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NATIONAL ACADEMY OF·SOCIAL INSURANCE

The National Academy of Social Insurance is a nonprofit, nonpartisan organization made up of the nation's leading experts on social insurance. Its mission is to promote understanding of how social insurance contributes to economic security and a vibrant economy. Social insurance encompasses broad-based systems for insuring workers and their families against economic insecurity caused by loss of income from work and the cost of health care. NASI's scope covers social insurance such as Social Security; Medicare; workers' compensation; and unemployment insurance, related public assistance, and private employee benefits. The Academy convenes study panels that are charged with conducting research, issuing findings, and, in some cases, reaching recommendations based on their analysis. Members of these groups are selected for their recognized expertise and with due consideration for the balance of disciplines and perspectives appropriate to the project. This research report presents new data and does not make recommendations. It was prepared with the guidance of the Study Panel on National Data on Workers' Compensation. In accordance with procedures of the Academy, it has been reviewed by a committee of the Board for completeness, accuracy, clarity, and objectivity. This project received financial support from the Social Security Administration, the Centers for Medicare & Medicaid Services, and the Office of Workers' Compensation Programs of the U.S. Department of Labor. It also received in-kind support in data from the National Council of Compensation Insurance and the National Association of Insurance Commissioners.

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Workers' Compensation:

Benefits, Coverage, and Costs, **2008**

by

Ishita Sengupta, Virginia Reno, and John F. Burton, Jr.

with advice of the

Study Panel on National Data on Workers' Compensation

September 2010

NATIONAL ACADEMY OF·SOCIAL INSURANCE Washington, DC

Preface

This is the thirteenth report the Academy has issued on workers' compensation national data. Before the National Academy of Social Insurance began the publication, the U.S. Social Security Administration (SSA) produced the only comprehensive national data on workers' compensation benefits and costs with annual estimates dating back to 1946. SSA discontinued the series in 1995 after publishing data for 1992-93. In February 1997, the Academy received start-up funding from The Robert Wood Johnson Foundation to launch a research initiative in workers' compensation with its first task to develop methods to continue the national data series. In December 1997, it published a report that extended the data series through 1995. Today funding for the project comes from the Social Security Administration, the Centers for Medicare & Medicaid Services, and the U.S. Department of Labor. In addition, the National Council on Compensation Insurance and the National Association of Insurance Commissioners provide access to important data for the project. Without support from these sources, continuing this vital data series would not be possible. This is the sixth edition of the report co-authored by Ishita Sengupta, Virginia Reno, and me. Ishita warrants her name being listed first in recognition of the amounts of time and energy she devoted to the publication.

This report also benefited from the expertise of members of the Study Panel on National Data on Workers' Compensation, who gave generously of their time and knowledge in advising on data sources and presentation, interpreting results, and reviewing the draft report. The panel is listed on page ii. We would like to especially acknowledge Barry Llewellyn, with the National Council on Compensation Insurance; Eric Nordman, National Association of Insurance Commissioners; Greg Krohm, International Association of Industrial Accident Boards and Commissions; Les Boden, Boston University; and Frank Neuhauser, University of California, Berkeley, all of whom provided the Academy with data and their considerable expertise on many data issues. We are also grateful for the useful comments provided by Allan Hunt, W.E. Upjohn Institute; Mike Manley, Oregon Department of Consumer and Business Services; Doug Holmes, UWC; William Wiatrowski, BLS; and Shelby Hallmark, OWCP, DOL. This report also benefited from helpful comments during Board review by Bob Aurbach, Lachlan Taylor and Ed Welch.

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Highlights

This report provides a benchmark of the coverage, benefits, and costs of workers' compensation to facilitate policymaking and comparisons with other social insurance and employee benefit programs. Workers' compensation pays for medical care, rehabilitation, and cash benefits for workers who are injured on the job or who contract work-related illnesses. It also pays benefits to families of workers who die of work-related causes. Each state has its own workers' compensation program.

Need for this Report

The lack of uniform reporting of states' experiences with workers' compensation makes it necessary to piece together data from various sources to develop estimates of benefits paid, costs to employers, and the number of workers covered by workers' compensation. Unlike other U.S. social insurance programs, state workers' compensation programs have no federal involvement in financing or administration. And, unlike private pensions or employer-sponsored health benefits that receive favorable federal tax treatment, no federal laws set standards for "taxqualified" plans or require comprehensive reporting of workers' compensation coverage and benefits.¹ The general lack of federally-mandated data means that states vary greatly in the data they have available to assess the performance of workers' compensation programs.

For more than forty years, the research office of the U.S. Social Security Administration produced national and state estimates of workers' compensation benefits, but that activity ended in 1995. In response to requests from stakeholders and scholars in the workers' compensation field, the National Academy of Social Insurance took on the challenge of continuing that data series. This is the Academy's thirteenth annual report on workers' compensation benefits, coverage, and costs. This report presents new data on developments in workers' compensation in 2008 and updates estimates of benefits, costs, and coverage for the years 2004–2007. The revised estimates in this report replace estimates in the Academy's prior reports.

Target Audience

The audience for the Academy's reports on workers' compensation includes journalists, business and labor leaders, insurers, employee benefit specialists, federal and state policymakers, and researchers in universities, government, and private consulting firms. The data are published in the Statistical Abstract of the United States by the U.S. Census Bureau, Injury Facts by the National Safety Council, Employee Benefit News, which tracks developments for human resource professionals, and Fundamentals of Employee Benefit Programs from the Employee Benefit Research Institute. The U.S. Social Security Administration publishes the data in its Annual Statistical Supplement to the Social Security Bulletin. The federal Centers for Medicare & Medicaid Services use the data in their estimates and projections of health care spending in the United States. The National Institute for Occupational Safety and Health uses the data to track the cost of workplace injuries in the United States. In addition, the International Association of Industrial Accident Boards and Commissions (the organization of state and provincial agencies that administer workers' compensation in the United States and Canada) uses the information to track and compare the performance of workers' compensation programs in the United States with similar systems in Canada.

The report is produced with the oversight of the members of the Academy's Study Panel on National Data on Workers' Compensation, who are listed in the front of this report. The Academy and its expert advisors are continually seeking ways to improve the report and to adapt estimation methods to track new developments in the insurance industry and in workers' compensation programs.

Workers' Compensation and Other Disability Benefits

Workers' compensation is an important part of American social insurance. As a source of support for disabled workers, it is surpassed in size only by Social Security Disability Insurance and Medicare. Workers' compensation programs in the fifty states, the District of Columbia, and federal programs paid

¹ A new reporting requirement enacted in 2007, Section 111 of S 2499 (now Public Law No. 110-173), requires workers' compensation claims administrators to report to the CMS (Centers for Medicare and Medicaid Services) information about workers' compensation recipients who are entitled to Medicare.

