.3
Public administration ³	109.1	109.7	110.1	111.6	112.0	113.0	113.8	114.5	115.1	.5	2.8
Private industry workers	106.3	107.3	108.0	108.7	108.9	109.3	109.6	110.0	110.2	.2	1.2
Workers by occupational group											
Management, professional, and related	106.8	108.1	108.9	109.6	109.9	110.4	110.5	110.6	110.7	.1	.7
Management, business, and financial	106.3	108.0	108.7	109.3	109.5	109.6	109.7	109.7	109.9	.2	.4
Sales and office	107.3	106.6	109.0	109.9	10.3	107.9	108.3	108.8	109.2	.0	1.0
Sales and related	105.2	105.0	106.2	106.0	105.5	104.3	104.5	105.3	105.8	.5	.3
Office and administrative support	106.7	107.8	108.5	109.2	109.6	110.5	110.9	111.3	111.6	.3	1.8
Natural resources, construction, and maintenance	106.7	107.6	108.3	109.0	109.6	109.9	110.3	110.9	111.2	.3	1.5
Installation, maintenance, and repair	107.4	106.3	109.7	10.3	10.8	10.9	108.9	109.4	109.8	.4	1.4
Production, transportation, and material moving	104.5	105.5	106.0	106.6	106.9	107.7	108.1	108.6	108.9	.3	1.9
Production	104.0	104.8	105.2	105.8	106.1	107.1	107.6	108.0	108.3	.3	2.1
Transportation and material moving	105.3	106.4	107.2	107.7	107.9	108.4	108.9	109.6	109.7	.1	1.7
Service occupations	107.0	107.8	106.7	109.4	109.8	110.7	110.9	111.7	111.0	.1	1.0
Workers by industry and occupational group	105 6	400.4	400.0	407.0	407 5	107.0	100 0	100 (400.0	-	
Goods-producing industries	105.0	106.1	106.8	107.2	107.5	107.9	108.2	108.4	108.6	.2	1.0
Sales and office.	104.4	100.1	106.3	106.7	100.0	100.8	100.7	100.5	100.4		2
Natural resources, construction, and maintenance	107.0	108.1	109.0	109.8	110.4	110.4	110.9	111.3	111.7	.4	1.2
Production, transportation, and material moving	104.0	104.8	105.3	105.8	106.2	107.0	107.5	107.8	108.0	.2	1.7
Construction	107.6	108.9	110.1	110.6	110.9	110.9	111.2	111.5	111.7	.2	.7
Manufacturing	103.8	104.7	105.1	105.6	105.9	106.5	106.7	106.8	107.0	.2	1.0
Management, professional, and related	103.5	104.9	105.2	105.4	105.4	105.7	105.7	105.4	105.5	.1 2	.1
Natural resources, construction, and maintenance	103.9	104.6	104.5	105.3	106.0	106.6	107.1	107.4	107.7	.3	1.6
Production, transportation, and material moving	103.8	104.5	105.0	105.5	105.8	106.7	107.2	107.5	107.8	.3	1.9
Service-providing industries	106.7	107.7	108.5	109.1	109.4	109.8	110.1	110.5	110.8	.3	1.3
Management, professional, and related	107.3	108.5	109.3	110.2	110.6	111.1	111.2	111.4	111.6	.2	.9
Sales and office	106.3	106.8	107.7	108.0	108.0	108.0	108.4	109.0	109.4	.4	1.3
Production, transportation, and material moving	105.2	106.7	107.3	107.8	108.4 107 8	109.0	109.5	10.1	10.4	.3	1.8
Service occupations	107.1	107.9	108.7	109.5	109.8	110.7	111.0	111.7	111.9	.2	1.9
Trade, transportation, and utilities	105.5	106.1	107.3	107.6	107.5	107.8	108.1	108.6	108.8	.2	1.2

30. Continued—Employment Cost Index, compensation,¹ by occupation and industry group

[December 2005 = 100]

	2007	7 2008					20	09		Percent change		
Series	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	3 months ended	12 months ended	
										Dec.	2009	
Wholesale trade	105.3	105.7	107.2	107.1	106.8	107.1	106.9	106.8	107.0	0.2	0.2	
Retail trade	106.1	106.6	107.6	108.2	108.1	108.3	108.8	109.7	110.0	.3	1.8	
Transportation and warehousing	104.5	105.6	106.4	106.8	106.9	107.4	107.9	108.3	108.2	1	1.2	
Utilities	105.6	106.5	108.1	108.1	108.9	109.6	110.9	111.2	112.0	.7	2.8	
Information	106.1	106.1	106.2	107.2	107.4	107.7	107.5	108.0	108.3	.3	.8	
Financial activities	105.6	106.8	107.3	107.4	107.1	106.8	107.9	108.3	108.6	.3	1.4	
Finance and insurance	106.1	107.0	107.7	107.6	107.2	106.9	108.1	108.6	108.8	.2	1.5	
Real estate and rental and leasing	103.7	105.5	105.7	106.4	106.6	106.6	106.9	107.4	107.7	.3	1.0	
Professional and business services	107.5	109.0	109.9	110.8	111.6	111.9	111.9	112.1	112.4	.3	.7	
Education and health services	107.7	108.6	109.4	110.3	110.6	111.5	111.9	112.6	112.8	.2	2.0	
Education services	107.5	108.1	109.1	111.4	111.3	111.9	112.0	113.2	113.2	.0	1.7	
Health care and social assistance	107.8	108.8	109.4	110.1	110.5	111.5	111.9	112.5	112.8	.3	2.1	
Hospitals	107.3	108.2	109.1	110.1	110.7	111.5	112.0	112.6	113.2	.5	2.3	
Leisure and hospitality	108.1	109.0	109.3	110.6	111.4	112.2	112.0	112.7	112.7	.0	1.2	
Accommodation and food services	108.6	109.5	110.0	111.4	112.1	113.0	112.6	113.4	113.5	.1	1.2	
Other services, except public administration	107.6	108.7	109.4	109.9	109.9	110.8	110.8	111.8	111.5	3	1.5	
State and local government workers	108.4	108.9	109.4	111.3	111.6	112.3	112.9	114.0	114.3	.3	2.4	
Workers by occupational group												
Management, professional, and related	108.3	108.8	109.3	111.3	111.6	112.0	112.6	113.7	113.9	.2	2.1	
Professional and related	108.2	108.6	109.1	111.1	111.4	111.9	112.4	113.7	114.0	.3	2.3	
Sales and office	108.6	108.8	109.3	111.0	111.3	112.4	113.0	114.3	114.7	.3	3.1	
Office and administrative support	108.9	109.3	109.8	111.4	111.8	112.8	113.3	114.7	115.0	.3	2.9	
Service occupations	109.1	109.7	110.0	111.9	112.4	113.4	114.0	114.9	115.6	.6	2.8	
Workers by industry												
Education and health services	108.2	108.6	109.1	111.2	111.5	111.9	112.4	113.7	114.0	.3	2.2	
Education services	108.0	108.4	108.8	111.0	111.2	111.8	112.1	113.5	113.7	.2	2.2	
Schools	108.0	108.4	108.8	111.0	111.2	111.8	112.1	113.5	113.7	.2	2.2	
Elementary and secondary schools	108.0	108.3	108.8	111.1	111.4	112.0	112.2	114.0	114.1	.1	2.4	
Health care and social assistance	109.3	110.1	111.1	112.7	113.2	113.3	114.8	115.3	115.8	.4	2.3	
Hospitals	108.2	109.2	109.7	110.8	111.3	112.4	113.5	114.0	114.5	.4	2.9	
Public administration ³	109.1	109.7	110.1	111.6	112.0	113.0	113.8	114.5	115.1	.5	2.8	

¹ Cost (cents per hour worked) measured in the Employment Cost Index consists of wages, salaries, and employer cost of employee benefits.
 ² Consists of private industry workers (excluding farm and household workers) and State and local government (excluding Federal Government) workers.
 ³ Consists of legislative, judicial, administrative, and regulatory activities.

NOTE: The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.

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

·	2007 2008 2009		Percent change								
Series	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	3 months ended	12 months ended
										Dec.	2009
Civilian workers ¹	106.7	107.6	108.4	109.3	109.6	110.0	110.4	110.9	111.2	0.3	1.5
Workers by occupational group											
Management, professional, and related	107.1	108.2	109.0	110.1	110.5	111.0	111.2	111.5	111.8	.3	1.2
Management, business, and financial	106.7	108.2	109.0	109.8	110.1	110.4	110.5	110.6	110.9	.3	.7
Sales and office.	107.4	108.3	109.0	10.3	108.1	108.1	108.6	109.2	109.7	.1	1.4
Sales and related	105.5	105.2	106.6	106.3	105.6	104.3	104.7	105.7	106.2	.5	.6
Office and administrative support	106.8	107.8	108.5	109.3	109.8	110.6	111.2	111.6	111.9	.3	1.9
Natural resources, construction, and maintenance	107.1	108.1	109.0	109.9	110.6	110.7	111.2	111.7	112.1	.4	1.4
Construction and extraction	107.7	109.0	109.9	110.7	111.3	111.4	111.8	112.3	112.7	.4	1.3
Production, transportation, and material moving	100.4	107.0	107.8	100.0	109.0	108.5	10.5	109.6	109.9	.4	1.7
Production	104.7	105.7	106.5	107.2	107.5	108.2	108.7	109.2	109.4	.2	1.8
Transportation and material moving	105.5	106.6	107.3	108.2	108.5	108.8	109.5	110.2	110.4	.2	1.8
Service occupations	107.3	108.0	108.7	109.9	110.3	111.2	111.6	112.4	112.7	.3	2.2
Workers by industry											
Goods-producing	106.0	107.1	108.0	108.6	109.0	109.2	109.5	109.8	110.1	.3	1.0
Manufacturing	104.9	105.9	106.7	107.4	107.7	108.1	108.4	108.6	108.9	.3	1.1
Service-providing	106.8	107.7	108.5	109.4	109.7	110.2	110.5	111.1	111.4	.3	1.5
Education and health services	107.4	108.0	108.7	110.2	110.5	111.0	111.4	112.3	112.6	.3	1.9
Health care and social assistance	107.9	108.9	109.6	110.4	110.9	111.7	112.2	112.8	113.2	.4	2.1
Nursing and residential care facilities.	107.4	100.4	108.1	109.1	109.7	112.0	110.9	111.4	111.7	.3	1.8
Education services	106.9	107.3	107.9	110.0	110.2	110.5	110.7	111.8	112.0	.2	1.6
Elementary and secondary schools	106.6	107.0	107.5	109.9	110.1	110.4	110.5	112.0	112.1	.1	1.8
Public administration ²	107.4	108.2	108.6	109.9	110.4	111.3	112.3	112.8	113.3	.4	2.6
Private industry workers	106.6	107.6	108.4	109.1	109.4	109.8	110.1	110.6	110.9	.3	1.4
Workers by occupational group	407.0	400 5	100.0	440.4	440 5			444.0	444.5		0
Management, professional, and related	107.2	108.5	109.3	110.1	110.5	111.1	111.1	111.3	111.5	.2	.9
Professional and related	107.6	108.7	109.5	110.4	110.9	111.6	111.8	112.1	112.1	.0	1.1
Sales and office	106.2	106.7	107.7	108.0	108.0	107.9	108.3	109.0	109.4	.4	1.3
Sales and related	105.5	105.3	106.6	106.4	105.7	104.3	104.7	105.7	106.2	.5	.5
Office and administrative support	106.7	107.7	108.5	109.2	109.7	110.6	111.1	111.4	111.8	.4	1.9
Natural resources, construction, and maintenance	107.1	108.1	109.0	109.8	110.5	110.6	111.0	111.6	112.0	.4	1.4
Installation, maintenance, and repair	107.0	105.2	107.6	108.5	109.3	109.7	110.2	112.5	111.2	.5	1.7
Production, transportation, and material moving	105.0	106.0	106.8	107.5	107.8	108.3	108.8	109.4	109.6	.2	1.7
Production	104.6	105.6	106.4	107.2	107.4	108.1	108.5	109.0	109.3	.3	1.8
Transportation and material moving	105.4	106.5	107.4	108.0	108.3	108.5	109.2	109.9	110.1	.2	1.7
Service occupations	107.1	107.9	106.6	109.7	110.1	111.0	111.2	112.1	112.3	.2	2.0
Workers by industry and occupational group											
Goods-producing industries	106.0	107.1	108.0	108.6	109.0	109.2	109.5	109.8	110.0	.2	.9
Management, professional, and related	106.0	107.7	108.4	108.7	108.8	109.3	109.3	109.4	109.4	.0	.6
Natural resources, construction, and maintenance	105.5	105.8	107.2	1107.6	107.9	100.1	100.3	100.4	112.3	.4	.0 .9
Production, transportation, and material moving	104.8	105.7	106.6	107.3	107.6	108.0	108.5	108.9	109.1	.2	1.4
Construction	107.8	109.0	110.0	110.6	111.1	111.2	111.4	111.7	111.9	.2	.7
Manufacturing	104.9	105.9	106.7	107.4	107.7	108.1	108.4	108.6	108.9	.3	1.1
Management, professional, and related	105.3	106.7	107.2	107.6	107.8	108.4	108.5	108.6	108.7	.1	.8
Sales and office	104.7	105.5	106.9	107.6	108.1	108.2	108.2	108.3	108.7	.4	.6
Natural resources, construction, and maintenance Production, transportation, and material moving	105.9 104.5	106.8 105.4	107.1 106.3	108.1 107.1	109.0 107.3	108.8 107.7	109.2 108.2	109.7 108.6	109.9 108.9	.2 .3	.8 1.5
Service-providing industries	106.8	107 7	108.6	100 2	100 6	110.0	110.2	110 P	111 1	2	1 /
Management, professional, and related	107.4	108.6	109.4	110.3	110.8	111.4	111.5	111.7	111.9	.2	1.0
Sales and office	106.3	106.8	107.7	108.0	108.0	107.9	108.3	109.0	109.5	.5	1.4
Natural resources, construction, and maintenance	106.3	106.9	108.0	108.6	109.3	109.9	110.5	111.2	111.6	.4	2.1
Production, transportation, and material moving	105.2	106.3	107.1	107.8	108.1	108.6	109.3	110.0	110.2	.2	1.9
Service occupations	107.2	108.0	108.8	109.7	110.1	111.0	111.3	112.2	112.3	.1	2.0
Trade, transportation, and utilities	105.5	105.9	107.2	107.5	107.4	107.8	108.2	108.7	108.9	.2	1.4

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

[December 2005 = 100]

	2007	7 2008				2009				Percent change		
Series	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	3 months ended	12 months ended	
										Dec.	2009	
Wholesale trade	105.2	105.2	107.2	106.8	106.4	106.8	106.5	106.2	106.4	0.2	0.0	
Retail trade	106.1	106.4	107.6	108.1	108.1	108.3	108.9	110.0	110.4	.4	2.1	
Transportation and warehousing	104.2	105.0	106.0	106.7	106.9	107.2	107.9	108.3	108.3	.0	1.3	
Utilities	106.8	108.0	109.3	109.3	109.6	111.0	112.0	112.2	113.3	1.0	3.4	
Information	105.3	105.3	106.3	107.3	107.5	107.8	108.1	108.7	109.1	.4	1.5	
Financial activities	105.9	107.2	107.7	107.7	107.2	106.8	107.9	108.5	108.9	.4	1.6	
Finance and insurance	106.6	107.9	108.4	108.2	107.6	107.1	108.5	109.0	109.4	.4	1.7	
Real estate and rental and leasing	103.1	104.5	104.7	105.3	105.7	105.6	105.8	106.3	106.8	.5	1.0	
Professional and business services	107.5	109.1	110.0	111.0	111.9	112.3	112.2	112.3	112.7	.4	.7	
Education and health services	107.7	108.6	109.2	110.2	110.6	111.4	111.8	112.5	112.8	.3	2.0	
Education services	107.4	107.9	108.6	110.8	110.8	111.1	111.2	112.2	112.6	.4	1.6	
Health care and social assistance	107.8	108.7	109.4	110.1	110.6	111.5	111.9	112.5	112.8	.3	2.0	
Hospitals	107.2	108.2	109.2	110.3	111.1	111.8	112.3	112.9	113.4	.4	2.1	
Leisure and hospitality	108.8	109.7	109.9	111.4	112.3	113.1	112.8	113.7	113.8	.1	1.3	
Accommodation and food services	109.0	110.0	110.4	111.9	112.8	113.7	113.2	114.2	114.3	.1	1.3	
Other services, except public administration	107.9	109.2	109.9	110.4	110.4	111.4	111.4	112.5	112.1	4	1.5	
State and local government workers	107.1	107.7	108.2	110.1	110.4	110.9	111.5	112.4	112.6	.2	2.0	
Workers by occupational group												
Management, professional, and related	107.0	107.6	108.2	110.1	110.4	110.7	111.2	112.1	112.3	.2	1.7	
Professional and related	107.0	107.5	108.1	110.1	110.3	110.6	111.1	112.1	112.3	.2	1.8	
Sales and office	107.0	107.4	107.9	109.3	109.7	110.5	111.2	112.1	112.4	.3	2.5	
Office and administrative support	107.3	107.8	108.3	109.7	110.1	111.0	111.6	112.6	112.9	.3	2.5	
Service occupations	107.7	108.3	108.6	110.4	110.9	112.0	112.7	113.3	113.8	.4	2.6	
Workers by industry												
Education and health services	107.1	107.5	108.1	110.2	110.5	110.7	111.1	112.1	112.3	.2	1.6	
Education services	106.8	107.2	107.7	109.9	110.1	110.4	110.7	111.7	111.9	.2	1.6	
Schools	106.8	107.2	107.7	109.9	110.1	110.4	110.7	111.7	111.9	.2	1.6	
Elementary and secondary schools	106.6	106.9	107.5	109.8	110.1	110.3	110.5	112.0	112.1	.1	1.8	
Health care and social assistance	109.2	110.1	111.0	112.8	113.4	113.1	114.8	115.2	115.6	.3	1.9	
Hospitals	108.6	109.8	110.3	111.4	112.1	112.8	114.0	114.4	114.9	.4	2.5	
Public administration ²	107.4	108.2	108.6	109.9	110.4	111.3	112.3	112.8	113.3	.4	2.6	

¹ Consists of private industry workers (excluding farm and household workers) and State and local government (excluding Federal Government) workers.
 ² Consists of legislative, judicial, administrative, and regulatory activities. NOTE: The Employment Cost Index data reflect the conversion to the 2002 North

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

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

[December 2005 = 100]

	2007	2008						09		Percent change		
Series	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	3 months ended	12 months ended	
										Dec.	2009	
Civilian workers	106.8	107.6	108.1	108.9	109.1	109.7	110.0	110.6	110.7	0.1	1.5	
Private industry workers	105.6	106.5	107.0	107.5	107.7	108.2	108.4	108.7	108.8	.1	1.0	
Workers by occupational group												
Management, professional, and related	106.0	107.3	107.9	108.5	108.5	108.8	108.8	108.9	108.8	1	.3	
Sales and office	106.0	106.5	107.0	107.6	107.8	108.0	108.1	108.5	108.7	.2	.8	
Natural resources, construction, and maintenance	105.9	106.5	107.0	107.5	107.7	108.2	108.8	109.3	109.5	.2	1.7	
Production, transportation, and material moving	103.7	104.4	104.5	104.8	105.1	106.4	106.8	107.1	107.4	.3	2.2	
Service occupations	106.7	107.6	108.5	108.7	108.8	109.7	110.0	110.4	110.5	.1	1.6	
Workers by industry												
Goods-producing	103.2	104.0	104.4	104.6	104.7	105.4	105.7	105.7	105.8	.1	1.1	
Manufacturing	101.7	102.3	102.2	102.3	102.5	103.5	103.6	103.4	103.6	.2	1.1	
Service-providing	106.6	107.6	108.1	108.7	108.9	109.3	109.5	109.9	109.9	.0	.9	
State and local government workers	111.0	111.4	111.8	113.9	114.2	115.2	115.8	117.5	117.9	.3	3.2	

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]

	2007	2008			2009				Percent change		
Series	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	3 months ended	12 months ended
										Dec.	2009
COMPENSATION											
Workers by bargaining status ¹											
Union	105.1	105.9	106.7	107.4	108.0	109.1	109.8	110.5	111.1	0.5	2.9
Goods-producing	104.0	104.6	105.6	106.2	106.9	108.0	108.9	109.5	110.0	.5	2.9
Manufacturing	101.0	101.4	101.7	102.1	102.8	104.4	104.8	105.4	105.8	.4	2.9
Service-providing	106.0	107.0	107.5	108.3	108.8	109.9	110.6	111.3	111.9	.5	2.8
Nonunion	106.5	107.5	108.3	108.9	109.1	109.4	109.6	109.9	110.1	.2	.9
Goods-producing	105.4	106.5	107.1	107.6	107.7	107.9	108.0	108.0	108.2	.2	.5
Manufacturing	104.6	105.6	106.2	106.6	106.8	107.1	107.3	107.3	107.5	.2	.7
Service-providing	106.8	107.7	108.6	109.2	109.4	109.8	110.0	110.4	110.6	.2	1.1
Workers by region ¹											
Northeast	106.8	107.4	108.1	108.7	109.5	109.8	110.2	110.7	111.0	.3	1.4
South	106.7	107.8	108.5	109.1	109.3	109.8	110.1	110.6	110.7	.1	1.3
Midwest	105.3	106.0	107.0	107.4	107.6	107.9	108.1	108.4	108.6	.2	.9
West	106.5	107.8	108.4	109.3	109.4	109.9	110.1	110.3	110.7	.4	1.2
WAGES AND SALARIES											
Workers by bargaining status ¹											
Union	104.7	105.5	106.7	107.4	108.1	108.8	109.6	110.2	110.9	.6	2.6
Goods-producing	104.3	105.2	106.4	107.1	107.7	108.2	108.8	109.5	109.8	.3	1.9
Manufacturing	102.6	103.4	104.4	104.9	105.5	106.0	106.4	107.0	107.3	.3	1.7
Service-providing	104.9	105.8	106.9	107.7	108.3	109.2	110.1	110.8	111.6	.7	3.0
Nonunion	106.9	107.9	108.7	109.4	109.6	110.0	110.2	110.6	110.9	.3	1.2
Goods-producing	106.4	107.7	108.4	109.0	109.3	109.5	109.7	109.9	110.1	.2	.7
Manufacturing	105.5	106.6	107.3	108.0	108.2	108.6	108.9	109.1	109.3	.2	1.0
Service-providing	107.0	107.9	108.8	109.4	109.7	110.1	110.3	110.8	111.0	.2	1.2
Workers by region ¹											
Northeast	106.6	107.5	108.2	108.7	109.6	109.9	110.3	110.8	111.1	.3	1.4
South	107.0	108.1	109.1	109.8	110.0	110.4	110.7	111.3	111.5	.2	1.4
Midwest	105.6	106.3	107.5	107.9	108.0	108.4	108.6	108.9	109.2	.3	1.1
West	107.0	108.3	108.9	109.9	110.1	110.5	110.8	111.2	111.6	.4	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.

doocoo, participation, and science of	Year												
Series	2002	2004	2005	2006	2007 ¹								
All retirement	2003	2004	2005	2006	2007								
Percentage of workers with access													
All workers	57	59	60	60	61								
White-collar occupations ²	67	69	70	69	-								
Management, professional, and related	-		-	-	76								
Sales and office	-	-	-	-	64								
Blue-collar occupations ²	59	59	60	62	-								
Natural resources, construction, and maintenance	-	-	-	-	61								
Production, transportation, and material moving	-	-	-	-	65								
Service occupations	28	31	32	34	36								
Full-time	67	68	69	69	70								
Part-time	24	27	27	29	31								
Union	86	84	88	84	84								
Non-union	54	56	56	57	58								
Average wage less than \$15 per hour	45	46	46	47	47								
Average wage \$15 per hour or higher	76	77	78	77	76								
Goods-producing industries	70	70	71	73	70								
Service-providing industries	53	55	56	56	58								
Establishments with 1-99 workers	42	44	44	44	45								
Establishments with 100 or more workers	75	77	78	78	78								
Percentage of workers participating													
All workers	49	50	50	51	51								
White-collar occupations ²	59	61	61	60	-								
Management, professional, and related	-	-	-	-	69								
Sales and office	-	-	-	-	54								
Blue-collar occupations ²	50	50	51	52	-								
Natural resources, construction, and maintenance	-	-	-	-	51								
Production, transportation, and material moving	-	-	-	-	54								
Service occupations	21	22	22	24	25								
Full-time	58	60	60	60	60								
Part-time	18	20	19	21	23								
Union	83	81	85	80	81								
Non-union	45	47	46	47	47								
Average wage less than \$15 per hour	35	36	35	36	36								
Average wage \$15 per hour or higher	70	71	71	70	69								
Goods-producing industries	63	63	64	64	61								
Service-providing industries	45	47	47	47	48								
Establishments with 1-99 workers	35	37	37	37	37								
Establishments with 100 or more workers	65	67	67	67	66								
Take-up rate (all workers) ³	-	-	85	85	84								
Defined Benefit													
Percentage of workers with access													
All workers	20	21	22	21	21								
White-collar occupations ²	23	24	25	23	-								
Management, professional, and related	-	-	-	-	29								
Sales and office	-	-	-	-	19								
Blue-collar occupations ²	24	26	26	25	-								
Natural resources, construction, and maintenance	-	-	-	-	26								
Production, transportation, and material moving	-	-	-	-	26								
Service occupations	8	6	7	8	8								
Full-time	24	25	25	24	24								
Part-time	8	9	10	9	10								
Union	74	70	73	70	69								
Non-union	15	16	16	15	15								
Average wage less than \$15 per hour	12	11	12	11	11								
Average wage \$15 per hour or higher	34	35	35	34	33								
Goods-producing industries	31	32	33	32	29								
Service-providing industries	17	18	19	18	19								
Establishments with 1-99 workers	9	9	10	9	9								
Establishments with 100 or more workers	34	35	37	35	34								