Table 1
Workers' Compensation Benefits*, Coverage, and Costs**, 2007–2008, Summary

| Aggregate Amounts | 2007 | 2008 | Change In Percent |
|--|----------|---------|----------------------|
| United S | tates | | |
| Covered workers (in thousands) | 131,734 | 130,643 | -0.8 |
| Covered wages (in billions) | \$5,855 | \$5,953 | 1.7 |
| Workers' compensation benefits paid (in billions) | 55.2 | 57.6 | 4.4 |
| Medical benefits | 26.7 | 29.1 | 8.8 |
| Cash benefits | 28.5 | 28.6 | 0.3 |
| Employer costs for workers' compensation (in billions) | 84.6 | 78.9 | -6.7 |
| Californ | nia | | |
| Covered workers (in thousands) | 15,395 | 15,248 | -1.0 |
| Covered wages (in billions) | \$775 | \$782 | 0.9 |
| Workers' compensation benefits paid (in billions) | 9.5 | 9.4 | -0.9 |
| Medical benefits | 4.9 | 5.1 | 5.5 |
| Cash benefits | 4.6 | 4.3 | -7.5 |
| Employer costs for workers' compensation (in billions) | 14.2 | 12.4 | -12.1 |
| Outside Ca | lifornia | | |
| Covered workers (in thousands) | 116,339 | 115,395 | -0.8 |
| Covered wages (in billions) | \$5,081 | \$5,171 | 1.8 |
| Workers' compensation benefits paid (in billions) | 45.7 | 48.2 | 5.5 |
| Medical benefits | 21.9 | 23.9 | 9.5 |
| Cash benefits | 23.9 | 24.3 | 1.8 |
| Employer costs for workers' compensation (in billions) | 70.4 | 66.4 | -5.7 |
| Amount per \$100 of Covered Wages | | | Change In |
| United S | tates | | |
| | | Φ0.07 | do 02 |
| Benefits paid | \$0.94 | \$0.97 | \$0.03 |
| Medical payments | 0.47 | 0.50 | 0.03 |
| Cash payments to workers | 0.49 | 0.48 | -0.01 |
| Employer costs | 1.44 | 1.33 | -0.11 |
| Californ | nia | | |
| Benefits paid | \$1.23 | \$1.21 | -\$0.02 |
| Medical payments | 0.63 | 0.66 | 0.03 |
| Cash payments to workers | 0.60 | 0.55 | -0.05 |
| Employer costs | 1.83 | 1.59 | -0.24 |
| Outside Ca | lifornia | | |
| Benefits paid | \$0.90 | \$0.93 | \$0.03 |
| Medical payments | 0.43 | 0.46 | 0.03 |
| wicdical payments | 0.47 | 0.47 | 0.00 |
| Cash payments to workers | 0.1/ | | |

Table 1 continued

- * Benefits are payments in the calendar year to injured workers and to providers of their medical care.
- ** Costs are employer expenditures in the calendar year for workers' compensation benefits, administrative costs, and/or insurance premiums. Costs for self-insuring employers are benefits paid in the calendar year plus the administrative costs associated with providing those benefits. Costs for employers who purchase insurance include the insurance premiums paid during the calendar year plus the payments of benefits under large deductible plans during the year. The insurance premiums must pay for all of the compensable consequences of the injuries that occur during the year, including the benefits paid in the current as well as future years.

Source: National Academy of Social Insurance estimates based on Tables 2, 8, 9, 11, 12 and D1.

\$57.6 billion in benefits in 2008. Of the total, \$29.1 billion paid for medical care and \$28.6 billion paid for cash benefits (Table 1).

Workers' compensation differs from Social Security disability insurance and Medicare in important ways. Workers' compensation pays for medical care for work-related injuries beginning immediately after the injury occurs; it pays temporary disability benefits after a waiting period of three to seven days; it pays permanent partial and permanent total disability benefits to workers who have lasting consequences of disabilities caused on the job; in most states it pays rehabilitation and training benefits for those unable to return to pre-injury careers; and it pays benefits to survivors of workers who die of work-related causes. Social Security, in contrast, pay benefits to workers with long-term disabilities of any cause, but only when the disabilities preclude substantial paid employment. It also encourages return to work and still pays benefits even if there is some self-employment and "transitional work". Social Security also pays for rehabilitation services and survivor benefits to families of deceased workers. Social Security Disability Insurance benefits begin after a five-month waiting period and Medicare begins twenty-nine months after the onset of medically verified inability to work. In 2008, Social Security paid \$106.0 billion in cash benefits to disabled workers and their dependents, while Medicare paid \$63.6 billion for health care for disabled persons under age 65 (SSA, 2009d and CMS, 2009).

Paid sick leave, temporary disability benefits, and long-term disability insurance for non-work-related injuries or diseases are also available to some workers. About 39 percent of all private sector employees are

not provided any paid sick leave (U.S. DOL, 2009a). Sick leave typically pays 100 percent of wages for a few weeks. Private long-term disability insurance that is financed, at least in part, by employers covers about 30 percent of private sector employees and is usually paid after a waiting period of three to six months, or after short-term disability benefits end. Long-term disability insurance is generally designed to replace 60 percent of earnings and is reduced if the worker receives workers' compensation or Social Security disability benefits.

Trends in Workers' Compensation Benefits and Costs – Big Increases in Medical Payments

Total cash benefits to injured workers and medical payments for their health care were \$57.6 billion in 2008, a 4.4 percent increase from \$55.2 billion in 2007. Medical payments increased by 8.8 percent to \$29.1 billion, and cash benefits to injured workers slightly increased, to \$28.6 billion, from the prior year (Table 1). This is the largest percentage increase in medical payments since 2001. Costs to employers fell by a substantial 6.7 percent in 2008 to \$78.9 billion. This is the biggest percentage decline in employer costs since 1987 when the data series in Table 11 began. Costs for self-insured employers are the benefits they pay plus an estimate of their administrative costs. For employers who buy insurance, costs are the premiums they pay in the year plus benefits they pay under deductible arrangements in their insurance policies. From an insurance company's perspective, premiums received in a year are not expected to match up with benefits paid that year. Rather, the premiums are expected to cover all future liabilities for injuries that occur in the year. NASI measures of benefits and employer costs are

designed to reflect the aggregate experience of two stakeholder groups – workers who rely on compensation for workplace injuries and employers who pay the bills. The NASI measures are not designed to assess the performance of the insurance industry or insurance markets. Other organizations analyze insurance trends.²

For long-term trends, it is useful to consider workers' compensation benefits and employer costs relative to aggregate wages of covered workers. In a steady state, one might expect benefits to keep pace with covered wages. This would be the case with no change in the frequency or severity of injuries and if wage replacement benefits for workers and medical payments to providers tracked the growth of wages in the econo-

my generally. However, in reality, benefits and costs relative to wages vary significantly over the years.

In 2008, aggregate wages of covered workers rose by 1.7 percent (Table 2). When measured relative to the wages of covered workers, workers' compensation benefits for workers rose whereas employer costs fell in 2008 (Table 1). Total payments on workers' behalf rose by three cents to \$0.97 per \$100 of covered wages: medical payments rose from \$0.47 per \$100 of wages in 2007 to \$0.50 in 2008, while cash benefits fell by one cent per \$100 of wages to \$0.48. The cost to employers fell by 11 cents per \$100 of covered wages, to \$1.33 in 2008 from \$1.44 in 2007.

Figure 1 shows the trends in employer costs and in cash and medical benefits combined as a share of

Table 2

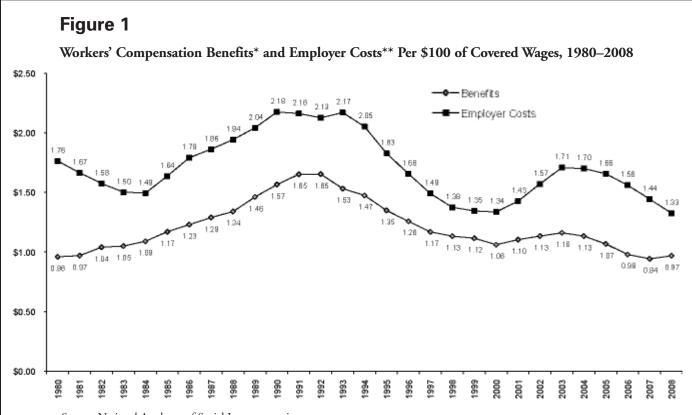
Number of Workers Covered under Workers' Compensation Programs and Total Covered Wages, 1989–2008

| | Total V | Vorkers | Total | Wages |
|------|----------------|----------------|---------------|----------------|
| Year | (in thousands) | Percent Change | (in billions) | Percent Change |
| 1989 | 103,900 | | \$ 2,347 | |
| 1990 | 105,500 | 1.5 | 2,442 | 4.0 |
| 1991 | 103,700 | -1.7 | 2,553 | 4.5 |
| 1992 | 104,300 | 0.6 | 2,700 | 5.7 |
| 1993 | 106,200 | 1.8 | 2,802 | 3.8 |
| 1994 | 109,400 | 3.0 | 2,949 | 5.2 |
| 1995 | 112,800 | 3.1 | 3,123 | 5.9 |
| 1996 | 114,773 | 1.7 | 3,337 | 6.9 |
| 1997 | 118,145 | 2.9 | 3,591 | 7.6 |
| 1998 | 121,485 | 2.8 | 3,885 | 8.2 |
| 1999 | 124,349 | 2.4 | 4,151 | 6.8 |
| 2000 | 127,141 | 2.2 | 4,495 | 8.3 |
| 2001 | 126,972 | -0.1 | 4,604 | 2.4 |
| 2002 | 125,603 | -1.1 | 4,615 | 0.2 |
| 2003 | 124,685 | -0.7 | 4,717 | 2.2 |
| 2004 | 125,878 | 1.0 | 4,953 | 5.0 |
| 2005 | 128,158 | 1.8 | 5,212 | 5.2 |
| 2006 | 130,339 | 1.7 | 5,543 | 6.3 |
| 2007 | 131,734 | 1.1 | 5,855 | 5.6 |
| 2008 | 130,643 | -0.8 | 5,953 | 1.7 |

Source: National Academy of Social Insurance estimates. See Appendix A.

² The National Council on Compensation Insurance (NCCI) and state rating bureaus, for example, assess insurance developments in the states and advise regulators and insurers on proposed system changes.

⁴ NATIONAL ACADEMY OF SOCIAL INSURANCE



Source: National Academy of Social Insurance estimates.

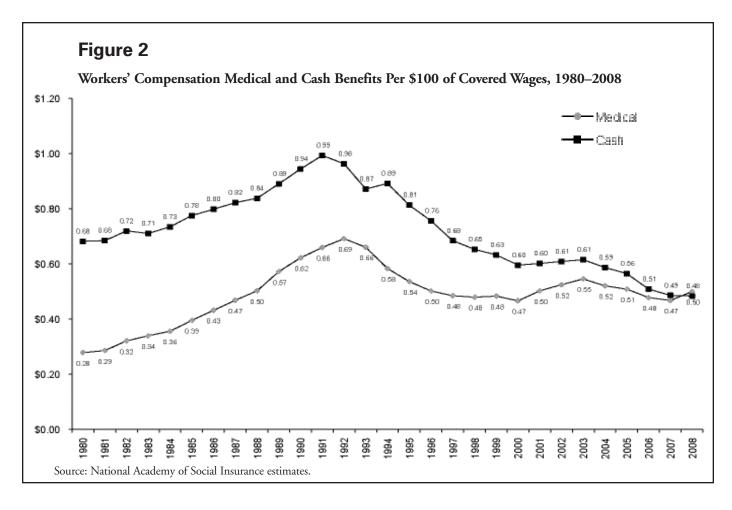
- Benefits are payments in the calendar year to injured workers and to providers of their medical care.
- ** Costs are employer expenditures in the calendar year for workers' compensation benefits, administrative costs, and/or insurance premiums. Costs for self-insuring employers are benefits paid in the calendar year plus the administrative costs associated with providing those benefits. Costs for employers who purchase insurance include the insurance premiums paid during the calendar year plus the payments of benefits under large deductible plans during the year. The insurance premiums must pay for all of the compensable consequences of the injuries that occur during the year, including the benefits paid in the current as well as future years.

covered wages over the past 29 years. Benefits and costs declined sharply from their peaks in the early 1990s, reached a low in 2000, rebounded somewhat after 2000, and then declined in the last few years. As a share of covered wages, employers' costs in 2008 were lower than in any year since 1980. As a share of covered wages, benefits in 2008 were slightly higher than they were in 2007 at \$0.97 per \$100 of wages in 2008 (discussed in detail later in the report). As a percent of covered wages, paid benefits in 2007 and 2008 were lower than in any year since 1982.

Figure 2 shows the trend in medical and cash payments separately. In 2008, cash benefits at \$0.48 per \$100 of wages were at their lowest point since 1980 when the data in Figure 2 begin. However medical benefits, which were \$0.50 per \$100 of wages in 2008, were much higher than at their lowest point since 1980, which was \$0.28 per \$100 of wages in 1980.

National Trends With and Without California

California's workers' compensation program has changed significantly over the past few years. Because it is a big state (with 13.1 percent of national payroll and 16.3 percent of total benefits in 2008), California's large shifts in benefits and employer costs have altered the course of national trends. For this reason, it is useful to examine national trends outside of California. Unprecedented growth in California workers' compensation costs in 2001-2003 led to major reforms in 2003 and 2004. The comprehensive changes sought to limit spending by introducing evidence based medical treatment guidelines, creating medical provider networks, setting time limits on temporary disability benefits, establishing a new rating schedule for permanent disability, and setting transparent fee schedules for outpatient surgery centers, hospitals, and pharmaceuticals. An Academy brief, Workers' Compensation in California and the



Nation: Benefit and Employer Cost Trends, 1989-2005, tracks the California changes through 2005 (Sengupta, Reno, Baker, and Taylor, 2008).