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

Sorios		Ye	ear		
Series	2003	2004	2005	2006	2007 ¹
Percentage of workers participating					
All workers	20	21	21	20	20
White-collar occupations ²	22	24	24	22	-
Management, protessional, and related		-	-	-	28
Sales and onice		-	-	-	17
Natural resources construction and maintenance	- 24	- 25	- 20	- 25	- 25
Production, transportation, and material moving	-	-	-	-	25
Service occupations	7	6	7	7	7
Full-time	24	24	25	23	23
Part-time	8	9	9	8	9
Union	. 72	69	72	68	67
Non-union	15	15	15	14	15
Average wage less than \$15 per hour	11	11	11	10	10
Average wage \$15 per nour or nigner	33	35	34	33	32
Goods-producing industries	31	31	32	31	28
Service-providing industries	16	18	18	17	18
Establishments with 1-99 workers	8	9	9	9	9
Establishments with 100 or more workers	. 33	34	36	33	32
Take-up rate (all workers) ³		-	97	96	95
Defined Contribution					
Percentage of workers with access					
All workers	51	53	53	54	55
White-collar occupations ²	62	64	64	65	-
Management, professional, and related	-	-	-	-	71
Sales and office	-	-	-	-	60
Blue-collar occupations ²	49	49	50	53	-
Natural resources construction and maintenance		-	-	-	51
Production transportation and material moving	-	-	-	-	56
Service occupations	23	27	28	30	32
Full-time	60	62	62	63	64
Part time	21	22	22	25	27
	45	19	10	50	27
Non union		40	49	50	45
	51	55	54	55	30
Average wage less than \$15 per nour	40	41	41	43	44
Average wage \$15 per nour or nigner	67	68	69	69	69
Goods-producing industries	60	60	61	63	62
Service-providing industries	48	50	51	52	53
Establishments with 1-99 workers	38	40	40	41	42
Establishments with 100 or more workers	65	68	69	70	70
Percentage of workers participating					
All workers	40	42	42	43	43
White-collar occupations ²	51	53	53	53	-
Management, professional, and related	-	-	-	-	60
Sales and office	-	-	-	-	47
Blue-collar occupations ²	38	38	38	40	-
Natural resources, construction, and maintenance	_	-	-	-	40
Production transportation and material moving	-	-	-	-	41
Service occupations	16	18	18	20	20
Full-time	10	50	50	51	50
Port time	40	14	14	16	10
	14	14	14	10	10
	39	42	43	44	41
	40	42	41	43	43
Average wage less than \$15 per hour	29	30	29	31	30
Average wage \$15 per hour or higher	57	59	59	58	57
Goods-producing industries	49	49	50	51	49
Service-providing industries	37	40	39	40	41
Establishments with 1-99 workers	31	32	32	33	33
Establishments with 100 or more workers	51	53	53	54	53
Take-up rate (all workers) ³	-	-	78	79	77

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

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

Sorioo		Ye	ear		
Selles	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.

 $^{\rm 2}$ 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.

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

Series			Year		
ocnes	2003	2004	2005	2006	2007 ¹
Medical insurance					
Percentage of workers with access					
All workers	60	69	70	71	71
White-collar occupations ²	65	76	77	77	-
Management, professional, and related	-	-	-	-	85
Sales and office	-	-	-	-	71
Blue-collar occupations ²	64	76	77	77	-
Natural resources, construction, and maintenance	-	-	-	-	76
Production, transportation, and material moving	-	-	-	-	78
Service occupations	38	42	44	45	46
Full-time	73	84	85	85	85
Part-time	17	20	22	22	24
Union	67	89	92	89	88
Non-union	59	67	68	68	69
Average wage less than \$15 per hour	51	57	58	57	57
Average wage \$15 per hour or higher	74	86	87	88	87
Goods-producing industries	68	83	85	86	85
Service-providing industries	57	65	66	66	67
Establishments with 1-99 workers	19	58	59	59	59
Establishments with 100 or more workers	40	92	84	84	94
	12	02	04	04	04
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	30	38	37
Average wage less than \$15 per hour or bigher	61	70	72	71	70
Average wage \$15 per hour or higher	57	71	72	71	70
Goods-producing industries	57	69	70	70	00
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
Salos and office					47
Plue celler conjunctions ²	-	-	-	-	47
Neturel recourses construction and maintenance	40	47	47	40	-
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

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

Occier			Year		
Series	2003	2004	2005	2006	2007 ¹
Percentage of workers participating					
All workers	32	37	36	36	36
White-collar occupations ²	37	43	42	41	-
Management, professional, and related	-	-	-	-	51
Sales and office	-	-	-	-	33
Blue-collar occupations ²	33	40	39	38	-
Natural resources, construction, and maintenance	-	-	-	-	36
Production, transportation, and material moving	-	-	-	-	38
Service occupations	15	16	17	18	20
Full-time	40	46	45	44	44
Part-time	6	8	9	10	9
Union	51	68	67	63	62
Non-union	30	33	33	33	33
Average wage less than \$15 per hour	22	26	24	23	23
Average wage \$15 per hour or higher	47	53	52	52	51
Goods-producing industries	42	49	49	49	45
Service-providing industries	29	33	33	32	33
Establishments with 1-99 workers	21	24	24	24	24
Establishments with 100 or more workers	44	52	51	50	49
Take-up rate (all workers) ³	-	-	78	78	77
Vision care					
Percentage of workers with access	25	29	29	29	29
Percentage of workers participating	19	22	22	22	22
Outpatient Prescription drug coverage					
Percentage of workers with access	-	-	64	67	68
Percentage of workers participating	-	-	48	49	49
Percent of estalishments offering healthcare benefits	58	61	63	62	60
Percentage of medical premium paid by					
Employer and Employee					
Single coverage					
Employer share	82	82	82	82	81
Employee share	18	18	18	18	19
Family coverage					
Employer share	70	69	71	70	71
Employee share	30	31	29	30	29

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

¹ The 2002 North American Industry Classification System (NAICS) replaced the 1987 Standard Industrial Classification (SIC) System. Estimates for goods-producing and service-providing (formerly service-producing) industries are considered comparable. Also introduced was the 2000 Standard Occupational Classification (SOC) to replace the 1990 Census of Population system. Only service occupations are considered comparable.

² The white-collar and blue-collar occupation series were discontinued effective 2007.

³ The take-up rate is an estimate of the percentage of workers with access to a plan who participate in the plan.

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

Benefit			Year		
Benefit	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

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

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

Mossura	Annual	average	20	08						2009					
weasure	2008	2009	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. ^p
Number of stoppages:															
Beginning in period	15	-	0	0	0	0	0	0	0	1	1	1	0	0	2
In effect during period	16	-	1	0	0	0	0	0	0	1	2	1	1	0	2
Workers involved:		-													
Beginning in period (in thousands)	72.2	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.5	1.9	0.0	0.0	6.6
In effect during period (in thousands).	136.8	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.0	1.9	1.9	0.0	6.6
Days idle:		-													
Number (in thousands)	1954.1	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	43.5	5.7	15.2	0.0	29.7
Percent of estimated working time 1	0.01	-	0	0	0	0	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 total time 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]

Contine	Annual	average	2008						20	09					
Series	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
CONSUMER PRICE INDEX										-	-				
FOR ALL URBAN CONSUMERS															
All items	215.303	214.537	210.228	211.143	212.193	212.709	213.240	213.856	215.693	215.351	215.834	215.969	216.177	216.330	215.949
All items (1967 = 100)	. 644.951	642.658	629.751	632.491	635.637	637.182	638.771	640.616	646.121	645.096	646.544	646.948	647.570	648.028	646.887
Food and beverages	214.225	218.249	218.839	219.729	219.333	218.794	218.364	218.076	218.030	217.608	217.701	217.617	217.957	217.733	218.049
Food at home	214.100	217.900	210.000	219.075	219.205	210.000	216.102	217.020	217.740	217.207	217.350	217.210	217.520	217.200	217.037
Cereals and bakery products	244 853	252 567	253.063	254 445	254 187	253 698	252 709	252 714	253 008	253 391	252 382	251 231	251 421	250 600	251 019
Meats, poultry, fish, and eggs	204.653	203.805	208.890	208.616	207.963	206.348	205.699	203.789	204.031	201.743	202.911	201.755	200.597	201.202	201.003
Dairy and related products ¹	210.396	197.013	210.838	209.632	204.537	199.687	197.124	196.055	194.197	193.118	192.381	193.353	195.360	193.914	194.792
Fruits and vegetables	278.932	272.945	281.706	282.601	278.721	274.759	274.297	274.006	272.608	270.940	267.309	267.609	269.467	269.832	273.189
Nonalcoholic beverages and beverage															
materials	160.045	163.034	162.750	164.882	164.213	165.656	162.889	162.803	162.571	162.069	162.953	162.911	162.885	161.358	161.216
Other foods at home	184.166	191.220	190.203	192.492	192.404	192.234	191.352	191.144	191.328	190.967	191.317	190.571	191.266	189.640	189.921
Sugar and sweets	186.577	196.933	193.312	197.429	196.676	197.137	197.301	196.403	197.009	195.126	195.430	196.998	196.747	198.227	198.712
Fats and oils	. 196.751	201.224	206.710	206.886	205.359	204.776	200.464	200.679	201.127	201.031	200.578	200.009	199.916	196.473	197.391
Other foods	. 198.103	205.497	203.902	206.343	206.621	206.367	205.734	205.587	205.654	205.544	206.064	204.728	205.814	203.671	203.832
Other miscellaneous foods ^{1,2}	119.924	122.393	123.791	124.012	122.580	122.402	122.883	122.838	122.224	121.990	121.892	122.099	122.112	121.263	122.422
Food away from home ¹	215.769	223.272	220.684	221.319	221.968	222.216	222.905	223.023	223.163	223.345	223.675	224.003	224.224	224.633	224.789
Other food away from home ^{1,2}	150.640	155.852	154.062	153.402	154.726	154.414	155.099	155.099	155.841	156.570	156.697	157.302	157.056	157.027	156.990
Alconolic beverages	214.484	220.751	217.975	219.113	219.682	219.999	219.671	220.005	220.477	220.850	220.946	221.474	222.232	222.485	222.082
Shelter	246 666	249 354	247 085	210.920	248 878	217.374	249 855	210.971	250 243	250 310	250 248	249 501	249 474	248 211	247 863
Rent of primary residence.	243.271	248.812	247.278	247.974	248.305	248.639	248.899	249.069	249.092	248.994	249.029	248.965	248.888	248.886	248,999
Lodging away from home	143.664	134.243	129.157	133.559	135.809	137.715	137.700	135.680	138.318	139.424	137.454	133.706	133.485	125.426	122.638
Owners' equivalent rent of primary residence ³	252.426	256.610	254.875	255.500	255.779	256.321	256.622	256.875	256.981	256.872	257.155	256.865	256.890	256.731	256.727
Tenants' and household insurance ^{1,2}	118 843	121 487	120 019	120 402	120 683	120 737	120 675	120 728	121 083	121 298	121 830	122 170	122 184	122 243	123 812
Fuels and utilities	220.018	210.696	215.184	215.232	213.520	210.501	207.175	206.358	212.677	212.961	212.661	211.618	207.937	208.955	208.760
Fuels	200.808	188.113	194.335	194.149	192.168	188.736	184.903	183.783	190.647	190.534	189.735	188.509	184.146	185.165	184.886
Fuel oil and other fuels	. 334.405	239.778	256.209	247.163	242.264	230.837	228.107	225.164	232.638	230.192	237.521	236.616	243.936	260.250	262.649
Gas (piped) and electricity	202.212	193.563	199.487	199.791	197.886	194.752	190.686	189.619	196.754	196.767	195.475	194.176	188.963	189.166	188.724
Household furnishings and operations	. 127.800	128.701	128.535	128.761	129.170	129.669	129.654	129.644	129.623	129.267	128.304	128.201	127.740	127.265	127.119
Apparel	. 118.907	120.078	117.078	114.764	118.825	122.545	123.208	121.751	118.799	115.620	117.130	122.476	123.998	122.465	119.357
Men's and boys' apparel.	113.032	113.628	110.767	110.797	115.202	117.748	117.195	117.146	112.849	109.744	110.835	112.933	114.818	113.636	110.633
women's and gins apparent	107.400	100.091	105.450	100.038	105.777	111.079	111.071	109.400	100.455	101.000	103.991	112.000	113.030	111.400	100.304
Infants' and toddlers' apparel	113.762	114.489	112.568	112.321	113.544	115.548	117.084	114.142	113.915	111.022	113.673	116.309	117.300	116.312	112.695
Footwear	124.157	126.854	124.093	122.363	124.301	126.707	128.057	127.519	125.515	124.405	125.292	128.670	130.333	130.594	128.492
Private transportation.	191.039	174,762	159.411	161.788	164.871	165.023	167.516	171.757	179.649	178.330	179.987	179.466	180.896	184.099	183,766
Now and used meter vehicles ²	93 291	93 486	91 408	91 831	92 224	92 109	92 381	92 701	93 020	93 413	93 126	93 440	95 131	96.039	96 421
New vehicles	134.194	135.623	132.308	133.273	134.186	134.611	134.863	135.162	135.719	136.055	134.080	134.576	137.268	138.831	138.857
Used cars and trucks ¹	133.951	126.973	125.883	124.863	122.837	121.061	121.213	122.650	124.323	125.061	128.028	129.369	132.689	134.173	137.406
Motor fuel	279.652	201.978	149.132	156.604	167.395	168.404	177.272	193.609	225.021	217.860	225.089	220.690	219.015	228.050	224.730
Gasoline (all types)	277.457	201.555	146.102	154.488	166.118	167.826	176.704	193.727	225.526	217.945	225.179	220.542	218.683	227.665	224.260
Motor vehicle parts and equipment	. 128.747	134.050	133.077	133.414	134.108	134.484	134.640	134.347	134.270	133.729	133.531	133.406	133.650	134.234	134.781
Motor vehicle maintenance and repair	233.859	243.337	239.356	241.076	241.689	242.118	242.649	242.488	242.683	243.031	243.494	244.493	245.393	245.511	245.417
Public transportation	250.549	236.348	237.638	234.394	231.529	230.735	229.827	228.878	232.540	238.932	238.997	239.855	241.060	244.226	245.203
Medical care commodities	206 045	305 108	208 361	200.000	302 184	302 008	303 070	304 697	304 683	304 220	305 707	307 671	308 370	308 546	308 221
Medical care services.	384.943	397.299	388.267	391.365	394.047	394.837	395.753	396.648	396.750	397.868	398.303	399.160	400.015	401.392	401.452
Professional services	310.968	319.372	313.886	315.603	316.992	317.460	317.661	319.333	319.652	320.076	320.252	320.756	321.381	321.473	321.827
Hospital and related services	533.953	567.879	543.585	551.305	558.373	560.995	564.785	564.112	564.406	568.315	570.150	572.991	575.540	581.603	581.968
Recreation ²	113.254	114.272	113.674	113.822	114.461	114.625	114.261	114.264	114.643	114.619	114.755	114.629	114.157	113.820	113.212
Video and audio ^{1,2}	102.632	101.276	101.629	101.347	101.704	102.000	102.300	101.947	101.871	101.614	101.474	100.801	100.178	100.199	99.873
Education and communication ²	123.631	127.393	125.921	126.151	126.190	126.187	126.273	126.467	126.519	126.914	128.128	129.035	129.128	128.845	128.883
Education ²	181.277	190.857	186.916	187.175	187.256	187.298	187.416	187.853	188.179	189.184	193.161	195.595	195.849	195.649	195.672
Educational books and supplies	. 450.187	482.072	464.544	468.432	469.996	472.185	472.507	472.588	476.974	481.768	490.102	493.636	494.435	495.660	496.580
l ultion, other school rees, and child care	8/ 185	548.971 84.954	538.309 84 737	538.765	538.878	538.813	539.149 84.085	540.498 85.049	541.119 84.075	543.810 85.056	555.402 8/ 013	562.635 85.044	85 055	562.623 84.768	562.610 84.800
Communication ''-	81 352	81 044	81 886	82.030	82 052	82 022	82.000	82.038	81 000	81 001	81 835	81 969	81 078	81 688	81 728
Telephone convices ^{1,2}	100.451	102.392	101.688	101.880	101.895	101.991	102.072	102.267	102.182	102.643	102.674	102.968	102.891	102.528	102.707
Information and information processing	100.401	102.002				101.001	.02.012		102.102					. 02.020	
14	40.004	0.070	0.000	0.040	0.000	0.070	0.004	0.775	0.704	0.004	0.400	0.407	0.504	0.407	0.400
other than telephone services	10.061	9.672	9.906	9.919	9.926	9.872	9.881	9.775	9.731	9.604	9.499	9.407	9.501	9.407	9.423
Personal computers and peripheral															l
equipment ^{1,2}	94.944	82.304	88.529	88.522	87.696	86.213	85.714	84.366	83.476	80.838	78.576	77.997	78.213	78.077	77.960
Other goods and services	. 345.381	368.586	349.220	350.259	351.223	361.156	370.606	369.901	370.595	372.894	372.699	374.219	375.444	376.702	377.330
I obacco and smoking products	588.682	/30.316	602.644	607.403	611.549	679.078	/42.443	740.311	/46.283	/62.907	763.634	771.089	/73.758	781.538	/83.794
Personal care	201.279	204.587	202.774	203.080	203.391	204.117	204.896	204.578	204.503	204.571	204.352	204.751	205.406	205.575	∠05.823
Personal care products	223 660	227 580	226 281	225 734	225 805	227 082	227 012	227 607	227 572	227 325	227 580	228 286	228 /65	228 259	228 2/2
Personal care services	223.009	221.308	220.201	220.134	220.095	221.902	221.913	221.001	221.312	221.323	221.300	220.200	220.400	220.308	220.343

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]

	Annual	average	2008						20	09					
Series	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Miscellaneous personal services	338.921	344.469	339.698	340.608	341.188	341.570	342.641	343.051	344.232	344.367	345.137	345.515	347.834	348.792	348.697
Commodity and service group:															
Commodities	174.764	169.698	163.582	164.360	165.891	166.645	167.816	169.060	171.593	170.483	171.081	171.559	172.252	173.061	172.572
Food and beverages	214.225	218.249	218.839	219.729	219.333	218.794	218.364	218.076	218.030	217.608	217.701	217.617	217.957	217.733	218.049
Commodities less food and beverages	153.034	144.395	135.720	136.427	138.702	139.962	141.753	143.587	147.099	145.742	146.528	147.222	148.037	149.245	148.441
Nondurables less food and beverages	196.192	178.959	161.681	162.938	167.560	170.200	173.855	177.480	184.581	181.755	184.366	185.544	185.759	187.776	185.689
Аррагег	. 110.907	120.076	117.076	114.704	110.025	122.545	123.200	121.751	110.799	115.620	117.130	122.470	123.990	122.405	119.357
Non durables less food, beverages,															
and apparel	248.809	219.592	192.948	196.490	201.554	203.557	209.177	216.090	229.692	227.038	230.396	228.954	228.344	232.649	231.169
Durables	. 110.877	109.859	108.811	109.025	109.221	109.264	109.404	109.650	109.983	109.924	109.129	109.387	110.684	111.159	111.477
Services	255.498	259.154	256.731	257.780	258.328	258.597	258.466	258.433	259.544	259.992	260.355	260.136	259.844	259.323	259.055
Rent of shelter ³	257.152	259.924	257.567	258.830	259.440	260.197	260.469	260.388	260.869	260.935	260.858	260.064	260.035	258.704	258.303
Transportation services	. 244.074	251.031	246.287	247.006	248.114	247.912	248.696	248.628	249.194	251.184	252.234	253.001	254.449	255.935	256.014
Other services	. 295.780	303.992	300.067	300.614	301.471	302.024	301.668	302.132	303.000	303.761	305.890	307.161	307.011	306.740	306.436
Special indexes:															
All items less food	215.528	214.008	208.855	209.777	211.076	211.775	212.464	213.236	215.389	215.069	215.617	215.795	215.986	216.207	215.703
All items less shelter	205.453	203.301	198.127	198.936	200.184	200.626	201.271	202.171	204.578	204.069	204.776	205.263	205.567	206.286	205.888
All items less medical care	. 207.777	206.555	202.442	203.281	204.265	204.766	205.275	205.876	207.764	207.388	207.855	207.949	208.131	208.250	207.860
Commodities less food	. 155.310	147.071	138.536	139.258	141.491	142.728	144.464	146.261	149.697	148.386	149.155	149.846	150.663	151.847	151.052
Nondurables less food and apparel	244.443	218.687	194.403	197.704	202.323	204.159	209.195	215.459	227.768	225.410	228.446	227.195	226.717	230.622	229.250
Nondurables	205.901	198.548	189.557	190.649	192.943	194.105	195.864	197.673	201.461	199.746	201.191	201.783	202.058	203.035	202.064
Services less rent of shelter 3	273.000	278.064	275.370	276.227	276.739	276.407	275.752	275.777	277.777	278.747	279.697	280.194	279.545	280.014	279.896
Services less medical care services	244.987	248.122	246.090	247.013	247.439	247.675	247.490	247.406	248.557	248.963	249.316	249.043	248.692	248.075	247.793
Energy	236.666	193.126	171.158	174.622	178.741	177.454	179.704	186.909	205.408	201.938	204.971	202.243	199.198	204.026	202.301
All items less energy	214.751	218.433	215.930	216.586	217.325	218.033	218.388	218.323	218.440	218.421	218.642	219.076	219.624	219.291	219.048
All items less food and energy	140 246	219.235	216.100	216.719	217.685	218.639	219.143	219.128	219.283	219.350	219.596	1/12 720	220.731	220.384	220.025
Energy commodities	284.352	205.281	155.745	162.395	172.428	172.787	181.102	196.528	226.881	219.922	227.204	222.961	221.749	231.226	228.186
Services less energy	261.017	265.875	262.636	263.759	264.547	265.147	265.399	265.466	265.993	266.484	267.008	266.894	267.081	266.488	266.237
CONSUMER PRICE INDEX FOR URBAN															
WAGE EARNERS AND CLERICAL WORKERS															
	211 053	209 630	204 813	205 700	206 708	207 218	207 925	208 774	210 972	210 526	211 156	211 322	211 549	212 003	211 703
	211.000	200.000	20 1.0 10	20000	20000	207.210	201.020	200	210.072	210.020				212.000	
All items (1967 = 100)	. 628.661	624.423	610.075	612.719	615.719	617.239	619.344	621.875	628.422	627.093	628.970	629.462	630.140	631.491	630.600
Food and beverages	213.340	217.400	218 155	219.123	218.045	217 855	217.000	217.300	217.250	216 384	216.957	216 313	217.123	216.000	216 679
Food at home	213.017	213.908	217.498	218.485	217.111	215.922	214.654	213.876	213.657	212.628	212.623	212.010	212.396	211.488	212.041
Cereals and bakery products	245.472	253.214	253.759	255.055	254.775	254.395	253.556	253.430	253.701	253.969	252.932	251.754	252.049	251.376	251.570
Meats, poultry, fish, and eggs	204.255	203.394	208.639	208.161	207.656	206.094	205.527	203.409	203.503	201.261	202.483	201.087	200.210	200.709	200.623
Dairy and related products ¹	209.773	195.679	209.922	208.530	203.023	198.048	195.714	194.694	192.898	191.783	191.048	192.048	194.120	192.695	193.546
Fruits and vegetables	276.759	270.562	278.835	279.906	275.884	2/1./2/	2/1.//1	271.530	270.653	269.316	265.730	265.810	267.084	267.049	270.279
Nonalcoholic beverages and beverage															
materials	159.324	162.598	162.280	164.514	163.821	165.437	162.464	162.468	162.167	161.650	162.433	162.396	162.456	160.619	160.745
Other foods at home	183.637	190.519	189.527	191.782	191.620	191.594	190.650	190.401	190.657	190.235	190.704	189.892	190.630	188.868	189.197
Sugar and sweets	185.494	195.702	192.120	195.867	195.395	196.015	195.858	194.928	195.773	194.005	194.511	196.027	195.752	197.031	197.258
Fats and oils	197.512	202.003	207.439	207.400	206.185	205.693	201.474	201.470	202.004	201.666	201.199	200.621	200.759	197.400	198.165
Other roods	120 348	122 753	1203.937	124 477	122 994	122 837	123 112	123 126	122 537	122 119	122 217	122 496	122 676	121 647	122 796
Other miscellaneous foods	215 613	223 383	220 847	221 497	222 101	222 336	222 957	223 082	223 186	223 408	223 789	224 102	224 382	224 815	224 940
Food away from home		155.007	450.040	450.007	454.500	154.054		454.400	455.004	450.004	150 700	457.400	450.000	450.050	450.000
Alcoholic beverages	214 579	221 325	218 445	219 458	154.520	220 500	220 243	220 729	221 179	221 517	221 618	221 454	222 555	223 445	223 168
Housing	214.073	212 1.020	210.440	213.430	212 102	220.000	212 005	220.723	214 024	214 020	212 024	212 201	212 724	223.445	223.100
Shelter	239.128	242.637	240.752	241.651	242.051	242.605	242.857	242.941	243.238	243.248	243.279	242.816	242.804	242.159	241.991
Rent of primary residence	242.196	247.401	246.026	246.696	246.991	247.285	247.517	247.710	247.691	247.573	247.601	247.500	247.422	247.361	247.465
Lodging away from home ²	143.164	135.163	129.982	134.235	136.255	138.008	138.008	136.113	139.246	140.873	138.543	134.803	134.586	127.061	124.222
Owners' equivalent rent of primary residence ³	228.758	232.499	230.926	231.503	231.746	232.235	232.503	232.739	232.837	232.723	232.977	232.731	232.761	232.635	232.603
Tenants' and household insurance ^{1,2}	119.136	121.935	120.360	120.715	120.960	121.099	121.084	121.160	121.529	121.765	122.254	122.644	122.761	122.830	124.415
Fuels and utilities	217 883	209 595	213 861	213 882	212 353	209 400	205 840	205 270	211 929	212 276	211 808	210 796	206 732	207 530	207 329
Fuels	197.537	186.229	192.050	191.852	190.110	186.809	182,795	181.977	189.108	189.082	188.125	186.967	182.227	182.994	182.701
Fuel oil and other fuels	331.784	243.003	260.185	251.976	246.781	236.237	232.068	229.019	235.869	233.018	239.435	238.006	246.153	262.340	265.130
Gas (piped) and electricity	200.265	191.981	197.545	197.703	196.040	192.922	188.735	187.982	195.445	195.547	194.211	193.013	187.473	187.572	187.125
Household furnishings and operations	123.635	124.632	124.314	124.454	124.865	125.337	125.458	125.589	125.526	125.160	124.219	124.351	123.995	123.448	123.187
Men's and boys' apparel	113 490	114 340	111.232	111.879	116.332	118,735	117,834	117 687	113 416	110.558	111.629	113.682	115,381	114,091	110.856
Women's and girls' apparel	. 107.489	107.602	105.413	100.751	105.538	110.380	110.990	108.637	105.676	101.289	103.727	112.086	113.290	111.039	107.819
Infants' and toddlers' apparel ¹	116.266	117.202	115.003	114.775	116.001	117.944	119.873	116.912	116.645	113.744	116.482	119.075	119.949	119.272	115.754
Footwear.	124.102	127.183	124.152	122.753	124.494	126.858	128.312	127.802	126.150	125.046	125.880	128.988	130.596	130.682	128.637
Transportation	195.692	176.729	160.914	163.215	165.976	165.978	168.539	173.055	181.730	180.419	182.541	182.024	183.506	186.928	186.839
Private transportation	192.492	173.491	157.272	159.719	162.645	162.659	165.299	169.957	178.734	177.197	179.368	178.801	180.271	183.680	183.565
New and used motor vehicles ²	92.146	91.308	89.482	89.774	89.728	89.418	89.620	90.039	90.588	90.973	91.129	91.599	93.414	94.338	95.072