Table 1 shows the 2008 changes in California and in the rest of the nation outside California. California's cash benefit payments dropped 7.5 percent in 2008. California medical benefit payments increased in 2008 by 5.5 percent. Costs to California employers fell 12.1 percent in 2008, which continued a trend of decreasing employer costs in California over the past five years. When California is excluded, total benefit payments in the rest of the nation increased by 5.5 percent (in contrast with a 4.4 percent increase when California is included). Employer costs outside California decreased by 5.7 percent (in contrast with a drop of 6.7 percent when California is included).

When changes in California are shown per \$100 of wages of covered workers, medical payments rose by three cents to \$0.66 per \$100 of wages and cash payments per \$100 of covered wages fell by five cents to \$0.55. Outside California medical benefits rose by

three cents to \$0.46, cash benefits remained unchanged at \$0.47 per \$100 of wages, and employer costs fell by 11 cents to \$1.28 per \$100 of covered wages.

Overview of Workers' Compensation

Workers' compensation provides benefits to workers who are injured on the job or who contract a work related illness. Benefits include medical treatment for work-related conditions and cash payments that partially replace lost wages. Temporary total disability benefits are paid while the worker recuperates away from work. If the condition has lasting consequences after the worker's healing period, permanent disability benefits may be paid. In case of a fatality, the worker's dependents receive survivor benefits. Workers' compensation benefits are not subject to federal or state income taxes.

Germany enacted the first modern workers' compensation laws, known as Sickness and Accident Laws, in 1884, following their introduction by Chancellor

Otto von Bismarck (Clayton, 2004). The next such laws were adopted in England in 1897. Workers' compensation was the first form of social insurance in the United States. The first workers' compensation law in the United States was enacted in 1908 to cover certain federal civilian workers. The first state laws were passed in 1911. The adoption of state workers' compensation programs has been called a significant event in the nation's economic, legal, and political history. The adoption of these laws in each state required great efforts by business and labor to reach agreements on the specifics of the benefits to be provided and on which industries and employers would have to provide these benefits. Today, each of the fifty states, the District of Columbia, and US territories has its own program. A separate program covers federal civilian employees. Other federal programs provide benefits to coal miners with black lung disease, Longshore and Harbor workers, employees of overseas contractors with the U.S. government, certain energy employees exposed to hazardous material, workers engaged in the manufacturing of atomic bombs, and veterans injured while on active duty in the armed forces.

Before workers' compensation laws were enacted, an injured worker's only legal remedy for a work-related injury was to bring a tort suit against the employer and prove that the employer's negligence caused the injury. At the time, employers could use three common-law defenses to avoid compensating the worker: assumption of risk (showing, for example, that the injury resulted from an ordinary hazard of employment³); the fellow worker rule (showing that the injury was due to a fellow-worker's negligence); and contributory negligence (showing that, regardless of any fault of the employer, the worker's own negligence contributed to the accident).

Under the tort system, workers often did not recover damages and experienced delays or high costs when they did. While employers generally prevailed in court, they nonetheless were at risk for substantial and unpredictable losses if the workers' suits were successful. Litigation created friction between employers and workers. Initial reforms took the form

of employer liability acts, which eliminated some of the common-law defenses. Nonetheless, employees still had to prove negligence, which remained a significant obstacle to recovery (Burton and Mitchell, 2003).⁴ Ultimately, both employers and employees favored workers' compensation legislation to ensure that a worker who sustained an occupational injury or disease arising out of and in the course of employment would receive predictable compensation without delay, regardless of who was at fault. As a quid pro quo, the employer's liability was limited. Under the exclusive remedy concept, the worker accepts workers' compensation as payment in full and gives up the right to sue. (There are limited exceptions to the exclusive remedy concept in some states, such as when there is an intentional injury of the employee.)

Workers' compensation programs vary across states in terms of who is allowed to provide insurance, which injuries or illnesses are compensable, and the level of benefits. Workers' compensation is financed almost exclusively by employers, although economists argue that workers pay for a substantial portion of the costs of the program in the form of lower wages (Leigh et al., 2000). Workers' compensation coverage is mandatory in all states but Texas. Generally, state laws require employers who wish to self-insure for workers' compensation to obtain approval from the state regulatory authority after demonstrating financial ability to carry their own risk (self-insure). For those employers who purchase insurance, the premiums are based in part on their industry classifications and the occupational classifications of their workers. Many employers are also experience-rated, which results in higher (or lower) premiums for employers whose past experience – as evaluated by actuarial formulas that consider injury frequency and aggregate benefit payments - is worse (or better) than the experience of similar employers in the same insurance classification. The employers' costs of workers' compensation can also be affected by other factors, such as deviations, schedule rating, and dividends (Thomason, Schmidle, and Burton, 2001). These competitive pricing adjustments vary over the course of the insurance underwriting cycle.

A more complete definition is provided by Willborn et. al (2007:851); "The assumption of risk doctrine barred recovery for the ordinary risks of employment; the extraordinary risks of employment, if the worker knew of them or might reasonably have been expected to know of them; and the risks arising from the carelessness, ignorance, or incompetency of fellow servants."

⁴ As a result, the employers' liability approach was abandoned in all jurisdictions and industries except the railroads, where it still exists.

Covered Employment and Wages

In 2008, workers' compensation covered an estimated 130.6 million workers, a decrease of 0.8 percent from the 131.7 million workers covered in 2007 (Table 2). Total wages of covered workers were \$5.9 trillion in 2008, an increase of 1.7 percent from 2007. This increase was the combined effect of 0.8 percent decrease in covered workers – due to recession which began in December 2007 – and a 2.5 percent increase in the workers' average wages. Workers' compensation coverage rules did not change significantly during this period.

Coverage Rules

Every state except Texas requires almost all private employers to provide workers' compensation coverage (IAIABC-WCRI, 2009). In Texas, coverage is voluntary, but employers not providing coverage are not protected from tort suits. An employee not covered by workers' compensation insurance or an approved self-insurance plan is allowed to file suit claiming the employer is liable for his or her work-related injury or illness in every state. Other states exempt employers from mandatory coverage of certain of categories of workers, such as those in very small firms, certain agricultural workers, household workers, employees of charitable or religious organizations, or employees of some units of state and local government. Employers with fewer than three workers are exempt from mandatory workers' compensation coverage in Arkansas, Georgia, Michigan, New Mexico, North Carolina, Virginia, West Virginia, and Wisconsin. Employers with fewer than four workers are exempt in Florida and South Carolina. Those with fewer than five employees are exempt in Alabama, Mississippi, Missouri, and Tennessee. The rules for agricultural workers vary among states. In all except fourteen states, farm employers are exempt from mandatory workers' compensation coverage altogether. In other states, coverage is compulsory for some or all farm employers.