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]

	Annual	average	2008							2009					
Series	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
New vehicles	135.338	136.711	133.317	134.490	135.248	135.744	135.911	136.113	136.800	137.082	135.130	135.672	138.422	139.952	139.962
Used cars and trucks ¹	134.731	127.687	126.526	125.485	123.443	121.669	121.850	123.339	125.056	125.817	128.781	130.122	133.458	134.977	138.242
Motor fuel	280.817	202.695	149.650	157.265	168.028	169.060	177.982	194.339	225.876	218.560	225.797	221.241	219.733	228.871	225.584
Gasoline (all types)	278.728	202.375	146.644	155.204	166.831	168.574	177.510	194.569	226.515	218.757	226.007	221.197	219.509	228.598	225.223
Motor vehicle parts and equipment	128.776	134.133	133.295	133.645	134.264	134.485	134.614	134.439	134.273	133.787	133.587	133.504	133.764	134.346	134.892
Motor vehicle maintenance and repair	236.353	245.795	241.855	243.594	244.219	244.650	245.180	245.036	245.129	245.421	245.871	246.850	247.811	247.972	247.812
Public transportation	247.000	234.001	235.199	232.422	229.404	229.034	228.525	221.522	230.920	230.903	237.029	238.225	239.729	242.090	243.453
Medical care commoditios	287 070	370.004	200.080	201 710	372.030	373.341	205 600	375.420	206 260	205 971	207 270	200.008	3/9.0/2	200 072	200.302
Medical care services	386 317	399 165	389 744	392 831	395 563	396 489	295.099	398 387	398 497	399 677	400 204	401 217	402 075	403 695	403 791
Professional services.	313.446	322.127	316.435	318.110	319.663	320.231	320.407	322.043	322.346	322.759	322.964	323.577	324.284	324.382	324.763
Hospital and related services	530.193	565.029	540.101	547.655	554.390	557.167	561.516	560.906	561.337	565.448	567.545	570.697	573.069	580.048	580.567
Recreation ²	110.143	111.015	110.487	110.630	111.257	111.436	111.182	111.152	111.471	111.416	111.453	111.205	110.724	110.401	109.851
Video and audio ^{1,2}	102.654	101.602	101.810	101.488	101.857	102.153	102.516	102.214	102.193	101.982	101.867	101.228	100.639	100.681	100.400
Education and communication ²	119.827	123.017	121.819	122.025	122.092	122.087	122.152	122.293	122.333	122.699	123.579	124.322	124.362	124.100	124.156
Education ²	178.892	188.143	184.352	184.642	184.765	184.824	184.892	185.291	185.626	186.596	190.222	192.552	192.774	192.776	192.760
Educational books and supplies	452.880	485.025	467.179	471.061	473.012	474.880	474.950	475.213	480.024	485.218	493.615	496.691	497.534	498.627	499.478
Tuition, other school fees, and child care	504.163	529.316	519.500	519.987	520.159	520.146	520.348	521.550	522.076	524.523	534.825	541.688	542.284	542.174	542.036
Communication ^{1,2}	86.807	87.662	87.444	87.599	87.640	87.615	87.671	87.712	87.652	87.780	87.667	87.810	87.786	87.468	87.541
Information and information processing 1.2.	84.828	85.571	85.454	85.581	85.624	85.595	85.655	85.624	85.524	85.653	85.532	85.676	85.651	85.331	85.404
Telephone services ^{1,2}	100.502	102.341	101.720	101.876	101.890	101.977	102.048	102.231	102.153	102.587	102.613	102.896	102.818	102.413	102.585
Information and information processing															
other than telephone services ^{1,4}	10.567	10.178	10.406	10.418	10.442	10.378	10.385	10.271	10.238	10.113	10.012	9.975	9.995	9.969	9.935
Personal computers and peripheral															
equipment ^{1,2}	94.863	82,104	88,176	88,178	87.622	86.004	85.406	84.017	83.278	80.736	78.480	77.835	77.939	77.926	77.821
Other goods and services.	357.906	391.628	362.986	364.333	365.522	380.208	394.902	394.061	395.052	398.448	398.228	400.245	401.390	403.178	403.970
Tobacco and smoking products	591.100	735.056	605.662	610.503	615.012	682.115	747.906	746.009	752.078	768.005	768.483	776.198	778.650	786.541	789.173
Personal care ¹	199.170	202.490	200.918	201.209	201.426	202.099	203.010	202.631	202.406	202.490	202.221	202.576	203.115	203.245	203.454
Personal care products ¹	159.410	162.557	161.295	162.683	162.543	162.516	163.911	163.119	162.165	162.767	162.415	162.312	162.242	161.784	162.231
Personal care services ¹	223.978	227.804	226.578	225.951	226.088	228.201	228.119	227.829	227.800	227.512	227.751	228.480	228.683	228.614	228.614
Miscellaneous personal services	340.533	346.500	342.530	343.022	343.443	344.021	345.016	345.326	346.411	346.525	347.402	347.658	349.283	350.046	349.851
Commodity and service group:															
Commodities	177.618	171.452	164.233	165.151	166.673	167.514	169.005	170.532	173.662	172.493	173.379	173.777	174.550	175.563	175.127
Food and beverages	213.546	217.480	218.269	219.123	218.645	218.119	217.653	217.308	217.258	216.805	216.957	216.734	217.123	216.853	217.186
Commodities less food and beverages	157.481	147.327	137.015	137.932	140.235	141.615	143.871	146.125	150.477	149.046	150.209	150.851	151.760	153.273	152.532
Nondurables less food and beverages	205.279	185.579	164.879	166.694	171.698	174.838	179.415	183.813	192.478	189.436	192.365	193.225	193.394	195.926	193.667
Apparei	118.735	119.847	117.006	114.969	118.766	122.162	122.709	121.364	118.547	115.516	117.095	122.176	123.642	122.228	118.984
Nondurables less food, beverages,															
and apparel	263.756	230.503	198.108	202.400	208.255	211.287	218.502	226.621	242.726	239.626	243.461	241.657	241.005	246.085	244.413
Durables	111.217	109.610	108.576	108.689	108.592	108.413	108.596	108.933	109.430	109.432	109.039	109.470	110.988	111.575	112.165
Services	250.272	204.207	252.176	253.033	203.400	253.591	253.403	253.482	204.024	255.003	200.342	200.244	204.847	254.663	254.519
Rent of shelter	230.555	233.917	232.112	232.981	233.365	233.903	234.148	234.229	234.511	234.515	234.537	234.079	234.064	233.436	233.241
Other services	284 319	291 572	288 227	288 627	289 432	290.043	240.009	290 116	290 845	291 573	293 266	294 190	293 938	293 624	293 470
Special indexes:															
All items less food	210 452	208 128	202 292	203 186	204 465	205 167	206 081	207 148	209 744	209 308	210 021	210 255	210 462	211 055	210 639
All items less shelter.	203.102	199.860	193.918	194.811	196.052	196.551	197.432	198.571	201.488	200.871	201.726	202.123	202.441	203.301	202.951
All items less medical care	204.626	202.810	198.153	198.978	199.928	200.421	201.112	201.955	204.200	203.723	204.341	204.472	204.680	205.106	204.800
Commodities less food	159.538	149.780	139.620	140.543	142.809	144.172	146.371	148.589	152.856	151.466	152.606	153.229	154.147	155.650	154.918
Nondurables less food	206.047	187.718	167.933	169.708	174.484	177.487	181.815	186.012	194.254	191.387	194.170	194.978	195.196	197.644	195.487
Nondurables less food and apparel	258.423	228.679	198.909	202.906	208.291	211.094	217.649	225.091	239.808	237.011	240.515	238.857	238.355	243.061	241.513
Nondurables	210.333	201.628	190.910	192.284	194.740	196.174	198.408	200.601	205.219	203.377	205.017	205.374	205.647	206.876	205.823
Services less rent of shelter ³	241.567	245.814	243.646	244.376	244.791	244.413	243.718	243.784	245.833	246.622	247.308	247.664	246.851	247.237	247.174
Services less medical care services	240.275	243.796	242.079	242.819	243.128	243.223	242.980	243.022	244.196	244.531	244.857	244.707	244.258	243.991	243.838
	237.414	192.594	210 169	210 707	211 270	211 090	1/8.485	186.321	205.662	201.967	205.144	202.287	199.223	204.196	202.398
All items less food and energy	200.719	212.002	208 925	209 404	210 203	211.909	212.472	212.402	212.002	212.000	212.023	213 14/	213.990	213 787	213 572
Commodities less food and energy	141.084	143.099	139.731	139.614	140.554	142.077	143.237	143.170	142.943	142.526	142.634	144.148	145.439	145.595	145.253
Energy commodities	284.270	205.325	154.744	161.781	171.978	172.563	181.021	196.706	227.444	220.264	227.506	223.048	221.910	231.371	228.303
Services less energy	255.598	261.022	258.039	258.976	259.643	260.158	260.439	260.615	261.014	261.425	261.960	261.990	262.196	261.979	261.871

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

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

 $^4\,$ 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	ing All Urban Consumers							Urban Wage Earners					
	sched-			20	009					20	09			
	ule ¹	July	Aug.	Sept.	Oct.	Nov.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	
U.S. city average	М	215.351	215.834	215.969	216.177	216.330	215.949	210.526	211.156	211.322	211.549	212.003	211.703	
Region and area size ²														
Northeast urban	М	230.154	230.883	231.200	231.304	231.708	231.462	226.714	227.598	228.158	228.193	229.048	228.794	
Size A—More than 1,500,000	М	232.416	233.314	233.695	233.415	233.785	233.475	227.550	228.472	229.067	228.720	229.541	229.180	
Size B/C-50,000 to 1,500,000 ³	М	136.417	136.598	136.691	137.348	137.646	137.597	136.626	137.109	137.400	137.959	138.527	138.522	
Midwest urban ⁴	М	204.814	205.632	205.601	205.706	206.247	205.613	199.824	200.723	200.658	200.781	201.553	200.999	
Size A—More than 1,500,000	М	205.656	206.591	206.459	206.625	207.277	206.399	199.611	200.710	200.566	200.730	201.626	200.820	
Size B/C—50,000 to 1,500,000 ³	М	131.366	131.748	131.812	131.724	131.952	131.742	131.096	131.481	131.497	131.420	131.823	131.639	
Size D—Nonmetropolitan (less than 50,000)	М	200.908	201.823	201.918	202.499	203.047	202.738	198.455	199.404	199.416	200.053	200.748	200.471	
South urban	М	208.819	209.000	208.912	209.292	209.738	209.476	205.415	205.867	205.726	206.121	206.859	206.716	
Size A—More than 1,500,000	М	211.034	211.436	211.212	211.152	211.424	210.971	208.492	208.995	208.677	208.577	209.161	208.788	
Size B/C—50,000 to 1,500,000 ³	М	132.736	132.729	132.722	133.035	133.342	133.252	131.063	131.302	131.284	131.621	132.129	132.136	
Size D—Nonmetropolitan (less than 50,000)	M	210.491	210.899	210.911	212.423	213.372	213.159	210.341	211.088	210.922	212.368	213.396	213.184	
West urban	М	219.484	219.884	220.294	220.447	219.728	219.307	213.541	213.988	214.490	214.718	214.228	213.919	
Size A—More than 1,500,000	M	223.498	224.072	224.412	224.372	223.489	223.058	215.955	216.539	217.000	217.002	216.286	215.988	
Size B/C-50,000 to 1,500,000 ³	М	132.774	132.756	133.128	133.618	133.335	133.132	132.314	132.407	132.773	133.244	133.149	132.983	
Size classes:														
A ⁵	M	196.987	197.614	197.724	197.670	197.697	197.246	195.096	195.796	195.957	195.895	196.187	195.779	
B/C ³	M	132.975	133.069	133.165	133.489	133.663	133.535	132.069	132.341	132.450	132.764	133.139	133.072	
D	М	207.784	208.369	208.503	209.139	209.567	209.192	205.504	206.271	206.341	207.120	207.739	207.417	
Selected local areas ⁶														
Chicago–Gary–Kenosha, IL–IN–WI	М	210.906	211.441	211.345	211.708	212.206	211.185	203.554	204.246	204.278	204.511	205.136	204.196	
Los Angeles-Riverside-Orange County, CA	М	224.010	224.507	225.226	225.264	224.317	223.643	216.128	216.628	217.302	217.474	216.618	216.233	
New York, NY-Northern NJ-Long Island, NY-NJ-CT-PA	М	237.600	238.282	238.568	238.380	238.777	238.427	232.177	232.841	233.502	233.084	233.893	233.448	
Boston-Brockton-Nashua, MA-NH-ME-CT	1	233.018	-	236.596	-	236.589	-	232.535	-	235.744	-	236.859	-	
Cleveland–Akron, OH	1	200.558	-	201.836		201.471	-	191.494	-	192.800	-	192.871	-	
Dallas–Ft Worth, TX	1	200.663	-	201.802	-	201.958	-	203.075	-	204.298	-	205.297	-	
Washington-Baltimore, DC-MD-VA-WV 7	1	140.810	-	140.945	-	140.718	-	140.434	-	140.701	-	140.608	-	
Atlanta, GA	2		203.351		201.068		200.456	-	202.276	-	199.736	-	199.331	
Detroit–Ann Arbor–Flint, MI	2	-	204.673	-	205.079	-	203.880	-	200.169	-	200.324	-	199.614	
Houston–Galveston–Brazoria, TX	2	-	191.687	-	191.608	-	190.932	-	189.503	-	189.304	-	188.842	
Miami-Ft. Lauderdale, FL	2		221.306	-	222.416	-	222.943	-	219.000	-	220.358	-	221.067	
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD	2		226.039	-	224.787	-	224.800	-	225.481	-	224.573	-	224.732	
San Francisco–Oakland–San Jose, CA	2		225.801	-	226.051	-	224.239	-	221.279	-	221.708	-	220.121	
Seattle-Tacoma-Bremerton WA	2	_	227 138	_	226 277	_	225 596	_	221 873	_	221 339		220 905	

¹ Foods, fuels, and several other items priced every month in all areas; most other

goods and services priced as indicated:

M—Every month.
 1—January, March, May, July, September, and November.
 2—February, April, June, August, October, and December.
 ² Regions defined as the four Census regions.

 ⁴ The "North Central" region has been renamed the "Midwest" region by the Census Bureau. It is composed of the same geographic entities.

 ⁵ Indexes on a December 1986 = 100 base.
 ⁶ In addition, the following metropolitan areas are published semiannually and appear in tables 34 and 39 of the January and July issues of the CPI Detailed

Report: Anchorage, AK; Cincinnatti, OH-KY-IN; Kansas City, MO-KS; Milwaukee-Racine, WI; Minneapolis-St. Paul, MN-WI; Pittsburgh, PA; Port-land-Salem, OR-WA; St Louis, MO-IL; San Diego, CA; Tampa-St. Petersburg-Clearwater, FL. ⁷ Indexes on a November 1996 = 100 base.

NOTE: Local area CPI indexes are byproducts of the national CPI program. Each local Index has a smaller simple size and is, therefore, subject to substantially more sampling and other measurement error. As a result, local area indexes show greater volatility than the national index, although their long-term trends are similar. Therefore, the Bureau of Labor Statistics strongly urges users to consider adopting the national average CPI for use in their escalator clauses. Index applies to a month as a whole, not to any specific date. Dash indicates data not available.

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

[1982-84 = 100]

Series	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Consumer Price Index for All Urban Consumers:											
All items:											
Index	166.6	172.2	177.1	179.9	184.0	188.9	195.3	201.6	207.342	215.303	214.537
Percent change	2.2	3.4	2.8	1.6	2.3	2.7	3.4	3.2	2.8	3.8	-0.4
Food and beverages:											
Index	164.6	168.4	173.6	176.8	180.5	186.6	191.2	195.7	203.300	214.225	218.249
Percent change	2.2	2.3	3.1	1.8	2.1	3.3	2.5	2.4	3.9	5.4	1.9
Housing:											
Index	163.9	169.6	176.4	180.3	184.8	189.5	195.7	203.2	209.586	216.264	217.057
Percent change	2.2	3.5	4.0	2.2	2.5	2.5	3.3	3.8	3.1	3.2	0.4
Apparel:											
Index	131.3	129.6	127.3	124.0	120.9	120.4	119.5	119.5	118.998	118.907	120.078
Percent change	-1.3	-1.3	-1.8	-2.6	-2.5	4	7	.0	-0.4	-0.1	1.0
Transportation:											
Index	144.4	153.3	154.3	152.9	157.6	163.1	173.9	180.9	184.682	195.549	179.252
Percent change	2.0	6.2	0.7	9	3.1	3.5	6.6	4.0	2.1	5.9	-8.3
Medical care:											
Index	250.6	260.8	272.8	285.6	297.1	310.1	323.2	336.2	351.054	364.065	375.613
Percent change	3.5	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	258.3	271.1	282.6	293.2	298.7	304.7	313.4	321.7	333.328	345.381	368.586
Percent change	8.7	5.0	4.2	3.8	1.9	2.0	2.9	2.6	3.6	3.6	6.7
Consumer Price Index for Urban Wage Earners											
and Clerical Workers:											
All items:											
Index	163.2	168.9	173.5	175.9	179.8	184.5	191.0	197.1	202.767	211.053	209.630
Percent change	2.2	3.5	2.7	1.4	2.2	5.1	1.1	3.2	2.9	4.1	-0.7

41. Producer Price Indexes, by stage of processing

[1982 = 100]