Method for Estimating Coverage

Because no national system exists for counting workers covered by workers' compensation, the number of covered workers and their covered wages must be estimated. The Academy's methods for estimating coverage are described in Appendix A. In brief, we start with the number of workers and total wages in each state that are covered by unemployment insurance (UI). Almost all of U.S. wage and salary workers are covered by UI (NASI, 2002). We subtract from UI coverage the estimates of the workers and wages that are not required to be covered by workers' compensation because of exemptions for small firms and farm employers and because coverage for employers in Texas is voluntary. Using these methods we estimate that in 2008, 96.9 percent of all UI-covered workers and wages were covered by workers' compensation. Self-employed persons are not covered by unemployment insurance or usually by workers' compensation.

NASI's coverage estimates seek to count the number of workers who are legally required to be covered under the state laws. The methodology may undercount the number of persons who are actually covered. For example, in some states, self-employed persons may voluntarily elect to be covered and in those states with numerical exemptions, some small firms may voluntarily purchase workers' compensation insurance. The NASI methodology may also over estimate the number of workers actually covered by workers' compensation. Several recent studies have found that actual coverage is less than legally required coverage because of evasive strategies used by employers, such as not reporting employees or misclassifying them as independent contractors (Greenhouse, 2008; FPI, 2007). As a practical matter, NASI lacks the information needed to systematically estimate compliance or non-compliance with state laws.

According to unpublished estimates provided by the Bureau of Labor Statistics, only 3 percent of all employees who worked for employers who participated in the BLS National Compensation Survey (NCS) were employed in establishments that reported zero workers' compensation costs. The 3% figure was for all employees covered by the survey, as well as for employees in the private sector and employees in the state and local government sector. The NASI estimate of legally required coverage has a national average (96.9 percent of all UI covered workers in 2008) that is virtually identical to the workers' compensation coverage shown by the NCS.

Changes in State Coverage

Because the primary workers' compensation coverage rules did not change between 2007 and 2008, differences in growth rates among states generally reflect changes in the states' overall employment and wages. In Texas, where workers' compensation is voluntary for employers, coverage decreased from 76 percent of workers in 2007 to 75 percent in 2008 according to surveys of Texas employers. About 30 states recorded a fall in employment in 2008. With regard to wages covered under workers' compensation, all jurisdictions registered increases in 2008 over 2007 except Arizona, Florida, Georgia, Idaho, Michigan and Nevada (Table 3).

Workers' Compensation Benefits

Workers' compensation pays for medical care immediately and pays cash benefits for lost work time after a three-to-seven-day waiting period. Most workers' compensation cases do not involve lost work time greater than the waiting period for cash benefits. In these cases, only medical benefits are paid. "Medical only" cases are quite common, but they represent a small share of benefit payments. Medical-only cases accounted for 77 percent of workers' compensation cases, but only 8 percent of all benefits paid, according to information about insured employers in forty one states for policy years spanning 1998–2005 (NCCI, 2009). The remaining 23 percent of cases that involved cash benefits accounted for 92 percent of benefits for cash and medical care combined.

Cash benefits differ according to the duration and severity of the worker's disability. Temporary total disability benefits are paid when the worker is temporarily precluded from performing the pre-injury job or another job for the employer that the worker could have performed prior to the injury. Most states pay weekly benefits for temporary total disability that replace two-thirds of the worker's pre-injury wage (tax free), subject to a dollar maximum that varies from state to state. The maximum weekly benefit for Temporary Total Disability (TTD) ranged from

\$1,366 in Iowa to 398.93 in Mississippi. Nine states had a maximum of \$1,000 or more: Connecticut, District of Columbia, Illinois, Iowa, Massachusetts, New Hampshire, Oregon, Vermont and Washington. The eleven states with a maximum of weekly TTD of less than \$600 include Arizona, Arkansas, Georgia, Idaho, Kansas, Louisiana, Maine, Mississippi, New York, Oklahoma and South Dakota.⁶

Countrywide, roughly 70 percent of all workers compensation claims are for medical payments only, i.e., there is no compensable claim for lost time from work. For most lost time injuries, workers fully recover, return to work, and benefits end. In some cases, they return to work before they reach maximum medical improvement, usually with restricted duties and lower pay. In those cases, they receive temporary partial disability benefits in most states. Temporary disability benefits are the most common type of cash benefits. They account for 63 percent of cases involving cash benefits and 16 percent of benefits incurred (Figure 3). If a worker has very significant impairments that are judged to be permanent after he or she reaches maximum medical improvement, permanent total disability benefits might be paid. These cases are relatively rare. Permanent total disabilities, together with fatalities, account for one percent of all cases that involve cash benefits, and 17 percent of total cash benefit payments (Figure 3).

Permanent partial disability benefits are paid when the worker has physical impairments that, although permanent, do not completely limit the worker's ability to work. States differ in their methods for determining whether a worker is entitled to permanent partial benefits, the degree of partial disability and the amount of benefits to be paid (Barth and Niss, 1999; Burton, 2005). In some states, the permanent partial disability benefit begins after maximum medical improvement has been achieved. In some cases permanent disability benefits can simply be the extension of temporary disability benefits until the disabled worker returns to employment. Cash benefits for permanent partial disability are frequently limited to a specified duration or an

⁶ Details on benefit provisions of state laws are compiled in Workers' Compensation Laws, 2nd Edition, issued jointly by the IAIABC (International Association of Industrial Accident Board and Commissions) and the WCRI (Workers Compensation Research Institute), and are summarized in Appendix I.

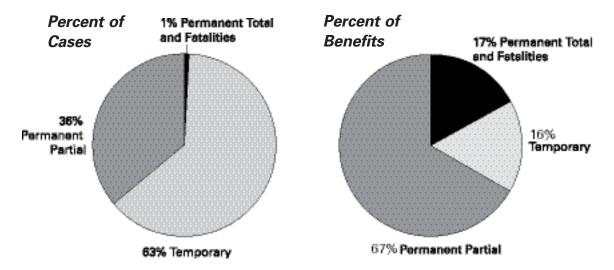
Number of Workers Covered by Workers' Compensation and Total Covered Wages, By State, 2004-2008 Table 3