Crowning	Annual	average	2008						20	09					
Grouping	2008	2009	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^p	Oct. ^p	Nov. ^p	Dec. ^p
Finished goods	177.1	172.6	168.8	170.4	169.9	169.1	170.3	171.1	174.3	172.4	174.2	173.2	174.1	176.2	176.2
Finished consumer goods	186.3	179.2	173.7	175.8	175.2	174.2	176.0	177.3	181.7	179.2	181.6	180.4	181.2	183.9	184.1
Finished consumer foods	178.3	175.5	177.7	177.7	175.0	173.8	175.9	174.0	176.1	173.5	173.9	173.9	175.9	176.8	179.7
Finished consumer goods															
excluding foods	189.1	179.6	171.5	174.4	174.5	173.5	175.2	177.5	182.7	180.2	183.3	181.6	182.0	185.3	184.6
Nondurable goods less food	210.5	194.3	182.1	186.5	186.6	185.2	187.7	191.2	198.7	195.7	200.1	198.1	197.6	202.2	201.4
Durable goods	141.2	144.3	144.4	144.3	144.3	144.1	144.4	144.2	144.7	143.3	143.8	142.9	145.0	145.6	144.9
Capital equipment	153.8	156.8	157.2	157.4	157.2	156.9	156.8	156.3	156.6	155.9	156.4	155.9	157.2	157.6	157.2
Intermediate materials,															
supplies, and components	188.3	172.6	171.6	171.4	169.7	168.0	168.6	170.2	172.7	172.3	174.8	174.7	174.8	176.3	176.7
Materials and components															
for manufacturing	177.2	162.8	163.7	162.7	161.0	159.5	158.9	160.1	160.9	161.6	163.8	164.9	165.1	166.4	167.4
Materials for food manufacturing	180.4	165.1	170.8	167.3	164.3	163.2	164.2	166.2	166.0	163.7	164.1	164.3	164.4	165.5	168.1
Materials for nondurable manufacturing	214.3	191.9	185.0	186.8	185.6	182.3	182.6	187.4	190.1	192.0	196.6	197.1	196.4	200.8	202.7
Materials for durable manufacturing	203.3	169.0	178.6	172.8	168.2	165.8	163.2	162.1	162.7	164.5	168.9	173.2	174.8	175.0	176.4
Components for manufacturing	140.3	141.0	141.9	141.7	141.5	141.3	140.8	140.8	140.7	140.7	140.8	140.9	141.1	141.0	141.0
Materials and components															
for construction	205.4	202.9	207.9	207.0	204.8	204.2	203.2	202.8	202.0	201.9	201.5	202.0	201.9	201.4	202.2
Processed fuels and lubricants	206.2	162.3	151.2	153.4	150.7	146.5	151.4	156.5	167.0	164.1	1/2.2	169.0	169.3	173.8	172.1
Containers	191.8	195.8	198.1	200.8	199.5	198.4	197.6	196.1	195.4	194.3	193.5	193.7	193.8	193.1	193.0
Supplies	173.8	172.2	173.4	172.9	172.3	171.9	172.0	172.3	172.8	172.2	171.9	172.0	171.7	171.8	172.5
Crude materials for further															
processing	251.8	175.0	172.6	170.2	160.7	160.1	163.9	171.5	179.8	172.9	178.4	173.5	182.2	192.0	193.8
Foodstuffs and feedstuffs	163.4	134.4	135.5	136.1	133.3	131.0	136.5	140.5	141.0	133.2	130.2	127.6	131.6	133.7	138.6
Crude nonrood materials	313.9	197.1	191.6	186.5	171.5	172.6	174.6	184.7	199.8	194.5	207.5	201.0	213.2	229.6	228.3
Special groupings:															
Finished goods, excluding foods	176.6	171.2	166.1	168.0	168.0	167.2	168.3	169.7	173.1	171.3	173.4	172.2	172.9	175.2	174.6
Finished energy goods	1/8./	147.2	130.6	136.4	136.3	133.2	137.2	142.9	154.4	149.6	156.1	152.8	152.0	158.4	156.8
Finished goods less energy	169.8	172.3	172.3	172.7	172.1	171.9	172.4	1/1./	172.4	171.4	171.8	171.5	172.9	173.5	174.0
Finished consumer goods less energy	1/0.9	179.2	179.0	179.4	170.0	178.5	179.2	170.0	179.4	170.2	170.0	170.4	179.0	172.6	101.0
Finished sensumer goods loss food	107.2	171.5	170.0	171.5	171.5	171.4	171.4	171.1	171.4	170.0	171.2	170.0	172.0	172.0	172.4
Finished consumer goods less food	176 /	101 6	190.1	190.7	101.0	101 /	101 E	101 2	101 7	101 1	101 E	101.0	102.2	102.1	102.0
and energy	170.4	101.0	100.1	100.7	101.0	101.4	101.0	101.3	101.7	101.1	101.5	101.2	102.3	103.1	103.0
Consumer hondurable goods less food															
and energy	206.8	214.3	211.0	212.4	212.9	214.0	213.8	213.7	213.9	214.4	214.5	214.9	214.9	215.9	216.4
Intermediate materials less foods															
and feeds	188.7	173.1	171.8	171.8	170.1	168.4	168.9	170.4	172.9	172.7	175.5	175.4	175.6	177.2	177.3
Intermediate foods and feeds	181.6	165.9	167.9	165.8	164.6	163.5	164.5	167.3	169.3	166.5	166.1	165.8	164.8	165.5	167.8
Intermediate energy goods	208.1	162.8	147.7	152.2	149.3	144.1	149.5	157.2	167.8	165.3	174.5	171.0	171.1	176.4	174.5
Intermediate goods less energy	180.9	172.8	175.3	174.0	172.7	171.9	171.2	171.3	171.8	171.9	172.7	173.5	173.6	174.1	175.0
Intermediate materials less foods															
and energy	180.9	173.4	175.9	174.6	173.4	172.6	171.8	171.6	171.9	172.3	173.3	174.2	174.5	174.9	175.7
Crude energy materials	309.4	176.3	181.1	173.0	152.1	153.3	155.0	164.2	181.2	173.0	184.1	173.5	188.5	211.4	205.2
Crude materials less energy	205.4	164.8	159.8	161.2	158.8	156.4	161.2	166.9	168.9	163.4	164.5	163.3	167.5	168.9	175.9
Crude nonfood materials less energy	324.4	248.6	221.3	225.2	224.9	222.9	224.4	234.9	242.6	247.1	263.6	267.9	272.3	270.4	284.2

p = preliminary.

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

[December 2003 = 100, unless otherwise indicated]

Under product	NAICS	NICS Industry							200)9					
Teal mining planeteric (December 1964-106)	NAICS	Industry	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^p	Oct. ^p	Nov. ^p	Dec. ^p
11 Word gas sensition (Sciencher 198-100) 194.1 195.2 195.1 196.2		Total mining industries (December 1984–100)	17/ 8	173 /	150.0	150 1	160.5	166.0	180.2	173.0	182.8	177 2	101.8	200.4	207.4
121 Moring associal and gam. 77.30 77.6 18.2.7 77.6 18.2.7 77.6 18.2.7 78.2 18.2.7 78.2.7 18.2.7 78.2.7 18.2.7<	211	Oil and das extraction (December 1985–100)	184 1	180.3	154 1	154.1	157.0	168.6	192.2	179.0	194.8	186.6	208.5	236.2	233.5
121 Ming suppri achies 11.7 12.0 11.5 10.0.4 10.5 10.7 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.8 10.7 10.8 10.8 10.7	212	Mining, except oil and gas	173.0	178.4	184.7	186.1	187.9	185.0	185.9	186.2	189.3	188.6	192.6	193.8	195.1
Total manufacturing locameter 1984-100, 104.1 16.2 16.2 16.3 16.4 <th16.4< th=""> 16.4 16.4<td>213</td><td>Mining support activities</td><td>114.7</td><td>112.8</td><td>111.5</td><td>109.4</td><td>105.6</td><td>101.3</td><td>100.0</td><td>101.2</td><td>100.4</td><td>98.7</td><td>98.4</td><td>99.8</td><td>99.1</td></th16.4<>	213	Mining support activities	114.7	112.8	111.5	109.4	105.6	101.3	100.0	101.2	100.4	98.7	98.4	99.8	99.1
11 Pool manufacturing Desember 1984-100, 17.1 17.0 18.7 18.6 18.8 17.8 17.1 18.0 18.2		Total manufacturing industries (December 1984=100)	164.1	164.7	163.9	162.9	164.2	165.8	168.4	167.1	169.4	168.6	168.9	170.7	170.7
11 Beverage and lokaco manufacturing 113 1174 1182 1134 1134 1135	311	Food manufacturing (December 1984=100)	171.1	170.1	168.7	167.6	168.6	170.5	171.4	169.7	169.7	169.5	168.8	168.9	170.8
131 Leader mile. 1132 1134 1134 <td>312</td> <td>Beverage and tobacco manufacturing</td> <td>116.3</td> <td>117.6</td> <td>119.2</td> <td>120.3</td> <td>119.6</td> <td>119.2</td> <td>119.4</td> <td>119.4</td> <td>119.5</td> <td>119.9</td> <td>120.5</td> <td>121.5</td> <td>121.3</td>	312	Beverage and tobacco manufacturing	116.3	117.6	119.2	120.3	119.6	119.2	119.4	119.4	119.5	119.9	120.5	121.5	121.3
11 Applier Manufacturg 1122 1124 1120 1123 1124 1123 1124 1124 1120 1123 1124 1123 1124 1123 1124 1123 1124 1123 1124 1123 1124 11	313	Textile mills	113.5	113.4	113.0	112.3	112.1	111.8	112.1	111.9	111.8	112.0	112.2	112.2	112.4
32 Wood pockuts insufficiency in the set of the	315	Apparel manufacturing	103.2	103.5	103.5	103.5	103.5	103.3	103.3	103.2	103.3	103.5	103.5	103.4	103.5
122 Pager manufacturing 1270 1280 1285 1281 1212 1	316 321	Wood products manufacturing	106.2	105.0	104.0	103.2	102.8	102.4	102.3	103.2	103.2	103.7	103.1	103.6	103.6
323 Printing and related support achietes	322	Paper manufacturing	127.0	126.7	126.0	125.5	124.5	123.1	122.5	121.8	121.7	121.7	121.5	121.9	121.5
222 Petroleum and coal products manufacturing 167.0 178.6 178.4 178.0 188.2 20.6 28.1 22.5 22.6 20.2 20.1 20	323	Printing and related support activities	110.3	110.2	109.6	109.6	109.4	109.2	109.0	109.0	108.8	109.0	109.2	109.3	109.4
(December 1984-100) 227 28.7 28.7 28.7 28.8 22.4 <th22.4< th=""> 22.4 22.4<td>324</td><td>Petroleum and coal products manufacturing</td><td>167.0</td><td>178.6</td><td>176.4</td><td>168.0</td><td>186.2</td><td>206.5</td><td>238.1</td><td>225.9</td><td>251.6</td><td>241.5</td><td>240.1</td><td>258.8</td><td>253.8</td></th22.4<>	324	Petroleum and coal products manufacturing	167.0	178.6	176.4	168.0	186.2	206.5	238.1	225.9	251.6	241.5	240.1	258.8	253.8
222 Charmical manufacturing (December 1984-100). 165.0 161.4 161.6 161.6 161.0 160.0 160.0 160.0 160.0 160.0 160.1 161.0 161.		(December 1984=100)													
328 Plastics and nuber products manufacturing 165.0 163.4 161.6 161.2 160.8 160.3 160.4 161.3 161.5 161.3 161.5 161.3 161.6 331 Primary meal manufacturing (December 1984-100) 77.6 17.3 17.65 17.44 17.33 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.34 17.35 17.35 17.34 17.35 17.35 17.35 17.34 17.30 17.35 <	325	Chemical manufacturing (December 1984=100)	229.7	226.7	225.1	224.6	223.6	222.8	222.4	224.1	224.0	225.1	225.1	225.6	227.7
Ubecomber 1984-100	326	Plastics and rubber products manufacturing	165.0	163.4	161.6	161.2	160.9	160.6	160.3	160.3	160.4	161.3	161.5	161.3	161.6
331 Primage mela menulacharing (December 1984-100). 195.6 177.7 170.7 1		(December 1984=100)													
332 Existical meal product manufacturing Computer and electronic products manufacturing 172.6 173.6	331	Primary metal manufacturing (December 1984–100)	185.6	177.6	173 3	169.5	164 7	162.8	163.8	165.4	172 5	177 8	180 5	179 7	181.8
333 Machiney manufacturing. 1 120.0 120.5 120.4 120.4 120.2 <td>332</td> <td>Fabricated metal product manufacturing (December 1984=100).</td> <td>178.5</td> <td>178.9</td> <td>177.7</td> <td>177.0</td> <td>175.5</td> <td>175.0</td> <td>174.4</td> <td>173.9</td> <td>173.8</td> <td>174.0</td> <td>173.7</td> <td>173.5</td> <td>173.8</td>	332	Fabricated metal product manufacturing (December 1984=100).	178.5	178.9	177.7	177.0	175.5	175.0	174.4	173.9	173.8	174.0	173.7	173.5	173.8
333 Computer and electronic products manufacturing. 92.4 92.5 92.4 92.3 92.1 92.2 91.3 92.4 12.8 12.8.1 12.8 12.8.1 12.8 12.8.1 <	333	Machinery manufacturing	120.0	120.5	120.4	120.4	120.3	120.2	120.2	120.3	120.2	120.3	120.3	120.2	120.4
333 Electrical equipment, appliance, and components manufacturing 126.8 126.8 127.3 127.0 128.3 128.3 128.5 128.1 128.2 128.1 <td>334</td> <td>Computer and electronic products manufacturing</td> <td>92.4</td> <td>92.5</td> <td>92.4</td> <td>92.4</td> <td>92.3</td> <td>92.3</td> <td>92.1</td> <td>92.2</td> <td>92.2</td> <td>91.9</td> <td>91.8</td> <td>92.0</td> <td>91.9</td>	334	Computer and electronic products manufacturing	92.4	92.5	92.4	92.4	92.3	92.3	92.1	92.2	92.2	91.9	91.8	92.0	91.9
338 Transportation equipment manufacturing	335	Electrical equipment, appliance, and components manufacturing	126.9	126.8	126.8	127.3	127.9	128.5	128.3	128.5	129.2	129.4	129.9	130.3	130.9
337 Furthitize and related product manufacturing 175.7 176.8 177.0 176.8 177.	336	Transportation equipment manufacturing	110.1	110.0	109.9	109.4	109.3	108.9	109.5	108.5	109.1	108.5	110.3	110.7	110.2
UBcember 1984-100, Int.4 Int.4 <thint.4< th=""> Int.4 Int.4</thint.4<>	337	Furniture and related product manufacturing	175.7	176.1	177.0	176.8	176.7	176.9	176.8	177.0	176.2	176.6	177.3	176.8	176.7
Miscellaneous manufacturing. 110.8 111.4 111.4 111.4 111.4 111.4 111.2 111.4 111.5 111.6 111.5 111.5 111.5 111.5 111.5 111.5 111.5 111.5 <		(December 1984=100)													
Retail trade 117.1 116.9 118.1 118.1 118.1 118.1 118.1 118.1 122.9 122.0 121.6 121.8 121.7 442 Furniture and home furnishings stores. 107.8 107.7 168.4 104.8 102.5 121.6 122.8 121.6 122.8 121.6 122.8 121.6 122.8 121.6 122.8 121.7 122.8 121.6 122.8 121.7 122.8 121.7 122.8 121.6 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 121.8 121.7 122.8 123.7 133.1 133.9 152.9 153.9 153.1 151.7 115.2 113.1 113.9 132.9 130.4 122.8 123.8 123.1 143.9 142.9 143.8 143.7 1152.9 152.3	339	Miscellaneous manufacturing	110.8	111.4	111.4	111.6	111.7	111.3	111.4	111.2	111.3	111.4	111.5	111.4	111.7
441 Motor vehicle and parts dealers 117.1 116.9 118.4 118.0 118.1 118.4		Retail trade													
442 Fundity ventices and parts determinishings stores. 17.1 118.9 12.04 12.04 12.04 12.04 12.04 12.04 12.05 <td< td=""><td>4.44</td><td>Materials and note dealers</td><td>1171</td><td>116.0</td><td>110 /</td><td>110.0</td><td>110.0</td><td>110 1</td><td>110 /</td><td>110.0</td><td>122.0</td><td>102.0</td><td>101.6</td><td>101.0</td><td>101 7</td></td<>	4.44	Materials and note dealers	1171	116.0	110 /	110.0	110.0	110 1	110 /	110.0	122.0	102.0	101.6	101.0	101 7
Table Distance and solutions in site states TOTS	441	Motor venicle and parts dealers	117.1	110.9	118.4	118.0	121.4	118.1	118.4	118.8	122.9	123.0	121.0	121.8	121.7
444 Health and personal care stores. 173.6, 136.1 136.1 138.7 138.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 137.1 130.1 141.1 133.1 141.1 133.1 140.1 147.7 148.3 147.1 148.2 146.1 148.5 117.7 115.2 117.5 115.1 <td>442</td> <td>Electronics and appliance stores</td> <td>107.8</td> <td>107.8</td> <td>103.7</td> <td>105.4</td> <td>104.9</td> <td>104.2</td> <td>104.8</td> <td>105.7</td> <td>106.6</td> <td>103.7</td> <td>110.0</td> <td>110 7</td> <td>101 7</td>	442	Electronics and appliance stores	107.8	107.8	103.7	105.4	104.9	104.2	104.8	105.7	106.6	103.7	110.0	110 7	101 7
447 Gasoline stations (June 2001-100)	446	Health and personal care stores	136.4	136.0	136.0	136.3	138.7	138.1	137.2	138.6	137.1	139.0	138.5	141.1	138.9
454 Nonstore retailers. 155.2 150.9 153.9 156.1 148.0 142.2 143.6 152.4 145.5 147.6 145.2 146.7 148.3 47 Arrasportation and warehousing 198.5 198.4 190.5 187.6 187.2 179.5 182.2 185.5 189.6 184.5 187.7 191.3 195.4 491 Arrasportation Cluene 1989-100). 128.0 122.4 118.5 117.7 115.2 111.3 111.0 113.3 140.0 115.7 115.7 115.5 116.1 491 Postal service (June 1989-100). 128.0 122.4 128.5 125.9 128.0 128.0 129.0 130.9 131.8 130.0 129.1 129.1 129.2 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 127.1 127.0 128.1 128.8<	447	Gasoline stations (June 2001=100)	77.7	68.9	71.0	63.1	59.7	59.4	69.5	75.9	63.5	68.3	60.0	81.9	79.3
Transportation and warehousing Image: Constraint of the constr	454	Nonstore retailers	155.2	150.9	153.9	156.1	148.0	142.2	143.6	152.4	145.5	147.6	145.2	146.7	148.3
Ast Arr transportation (December 1992=100)		Transportation and warehousing													
4a3 Water ransportation 1962-9 100-9 </td <td>404</td> <td>Air transmittetion (December 4000, 400)</td> <td>108 5</td> <td>108 /</td> <td>190.5</td> <td>187.6</td> <td>187.2</td> <td>170 5</td> <td>182.2</td> <td>185 5</td> <td>189.6</td> <td>18/ 5</td> <td>187 0</td> <td>101 3</td> <td>105 /</td>	404	Air transmittetion (December 4000, 400)	108 5	108 /	190.5	187.6	187.2	170 5	182.2	185 5	189.6	18/ 5	187 0	101 3	105 /
Hostal service (June 1989=100) 180.5 180.5 181.6 181.6 181.6 181.6 181.6 181.6 186.8 <	481	Air transportation (December 1992=100)	128.0	122.4	118.5	117.7	115.2	111.3	111 9	113.3	114.0	115.7	115.7	115.5	116.1
Utilities 133.1 133.9 132.9 130.4 128.1 128.0 130.9 131.8 130.0 129.1 129.4 129.2 6211 Office of physicians (December 1996=100) 124.2 125.6 125.9 125.9 125.5 126.8 126.8 128.4 108.4 128.4 128.0 129.0 122.0 122.1 123.3 127.7 127.7 127.7 127.7 127.4 122.4 125.4 125.4 125.4 125.4 125.4 125.4 125.4 125.6 125.8	491	Postal service (June 1989=100).	180.5	180.5	181.6	181.6	181.6	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
Utilities 133.1 133.1 133.4 132.9 130.4 128.1 128.0 129.0 130.9 131.8 130.0 129.1 129.4 129.4 6211 Office of physicians (December 1996=100) 124.2 125.6 125.9 126.3 126.5 126.8 126.8 126.8 126.8 126.8 126.4 108.4 128.4 128.5	-														
221 Utilities 133.1 133.9 132.9 130.4 128.1 128.0 129.0 130.9 131.8 130.0 129.1 129.4 129.2 Health care and social assistance 6211 Office of physicians (December 1996=100) 124.2 125.6 125.6 126.5 126.5 126.8 126.8 126.8 126.8 128.4 108.4		Utilities													
Health care and social assistance Image: Constraint of the second s	221	Utilities	133.1	133.9	132.9	130.4	128.1	128.0	129.0	130.9	131.8	130.0	129.1	129.4	129.2
6211 Office of physicians (December 1996=100)		Health care and social assistance													
6215 Medical and diagnostic laboratories 107.8 108.3 108.7 108.8 108.6 108.4	6211	Office of physicians (December 1996=100)	124.2	125.6	125.6	125.9	125.9	126.3	126.5	126.8	126.8	126.8	127.1	127.0	127.1
6216 Home health care services (December 1996=100). 127,4 127,7 127,7 127,7 127,7 127,7 127,5 127,9 128,2 128,4 128,1 128,9 129,0 6221 Huxing care facilities. 120,7 122,0 122,2 122,2 122,6 122,7 122,6 122,7 122,6 122,7 122,8 124,4 188,3 168,4 168,6 168,7 171,0 6231 Nursing care facilities. 110,7 112,0 122,2 122,2 122,6 122,7 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,5 122,5 122,5 122,5 122,4 122,5 122,5 122,5 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,3 122,4 122,5 122,5 122,5	6215	Medical and diagnostic laboratories	107.8	108.3	108.7	108.9	108.8	108.6	108.4	108.4	108.4	108.4	108.4	108.4	108.4
622 Hospitals (December 1992=100)	6216	Home health care services (December 1996=100)	127.4	127.2	127.6	127.7	127.7	127.7	127.5	127.9	128.2	128.4	128.1	128.9	129.0
6231 Nursing care facilities	622	Hospitals (December 1992=100)	165.3	166.5	166.8	167.0	166.9	167.2	167.3	167.5	168.4	168.3	169.6	168.7	171.0
Observices industries 119.2 120.3 120.3 120.3 121.4 122.3 122.4 122.5 122.4 122.5 122.4 122.5 122.5 122.4 122.5 122.	6231	Nursing care facilities	120.7	122.0	122.2	122.3	122.6	122.6	122.7	123.8	124.3	123.8	123.8	124.1	125.0
Other services industries r <td>62321</td> <td>Residential mental retardation facilities</td> <td>119.2</td> <td>120.3</td> <td>120.3</td> <td>120.5</td> <td>121.4</td> <td>122.3</td> <td>122.4</td> <td>122.3</td> <td>122.8</td> <td>125.4</td> <td>125.4</td> <td>125.6</td> <td>125.8</td>	62321	Residential mental retardation facilities	119.2	120.3	120.3	120.5	121.4	122.3	122.4	122.3	122.8	125.4	125.4	125.6	125.8
511 Publishing industries, except Internet 110.7 111.9 111.9 111.6 111.7 111.7 111.4 111.7 111.1 111.7 111.1 111.7 111.1 111.7 111.1 111.7 111.1 111.7 111.1 110.1 110.1 110.1		Other services industries													
515 Broadcasting, except Internet. 109.3 107.9 108.1 107.5 105.5 107.4 106.4 102.5 102.1 103.6 101.7 103.4 103.9 517 Telecommunications. 101.4 101.2 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.1 101.2 101.7 103.8 100.9 100.5 105.5 115.2 115.2 115.2 115.2 115.2 115.2 115.2 115.2 115.2 115.2 116.4 101.6 101.6 101.6 101.6 101.6 101.6 101.9 102.1 102.0 102.0 102.0 102.0 102.0 102.0 102.0 102.0 102.0 102.0 102.0 102.0 <td>511</td> <td>Publishing industries, except Internet</td> <td>110.7</td> <td>111.9</td> <td>111.9</td> <td>111.6</td> <td>111.7</td> <td>111.7</td> <td>111.8</td> <td>111.4</td> <td>111.7</td> <td>111.1</td> <td>111.2</td> <td>109.7</td> <td>109.8</td>	511	Publishing industries, except Internet	110.7	111.9	111.9	111.6	111.7	111.7	111.8	111.4	111.7	111.1	111.2	109.7	109.8
517 Telecommunications	515	Broadcasting, except Internet	109.3	107.9	108.1	107.5	105.5	107.4	106.4	102.5	102.1	103.6	101.7	103.4	103.9
512 Data processing and related services. 101.3 101.0 100.9 100.9 100.9 100.9 101.0 101.0 101.0 101.0 100.9	517	Telecommunications	101.4	101.2	101.1	101.1	100.8	101.1	101.1	101.2	101.7	101.3	101.0	100.8	100.8
323 Security, commodity contracts, and like activity	5182	Data processing and related services	101.3	101.0	100.9	100.9	100.9	101.0	101.0	101.0	100.9	100.9	100.9	100.9	100.5
3512 Cbristo in Nonsentiental Dumining (except infinitivaterinos) 112.8 110.5 110.5.7 102.8 102.1 102.2 102.0<	52110	Security, commodity contracts, and like activity	112.2	111.0	109.0	109.2	109.1	109.2	108.8	109.4	109.1	109.7	100.3	109.4	108.4
5312 Concers of real estate signed activities 109.8 109.8 109.9 108.6 109.9 109.7 107.3 107.3 107.6 108.2 </td <td>5312</td> <td>Offices of real estate agents and brokers</td> <td>102.8</td> <td>101.6</td> <td>103.0</td> <td>103.5</td> <td>100.0</td> <td>100.0</td> <td>102.2</td> <td>102.0</td> <td>103.1</td> <td>103.7</td> <td>103.5</td> <td>102.0</td> <td>102.0</td>	5312	Offices of real estate agents and brokers	102.8	101.6	103.0	103.5	100.0	100.0	102.2	102.0	103.1	103.7	103.5	102.0	102.0
3321 Automotive equipment rental and leasing (June 2001=100) 123.7 128.3 133.0 133.1 135.1 134.0 137.6 141.1 142.0 140.5 135.9 132.4 129.9 5411 Legal services (December 1996=100) 163.2 164.8 165.5 166.0 166.2 166.3 166.4 166.5 166.6 166.5 166.6 166.5 166.6 166.5 166.6 166.5 166.6 166.5 166.6 166.5 166.7 166.9 541211 Offices of certified public accountants. 115.7 115.3 115.2 115.3 115.3 115.3 114.5 114.6 115.1 113.7 115.3 115.3 5413 Architectural, engineering, and related services 106.3 105.4 105.4 105.4 105.4 105.4 105.4 105.4 104.9 <	5313	Real estate support activities	102.0	109.9	108.6	109.9	109.2	102.1	107.3	102.0	102.0	102.0	102.0	107.2	106.6
5411 Legal services (December 1996=100). 163.2 164.8 165.5 166.0 166.2 166.3 166.4 166.5 166.6 166.5 166.7 166.9 541211 Offices of certified public accountants. 115.7 115.3 115.2 115.3 115.3 115.3 115.3 114.3 114.5 114.6 115.1 113.7 115.3 5413 Architectural, engineering, and related services 141.9 142.9 142.8 143.0 143.0 143.0 142.9 142.8 143.0 143.0 143.0 142.9 142.8	5321	Automotive equipment rental and leasing (June 2001=100)	123.7	128.3	133.0	133.1	135.1	134.0	137.6	141.1	142.0	140.5	135.9	132.4	129.9
541211 Offices of certified public accountants	5411	Legal services (December 1996=100)	163.2	164.8	165.5	166.0	166.2	166.3	166.3	166.4	166.5	166.6	166.5	166.7	166.9
5413 Architectural, engineering, and related services 141.9 142.9 142.9 142.8 143.0 143.0 143.0 142.9 142.9 142.8 143.0 143.0 143.0 142.9 142.9 142.8 143.0 143.0 143.0 143.0 142.9 142.8 142.8 143.0 143.0 143.0 143.0 142.9 142.8 142.8 143.0 143.0 143.0 143.0 142.9 142.8 142.8 143.0 <th< td=""><td>541211</td><td>Offices of certified public accountants</td><td>115.7</td><td>115.3</td><td>115.2</td><td>115.3</td><td>115.3</td><td>115.3</td><td>114.3</td><td>114.5</td><td>114.6</td><td>115.1</td><td>113.7</td><td>115.3</td><td>113.5</td></th<>	541211	Offices of certified public accountants	115.7	115.3	115.2	115.3	115.3	115.3	114.3	114.5	114.6	115.1	113.7	115.3	113.5
(December 1996=100)141.9142.9142.9142.8143.0143.0143.0143.0142.9142.8 <td>5413</td> <td>Architectural, engineering, and related services</td> <td></td>	5413	Architectural, engineering, and related services													
54181 Advertising agencies		(December 1996=100)	141.9	142.9	142.9	142.8	143.0	143.0	143.0	143.0	142.9	142.9	142.8	142.8	142.8
5613 Employment services (December 1996=100) 124.2 123.8 124.0 123.6 123.9 123.7 123.6 123.3 123.1 122.7 122.8 56151 Travel agencies	54181	Advertising agencies	106.3	105.6	105.4	105.3	105.3	105.4	105.4	105.4	104.9	104.7	104.9	104.9	104.6
b6151 Iravel agencies 101.4 101.4 101.8 102.2 100.2 98.6 98.9 98.5	5613	Employment services (December 1996=100)	124.2	123.8	124.0	123.6	123.9	123.5	123.6	123.7	123.6	123.3	123.1	122.7	122.8
Software Just 109.0 Just 109.0 Just 2 Just 2 Just 3 <	56151	I ravel agencies	101.4	101.4	101.8	102.2	100.2	100.2	98.6	98.9	98.5	98.5	98.5	98.5	98.5
721 Accommodation (December 1996-100)	5621	Janiiunal Services	109.1	109.6	113.2	109.8	109.7	109.7	109.7	110.1	110.1	110.5	110.4	110.4	110.5
	721	Accommodation (December 1996=100)	141.6	140.6	139.9	141.3	141.5	141.0	143.7	146.0	144.9	140.9	140.9	138.9	136.8

p = preliminary.