| | Co | Covered Workers (in thousands) | ers (in tho | usands) | | | | O | Covered Wag | Covered Wages (in millions) | ns) | |
|--------------------------|----------|--------------------------------|-------------|---------|----------------------------|-----------------------|----------|----------|-------------|-----------------------------|----------|-----------------------|
| | 2004 | 2005 | 2006 | 2007 | 2007-2008 2008 % Change | 2007-2008 % Change | 2004 | 2005 | 2006 | 2007 | 2008 | 2007-2008 % Change |
| Alabama | 1,720 | 1,763 | 1,797 | 1,823 | 1,808 | 8.0- | \$56,310 | \$59,734 | \$63,733 | \$66,881 | \$68,530 | 2.5 |
| Alaska | 279 | 285 | 291 | 294 | 298 | 1.5 | 10,582 | 11,145 | 11,829 | 12,576 | 13,344 | 6.1 |
| Arizona | 2,304 | 2,438 | 2,562 | 2,595 | 2,529 | -2.6 | 83,541 | 92,048 | 101,587 | 106,805 | 106,477 | -0.3 |
| Arkansas | 1,073 | 1,092 | 1,112 | 1,119 | 1,117 | -0.2 | 32,014 | 33,674 | 35,512 | 37,684 | 38,472 | 2.1 |
| California | 14,706 | 14,992 | 15,256 | 15,395 | 15,248 | -1.0 | 653,145 | 689,220 | 734,344 | 774,856 | 781,948 | 0.0 |
| Colorado | 2,090 | 2,137 | 2,190 | 2,241 | 2,247 | 0.3 | 82,643 | 87,206 | 93,534 | 006'66 | 103,687 | 3.8 |
| Connecticut | 1,611 | 1,624 | 1,652 | 1,666 | 1,668 | 0.1 | 82,095 | 85,989 | 90,531 | 96,705 | 97,322 | 9.0 |
| Delaware | 406 | 412 | 417 | 418 | 416 | -0.5 | 17,209 | 18,370 | 19,259 | 19,727 | 19,720 | 0.0 |
| District of Columbia 467 | ıbia 467 | 474 | 479 | 487 | 491 | 8.0 | 27,418 | 28,975 | 31,082 | 33,345 | 34,822 | 4.4 |
| Florida | 7,039 | 7,309 | 7,498 | 7,504 | 7,177 | -4.4 | 245,133 | 266,392 | 285,969 | 295,537 | 288,339 | -2.4 |
| Georgia | 3,663 | 3,751 | 3,838 | 3,891 | 3,831 | -1.5 | 137,088 | 144,796 | 153,029 | 162,094 | 161,107 | 9.0- |
| Hawaii | 554 | 572 | 989 | 594 | 287 | -1.1 | 18,893 | 20,170 | 21,527 | 22,751 | 23,213 | 2.0 |
| Idaho | 578 | 601 | 631 | 648 | 640 | -1.2 | 16,988 | 18,234 | 20,259 | 21,433 | 21,398 | -0.2 |
| Illinois | 5,611 | 2,660 | 5,733 | 5,782 | 5,741 | -0.7 | 235,915 | 246,223 | 260,371 | 274,339 | 278,314 | 1.4 |
| Indiana | 2,802 | 2,827 | 2,845 | 2,858 | 2,823 | -1.2 | 96,522 | 99,459 | 103,263 | 106,460 | 107,620 | 1.1 |
| Iowa | 1,404 | 1,428 | 1,453 | 1,467 | 1,460 | -0.5 | 44,770 | 46,958 | 49,539 | 52,115 | 53,625 | 2.9 |
| Kansas | 1,263 | 1,272 | 1,293 | 1,324 | 1,342 | 1.3 | 40,854 | 42,610 | 45,708 | 48,589 | 50,775 | 4.5 |
| Kentucky | 1,688 | 1,717 | 1,738 | 1,760 | 1,748 | -0.7 | 55,423 | 57,711 | 60,527 | 63,553 | 64,742 | 1.9 |
| Louisiana | 1,831 | 1,807 | 1,776 | 1,837 | 1,853 | 6.0 | 57,648 | 59,917 | 64,267 | 69,554 | 74,131 | 9.9 |
| Maine | 583 | 581 | 584 | 588 | 585 | -0.5 | 18,282 | 18,636 | 19,387 | 20,272 | 20,854 | 2.9 |
| Maryland | 2,332 | 2,372 | 2,405 | 2,422 | 2,407 | 9.0- | 692,26 | 101,405 | 107,102 | 112,688 | 114,895 | 2.0 |
| Massachusetts | 3,087 | 3,110 | 3,146 | 3,185 | 3,197 | 6.4 | 150,515 | 155,261 | 164,373 | 175,410 | 180,867 | 3.1 |
| Michigan | 4,152 | 4,148 | 4,085 | 4,031 | 3,904 | -3.1 | 166,930 | 170,240 | 171,402 | 173,932 | 171,902 | -1.2 |
| Minnesota | 2,567 | 2,607 | 2,637 | 2,655 | 2,631 | 6.0- | 103,238 | 105,878 | 110,727 | 117,268 | 120,038 | 2.4 |