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

[1982 = 100]

Index	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Finished goods											
Total	133.0	138.0	140.7	138.9	143.3	148.5	155.7	160.4	166.6	177.1	172.6
Foods	135.1	137.2	141.3	140.1	145.9	152.7	155.7	156.7	167.0	178.3	175.5
Energy	78.8	94.1	96.7	88.8	102.0	113.0	132.6	145.9	156.3	178.7	147.2
Other	146.1	148.0	150.0	150.2	150.5	152.7	156.4	158.7	161.7	167.2	171.5
Intermediate materials, supplies, and											
components											
Total	123.2	129.2	129.7	127.8	133.7	142.6	154.0	164.0	170.7	188.3	172.6
Foods	120.8	119.2	124.3	123.2	134.4	145.0	146.0	146.2	161.4	180.4	165.1
Energy	84.3	101.7	104.1	95.9	111.9	123.2	149.2	162.8	174.6	208.1	162.8
Other	133.1	136.6	136.4	135.8	138.5	146.5	154.6	163.8	168.4	180.9	173.4
Crude materials for further processing											
Total	98.2	120.6	121.0	108.1	135.3	159.0	182.2	184.8	207.1	251.8	175.0
Foods	98.7	100.2	106.1	99.5	113.5	127.0	122.7	119.3	146.7	163.4	134.4
Energy	78.5	122.1	122.3	102.0	147.2	174.6	234.0	226.9	232.8	309.4	176.3
Other	91.1	118.0	101.5	101.0	116.9	149.2	176.7	210.0	238.7	308.5	211.0

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

[2000 = 100]

Category		2009												
		Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
ALL COMMODITIES	115.8	116.6	116.3	115.5	116.1	116.6	117.8	117.4	118.1	117.9	117.9	118.9	119.6	
Foods, feeds, and beverages Agricultural foods, feeds, and beverages Nonagricultural (fish, beverages) food products	155.1 156.6 143.5	165.4 167.6 147.9	162.1 164.1 145.7	156.7 158.3 144.4	162.8 165.0 145.3	167.3 170.3 141.4	174.8 178.6 141.5	164.9 167.6 142.2	164.5 167.3 140.8	158.2 160.7 137.3	156.5 159.0 135.0	162.0 164.6 139.9	165.0 167.9 140.4	
Industrial supplies and materials	139.6	139.0	137.9	136.5	136.9	137.7	140.4	140.6	143.6	143.9	144.9	147.5	150.1	
Agricultural industrial supplies and materials	126.1	125.6	126.2	122.9	123.6	130.2	131.0	134.9	138.0	142.2	143.9	151.8	152.4	
Fuels and lubricants	166.8	165.8	156.2	146.9	156.9	160.2	175.2	166.0	181.6	171.9	175.5	184.6	189.6	
Nonagricultural supplies and materials, excluding fuel and building materials Selected building materials	138.8 115.1	138.2 115.5	138.2 115.3	138.2 114.0	137.1 113.5	137.3 112.5	138.5 113.0	139.8 112.8	141.1 113.7	142.7 114.0	143.3 112.5	144.8 113.0	147.4 113.5	
Capital goods Electric and electrical generating equipment Nonelectrical machinery	101.5 109.0 93.3	102.1 107.3 93.7	102.3 106.7 94.0	102.3 106.8 93.8	102.8 106.8 94.3	103.0 107.0 94.4	103.1 107.2 94.4	103.2 107.0 94.5	103.4 107.3 94.7	103.5 107.4 94.9	103.2 107.9 94.4	103.3 108.9 94.6	103.2 109.5 94.5	
Automotive vehicles, parts, and engines	108.0	108.4	108.1	108.2	108.1	108.1	108.0	107.9	107.9	108.0	108.1	108.2	108.2	
Consumer goods, excluding automotive Nondurables, manufactured Durables, manufactured	109.0 107.2 109.7	109.2 108.8 109.7	109.3 109.0 109.8	108.5 107.1 109.9	107.5 107.2 107.6	107.9 107.8 107.9	108.4 108.5 108.1	108.9 108.7 109.5	109.1 109.0 109.6	109.2 109.4 109.5	109.3 109.3 109.6	109.5 109.8 109.4	109.4 110.0 109.2	
Agricultural commodities Nonagricultural commodities	150.8 113.2	159.7 113.5	157.0 113.3	151.6 112.9	157.2 113.1	162.8 113.4	169.7 114.1	161.3 114.2	161.6 115.0	156.9 115.1	155.8 115.2	161.8 115.8	164.6 116.4	

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

[2000 = 100]

Category							20	09					
		Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ALL COMMODITIES	114.5	113.0	113.0	113.6	114.8	116.8	120.0	119.3	121.1	121.3	122.3	124.1	124.3
Foods, feeds, and beverages Agricultural foods, feeds, and beverages Nonagricultural (fish, beverages) food products	142.3 159.4 103.8	142.3 159.0 104.5	137.8 153.0 103.4	137.0 151.3 104.8	138.9 154.3 104.1	139.2 155.0 103.6	139.8 155.5 104.4	138.2 153.2 104.2	140.0 155.7 104.5	140.6 156.8 104.1	141.2 157.3 104.9	142.6 159.5 104.5	143.7 160.8 104.9
Industrial supplies and materials	150.4	143.7	144.9	149.3	154.3	163.0	177.3	174.4	182.4	183.0	187.2	195.0	195.8
Fuels and lubricants Petroleum and petroleum products	153.9 150.8	146.6 143.8	150.5 151.6	162.3 168.5	174.4 185.5	191.5 206.1	222.1 241.5	216.3 235.8	231.4 253.7	228.5 252.2	235.3 258.3	250.2 272.3	248.7 268.4
Materials associated with nondurable supplies and materials	148.5 118.1 185.7	138.8 117.2 176.5	137.1 116.5 175.9	136.7 116.2 171.6	135.3 115.2 171.1	139.2 114.5 172.8	137.5 116.0 178.3	132.3 118.0 184.8	98.4 133.3 119.2 190.6	134.8 118.9 204.0	137.7 118.6 208.0	139.4 118.5 213.1	141.0 120.7 221.5
Capital goods Electric and electrical generating equipment Nonelectrical machinery	92.7 111.4 87.5	92.7 111.1 87.5	92.3 110.3 87.2	91.8 109.4 86.6	91.9 109.1 86.8	91.9 109.8 86.7	91.9 110.0 86.5	91.9 110.2 86.5	91.9 110.3 86.5	91.9 110.3 86.5	91.9 110.8 86.4	92.0 111.1 86.5	91.8 111.3 86.3
Automotive vehicles, parts, and engines	107.8	108.0	107.9	107.7	107.7	107.9	108.0	108.2	108.4	108.6	108.8	108.9	108.8
Consumer goods, excluding automotive Nondurables, manufactured Durables, manufactured Nonmanufactured consumer goods	104.4 108.2 100.7 103.6	104.4 108.9 100.1 102.7	104.4 108.9 100.0 104.4	103.9 108.4 99.8 101.2	104.1 108.3 100.0 102.7	104.2 108.1 100.5 101.3	104.3 108.1 100.6 101.4	104.1 107.8 100.6 101.3	104.1 107.8 100.6 100.8	104.1 107.8 100.7 101.2	104.3 107.8 100.9 101.6	104.3 107.9 100.9 101.1	104.3 107.8 100.8 102.1

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

[2000 = 100, unless indicated otherwise]

Catogony			20	08	2009						
Category	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.		
Import air freight	141.8	144.4	158.7	157.1	138.5	132.9	132.8	134.8	163.9		
Export air freight	127.1	132.0	140.8	144.3	135.0	124.1	117.4	121.6	122.7		
Import air passenger fares (Dec. 2006 = 100)	135.3	131.3	171.6	161.3	157.3	134.9	147.3	137.9	152.3		
Export air passenger fares (Dec. 2006 = 100)	155.7	156.4	171.4	171.9	164.6	141.7	138.2	141.3	156.1		

47. Indexes of productivity, hourly compensation, and unit costs, quarterly data seasonally adjusted

[1992 = 100]

Item	2006	2007				20	08		2009				
	IV	I	Ш	Ш	IV	Ι	П	Ш	IV	I	П	Ш	IV
Business													
Output per hour of all persons	138.7	139.0	140.2	142.1	142.6	142.7	143.8	143.9	144.2	144.3	146.7	149.3	151.7
Compensation per hour	173.3	175.2	176.5	177.8	179.6	180.3	181.0	183.0	184.2	182.0	184.9	187.6	188.3
Real compensation per hour	122.5	122.7	122.4	122.6	122.1	121.2	120.4	119.9	123.3	122.6	124.1	124.8	124.2
Unit labor costs	124.9	126.0	125.9	125.1	125.9	126.3	125.9	127.2	127.7	126.1	126.1	125.6	124.2
Unit nonlabor payments	135.1	136.7	139.4	141.9	141.9	141.7	143.8	145.4	143.6	148.1	147.9	148.8	151.8
Implicit price deflator	128.7	130.0	130.9	131.4	131.9	132.1	132.5	134.0	133.6	134.3	134.2	134.3	134.4
Nonfarm business													
Output per hour of all persons	137.8	138.2	139.2	141.1	141.8	141.7	142.8	142.8	143.1	143.2	145.6	148.2	150.4
Compensation per hour	172.3	174.2	175.1	176.3	178.5	179.2	179.8	181.8	183.1	180.9	183.9	186.4	187.1
Real compensation per hour	121.8	122.1	121.4	121.5	121.3	120.5	119.6	119.1	122.6	121.9	123.5	124.1	123.5
Unit labor costs	125.0	126.0	125.8	125.0	125.9	126.4	125.9	127.3	128.0	126.3	126.3	125.8	124.4
Unit nonlabor payments	136.9	138.2	140.9	143.3	143.0	142.5	144.9	146.6	145.3	150.5	150.2	151.4	153.8
Implicit price deflator	129.3	130.5	131.4	131.7	132.2	132.3	132.9	134.4	134.3	135.2	135.1	135.2	135.2
Nonfinancial corporations													
Output per hour of all employees	143.6	143.5	144.5	144.1	145.9	145.0	147.4	148.6	148.0	145.3	148.2	150.5	-
Compensation per hour	162.5	164.2	165.2	166.2	168.3	168.6	169.7	171.8	173.7	171.6	173.5	175.8	-
Real compensation per hour	114.9	115.0	114.6	114.5	114.4	113.4	112.9	112.5	116.3	115.6	116.5	117.0	-
Total unit costs	115.3	116.8	117.2	118.6	118.7	119.8	118.9	119.4	121.8	123.8	122.7	121.6	-
Unit labor costs	113.2	114.4	114.4	115.3	115.3	116.3	115.1	115.6	117.3	118.1	117.1	116.8	-
Unit nonlabor costs	120.9	123.1	124.9	127.4	127.9	129.1	129.2	129.8	134.1	139.1	138.0	134.6	-
Unit profits	175.8	171.2	171.8	155.6	149.9	133.0	134.7	145.3	129.5	127.5	133.8	138.9	-
Unit nonlabor payments	135.9	136.2	137.7	135.1	133.9	130.2	130.7	134.0	132.8	135.9	136.8	135.8	-
Implicit price deflator	120.8	121.8	122.2	122.0	121.6	121.0	120.4	121.8	122.5	124.1	123.7	123.2	-
Manufacturing													
Output per hour of all persons	175.3	176.9	178.2	180.1	181.6	182.8	181.6	180.3	178.1	177.0	179.9	186.1	189.6
Compensation per hour	169.5	172.9	172.9	172.9	175.6	175.7	176.9	178.8	183.9	183.7	186.6	189.5	189.5
Real compensation per hour	119.9	121.1	119.9	119.2	119.4	118.1	117.6	117.1	123.1	123.7	125.3	126.1	125.0
Unit labor costs	96.7	97.7	97.0	96.0	96.7	96.1	97.4	99.2	103.2	103.8	103.7	101.9	99.9

NOTE: Dash indicates data not available.
48. Annual indexes of multifactor productivity and related measures, selected years

[2000 = 100, unless otherwise indicated]

Item	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Private business													
Productivity:													
Output per hour of all persons	90.0	91.7	94.3	97.2	100.0	102.8	107.1	111.2	114.5	116.6	117.6	119.5	122.7
Output per unit of capital services	105.3	105.3	103.8	102.3	100.0	96.0	94.7	95.5	97.2	98.1	98.4	97.7	95.6
Multifactor productivity	95.3	96.2	97.4	98.8	100.0	100.4	102.5	105.4	108.2	109.7	110.3	110.7	112.0
Output	82.8	87.2	91.5	96.2	100.0	100.5	102.0	105.2	109.7	113.6	117.1	119.5	120.4
Inputs:													
Labor input	90.8	94.4	96.5	98.8	100.0	98.2	96.2	95.8	96.9	98.8	101.2	102.3	100.3
Capital services	78.7	82.9	88.2	94.1	100.0	104.6	107.7	110.2	112.9	115.8	119.1	122.3	125.9
Combined units of labor and capital input	86.9	90.7	93.9	97.4	100.0	100.0	99.5	99.9	101.4	103.6	106.2	108.0	107.6
Capital per hour of all persons	85.5	87.1	90.9	95.0	100.0	107.0	113.1	116.5	117.8	118.9	119.6	122.3	128.3
Private nonfarm business													
Productivity:													
Output per hour of all persons	90.5	92.0	94.5	97.3	100.0	102.7	107.1	111.1	114.2	116.1	117.2	118.9	122.3
Output per unit of capital services.	106.1	105.8	104.2	102.6	100.0	96.0	94.5	95.2	96.9	97.7	97.9	97.0	95.1
Multifactor productivity	95.8	96.5	97.7	99.0	100.0	100.4	102.5	105.2	108.0	109.3	109.9	110.1	111.4
Output	82.8	87.2	91.5	96.3	100.0	100.5	102.1	105.2	109.6	113.5	117.1	119.4	120.4
Inputs:													
Labor input	90.4	94.0	96.3	98.8	100.0	98.4	96.4	96.0	97.1	99.1	101.6	102.8	100.9
Capital services.	78.1	82.4	87.8	93.9	100.0	104.7	107.9	110.5	113.1	116.1	119.6	123.1	126.7
Combined units of labor and capital input	86.5	90.4	93.7	97.3	100.0	100.2	99.6	100.0	101.5	103.8	106.6	108.4	108.1
Capital per hour of all persons	85.3	86.9	90.7	94.8	100.0	107.0	113.2	116.7	117.8	118.9	119.7	122.6	128.8
Manufacturing [1996 - 100]													
Manufacturing [1990 = 100]													
Productivity:													
Output per hour of all persons	82.7	87.3	92.0	96.1	100.0	101.6	108.6	115.3	117.9	123.5	125.0	_	_
Output per unit of capital services	98.0	100.6	100.7	100.4	100.0	93.5	92.3	93.2	95.4	98.9	100.2	-	-
Multifactor productivity	91.2	93.8	95.9	96.7	100.0	98.7	102.4	105.2	108.0	108.4	110.1	-	-
Output	83.1	89.2	93.8	97.4	100.0	94.9	94.3	95.2	96.9	100.4	102.3	-	-
Inputs:												_	-
Hours of all persons	100.4	102.2	101.9	101.3	100.0	93.5	86.8	82.6	82.2	81.3	81.8	-	-
Capital services	84.8	88.7	93.2	97.0	100.0	101.5	102.1	102.1	101.6	101.5	102.0	-	-
Energy	110.4	108.2	105.4	105.5	100.0	90.6	89.3	84.4	84.0	91.6	86.6	-	_
Nonenergy materials	86.0	92.9	97.7	102.6	100.0	93.3	88.4	87.7	87.3	92.4	91.5	-	-
Purchased business services	88.5	92.1	95.0	100.0	100.0	100.7	98.2	99.1	97.0	104.5	106.6	-	-
Combined units of all factor inputs	91.1	95.1	97.8	100.7	100.0	96.2	92.1	90.5	89.7	92.7	92.9	-	-

NOTE: Dash indicates data not available.

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

[1992 = 100]

Item	1964	1974	1984	1994	2001	2002	2003	2004	2005	2006	2007	2008	2009
Business													
Output per hour of all persons	57.0	72.5	85.5	101.4	120.7	126.2	131.0	134.9	137.1	138.5	141.0	143.6	147.9
Compensation per hour	16.2	31.8	68.9	103.8	140.9	145.3	152.3	157.6	163.8	170.1	177.3	182.1	185.7
Real compensation per hour	68.4	84.1	90.5	99.2	114.0	115.6	118.6	119.5	120.2	120.8	122.4	121.1	123.9
Unit labor costs	28.5	43.8	80.6	102.3	116.7	115.1	116.2	116.9	119.5	122.8	125.7	126.8	125.5
Unit nonlabor payments	27.2	39.7	80.4	106.1	111.0	116.1	118.7	125.8	131.9	135.9	140.0	143.6	149.2
Implicit price deflator	28.0	42.3	80.5	103.7	114.6	115.5	117.1	120.2	124.1	127.7	131.0	133.0	134.3
Nonfarm business													
Output per hour of all persons	59.8	74.5	86.4	101.6	120.2	125.7	130.3	134.0	136.2	137.5	140.1	142.6	146.8
Compensation per hour	16.6	31.9	69.2	103.8	140.1	144.5	151.4	156.6	162.8	169.0	176.0	181.0	184.6
Real compensation per hour	70.0	84.6	90.9	99.2	113.3	115.0	117.9	118.7	119.4	120.0	121.6	120.4	123.2
Unit labor costs	27.8	42.9	80.1	102.2	116.5	115.0	116.2	116.8	119.5	122.9	125.7	126.9	125.7
Unit nonlabor payments	27.1	37.9	79.5	106.6	112.6	118.1	120.1	126.7	133.6	138.0	141.4	144.8	151.5
Implicit price deflator	27.5	41.0	79.9	103.8	115.1	116.1	117.6	120.4	124.7	128.5	131.5	133.5	135.2
Nonfinancial corporations													
Output per hour of all employees	62.6	73.0	87.4	102.3	123.5	127.9	133.0	137.5	141.0	143.0	144.5	147.2	-
Compensation per hour	18.2	34.0	71.6	103.6	137.3	140.9	147.3	150.9	155.7	160.2	166.0	170.9	-
Real compensation per hour	76.9	90.0	94.0	99.0	111.0	112.2	114.7	114.4	114.2	113.8	114.6	113.7	-
Total unit costs	27.7	45.1	81.8	100.9	111.5	110.9	111.3	110.1	111.8	113.8	117.8	120.0	-
Unit labor costs	29.2	46.5	82.0	101.3	111.2	110.2	110.8	109.7	110.4	112.0	114.9	116.1	-
Unit nonlabor costs	23.9	41.3	81.4	99.6	112.3	112.9	112.7	111.3	115.4	118.9	125.8	130.5	-
Unit profits	58.6	47.5	106.4	134.0	84.0	96.6	107.3	142.7	161.1	179.9	162.1	135.7	-
Unit nonlabor payments	33.3	42.9	88.2	109.0	104.6	108.5	111.2	119.8	127.8	135.5	135.7	131.9	-
Implicit price deflator	30.6	45.3	84.1	103.9	109.0	109.6	110.9	113.1	116.3	119.9	121.9	121.4	-
Manufacturing													
Output per hour of all persons	-	-	-	106.2	141.2	151.0	160.4	164.0	171.9	173.7	179.2	180.7	183.1
Compensation per hour	-	-	-	104.8	137.5	145.1	156.7	157.9	163.2	166.4	173.6	178.7	187.3
Real compensation per hour	-	-	-	100.1	111.2	115.5	122.0	119.7	119.7	118.2	119.9	118.9	125.0
Unit labor costs	-	-	-	98.7	97.4	96.1	97.7	96.3	94.9	95.8	96.9	98.9	102.3
Unit nonlabor payments	-	-	-	102.8	102.1	101.2	103.3	111.3	122.5	128.0	-	-	-
Implicit price deflator	-	-	-	101.4	100.6	99.5	101.5	106.4	113.5	117.4	-	-	-

Dash indicates data not available.

Annual indexes of output per hour for select	ed NAICS industries
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[2002=100]

NAICS	Industry	1987	1992	1997	2000	2001	2002	2003	2004	2005	2006	2007	2008
	Mining												
21	Mining	75.1	83.7	88.1	97.8	96.1	100.0	102.2	94.1	84.6	76.9	71.9	-
211	Oil and gas extraction	64.7	65.9	80.8	96.5	98.2	100.0	105.1	90.2	87.1	81.0	78.3	-
2111	Oil and gas extraction	64.7 62.6	65.9 79.4	80.8	96.5	98.2	100.0	105.1	90.2	87.1	81.0	78.3	-
212	Cool mining	02.0 51.7	78.4 67.2	90.3	96.0	98.5	100.0	102.8	104.9	103.1	100.3	95.0	-
2121	Metal ore mining	51.7	66.0	09.0 72.4	87.9	95.7	100.0	101.5	99.2	90.5	09.3 89.1	90.4 75.4	
2123	Nonmetallic mineral mining and guarrying	85.0	93.1	96.5	92.8	95.9	100.0	102.5	110.4	114.3	115.8	106.0	-
213	Support activities for mining	76.7	87.6	96.6	97.5	106.7	100.0	131.7	164.5	140.1	142.1	151.5	-
2131	Support activities for mining	76.7	87.6	96.6	97.5	106.7	100.0	131.7	164.5	140.1	142.1	151.5	-
	Litilities												
2211	Power generation and supply	63.7	72.4	97.2	103.9	103.4	100.0	102.1	104.4	111 1	112 1	110 1	
2212	Natural gas distribution.	58.7	66.0	86.6	98.1	95.3	100.0	98.9	104.4	105.8	103.2	103.7	-
044	Manufacturing	00.0	05.0		00.5	05.4	100.0	101.0	404.0	100.0	1011	404.4	
311	F000	80.9 58.6	85.0	86.9	93.5	95.4	100.0	101.6	101.0	106.2	104.1	101.4	-
3112	Grain and oilseed milling	56.0	74.2	81.4	92.3	97.6	100.0	100.7	104.0	106.6	100.2	105.4	
3113	Sugar and confectionery products	80.4	81.9	92.5	102.3	100.3	100.0	100.4	107.3	120.4	113.5	103.4	-
3114	Fruit and vegetable preserving and specialty	73.1	72.3	78.7	88.7	95.7	100.0	97.2	99.5	103.3	98.0	104.5	-
3115	Dairy products	77.4	89.1	94.6	89.6	92.1	100.0	104.2	102.0	101.9	100.7	99.4	-
3116	Animal slaughtering and processing	90.1	94.4	93.0	95.7	96.0	100.0	99.9	100.4	109.7	109.4	105.8	-
3117	Seafood product preparation and packaging	72.5	69.4	58.9	82.7	89.8	100.0	101.8	96.5	110.5	122.0	109.2	-
3118	Bakeries and tortilla manufacturing	85.5	86.2	87.5	96.6	98.4	100.0	97.9	100.1	104.3	103.8	101.3	-
3119	Other food products	86.8	86.9	89.1	100.4	94.2	100.0	105.0	106.1	102.6	102.6	94.7	-
312	Beverages and tobacco products	9/ 9	111.0	121 /	107.3	108.3	100.0	111 /	114.6	120.8	113.0	109.5	
3121	Beverages and tobacco products	77.8	95.7	100.8	91.6	93.2	100.0	110.8	115.4	120.0	112.6	112.7	_
3122	Tobacco and tobacco products	107.2	116.0	149.3	143.0	146.6	100.0	116.7	121.5	136.5	138.1	137.3	-
313	Textile mills	59.8	66.6	81.3	86.3	89.4	100.0	111.1	113.0	122.9	122.2	124.1	-
3131	Fiber, yarn, and thread mills	50.0	60.2	75.2	75.6	82.5	100.0	112.1	116.7	108.8	105.5	115.7	-
3132	Fabric mills	56.0	67.2	82.5	90.2	91.4	100.0	114.0	115.3	133.0	140.7	141.5	-
3133	Textile and fabric finishing mills	76.5	69.9	83.6	87.2	91.0	100.0	104.1	104.5	113.3	102.4	98.5	-
314	Textile product mills	82.Z	82.0	91.4	101.3	97.8	100.0	102.8	115.0	121.1	107.7	98.5	-
3141	Other textile product mills	78.7	07.4 79.1	94.4	100.5	90.0	100.0	98.0	116.4	128.3	120.9	99.9 103.2	
0140		10.1	70.1	00.1	100.0	00.0	100.0	00.0	110.4	120.0	120.0	100.2	
315	Apparel	73.1	77.8	100.3	116.9	117.2	100.0	106.7	94.2	94.4	86.0	60.4	-
3151	Apparel knitting mills	71.3	86.9	92.8	100.4	97.3	100.0	93.2	83.7	97.8	97.7	65.6	-
3152	Cut and sew apparel	70.4	73.1	99.6	119.2	119.7	100.0	109.7	96.4	91.9	82.4	58.2	-
3159	Accessories and other apparel	129.9	129.8	132.2	129.8	137.4	100.0	105.8	95.8	109.8	96.3	71.6	-
316	Leather and allied products	84.7	95.2	121.1	133.4	138.0	100.0	105.7	130.3	130.6	135.8	128.4	-
2161	Leather and hide tenning and finishing	120 /	121.6	150 7	126.7	140.1	100.0	102.1	125 7	142.2	107.0	166 F	
3162	Footwear	78.5	86.0	102.5	122.2	140.1	100.0	103.1	112.6	142.2	127.0	100.5	
3169	Other leather products	117.2	127.9	135.3	143.2	140.8	100.0	107.7	165.5	160.7	183.1	178.6	_
321	Wood products	83.1	86.8	87.5	90.2	91.7	100.0	101.6	102.2	107.6	110.9	111.2	-
3211	Sawmills and wood preservation	67.3	74.1	86.9	90.9	90.6	100.0	108.3	103.9	108.3	113.4	107.7	-
3212	Plywood and engineered wood products	90.3	103.4	90.4	89.6	95.1	100.0	96.7	92.3	99.6	105.5	109.4	-
3219	Other wood products	89.9	87.8	87.3	90.4	90.9	100.0	100.7	106.5	111.5	113.2	115.4	-
322	Paper and paper products	75.4	79.7	87.7	93.5	93.8	100.0	104.3	108.0	108.6	109.8	113.8	-
3221	Converted paper products	84.4	89.2	94.8	96.0	90.4	100.0	106.0	107.5	108.7	110.0	114.0	
JLLL		0-1.1	00.2	0-1.0	55.0	55.5	100.0	10-1.0	107.0	100.7	110.0	110.4	
323	Printing and related support activities	87.7	91.1	88.9	95.0	95.1	100.0	100.4	103.8	109.2	111.8	115.4	-
3231	Printing and related support activities	87.7	91.1	88.9	95.0	95.1	100.0	100.4	103.8	109.2	111.8	115.4	-
324	Petroleum and coal products	60.8	67.0	85.6	96.8	94.9	100.0	102.0	105.9	106.2	104.3	105.8	-
3241	Petroleum and coal products	60.8	67.0	85.6	96.8	94.9	100.0	102.0	105.9	106.2	104.3	105.8	-
325	Chemicals	75.0	75.9	87.3	92.9	92.0	100.0	101.2	105.3	109.4	109.1	116.7	-
		70.4	70.4					100 5					
3251	Basic chemicals	76.1	72.4 65.4	80.2	94.6	87.6	100.0	108.5	121.8	129.6	134.1	154.9	-
3232	Agricultural chamicals	62.9 90.9	00.4 92.5	81.Z	02.9	80.3	100.0	97.7	97.3	103.4	105.5	142.9	-
3254	Pharmaceuticals and medicines	89.6	89.9	100.0	98.2	102.2	100.0	102.8	103.7	107.3	107.6	142.0	
3255	Paints, coatings, and adhesives	81.6	81.6	91.4	90.5	97.3	100.0	106.1	109.7	111.2	106.7	104.4	-
3256	Soap, cleaning compounds, and toiletries	67.8	68.5	80.0	82.3	84.6	100.0	92.7	102.6	109.7	111.3	134.3	-
3259	Other chemical products and preparations	62.3	70.7	82.6	98.1	90.9	100.0	98.6	96.2	96.0	91.5	105.7	-
326	Plastics and rubber products	67.3	73.8	82.7	91.1	92.8	100.0	103.8	105.9	108.7	108.6	108.1	-
3261	Plastics products	67.3	73.2	80.8	90.7	92.4	100.0	103.9	105.8	108.5	106.8	105.1	-
3262	Rubber products	/1.3	79.3	93.2	94.8	95.5	100.0	103.5	106.4	109.4	114.2	119.5	-
327	Nonmetallic mineral products	83.6	86.4	95.1	98.6	95.6	100.0	107 1	105 3	111.6	110.7	111 5	
3271	Clay products and refractories	90.6	92.7	102.7	108.5	99.1	100.0	109.5	116.0	122.0	122.2	115.2	
		50.5	52		. 50.0	50.1	. 50.0	. 50.5					

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

[2002=100]

NAICS	Industry	1987	1992	1997	2000	2001	2002	2003	2004	2005	2006	2007	2008
3272	Glass and glass products.	75.6	77.6	91.1	100.2	94.1	100.0	106.7	105.7	111.8	119.2	118.6	-
3273	Cement and concrete products	90.5	93.3	97.0	99.3	95.5	100.0	106.3	101.0	104.6	101.6	105.4	-
3274	Lime and gypsum products	89.3	90.3	101.2	99.8	103.1	100.0	109.3	107.2	121.9	119.3	113.9	-
3279	Other nonmetallic mineral products	79.4	85.6	94.9	90.3	95.2	100.0	105.7	106.8	118.5	112.8	109.7	-
331	Primary metals	70.4	76.7	86.9	88.0	87.6	100.0	103.4	116.7	119.8	119.7	129.3	-
3311	Iron and steel mills and ferroallov production	51.9	59.9	80.1	84.6	83.6	100.0	106.1	136.5	134.2	138.1	142.3	-
3312	Steel products from purchased steel	81.9	92.5	102.9	99.1	101.3	100.0	91.8	82.6	77.7	70.0	68.6	-
3313	Alumina and aluminum production	72.7	76.9	80.3	77.5	77.2	100.0	101.8	110.4	125.3	123.1	132.0	-
3314	Other nonferrous metal production	90.8	93.3	93.7	96.2	93.4	100.0	109.6	110.3	106.1	95.2	115.7	-
3315	Foundries	69.4	73.7	85.5	88.7	91.2	100.0	100.4	106.8	111.4	114.1	115.3	-
222	Entricated motal products	79.2	92.2	00.1	04.7	04.5	100.0	102.4	102.0	106.5	100.2	111 1	
3321	Forging and stamping	68.8	74.2	80.4	97.8	97.3	100.0	103.4	113.8	118.5	109.2	128.4	
3322	Cutlerv and handtools.	76.1	76.8	88.1	93.4	97.3	100.0	99.2	90.9	95.4	97.2	109.1	-
3323	Architectural and structural metals	83.5	87.3	94.0	95.6	95.5	100.0	103.7	99.2	104.3	107.6	107.2	-
3324	Boilers, tanks, and shipping containers	86.7	96.2	100.6	95.2	95.0	100.0	103.7	96.0	99.4	101.1	104.4	-
0005	Unadvisor	77.0	75.0	00.0	00.4	00.4	100.0	405 7	4045	400.0	107.0	04.0	
3325	Hardware	77.0 65.4	/5.8 72.2	80.8 70.6	99.4	98.4	100.0	105.7	104.5	106.8	107.2	91.6	-
3327	Machine shops and threaded products	65.2	73.4	87.2	94.9	95.3	100.0	100.0	104.3	101.0	102.1	104.5	_
3328	Coating, engraving, and heat treating metals	64.1	73.8	85.7	89.4	92.5	100.0	100.3	106.1	118.0	115.6	118.6	-
3329	Other fabricated metal products	85.5	84.9	93.9	93.9	90.6	100.0	104.5	104.8	106.6	111.1	111.8	-
333	Machinery	70.0	74.0	85.8	95.7	93.7	100.0	108.1	109.4	115.9	119.5	119.7	-
3331	Agriculture, construction, and mining machinery	69.1	74.7 67.2	96.1	96.1	95.3	100.0	112.3	120.8	124.0	125.1	120.9	-
3332 3333	Commercial and service industry machinery	63.4 88.9	07.3 102.5	84.8 102.1	109.9	89.6 97.1	100.0	98.9 107.5	107.3	105.3	110.3	119.0	-
3334	HVAC and commercial refrigeration equipment	70.6	76.8	84.1	90.8	93.3	100.0	109.6	112.1	116.1	113.0	108.8	-
	0												
3335	Metalworking machinery	75.8	79.8	89.6	96.2	94.2	100.0	103.9	102.9	110.9	111.7	117.3	-
3336	Turbine and power transmission equipment	61.5	61.9	76.6	88.1	97.3	100.0	110.3	96.4	100.6	96.4	96.1	-
3339	Other general purpose machinery	70.5	72.0	84.7	96.1	93.5	100.0	108.1	107.4	117.4	121.8	124.4	-
334	Computer and electronic products	37	23.0	53.U 33.5	96.2 78.4	96.3 84.4	100.0	114.2	127.9	134.9	140.Z 233.1	285.0	-
0041		0.7	7.2	00.0	70.4	04.4	100.0	121.0	100.0	172.1	200.1	200.0	
3342	Communications equipment	31.2	47.5	78.2	128.4	120.1	100.0	113.4	122.0	118.5	146.3	139.5	-
3343	Audio and video equipment	41.6	63.1	67.0	84.9	86.7	100.0	112.6	155.8	149.2	147.1	106.9	-
3344	Semiconductors and electronic components	6.4	11.3	37.8	87.5	87.1	100.0	121.0	133.8	140.7	137.7	159.2	-
3345	Electronic instruments	59.3	72.7	84.4	98.4	100.4	100.0	106.1	122.4	124.4	128.8	138.2	-
3340	magnetic media manufacturing and reproduction	77.0	01.3	09.7	93.3	00.7	100.0	114.5	120.0	129.7	124.9	120.2	-
335	Electrical equipment and appliances	66.0	72.5	88.1	98.3	98.2	100.0	103.5	109.2	114.3	114.7	117.6	-
3351	Electric lighting equipment	80.6	83.4	88.6	90.2	94.3	100.0	98.5	108.1	112.7	121.6	122.7	-
3352	Household appliances	53.5	62.4	76.0	89.3	94.9	100.0	111.6	121.2	124.6	129.7	125.9	-
3353	Electrical equipment	67.3	77.5	98.1	97.5	98.9	100.0	102.1	110.7	117.9	119.7	126.3	-
3339	Other electrical equipment and components	00.7	/1.0	07.3	104.7	99.0	100.0	102.0	101.0	100.5	101.5	105.9	-
336	Transportation equipment	65.5	70.5	78.7	85.7	89.2	100.0	109.0	108.3	113.8	114.8	122.1	-
3361	Motor vehicles	60.4	72.4	79.5	87.1	87.3	100.0	112.0	113.2	118.5	130.6	136.8	-
3362	Motor vehicle bodies and trailers	81.0	83.0	95.2	93.7	84.2	100.0	103.8	104.8	107.8	103.3	110.5	-
3363	Motor vehicle parts	60.3	63.1	76.9	86.1	88.1	100.0	104.8	105.5	109.8	108.4	111.9	-
3364	Aerospace products and parts	73.5	81.3	84.2	86.9	97.4	100.0	99.2	93.9	102.6	97.3	109.0	-
3365	Railroad rolling stock	38.0	55.9	68.5	81.1	86.3	100.0	94.1	87.2	88.4	95.2	94.4	-
3366	Ship and boat building	73.3	76.1	76.6	94.4	93.3	100.0	103.7	106.8	102.4	97.8	99.5	-
3369	Other transportation equipment	48.7	59.3	65.5	83.3	83.4	100.0	110.0	110.4	112.8	122.9	148.8	-
337	Furniture and related products	75.9	78.4	88.7	91.3	92.0	100.0	102.0	103.3	107.5	109.2	106.2	-
3371	Household and institutional furniture	77.3	81.4	89.3	92.7	94.7	100.0	101.1	100.8	105.9	109.7	105.7	-
3372	Office furniture and fixtures	74.0	74.0	86.3	86.9	84 7	100.0	106.3	110.4	112.4	107 2	104.3	-
3379	Other furniture related products	77.4	78.0	89.6	90.2	94.8	100.0	99.4	109.4	115.5	120.5	119.5	-
339	Miscellaneous manufacturing	64.5	71.1	79.3	92.6	94.0	100.0	106.9	106.4	114.8	118.4	114.4	-
3391	Medical equipment and supplies	57.7	68.5	76.6	90.3	93.8	100.0	107.6	108.6	116.2	117.8	113.7	-
3399	Other miscellaneous manufacturing	71.8	74.5	83.1	96.0	94.7	100.0	105.8	104.6	113.0	117.8	113.5	-
	Wholesale trade												
42	Wholesale trade	59.5	70.3	81.2	94.5	95.5	100.0	103.5	109.0	109.4	110.9	110.8	110.5
423	Durable goods	44.5	53.9	71.5	89.2	92.0	100.0	104.6	115.1	118.9	122.9	121.9	122.3
4231	IVIOLOT VENICIES AND PARS	55.9 60 F	63.1 go⊿	/5.0 86.2	87.5	90.0 05 F	100.0	103.2	107.6	110.0 100.6	119.5	114.1	105.3
4233	Lumber and construction supplies	88.0	89.1	80.7	86.9	93.5 94.1	100.0	100.9	112.2	113.0	108.9	103.2	102.2
4234	Commercial equipment	10.6	17.8	37.8	68.7	82.3	100.0	112.9	133.2	151.1	167.1	180.4	197.0
4235	Metals and minerals	105.6	112.3	103.9	97.5	98.0	100.0	101.2	110.4	107.5	103.0	95.1	87.1
4236	Electric goods	26.8	35.1	62.7	95.8	92.5	100.0	103.9	121.7	127.3	137.3	144.2	148.0
4231	Machinery and supplies	00.2 7/1 0	91.9	97.0 QQ R	101.1	98.0 102.6	100.0	101.3	104.5	117.0	101.4	90.0 115 5	09.5 123.0
-200	machinely and oupplice	74.0	50.5	33.0	100.2	102.0	100.0	100.1	112.0		113.0	110.0	120.0

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

[2002=100]

NAICS	Industry	1987	1992	1997	2000	2001	2002	2003	2004	2005	2006	2007	2008
4239	Miscellaneous durable goods	72.0	87.0	80.2	91.7	93.8	100.0	96.0	107.7	107.0	96.7	93.8	96.5
424	Nondurable goods	86.1	96.3	94.6	99.4	99.3	100.0	104.4	107.4	107.7	105.8	105.0	104.5
4241	Paper and paper products	73.5	82.8	85.9	86.6	89.7	100.0	102.7	112.2	121.5	117.2	124.4	113.8
4242	Druggists' goods	78.8	98.7	111.5	95.7	94.6	100.0	111.6	117.9	124.8	121.7	113.3	121.2
4243	Apparei and piece goods	70.5	10.3	01.5	00.7	93.9	100.0	102.0	100.7	114.0	115.0	113.5	110.0
4244	Grocery and related products	89.3	106.1	101.5	103.9	103.3	100.0	106.4	105.6	104.7	104.5	107.3	103.5
4245	Farm product raw materials	83.1	84.8	101.8	107.2	104.1	100.0	100.1	111.3	113.4	120.4	119.9	122.0
4246	Chemicals	101.5	118.1	112.3	98.7	95.8	100.0	103.5	102.4	97.5	93.0	92.6	93.4
4247	Petroleum	54.9	73.9	65.1	89.9	91.5	100.0	98.4	106.2	98.6	95.8	92.0	93.5
4248	Alcoholic beverages	92.9	97.5	93.6	101.5	99.6	100.0	101.1	96.6	97.4	100.7	100.8	96.6
4249	Miscellaneous nondurable goods	104.9	92.5	94.3	108.1	105.3	100.0	103.5	113.5	116.4	113.4	109.0	101.5
425	Electronic markets and agents and brokers	58.6	77.0	91.1	109.4	100.9	100.0	95.3	89.4	79.6	84.2	91.4	89.0
4251	Electronic markets and agents and brokers	58.6	77.0	91.1	109.4	100.9	100.0	95.3	89.4	79.6	84.2	91.4	89.0
	Retail trade												
44-45	Retail trade	63.1	67.9	79.6	92.5	95.6	100.0	104.8	109.8	112.5	116.8	120.0	117.9
441	Motor vehicle and parts dealers	65.4	73.4	83.4	95.3	96.7	100.0	103.6	106.2	105.6	107.5	109.0	99.3
4411	Automobile dealers	67.6	76.4	85.3	97.0	98.5	100.0	101.9	106.4	105.4	106.9	109.2	99.1
4412	Other motor vehicle dealers	55.4	63.5	74.8	86.2	93.2	100.0	100.1	107.2	100.8	106.9	108.3	110.1
4413	Auto parts, accessories, and tire stores	66.7	76.9	92.9	100.7	94.1	100.0	106.9	102.3	107.3	108.2	105.6	101.4
442	Furniture and home furnishings stores.	58.1	66.8	77.4	89.7	94.7	100.0	104.1	113.5	116.4	121.1	128.1	128.5
4421	Furniture stores	61.8	72.8	79.9	89.5	95.6	100.0	102.9	111.2	113.7	119.8	123.2	121.6
4422	Home furnishings stores	53.0	59.0	74.1	89.7	93.5	100.0	105.7	116.3	119.5	123.0	133.9	136.5
443	Electronics and appliance stores	16.3	24.1	42.8	74.4	84.2	100.0	125.3	143.1	158.1	177.3	201.1	232.9
4431	Electronics and appliance stores	16.3	24.1	42.8	74.4	84.2	100.0	125.3	143.1	158.1	177.3	201.1	232.9
444	Building motorial and garden supply stores	62.9	67.5	02.0	02.7	06.7	100.0	105.2	111.2	111.4	112.0	116.0	117 0
444	Building material and supplies dealers	64.0	68.3	02.0 82.5	93.7	96.7	100.0	105.2	110.4	111.4	113.9	114.5	117.0
4442	Lawn and garden equipment and supplies stores	56.5	63.5	84.6	87.2	100.1	100.0	106.3	118.4	111.8	116.7	136.1	164.4
445	Food and beverage stores	105.9	101.8	95.5	96.5	99.1	100.0	102.3	107.8	112.6	115.2	118.2	116.0
4451	Grocery stores	106.1	102.1	95.5	96.5	98.6	100.0	101.9	107.1	111.5	112.9	115.1	113.5
						100.0		100 5					
4452	Specialty food stores	131.5	106.1	95.0	93.6	102.8	100.0	106.5	114.3	118.8	131.2	140.1	128.7
4400	Health and personal care stores	68.4	00.0 73.1	90.0	90.0	97.2	100.0	105.3	100.0	127.0	132.0	141.1	134.1
4461	Health and personal care stores	68.4	73.1	81.3	91.3	94.5	100.0	105.3	109.2	108.8	113.0	112.1	112.5
447	Gasoline stations	67.1	70.2	79.9	86.1	90.2	100.0	95.8	97.7	99.4	98.9	101.4	100.8
4471	Gasoline stations	67.1	70.2	79.9	86.1	90.2	100.0	95.8	97.7	99.4	98.9	101.4	100.8
448	Clothing and clothing accessories stores	50.5	57.6	76.2	94.1	96.3	100.0	105.8	106.0	112.4	122.8	132.4	136.7
4401	Shoe stores	49.4	50.0	73.0	91.9	90.0 80.0	100.0	104.3	99.7	105.5	123.4	133.0	144.5
4483	Jewelry, luggage, and leather goods stores	54.4	53.2	84.3	110.0	104.4	100.0	111.9	121.6	117.0	124.2	134.2	122.0
451	Sporting goods, hobby, book, and music stores	58.7	67.7	78.4	94.9	99.6	100.0	103.1	118.4	128.2	133.3	131.2	135.4
4511	Sporting goods and musical instrument stores	53.8	63.4	73.5	95.1	98.9	100.0	103.7	122.0	132.0	140.1	137.0	141.7
4512	Book, periodical, and music stores	70.7	77.5	89.6	94.7	101.2	100.0	101.8	110.7	120.1	118.5	118.7	121.7
452	General merchandise stores	56.9 85.7	64.3 89.6	77.5 07.0	93.1	96.7	100.0	106.0	109.0	112.4	116.1	116.7	115.8
4521	Department stores	00.7	03.0	57.5	100.0	101.5	100.0	104.5	107.5	100.5	111.5	104.2	57.5
4529	Other general merchandise stores	30.5	38.9	55.8	82.4	92.2	100.0	105.8	107.1	110.7	113.9	120.3	123.2
453	Miscellaneous store retailers	54.7	61.9	84.0	95.8	94.6	100.0	105.9	109.8	116.7	128.4	133.8	136.8
4531	Florists	68.2	73.6	87.9	101.3	90.3	100.0	95.7	90.9	108.5	125.5	118.2	140.6
4532	Office supplies, stationery and gift stores	43.4	52.6	70.7	89.9	93.5	100.0	108.8	122.1	128.9	143.1	151.8	147.4
4533	Used merchandise stores	45.4	57.6	70.4	82.0	85.8	100.0	105.4	107.4	110.4	117.6	131.9	148.6
4539	Other miscellaneous store retailers	72.4	75.5	106.0	110.6	102.7	100.0	105.8	102.7	107.4	119.0	123.1	121.3
454	Nonstore retailers	27.9	33.5	54.9	83.6	89.9	100.0	107.4	118.4	121.3	140.4	152.4	154.8
4541	Electronic shopping and mail-order houses	18.5	23.6	47.0	75.3	84.4	100.0	114.5	128.3	136.4	160.6	176.6	170.5
4542	Vending machine operators	104.6	101.6	109.6	121.7	104.9	100.0	112.1	121.1	125.7	139.7	142.3	160.9
4543	Direct selling establishments	52.4	58.4	74.0	90.7	94.7	100.0	94.1	96.5	88.9	95.8	99.9	99.4
	Transportation and warehousing												
481	Air transportation	76.7	80.0	98.3	96.0	91.0	100.0	110.2	124.2	133.6	140.5	143.0	-
482111	Line-haul railroads	44.7	62.3	75.8	86.6	92.4	100.0	105.0	107.2	103.3	109.3	104.4	-
48412	General freight trucking, long-distance	80.1	91.4	93.5	95.3	96.4	100.0	103.5	103.4	105.9	105.9	107.8	-
48421	Used household and office goods moving	130.9	137.9	122.6	116.2	102.9	100.0	105.7	108.6	108.5	109.0	114.3	-
4911	U.S. Postal service	85.4	89.4	93.9	99.1 99.1	99.0 99.8	100.0	101.3	103.4	104.5	104.5	105.3	-
		50. 4	55. 4	55.5	55.1	55.5	. 50.0		. 50.4	. 54.5	. 54.5	. 55.5	
492	Couriers and messengers	103.6	108.8	69.8	90.0	92.6	100.0	102.2	96.7	95.3	98.0	92.5	-
493	Warehousing and storage	-	62.4	81.9	89.5	94.4	100.0	102.2	100.3	101.1	97.8	94.5	-
4931	Warehousing and storage	-	62.4	81.9	89.5	94.4	100.0	102.2	100.3	101.1	97.8	94.5	-
49311	General warehousing and storage	-	44.9	73.5	85.1	92.8	100.0	102.1	96.2	97.0	95.6	91.3	-
49312	reingerated warehousing and storage	-	106.7	114.7	109.4	98.0	100.0	105.8	114.0	101.8	92.2	97.7	-