| 4666 2496 2552 2554 -0.5 85.074 88.993 93.134 97.736 a 390 400 413 423 424 0.2 10.442 11.34 13.304 97.736 npshire 866 876 886 901 898 -0.3 26.900 28.106 29.637 31.420 ey 3.81 3.81 3.81 3.80 3.90 3.80 0.2 1.24 4.51.44 46.104 49.863 3.318 ey 3.81 3.82 3.80 3.90 3.80 0.2 1.450 1.236 1.340 1.250 1.240 2.00 2.340 2.340 3.318 3.340 3.866 0.4 2.1420 2.2790 2.514 4.0164 1.0200 2.00 3.00 3.866 0.1 1.1420 1.2304 3.318 3.30 3.886 1.1 1.253 1.2400 2.00 1.00 1.00 1.00 1.00 2.1400 2.1400 | Mississippi | 1,026 | 1,032 | 1,042 | 1,057 | 1,053 | -0.4 | 28,730 | 30,123 | 31,895 | 33,524 | 34,653 | 3.4 |
|--|---------------------|---------|---------|---------|---------|---------|------|-----------|-----------|-----------|-----------|-----------|------|
| 8 866 876 413 423 424 0.2 10.542 11.342 12.304 13.305 a 866 876 886 901 888 -0.3 26.990 28.106 29.637 31.420 resy 866 876 886 901 888 -0.3 26.990 28.106 29.637 31.420 resy 3,812 3,856 3,890 3,900 3,875 -0.2 21.536 22.790 26.001 20.101 skord 3,812 3,900 3,800 3,800 3,800 3,800 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,900 3,800 3,800 | Missouri | 2,466 | 2,499 | 2,532 | 2,555 | 2,541 | -0.5 | 85,074 | 88,993 | 93,134 | 97,736 | 101,623 | 4.0 |
| a 866 876 886 901 898 0.3 26,990 28,106 29,637 31,420 ampshire 605 613 612 1.253 1.254 -2.5 41,514 46,104 49,863 53,018 exy 3,812 3,890 3,800 3,875 -0.6 182,512 10,048 20,019 20,012 axic 3,812 3,890 3,800 3,866 -1.1 125,39 46,014 49,863 53,018 axic 8,142 8,220 8,820 3,600 3,866 -1.1 125,390 40,017 200,392 axic 3,632 3,872 8,462 0.4 21,420 22,716 40,001 200,120 axic 3,632 3,872 8,462 0.4 21,420 32,142 32,116 20,039 axic 3,632 3,672 8,462 0.4 40,589 41,640 40,010 30,012 10,012 axic 3,632 <td>Montana</td> <td>390</td> <td>400</td> <td>413</td> <td>423</td> <td>424</td> <td>0.2</td> <td>10,542</td> <td>11,342</td> <td>12,304</td> <td>13,303</td> <td>13,792</td> <td>3.7</td> | Montana | 390 | 400 | 413 | 423 | 424 | 0.2 | 10,542 | 11,342 | 12,304 | 13,303 | 13,792 | 3.7 |
| sixt 1,127 1,197 1,233 1,234 -2.5 41,514 46,104 49,863 53,018 sexy 3,812 3,856 3,890 3,875 -0.6 182,512 190,048 20,109 20,104 sxix 3,812 3,856 3,890 3,800 3,875 -0.6 182,512 190,048 20,000 20,110 sxix 3,812 3,856 3,890 3,800 3,875 -0.6 11,420 22,790 25,116 20,000 skex 1,23 3,20 3,80 3,60 3,866 -1.1 13,239 14,142 26,10 15,00 20,10 </td <td>Nebraska</td> <td>998</td> <td>928</td> <td>988</td> <td>901</td> <td>868</td> <td>-0.3</td> <td>26,990</td> <td>28,106</td> <td>29,637</td> <td>31,420</td> <td>32,219</td> <td>2.5</td> | Nebraska | 998 | 928 | 988 | 901 | 868 | -0.3 | 26,990 | 28,106 | 29,637 | 31,420 | 32,219 | 2.5 |
| exy 3,812 3,856 3,890 3,875 -0.6 18,512 19,566 24,714 26,140 27,104 exy 3,812 3,856 3,890 3,875 -0.6 182,512 190,048 20,0091 29,112 axion 720 748 763 766 0.4 21,420 22,790 25,116 26,986 axiolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 13,146 14,049 10,058 14,090 10,00 20,012 20,013 axiolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 14,090 0.7 405,898 426,399 40,017 50,030 axiolina 1,567 1,440 1,442 40,589 42,599 40,017 50,030 axiolina 1,567 1,440 1,442 40,589 40,017 50,030 axiolina 1,697 1,742 455 5,249 5,539 | Nevada | 1,127 | 1,197 | 1,253 | | 1,234 | -2.5 | 41,514 | 46,104 | 49,863 | 53,018 | 52,688 | 9.0- |
| exp 3,815 3,896 3,900 3,875 -0,6 182,512 190,048 200,001 209,120 xico 703 720 748 763 766 0,4 21,420 22,790 25,116 26,986 arolina 3,633 3,812 3,802 8,427 8,462 0,4 405,898 426,395 460,017 500,390 arolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 14,640 14,040 16,040 arolina 3,633 3,21 3,809 3,866 -1.1 125,399 14,040 10,040 arolina 1,382 1,420 1,489 1,499 0.7 41,442 43,994 48,671 51,750 aland 447 468 471 470 459 -0.2 20,114 19,362 20,013 20,110 aland 1,532 1,623 1,755 1,759 1,789 -0.2 20,144 48,671 | New Hampshire | 909 | 613 | 619 | 622 | 621 | -0.2 | 23,566 | 24,714 | 26,140 | 27,104 | 27,714 | 2.2 |
| kt 8,142 8,23 748 763 766 0,4 21,420 22,790 25,116 26,988 kt 8,142 8,220 8,322 8,427 8,462 0,4 405,898 426,395 460,017 50,392 arolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 132,140 14,640 150,910 arolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 132,140 14,640 150,910 arolina 1,382 1,420 1,461 1,489 1,499 0.7 41,442 43,994 48,671 50,910 ania 1,382 1,621 1,691 1,684 -0.9 55,191 88,792 63,011 65,888 arolina 1,585 1,621 1,699 1,684 -0.9 55,191 88,792 66,919 97,81 10,790 arolina 1,596 1,678 1,780 -0.8 53,50 | New Jersey | 3,812 | 3,856 | 3,890 | 3,900 | 3,875 | 9.0- | 182,512 | 190,048 | 200,091 | 209,120 | 213,418 | 2.1 |
| tk 8,142 8,220 8,322 8,462 0,4 405,898 426,395 460,017 500,392 arolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 132,140 14,640 150,910 arolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 132,140 14,640 150,910 arolina 1,382 1,420 1,461 1,489 1,499 0.7 41,442 43,994 48,671 51,750 arolina 1,382 1,621 1,689 1,684 -0.9 55,191 88,792 63,011 65,888 arolina 1,382 1,671 1,699 1,684 -0.9 55,191 88,792 63,011 65,888 arolina 1,595 1,679 1,789 1,789 -0.2 20,104 31,786 1,789 1,789 1,789 1,789 1,789 1,789 1,789 1,789 1,789 1,789 1,789 | New Mexico | 703 | 720 | 748 | 763 | 99/ | 0.4 | 21,420 | 22,790 | 25,116 | 26,986 | 28,284 | 4.8 |