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

NAICS Industry 1987 1992 1997 2000 2001 2002 2003 2004 2005 2006 2007 2008 Information Publishing industries, except internet 99.9 107.8 128.1 511 54. 62.5 85.3 99. 100.0 111.6 116.6 123. 5111 Newspaper, book, and directory publishers.... 100.3 91.7 95.6 102.9 101.0 100.0 104.7 101.9 103.1 107.2 109.1 5112 Software publishers. 8.3 35.3 81.9 97.7 96.2 100.0 113.1 131.5 142. 146.3 151.2 51213 Motion picture and video exhibition...... 90.9 104.2 100.2 106.7 101.8 100.0 100.6 103.8 102.5 107.5 110.8 515 Broadcasting, except internet... 95.7 99.0 96.2 99.6 95.5 100.0 103.8 108.2 111.3 118.4 127.7 5151 103.2 109.7 105.2 96.9 94.2 100.0 99.5 101.6 104. 112.4 116.6 Radio and television broadcasting... 5152 Cable and other subscription programming.... Wired telecommunications carriers..... 81.3 45.8 74.2 58.1 77.0 108.7 98.8 98.7 100.0 112.5 105.1 122.3 106.3 126.1 129.5 114.7 148.3 5171 80.6 100.0 111.4 114.6 5172 Wireless telecommunications carriers. 34.7 34.1 45.9 70.1 88.0 100.0 111.3 134.2 175.2 198.0 209.5 Finance and insurance Commercial banking... 52211 68.8 78.5 93.6 98.0 95.8 100.0 104.5 110.2 111.6 114.8 115.8 Real estate and rental and leasing 532111 Passenger car rental. 80.9 91.4 87.3 98.0 97.0 100.0 105.7 103.2 95.8 113.6 97 2 Truck, trailer, and RV rental and leasing..... 58.7 53212 52.9 87.7 106.8 102.0 120.8 129.0 148.2 99.6 100.0 152.4 53223 Video tape and disc rental... 59.1 78.5 76.7 103.5 102.3 100.0 113.9 118.5 110.6 135.2 171.1 Professional and technical services 541213 Tax preparation services...... 74 4 78.5 89.8 90.6 84.8 100.0 98.7 89.7 93.1 92.7 105.4 54131 54133 Architectural services...... 83.7 93.5 92.9 100.0 103.2 100.0 104.6 109.9 111.3 110.5 115.7 Engineering services.. 89.8 96.8 99.5 101.5 99.6 100.0 100.0 107.3 111.8 112.5 109.5 54181 84.8 99.7 88.5 100.0 107.1 dvertising agencies. 95.1 94.5 118.0 117.6 118.6 123.0 541921 Photography studios, portrait...... 100.5 98.7 102.4 111.6 104.7 100.0 106.7 95.4 95.9 101.2 107.0 Administrative and waste services 561311 Employment placement agencies...... 85.6 76.9 85.2 100.0 98.7 102.5 99.3 106.0 113.7 56151 Travel agencies... 70.0 72.4 78.4 93.6 90.3 100.0 115.4 131.0 140.5 143.8 149.4 56172 87.2 94.7 95.7 100.0 112.5 110.4 114.3 110.0 115.9 Janitorial services.. 71.1 96.7 Health care and social assistance 6215 Medical and diagnostic laboratories..... 72.7 95.9 98.3 100.0 102.3 102.3 100.1 101.5 98.9 621511 Medical laboratories... 81.2 103.5 103.7 100.0 104.5 106.2 102.2 103.4 105.6 621512 Diagnostic imaging centers. 61.2 85.7 90.8 100.0 98.0 94.0 94.4 96.0 85.1 Arts, entertainment, and recreation 71311 105. 93.9 99.5 87.3 106.3 103.2 Amusement and theme parks..... 89.9 100.0 95.2 91.7 96.9 71395 110.0 108.5 103.8 96.9 100.0 106.3 112.0 110.5 Bowling centers. 97.9 106.4 127.4 Accommodation and food services 72 101.5 102.9 102.1 Accommodation and food services...... 88.1 93.2 94.6 100.1 99. 100.0 103.2 102.8 721 Accommodation.. 81.0 100.0 101.0 106.4 76.7 89.3 98.5 96.4 102.1 99.0 97.3 7211 Traveler accommodation 75.6 80.4 89.2 99.2 96.6 100.0 100.9 106.5 102.5 98.9 97.1 ood services and drinking places..... 722 91.9 96.9 95.8 99.1 99.4 100.0 101.8 102.5 103.3 104.5 104.1 103.3 7221 Full-service restaurants. 88.3 93.5 95.8 98.7 99.2 100.0 99.9 100.4 100.8 101.1 99.7 100.2 99.4 7222 Limited-service eating places..... 94.0 100.2 97.4 99.8 100.0 102.6 104.1 104.6 106.3 106.4 103.1 7223 Special food services. 78.2 87.7 87.0 100.1 100.3 100.0 102.3 102.7 103.7 102.6 104.0 106.0 7224 Drinking places, alcoholic beverages...... 132.8 115.8 97.2 97.8 94.8 100.0 115.3 109.1 117.2 130.4 133.7 139.2 Other services 8111 Automotive repair and maintenance 82.8 86.9 96.4 105 5 105.0 100.0 100.4 107.9 108 1 1074 106.4 81142 Reupholstery and furniture repair..... 105.3 103.7 98.0 103.4 102.9 100.0 97.8 98.0 103.3 95.3 99.4 81211 Hair, nail, and skin care services... 757 78 4 90.6 98.0 103.8 100.0 108.4 113.3 117.7 117.6 121.9 81221 Funeral homes and funeral services...... 109.7 112.2 105.8 100.3 97.1 100.0 101.2 98.3 98.4 105.2 102.6 Drycleaning and laundry services..... 86.3 85.1 88.9 95.7 98.6 100.0 92.3 98.4 107.6 106.5 101.9 8123 101.5 111.2 100.0 110.7 81292 Photofinishing. 95.3 99.5 73.4 80.8 99.9 111.8 109.6

NOTE: Indexes for Wired telecommunications carriers are on a NAICS 2002 basis. Dash indicates data are not available.

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

[Percent]

				20	07			20		20	09	
Country	2007	2008	I	Ш	111	IV	I	Ш	Ш	IV	I	II
United States	4.6	5.8	4.5	4.5	4.7	4.8	4.9	5.4	6.0	6.9	8.1	9.2
Canada	5.3	5.3	5.4	5.2	5.2	5.2	5.2	5.3	5.3	5.6	6.7	7.5
Australia	4.4	4.2	4.5	4.3	4.3	4.4	4.0	4.2	4.2	4.5	5.3	5.7
Japan	3.9	4.0	4.0	3.8	3.8	3.9	3.9	4.1	4.1	4.1	4.5	5.3
France	8.1	7.5	8.6	8.2	8.1	7.7	7.2	7.4	7.5	8.0	8.7	9.3
Germany	8.7	7.5	9.2	8.8	8.6	8.2	7.8	7.6	7.4	7.4	7.7	8.0
Italy	6.2	6.8	6.2	6.1	6.3	6.4	6.6	6.8	6.9	7.1	7.3	7.4
Netherlands	3.2	2.8	3.6	3.2	3.0	3.0	2.9	2.8	2.6	2.8	3.1	3.3
Sweden	6.2	6.2	6.3	6.1	5.8	5.8	5.7	5.8	5.9	6.5	7.4	8.2
United Kingdom	5.4	5.7	5.5	5.4	5.3	5.2	5.3	5.4	5.9	6.3	7.0	7.8

Quarterly figures for France, Germany, Italy, and the Netherlands are calculated by applying annual adjustment factors to current published data and therefore should be viewed as less precise indicators of unemployment under U.S. concepts than the annual figures. 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.bis.gov/ii/c/fiscomparelf.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]			

Employment status and country	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Civilian labor force											
United States	137 673	139 368	142 583	143 734	144 863	146 510	147 401	149 320	151 428	153 124	154 287
Canada	15 135	15 403	15 637	15 891	16 366	16 733	16 955	17 108	17 351	17 696	17 987
Australia	9,339	9.414	9,590	9,746	9,901	10.085	10,213	10.529	10,771	11.021	11,254
Japan	67,240	67,090	66,990	66,860	66,240	66,010	65,770	65,850	65,960	66,080	65,900
France	25,277	25,705	25,951	26,217	26,448	26,624	26,758	26,926	27,169	27,305	27,541
Germany	39,752	39,375	39,302	39,459	39,413	39,276	39,711	40,760	41,250	41,416	41,623
Italy	23,004	23,176	23,361	23,524	23,728	24,020	24,084	24,179	24,395	24,459	24,829
Netherlands	7,744	7,881	8,052	8,199	8,345	8,379	8,439	8,459	8,541	8,686	8,780
Sweden	4,403	4,429	4,490	4,530	4,545	4,565	4,579	4,700	4,752	4,827	4,887
United Kingdom	28,474	28,786	28,962	29,092	29,343	29,565	29,802	30,137	30,598	30,778	31,125
Participation rate ¹											
United States	67.1	67.1	67.1	66.8	66.6	66.2	66.0	66.0	66.2	66.0	66.0
Canada	65.4	65.9	66.0	66.1	67.1	67.7	67.7	67.4	67.4	67.7	67.9
Australia	64.3	64.0	64.4	64.4	64.3	64.6	64.6	65.4	65.8	66.2	66.6
Japan	62.8	62.4	62.0	61.6	60.8	60.3	60.0	60.0	60.0	60.0	59.8
France	55.6	56.2	56.3	56.4	56.4	56.3	56.2	56.1	56.3	56.2	56.3
Germany	57.7	56.9	56.7	56.7	56.4	56.0	56.4	57.6	58.2	58.4	58.6
Italy	47.7	47.9	48.1	48.3	48.5	49.1	49.1	48.7	48.9	48.6	49.0
Netherlands	61.8	62.5	63.4	64.0	64.7	64.6	64.8	64.7	65.1	65.9	66.3
Sweden	62.8	62.7	63.7	63.7	63.9	63.9	63.6	64.9	65.0	65.4	65.2
United Kingdom	62.4	62.8	62.8	62.7	62.9	62.9	63.0	63.1	63.5	63.4	63.6
Employed											
United States	131,463	133,488	136,891	136,933	136,485	137,736	139,252	141,730	144,427	146,047	145,362
Canada	13,973	14,331	14,681	14,866	15,223	15,586	15,861	16,080	16,393	16,767	17,025
Australia	8,618	8,762	8,989	9,088	9,271	9,485	9,662	9,998	10,255	10,539	10,777
Japan	64,450	63,920	63,790	63,460	62,650	62,510	62,640	62,910	63,210	63,510	63,250
France	22,597	23,080	23,689	24,146	24,316	24,325	24,346	24,497	24,737	25,088	25,474
Germany	36,059	36,042	36,236	36,350	36,018	35,615	35,604	36,185	36,978	37,815	38,480
Italy	20,370	20,617	20,973	21,359	21,666	21,972	22,124	22,290	22,721	22,953	23,137
Netherlands	7,408	7,605	7,813	8,014	8,114	8,069	8,052	8,056	8,205	8,408	8,537
Sweden	4,036	4,116	4,230	4,303	4,311	4,301	4,279	4,334	4,416	4,530	4,582
United Kingdom	26,684	27,058	27,375	27,604	27,815	28,077	28,380	28,674	28,928	29,127	29,343
Employment-population ratio ²											
United States	64.1	64.3	64.4	63.7	62.7	62.3	62.3	62.7	63.1	63.0	62.2
Canada	60.4	61.3	62.0	61.9	62.4	63.1	63.3	63.4	63.6	64.2	64.2
Australia	59.3	59.6	60.3	60.0	60.2	60.8	61.1	62.1	62.6	63.3	63.8
Japan	60.2	59.4	59.0	58.4	57.5	57.1	57.1	57.3	57.5	57.6	57.4
France	49.7	50.4	51.4	51.9	51.8	51.5	51.1	51.1	51.2	51.6	52.1
Germany	52.3	52.1	52.2	52.2	51.5	50.8	50.6	51.2	52.2	53.3	54.2
Italy	42.2	42.6	43.2	43.8	44.3	44.9	45.1	44.9	45.5	45.6	45.6
Netherlands	59.1	60.3	61.5	62.6	62.9	62.2	61.8	61.6	62.5	63.7	64.5
Sweden	57.6	58.3	60.1 50.4	60.5	60.6 50.0	60.2 50.0	59.5	59.9	60.4	61.3	61.1
	50.5	59.0	59.4	59.5	59.6	59.0	60.0	60.0	60.1	60.0	59.9
Unemployed											
United States	6,210	5,880	5,692	6,801	8,378	8,774	8,149	7,591	7,001	7,078	8,924
Canada	1,162	1,072	956	1,026	1,143	1,147	1,093	1,028	958	929	962
Australia	721	652	602	658	630	599	551	531	516	482	4//
Japan	2,790	3,170	3,200	3,400	3,590	3,500	3,130	2,940	2,750	2,570	2,650
France	2,680	2,625	2,262	2,071	2,132	2,299	2,412	2,429	2,432	2,217	2,067
demany	2,634	2,550	2 388	2 164	2,062	2 0/18	4,107	4,575	4,272	3,001	1 602
Netherlands	2,034	2,333	2,000	186	2,002	2,040	387	402	336	278	243
Sweden	368	313	260	227	234	264	300	367	336	298	305
United Kingdom	1 791	1 728	1 587	1 489	1 528	1 488	1 423	1 463	1 670	1 652	1 783
Unemployment rete ³	.,	1,120	1,001	1,100	1,020	1,100	1,120	1,100	.,0.0	1,002	1,100
United States	4 -	4.0	4.0	4 7				F 4	4.0	4.0	F 0
United States	4.5	4.2	4.0	4./	5.8	6.0 6 0	5.5	5.1	4.6	4.6	5.8
Australia	1.1	1.0	0.1 6.3	0.0 6 0	1.0 6 A	0.9	0.4 5 4	0.U	0.5 4 0	0.3 / /	0.3
lanan	л. л.1	17	0.3 1 0	5.1	5.4	5.9	J.4 ∕ 0	5.0 A F	4.0 1 0	4.4	4.2
France	10.6	4.7 10.2	4.0 9.7	7 0	9.4 8.1	0.0 8 A	4.0 Q ()	4.5 Q A	9.2	3.9 g 1	4.0
Germany	0.0 0 3	8.5	0.7 7 R	7.9 7 Q	8.6	0.0 0 3	9.0 10 3	9.0 11 2	9.0 10.4	87	7.5
	11.5	11.0	10.2	9.2	8.7	8.5	8.1	7.8	6.9	6.2	6.8
Netherlands.	4.4	3.5	3.0	2.3	2.8	3.7	4.6	4.8	3.9	3.2	2.8
Sweden	8.4	7.1	5.8	5.0	5.1	5.8	6.6	7.8	7.1	6.2	6,2
United Kingdom	63	60	5.5	5.1	5.2	5.0	4.8	1 9	5.5	5.4	57

 1 Labor force as a percent of the working-age population.
 0.1
 0.2
 0.0
 4.9
 4.9
 5.5
 5.4
 5.7

 1 Labor force as a percent of the working-age population.
 2 Employment as a percent of the working-age population.
 7
 1 International Comparisons of Annual Labor Force Statistics, Adjusted to U.S.
 Concepts, 10 Countries (on the internet at http://www.bls.gov/if/filscompare/if.htm).

 2 Unemployment as a percent of the labor force.
 NOTE: There are breaks in series for the United States (1999, 2000, 2003, 2004), Australia (2001), France (2003), Germany (1999, 2005), the Netherlands (2000, 2003), and Sweden (2005). For further qualifications and historical annual data, see the BLS
 Sweden (2005). For further qualifications and historical annual data, see the BLS
 Sweden (2005). For further qualifications and historical annual data, see the BLS

53. Annual indexes of manufacturing productivity and related measures, 17 economies

[2002 = 100]

[2002 = 100]															
Measure and economy	1980	1990	1994	1995	1996	1997	1998	1999	2000	2001	2003	2004	2005	2006	2007
Output per hour															
United States	41.6	56.9	65.8	68.3	71.0	74.0	79.1	83.1	89.5	90.4	106.4	112.9	115.1	120.5	126.2
Canada	55.2	70.7	82.4	83.3	83.0	86.7	90.9	94.8	100.5	98.4	100.4	101.6	105.0	107.3	110.2
Australia	59.0	74.1	80.0	79.0	81.3	83.0	87.0	88.3	93.6	95.9	101.8	103.1	103.8	104.8	106.8
Japan	47.9	70.9	78.2	83.4	87.2	90.3	91.2	93.6	98.5	96.5	106.8	114.3	121.7	122.9	127.2
Korea, Rep. of	-	34.6	49.4	54.3	59.7	67.3	75.0	83.5	90.6	90.1	106.8	117.8	130.8	146.8	157.9
Singapore	-	51.0	66.9	71.3	74.7	77.1	83.1	91.5	97.7	91.8	103.7	110.0	112.0	114.7	110.3
Taiwan	29.3	53.6	62.8	67.4	72.5	75.5	79.1	84.0	88.3	92.2	102.6	107.1	114.8	122.5	133.5
Belgium	49.9	73.9	82.3	86.0	87.3	92.7	93.9	93.3	96.8	97.0	102.9	108.1	111.0	115.1	120.2
Denmark	66.1	79.3	90.8	90.8	87.8	94.8	94.3	95.8	99.2	99.4	104.2	110.2	113.7	119.0	119.4
France	42.9	63.6	72.4	75.2	75.5	79.9	84.1	87.8	94.0	95.9	104.5	107.3	112.3	114.9	116.3
Germany	54.5	69.8	79.3	80.6	82.9	87.7	88.1	90.2	96.5	99.0	103.6	107.5	113.5	123.1	129.3
Italy	56.8	78.1	89.8	94.2	94.6	96.5	95.2	95.9	100.9	101.2	97.9	99.3	100.8	102.6	103.1
Netherlands	48.0	68.3	79.0	82.1	83.9	84.1	86.6	90.1	96.6	97.1	102.1	109.0	113.9	118.2	121.4
Norway	70.1	87.8	89.2	88.1	90.8	91.0	88.7	91.7	94.6	97.2	108.7	115.1	119.1	116.7	116.4
Spain	57.9	80.0	90.2	93.3	92.2	93.1	94.7	96.4	97.4	99.6	102.5	104.4	106.4	108.5	111.1
Sweden	41.3	50.9	62.7	66.6	68.8	75.1	79.6	86.9	92.8	90.1	108.1	119.7	127.1	139.0	139.7
United Kingdom	46.3	72.8	83.5	82.1	81.4	82.9	83.7	87.8	93.7	97.0	104.2	110.8	115.5	119.8	123.8
Output															
United States	49.6	66.2	75.7	79.1	82.1	87.1	92.9	96.9	103.0	97.3	101.1	106.8	107.7	113.6	116.9
Canada	55.2	68.7	73.1	76.5	77.5	82.3	86.5	93.7	103.2	99.2	99.4	101.4	103.0	102.6	101.6
Australia	70.3	81.5	85.4	84.9	87.6	89.6	92.1	91.9	96.3	95.4	101.7	101.8	101.4	100.5	103.7
Japan	61.9	98.9	97.5	101.7	105.6	108.2	102.5	102.1	107.4	101.6	105.3	111.4	117.2	121.3	125.7
Korea, Rep. of	13.4	41.3	54.9	61.3	65.3	68.4	63.0	76.8	89.8	92.0	105.4	115.9	123.1	133.0	142.5
Singapore	-	51.2	68.5	75.4	77.4	80.8	80.2	90.6	104.4	92.2	102.9	117.2	128.3	143.6	152.2
Taiwan	30.2	60.5	71.1	75.0	78.9	83.5	86.1	92.4	99.2	91.8	105.3	115.6	123.6	132.5	146.3
Belgium	67.5	87.2	87.5	89.9	90.2	94.5	96.1	96.4	100.7	100.8	98.6	102.2	102.0	104.9	107.6
Denmark	77.3	85.5	90.3	94.7	90.3	97.7	98.5	99.4	102.9	103.0	97.2	98.8	99.3	103.4	107.2
France	69.5	81.5	80.9	83.8	83.6	87.5	91.7	94.8	99.1	100.1	101.9	102.8	105.2	104.9	105.7
Germany	81.3	94.5	90.9	90.1	88.2	92.0	93.1	94.0	100.4	102.1	100.7	104.3	107.8	115.6	122.7
Italy	71.1	88.2	91.4	95.7	95.2	96.6	97.5	97.3	101.4	101.1	97.3	98.0	97.8	101.1	103.1
Netherlands	59.3	77.0	82.0	85.1	86.3	87.5	90.5	93.8	100.1	99.9	98.9	102.3	104.3	107.9	111.3
Norway	95.1	91.4	94.1	94.6	98.4	102.7	101.9	101.8	101.3	100.5	103.3	109.2	114.1	117.5	123.6
Spain	58.8	73.7	73.2	76.0	77.9	82.9	87.9	92.9	97.0	100.1	101.2	101.9	103.1	105.0	106.0
Sweden	46.8	56.1	59.7	67.5	69.7	75.1	81.3	89.0	96.3	94.1	104.9	114.5	119.8	129.2	132.2
United Kingdom	78.5	94.9	95.6	97.1	97.9	99.6	100.3	101.3	103.6	102.2	99.7	101.9	101.7	103.4	104.0
Total hours															
United States	119.4	116.5	115.1	115.9	115.7	117.7	117.4	116.6	115.1	107.6	95.1	94.6	93.6	94.3	92.6
Canada	100.0	97.2	88.8	91.8	93.4	94.9	95.2	98.9	102.7	100.8	99.0	99.8	98.1	95.6	92.2
Australia	119.1	110.0	106.7	107.4	107.7	108.0	105.9	104.1	102.9	99.5	99.9	98.7	97.7	95.9	97.1
Japan	129.3	139.6	124.7	122.0	121.0	119.9	112.5	109.1	109.0	105.3	98.6	97.5	96.3	98.6	98.8
Korea, Rep. of	-	119.2	111.1	113.0	109.3	101.7	84.0	92.0	99.1	102.0	98.7	98.3	94.1	90.6	90.2
Singapore	-	100.5	102.4	105.7	103.7	104.8	96.5	99.0	106.8	100.5	99.3	106.5	114.6	125.2	137.9
Taiwan	102.9	113.0	113.3	111.2	108.9	110.6	108.8	110.1	112.4	99.6	102.7	107.9	107.7	108.2	109.6
Belgium	135.3	117.9	106.3	104.5	103.4	101.9	102.3	103.4	104.0	104.0	95.8	94.5	91.9	91.1	89.5
Denmark	117.0	107.8	99.5	104.3	102.9	103.1	104.5	103.7	103.7	103.7	93.3	89.6	87.3	86.9	89.8
France	161.9	128.2	111.8	111.3	110.7	109.4	109.0	108.0	105.4	104.4	97.5	95.8	93.7	91.3	90.8
Germany	149.3	135.3	114.5	111.7	106.4	104.9	105.8	104.2	104.0	103.1	97.3	97.1	95.0	93.9	94.9
Italy	125.1	113.0	101.8	101.6	100.7	100.1	102.5	101.5	100.5	99.9	99.4	98.7	97.0	98.6	100.0
Netherlands	123.6	112.7	103.9	103.7	102.9	104.0	104.5	104.1	103.6	103.0	96.8	93.9	91.6	91.3	91.7
Norway	135.6	104.1	105.5	107.3	108.4	112.8	115.0	111.0	107.1	103.4	95.1	94.9	95.8	100.7	106.2
Spain	101.6	92.1	81.1	81.4	84.5	89.0	92.8	96.4	99.7	100.5	98.8	97.6	96.8	96.8	95.4
Sweden	113.2	110.2	95.1	101.3	101.3	100.1	102.2	102.4	103.8	104.3	97.0	95.7	94.2	93.0	94.6
United Kingdom	169.8	130.4	114.5	118.2	120.3	120.1	119.8	115.4	110.6	105.4	95.7	92.0	88.1	86.3	84.0
Hourly compensation															
(national currency basis)															
United States	38.2	62.1	72.2	73.4	74.6	76.5	81.2	84.8	91.3	94.8	108.0	108.9	112.5	114.7	119.6
Canada	36.3	68.3	79.8	81.7	82.9	84.9	89.3	91.2	94.2	96.8	104.0	107.7	112.4	115.8	119.9
Australia	-	61.7	69.8	74.1	77.5	79.6	82.9	86.2	90.0	95.7	103.9	109.4	116.3	124.2	130.7
Japan	50.4	77.4	89.4	92.4	93.2	96.4	98.8	98.6	98.0	99.3	97.8	98.8	99.6	98.5	98.3
Korea, Rep. of	_	23.7	46.5	56.4	65.7	71.4	77.7	78.2	85.2	89.0	105.5	120.6	139.7	153.9	163.8
Singapore	-	56.2	77.5	81.0	87.0	90.9	96.1	87.9	90.2	97.3	100.6	97.9	96.8	95.0	94.3
Taiwan	20.4	58.6	76.4	82.7	88.2	90.8	94.2	95.9	97.6	103.7	101.0	102.1	105.7	108.9	112.4
Belgium	40.2	69.0	80.9	83.2	84.7	87.9	89.2	90.4	92.0	95.9	103.4	106.2	109.4	113.3	119.3
Denmark	32.6	68.6	77.7	79.3	82.5	85.4	87.6	89.8	91.6	95.9	106.8	110.9	117.2	122.9	126.1
France	28.2	64.2	77.6	79.9	81.4	83.8	84.4	87.1	91.8	94.2	102.3	105.5	109.4	113.7	116.8
Germany	35.8	59.7	77 1	81.2	85.1	86.7	88.0	90.0	94 7	97.6	102.2	102.8	104 1	108.4	110.3
Italy	19.6	61.3	78.0	82.5	87.0	91.1	89.4	91 7	94.1	97.2	103.8	107.4	110.8	113.0	115.5
Netherlands	41 1	61.9	75.0	77.0	78.4	80.5	83.9	86.7	90.9	94.8	104.0	108.4	110.0	113.1	116.7
Norway	24 7	58.5	66.2	69.2	72.1	75.3	79.7	84.2	89.0	94.4	104 1	107.5	112.6	119.5	125.2
Spain	20.7	59.0	83.8	87.4	89.5	91.6	92.3	92.1	93.5	97.2	105.0	108.7	113.9	118.9	124.8

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Measure and economy	1980	1990	1994	1995	1996	1997	1998	1999	2000	2001	2003	2004	2005	2006	2007	2008
Unit labor costs																
(national currency basis)																
United States	92.0	109.3	109.8	107.5	105.2	103.4	102.6	102.0	102.1	104.8	101.5	96.4	97.7	95.1	94.8	96.4
Canada	65.8	96.7	96.8	98.0	100.0	97.9	98.3	96.2	93.7	98.4	103.6	106.1	107.0	108.0	108.9	114.1
Australia	-	83.2	87.2	93.7	95.3	96.0	95.3	97.6	96.2	99.8	102.1	106.0	112.1	118.5	122.3	126.7
Japan	105.4	109.2	114.3	110.8	106.9	106.8	108.3	105.4	99.5	102.9	91.6	86.4	81.8	80.1	77.3	78.8
Korea, Rep. of	37.0	68.5	94.1	104.0	110.0	106.1	103.6	93.7	94.1	98.8	98.8	102.3	106.8	104.8	103.7	104.5
Singapore	-	110.3	115.9	113.6	116.5	117.9	115.7	96.0	92.3	106.0	97.1	88.9	86.5	82.8	85.5	91.9
Taiwan	69.5	109.3	121.6	122.7	121.6	120.4	119.1	114.2	110.5	112.4	98.5	95.3	92.0	88.9	84.2	85.7
Belgium	80.6	93.3	98.2	96.7	97.1	94.8	95.0	97.0	95.1	98.9	100.5	98.2	98.6	98.5	99.3	101.7
Denmark	49.4	86.4	85.6	87.3	94.0	90.0	92.9	93.7	92.3	96.5	102.5	100.6	103.0	103.3	105.6	114.4
France	65.6	101.0	107.1	106.1	107.8	104.8	100.4	99.3	97.6	98.3	97.9	98.3	97.4	98.9	100.4	104.3
Germany	65.7	85.5	97.2	100.8	102.7	98.9	99.9	99.7	98.1	98.6	98.7	95.7	91.7	88.0	85.3	87.5
Italy	34.5	78.6	86.8	87.7	92.0	94.4	94.0	95.6	93.2	96.1	106.0	108.1	110.0	110.2	112.1	119.0
Netherlands	85.6	90.5	95.0	93.8	93.5	95.7	96.9	96.2	94.1	97.7	101.8	99.5	96.6	95.7	96.2	100.7
Norway	35.3	66.6	74.2	78.5	79.4	82.7	89.9	91.8	94.1	97.0	95.8	93.4	94.5	102.4	107.5	112.8
Spain	35.7	73.7	92.8	93.6	97.0	98.4	97.4	95.6	96.0	97.6	102.5	104.1	107.0	109.5	112.3	118.8
Sweden	61.6	117.7	108.4	107.6	112.3	108.4	106.3	100.4	97.6	105.3	96.7	89.7	87.3	82.2	85.6	91.6
United Kingdom	52.9	83.3	84.9	87.9	88.3	90.5	96.4	97.3	96.7	97.6	100.7	98.9	100.4	101.6	101.5	103.7
Unit labor costs																
(U.S. dollar basis)																
United States	92.0	109.3	109.8	107.5	105.2	103.4	102.6	102.0	102.1	104.8	101.5	96.4	97.7	95.1	94.8	96.4
Canada	88.4	130.1	111.3	112.1	115.1	111.1	104.0	101.7	99.1	99.8	116.1	128.0	138.7	149.5	159.3	168.1
Australia	_	119.5	117.3	127.7	137.2	131.3	110.2	115.9	102.9	94.9	122.5	143.6	157.2	164.2	188.8	199.0
Japan	58.2	94.3	140.1	147.7	123.0	110.4	103.6	116.1	115.6	106.0	98.9	100.1	93.0	86.3	82.2	95.5
Korea, Rep. of	76.2	120.5	145.7	168.2	170.9	139.9	92.5	98.4	104.0	95.6	103.6	111.7	130.4	137.3	139.6	119.0
Singapore	- 1	109.0	135.9	143.5	147.9	142.1	123.9	101.5	95.9	105.9	99.7	94.2	93.1	93.4	101.6	116.4
Taiwan	66.6	140.3	158.7	159.9	152.9	144.5	122.6	122.1	122.1	114.8	98.9	98.6	98.9	94.4	88.5	93.9
Belgium	117.6	119.2	125.4	140.1	133.8	112.9	111.6	109.3	92.8	93.7	120.3	129.2	129.8	130.8	144.0	158.4
Denmark	69.1	110.1	106.2	123.0	127.8	107.4	109.3	105.8	89.9	91.4	122.9	132.5	135.5	137.1	153.1	177.3
France	107.8	128.7	134.1	147.7	146.2	124.5	118.0	111.9	95.3	93.1	117.2	129.4	128.3	131.5	145.6	162.4
Germany	74.7	109.4	124.0	145.6	141.2	117.9	117.4	112.4	95.8	93.3	118.2	125.9	120.8	117.0	123.7	136.3
Italy	82.6	134.3	110.4	110.2	122.1	113.5	110.8	107.7	91.0	91.0	126.9	142.2	144.8	146.5	162.5	185.4
Netherlands	100.4	115.9	121.7	136.3	129.3	114.2	113.8	108.4	91.9	92.5	121.9	130.8	127.2	127.2	139.5	156.8
Norway	57.0	85.0	83.9	98.9	98.1	93.2	95.0	93.9	85.2	86.1	108.0	110.6	117.2	127.6	146.6	159.8
Spain	87.6	127.3	122.1	132.2	134.8	118.1	114.8	107.7	93.8	92.4	122.7	136.9	140.9	145.6	162.9	185.1
Sweden	141.5	193.1	136.7	146.5	162.8	137.9	130.0	117.9	103.5	99.0	116.3	118.7	113.7	108.4	123.3	135.2
United Kingdom	81.9	98.9	86.5	92.3	91.8	98.6	106.4	104.7	97.6	93.5	109.5	120.6	121.6	124.6	135.2	128.0

53. Continued— Annual indexes of manufacturing productivity and related measures, 17 economies

NOTE: Data for Germany for years before 1993 are for the former West Germany. Data for 1993 onward are for unified Germany. Dash indicates data not available.

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

	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	3.0	2.8
Lost workdays	. /8./	84.0	6.06	93.8	-	_	_	_	_	_	_	_	-
Agriculture, forestry, and fishing Total cases	10.9	11.6	10.8	11.6	11.2	10.0	97	87	84	79	7.3	7 1	73
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													
Lost workday cases	. 8.5 . 4.8	8.3 5.0	7.4 4.5	7.3 4.1	6.8 3.9	6.3 3.9	6.2 3.9	5.4	5.9	4.9	4.4	4.7	4.0 2.4
Lost workdays	137.2	119.5	129.6	204.7	-	-	-	-	-	-	-	-	-
Construction													
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 1/7 9	6.1 1/8 1	5.8	5.5	5.5	4.9	4.5	4.4	4.0	4.2	4.1	4.0
General building contractors:	. 140.0	147.3	140.1	101.5									
Total cases	. 13.9	13.4	12.0	12.2	11.5	10.9	9.8	9.0	8.5	8.4	8.0	7.8	6.9
Lost workday cases	. 6.5	6.4 137.6	5.5 132.0	5.4 142.7	5.1	5.1	4.4	4.0	3.7	3.9	3.7	3.9	3.5
Heavy construction except building:	. 107.0	107.0	152.0	142.7									_
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	. 6.5	6.3	6.0	5.4	5.1	5.0	4.8	4.3	4.3	4.1	3.8	3.7	4.0
Lost workdays	. 147.1	144.6	160.1	165.8	-	_	_	_	_	_	_	_	-
Total cases	. 14.6	14.7	13.5	13.8	12.8	12.5	11.1	10.4	10.0	9.1	8.9	8.6	8.2
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	-	-	-	-	-	-	-	-	-
Manutacturing Total cases	13.1	13.2	12 7	12.5	12.1	12.2	11.6	10.6	10.3	97	9.2	9.0	8 1
Lost workday cases	. 5.8	5.8	5.6	5.4	5.3	5.5	5.3	4.9	4.8	4.7	4.6	4.5	4.1
Lost workdays	. 113.0	120.7	121.5	124.6	-	-	-	-	-	-	-	-	-
Durable goods:													
Total cases	. 14.1	14.2	13.6	13.4	13.1	13.5	12.8	11.6	11.3	10.7	10.1	-	8.8
Lost workday cases	. 6.0	6.0	5.7	5.5	5.4	5.7	5.6	5.1	5.1	5.0	4.8	-	4.3
Lumber and wood products:	. 110.5	123.3	122.9	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	. 9.4	8.8	8.3	7.6	7.6	7.7	7.0	6.8	6.5	6.8	6.7	6.1	5.5
Lost workdays	. 177.5	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	11.5	11.2	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:	15.5	15.4	1/ 9	12.6	12.0	12.0	10.0	12.4	11.0	11.0	10.7	10.4	10.1
Lost workday cases	. 7.4	7.3	6.8	6.1	6.3	6.5	5.7	6.0	5.7	6.0	5.4	5.5	5.1
Lost workdays	. 149.8	160.5	156.0	152.2	-	-	-	-	-	-	-	-	-
Primary metal industries: Total cases	18 7	19.0	17 7	17 5	17.0	16.8	16.5	15.0	15.0	14.0	12.9	12.6	10.7
Lost workday cases	. 8.1	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:	19.5	197	17.4	16.9	16.0	16.4	15.9	14.4	14.2	12.0	12.6	11.0	11 1
Lost workday cases	. 7.9	7.9	7.1	6.6	6.7	6.7	6.9	6.2	6.4	6.5	6.0	5.5	5.3
Lost workdays	. 147.6	155.7	146.6	144.0	-	-	-	-	-	-	-	-	-
Industrial machinery and equipment:													
Total cases	12.1	12.0	11.2	11.1	11.1	11.6	11.2	9.9	10.0	9.5	8.5	8.2	11.0
Lost workdays	. 4.0	4.7 88.9	4.4 86.6	4.2 87.7	4.2	4.4	4.4	4.0	4.1	4.0	- 3.7	3.0	6.0
Electronic and other electrical equipment:													
Total cases	9.1	9.1	8.6	8.4	8.3	8.3	7.6	6.8	6.6	5.9	5.7	5.7	5.0
Lost workday cases	. 3.9	3.8	3.7	3.6	3.5	3.6	3.3	3.1	3.1	2.8	2.8	2.9	2.5
Transportation equipment:		19.4	03.0	01.2	-	-					_		_
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	. 6.8	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	-	-	-	-	-	-	-	-	-
Total cases	5.6	5.9	6.0	5.9	5.6	5.9	5.3	5.1	4.8	4.0	4.0	4.5	4.0
Lost workday cases	2.5	2.7	2.7	2.7	2.5	2.7	2.4	2.3	2.3	1.9	1.8	2.2	2.0
Lost workdays	. 55.4	57.8	64.4	65.3	-	-	-	-	-	-	-	-	-
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	5.1	5.0	4.6	4.5	4.3	4.4	4.2	3.9	4.0	3.6	3.2
Lost workdays	. 97.6	113.1	104.0	108.2	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Industry and type of case ²		Incidence rates per 100 workers °											
		1990	1991	1992	1993 ⁴	1994 ⁴	1995 ⁴	1996 ⁴	1997 ⁴	1998 ⁴	1999 ⁴	2000 ⁴	2001 ⁴
Nondurable goods:													
Total cases	11.6	11.7	11.5	11.3	10.7	10.5	9.9	9.2	8.8	8.2	7.8	7.8	6.8
Lost workday cases	5.5	5.6	5.5	5.3	5.0	5.1	4.9	4.6	4.4	4.3	4.2	4.2	3.8
Lost workdays	107.8	116.9	119.7	121.8	-	-	-	-	-	-	-	_	ı –
Food and kindred products:													1
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

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

Nondurable goods:													
Total cases	11.6	11.7	11.5	11.3	10.7	10.5	9,9	9.2	8.8	8.2	7.8	7.8	6.8
Lost workday cases.	5.5	5.6	5.5	5.3	5.0	5.1	4.9	4.6	4.4	4.3	4.2	4.2	3.8
Lost workdays	107.8	116.9	119.7	121.8	_	-	_	_	-	-	-	-	_
Food and kindred products:													
Total cases	18.5	20.0	19.5	18.8	17.6	17.1	16.3	15.0	14.5	13.6	12.7	12.4	10.9
Lost workday cases	9.3	9.9	9.9	9.5	8.9	9.2	8.7	8.0	8.0	7.5	7.3	7.3	6.3
Lost workdays	174.7	202.6	207.2	211.9	-	-	-	-	-	-	-	-	-
Tobacco products:	0.7				5.0	5.0	5.0	0.7	5.0				0.7
l otal cases	8.7	1.1	6.4	6.0	5.8	5.3	5.6	6.7	5.9	6.4	5.5	6.2	6.7
Lost workdays	64 2	62.3	2.0 52.0	2.4 42 9	2.3	2.4	2.0	2.0	2.1	3.4	2.2	3.1	4.2
Toxtilo mill producto:	04.2	02.0	02.0	42.0									
Total cases	10.3	9.6	10.1	9.9	9.7	8.7	8.2	7.8	6.7	7.4	6.4	6.0	5.2
Lost workday cases	4.2	4.0	4.4	4.2	4.1	4.0	4.1	3.6	3.1	3.4	3.2	3.2	2.7
Lost workdays	81.4	85.1	88.3	87.1	-	-	-	-	-	-	-	-	-
Apparel and other textile products:								/					
l otal 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 workdays	80.5	92.1	99.9	104.6	5.0	- 3.5	3.0	- 3.5	5.1	2.0	2.0	3.0	2.4
Paper and allied products:	00.0	02.1	00.0	10 1.0									
Total cases	12.7	12.1	11.2	11.0	9.9	9.6	8.5	7.9	7.3	7.1	7.0	6.5	6.0
Lost workday cases	5.8	5.5	5.0	5.0	4.6	4.5	4.2	3.8	3.7	3.7	3.7	3.4	3.2
Lost workdays	132.9	124.8	122.7	125.9	-	-	-	-	-	-	-	-	-
Printing and publishing:	<u> </u>	<u> </u>	0.7	7.0	<u> </u>	0.7	6.4		F 7	F 4	5.0	5.4	4.0
l ost workday cases	0.9	0.9	0.7	7.3	0.9 3.1	0.7 3.0	0.4 3.0	0.0 2.8	5.7	5.4 2.8	5.0	5.1 2.6	4.0
Lost workdays	63.8	69.8	74.5	74.8		- 0.0	- 0.0	- 2.0		- 2.0	- 2.0	- 2.0	- 2.4
Chemicals and allied products:													
Total cases	7.0	6.5	6.4	6.0	5.9	5.7	5.5	4.8	4.8	4.2	4.4	4.2	4.0
Lost workday cases	3.2	3.1	3.1	2.8	2.7	2.8	2.7	2.4	2.3	2.1	2.3	2.2	2.1
Lost workdays	63.4	61.6	62.4	64.2	-	-	-	-	-	-	-	_	-
Petroleum and coal products: Total cases	6.6	6.6	62	59	52	47	4.8	4.6	4.3	3.9	4 1	37	29
Lost workday cases	3.3	3.1	2.9	2.8	2.5	2.3	2.4	2.5	2.2	1.8	1.8	1.9	1.4
Lost workdays	68.1	77.3	68.2	71.2	_	_	-	_	-	_	_	_	-
Rubber and miscellaneous plastics products:													
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	147.0	151.0	150.0	152.2	6.5	6.7	6.5	6.3	5.8	5.8	5.5	5.8	4.8
Lost workuays	147.2	151.5	150.9	100.0	_	-	_	_	-	_	_	_	_
Total cases	13.6	12.1	12.5	12.1	12.1	12.0	11.4	10.7	10.6	9.8	10.3	9.0	8.7
Lost workday cases	6.5	5.9	5.9	5.4	5.5	5.3	4.8	4.5	4.3	4.5	5.0	4.3	4.4
Lost workdays	130.4	152.3	140.8	128.5	-	-	-	-	-	-	-	-	-
Transportation and public utilities													
Total cases	9.2	9.6	9.3	9.1	9.5	9.3	9.1	8.7	8.2	7.3	7.3	6.9	6.9
Lost workday cases	5.3	5.5	5.4	5.1	5.4	5.5	5.2	5.1	4.8	4.3	4.4	4.3	4.3
Lost workdays	121.5	134.1	140.0	144.0	-	-	-	-	-	-	-	-	-
Wholesale and retail trade						= 0							
l otal cases	8.0	7.9	7.6	8.4	8.1	7.9	7.5	6.8 2.0	6.7	6.5 2.9	6.1 2.7	5.9	0.0 2.5
Lost workdays	63.5	65.6	72.0	80.1	- 0.4	- 0.4	- 0.2	2.5	5.0	2.0	2.7	2.7	2.5
Wholesale trade:													
Total cases	7.7	7.4	7.2	7.6	7.8	7.7	7.5	6.6	6.5	6.5	6.3	5.8	5.3
Lost workday cases	4.0	3.7	3.7	3.6	3.7	3.8	3.6	3.4	3.2	3.3	3.3	3.1	2.8
Lost workdays	/1.9	/1.5	79.2	82.4	-	-	-	-	-	_	-	_	-
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	3.4	3.3	3.4	3.3	3.3	3.0	2.8	2.9	2.7	2.5	2.5	2.4
Lost workdays	60.0	63.2	69.1	79.2	-	-	-	-	-	-	-	-	-
Finance, insurance, and real estate													
Total cases	2.0	2.4	2.4	2.9	2.9	2.7	2.6	2.4	2.2	.7	1.8	1.9	1.8
Lost workday cases	.9	1.1	1.1	1.2	1.2	1.1	1.0	.9	.9	.5	.8	.8	.7
LUSI WURKUAYS	17.6	27.3	24.1	32.9	-	_		-	-	-	-	_	-
Services	<i></i>	6.0	6.0	74	67	6.5	6.4	6.0	E 0	E 0	4.0	4.0	4.0
l ost workday cases	5.5 2 7	0.0 2.8	0.2 2.9	7.1 3.0	0.7 2 R	0.5 2.9	0.4 2.9	0.0	5.6 2.5	5.2 2.4	4.9	4.9	4.b 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		2

¹ Data for 1989 and subsequent years are based on the Standard Industrial Classification Manual, 1987 Edition. For this reason, they are not strictly comparable with data for the years 1985-88, which were based on the Standard Industrial Classification Manual, 1972 Edition, 1977 Supplement.

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).

² Beginning with the 1992 survey, the annual survey measures only nonfatal injuries and 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 illnesses, while past surveys covered both fatal and nonfatal incidents. To better address by industry and for groups of workers sustaining similar work disabilities. fatalities, a basic element of workplace safety, BLS implemented the Census of Fatal

⁵ Excludes farms with fewer than 11 employees since 1976.

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:

Occupational Injuries.

NOTE: Dash indicates data not available.

55.	Fatal	occupational	l injuries b	y event or e	exposure,	1996-2005

1	1996-2000	2001-2005	2005 ³			
Event or exposure '	(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				-		
roadway	129	136	140	2		
Worker struck by vehicle mobile equipment in	120	100	110	-		
narking lot or non-road area	171	166	176	3		
Water vehicle	105	82	88	2		
Aircraft	263	206	1/0	3		
	203	200	145	5		
Assaults and violent acts	1 015	850	792	14		
Homicidos	766	602	567	10		
Shooting	617	465	441	10		
Should a solf inflicted injury	216	403	441	2		
Suicide, sell-inflicted injury	210	207	100	3		
Contact with objects and equipment	1 005	052	1 005	18		
Struck by object	567	560	607	11		
Struck by folling object	364	345	395	7		
Struck by falling object	304	545	305	· ·		
	77	00	04	2		
Cought in or compressed by equipment or objects	202	09	94	2		
Caught in or compressed by equipment or objects	293	200	270	2		
Caught in or crushed in collegeing materials	107	110	121	2		
Caught in or crushed in collapsing materials	120	110	109	2		
Falls	714	763	770	12		
Fall to lower level	626	660	664	12		
Fall from laddor	106	125	120	2		
Fall from roof	100	120	129	2		
	100	104	100	3		
Fail to lower level, n.e.c.	117	123	117	2		
Exposure to harmful substances or environments	535	498	501	q		
Contact with electric current	290	265	251	4		
Contact with overhead power lines	132	118	112	2		
Exposure to caustic novious or allergenic substances	112	114	136	2		
Oxygen deficiency	02	74	50	1		
Crygen dendency	52	'+	53	'		
Fires and explosions	196	174	159	3		
Firesunintended or uncontrolled	103	95	93	2		
Explosion	92	78	65	1		

 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 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.