| arolina 3,633 3,707 3,812 3,909 3,866 -1.1 125,399 132,140 141,640 150,910 alona blooms 3,63 3,707 3,812 3,90 3,86 -1.1 125,399 132,140 141,640 150,910 alona 1,382 1,420 1,461 1,489 1,499 0.7 41,442 43,994 48,671 51,750 ania 5,390 5,446 5,503 5,549 5,535 0.2 206,104 214,203 225,608 237,990 alona 1,697 1,725 1,729 1,780 0.8 5,549 5,535 0.2 206,104 214,203 225,608 237,990 alona 1,697 1,725 1,729 1,780 0.8 5,549 5,536 2,549 5,537 0.2 206,104 1,086 1,188 arolina 1,697 1,728 1,739 1,739 1,780 0.8 5,549 5,549 5,537 0.9 86,074 89,889 95,817 100,434 e.c 2,494 2,537 2,579 2,598 2,575 0.9 86,074 89,889 95,817 100,434 e.c 2,494 2,537 2,579 2,598 2,575 0.9 86,074 89,899 95,817 100,434 e.c 2,494 2,537 2,579 2,598 2,575 0.9 86,074 89,899 95,817 100,434 e.c 2,494 2,537 2,579 2,598 2,575 0.9 86,074 89,899 95,817 100,434 e.c 2,494 2,537 2,579 2,598 2,575 0.9 86,074 89,899 95,817 100,434 e.c 2,494 2,537 2,598 2,575 0.9 86,074 89,899 95,817 100,434 e.c 2,494 2,537 2,539 2,537 2,537 2,537 2,537 2,537 2,537 2,537 2,537 2,537 2,538 2,498 | New York | 8,142 | 8,220 | 8,302 | 8,427 | 8,462 | 0.4 | 405,898 | | 460,017 | 500,392 | 509,954 | 1.9 |
| rakota 309 316 323 338 2.7 8.811 9,313 9,978 10,720 rakota 5,214 5,223 5,238 5,236 5,159 -1.4 188,314 193,622 200,236 206,104 ania 1,382 1,420 1,461 1,489 1,489 0.7 41,442 43,994 48,671 51,750 ania 5,390 5,446 5,503 5,549 5,535 -0.2 206,104 214,203 225,608 237,990 shrid 447 468 471 479 -0.2 206,104 214,203 257,990 237,990 shrid 447 470 479 -0.2 206,104 214,203 237,990 237,990 arolina 1,697 1,775 1,778 1,780 -0.8 55,504 56,310 66,388 c 2,494 2,537 2,575 0.9 86,074 86,074 89,382 88,828 c 2,4 | North Carolina | 3,633 | 3,707 | 3,812 | 3,909 | 3,866 | -1.1 | 125,399 | 132,140 | 141,640 | 150,910 | 152,519 | 1.1 |
| na 1,324 5,232 5,238 5,236 5,159 -1.4 188,314 193,622 200,236 206,919 na 1,382 1,420 1,481 1,499 0.7 41,442 43,994 48,671 51,750 ania 1,585 1,623 1,671 1,699 1,684 -0.9 55,191 58,792 63,001 66,588 ania 5,390 5,446 5,503 5,549 5,535 -0.2 206,104 214,203 225,608 237,990 aland 447 460 459 -2.4 16,576 17,865 18,771 19,304 acolina 1,697 1,725 1,780 1,780 -0.2 206,104 56,244 59,723 62,910 acolina 1,697 1,725 1,780 1,780 -0.2 206,104 80,981 95,817 10,434 acolina 1,697 1,735 1,184 1,182 -0.2 206,104 80,982 95,817 10 | North Dakota | 309 | 316 | 323 | 330 | 338 | 2.7 | 8,811 | 9,313 | 9,978 | 10,720 | 11,686 | 0.6 |
| na 1,382 1,420 1,461 1,489 1,499 0.7 41,442 43,994 48,671 51,750 ani 1,565 1,623 1,671 1,699 1,684 0.9 55,191 58,792 63,001 66,588 ania 5,390 5,446 5,503 5,549 5,535 -0.2 206,104 214,203 225,608 237,990 ania 1,697 1,725 1,759 1,789 0.8 53,504 56,244 59,723 62,910 akora 358 365 373 381 383 0.4 9,930 10,410 11,068 11,828 c 2,494 2,537 2,579 2,598 2,575 0.9 86,074 89,989 95,817 100,434 c 2,494 2,537 2,579 2,598 2,575 0.0 86,074 89,989 95,817 100,434 c 2,949 7,193 7,498 7,635 7,651 0.2 26,326 286,422 315,913 338,828 c 2,949 7,193 7,498 7,635 7,651 0.2 26,326 286,422 315,913 338,828 c 2,949 7,193 7,498 7,635 7,651 0.2 26,326 286,422 315,913 338,828 c 2,949 7,193 7,498 7,635 7,651 0.2 29,410 1,037 1,037 1,037 1,138 1 | Ohio | 5,214 | 5,232 | 5,238 | 5,230 | 5,159 | -1.4 | 188,314 | 193,622 | 200,236 | 206,919 | 208,573 | 8.0 |
| ania 5,390 5,446 5,503 5,549 1,684 -0.9 55,191 58,792 63,001 66,588 ania 5,390 5,446 5,503 5,549 5,535 -0.2 206,104 214,203 225,608 237,990 land 4,47 468 471 470 459 -2.4 16,576 17,865 18,771 19,304 arolina 1,697 1,725 1,725 1,729 1,729 1,780 -0.8 53,504 56,244 59,723 62,910 lakora 358 365 373 381 383 0.4 9,930 10,410 11,068 11,828 e 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 1,037 1,080 1,135 1,184 1,182 -0.2 265,326 286,422 315,913 338,828 to 2,249 7,193 7,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 to 2,249 7,193 7,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 to 2,249 2,348 3,401 3,437 2,418 -0.5 128,706 137,742 145,707 153,522 ton 2,625 2,697 2,781 2,837 2,817 10.2,62 10,470 10,499 g 2,626 2,637 2,639 2,728 2,729 | Oklahoma | 1,382 | 1,420 | 1,461 | 1,489 | 1,499 | 0.7 | 41,442 | 43,994 | 48,671 | 51,750 | 54,861 | 0.9 |
| ania 5,390 5,446 5,503 5,549 5,535 -0.2 206,104 214,203 225,608 237,990 land 447 468 471 470 459 -2.4 16,576 17,865 18,771 19,304 arolina 1,697 1,725 1,759 1,795 1,780 -0.8 53,504 56,244 59,723 62,910 akota 358 365 373 381 383 0.4 9,930 10,410 11,068 11,828 cc 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 cc 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 cc 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 cc 2,949 7,193 7,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 cc 2,93 2,95 2,97 2,94 -1.0 9,610 9,962 10,440 10,864 cc 2,637 2,697 2,817 2,817 -1.4 102,162 108,677 118,182 127,500 cc 2,637 2,697 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 cc 2,637 2,63 | Oregon | 1,565 | 1,623 | 1,671 | 1,699 | 1,684 | 6.0- | 55,191 | 58,792 | 63,001 | 66,588 | 67,559 | 1.5 |
| akota 1,697 1,725 1,759 1,795 1,780 -0.8 53,504 56,244 59,723 62,910 akota 358 365 373 381 383 0.4 9,930 10,410 11,068 11,828 e 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 e 6,949 7,193 7,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 in 1,037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 in 2,625 2,697 2,781 2,877 2,817 -1.4 102,162 108,677 118,182 12,750 in 2,625 2,697 2,697 2,698 2,698 -1.0 9,610 9,627 118,182 12,750 in 2,625 2,697 2,697 2,698 2,698 -1.0 9,089 20,550 21,770 22,714 in 2,625 2,657 2,679 2,698 2,688 -1.0 90,812 93,822 98,170 102,040 in 2,625 2,657 2,679 2,729 2,768 -1.0 90,812 93,822 98,170 102,040 in 2,625 2,649 2,726 2,72 | Pennsylvania | 5,390 | 5,446 | 5,503 | 5,549 | 5,535 | -0.2 | 206,104 | | 225,608 | 237,990 | 243,716 | 2.4 |
| arolina 1,697 1,725 1,759 1,795 1,780 -0.8 53,504 56,244 59,723 62,910 akota 358 365 373 381 383 0.4 9,930 10,410 11,068 11,828 ac 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 (6.949 7,193 7,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 (7.92 2.92 2.95 2.97 2.94 1,182 -0.2 32,742 35,320 39,176 43,139 (7.92 2.92 2.95 2.97 2.94 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 (7.92 2.92 2.93 3,418 0.05 128,706 137,742 145,707 153,522 (7.92 2.03 2.03 2.03 2.03 2.03 2.03 2.03 2.0 | Rhode Island | 447 | 468 | 471 | 470 | 459 | -2.4 | 16,576 | 17,865 | 18,771 | 19,304 | 19,480 | 6.0 |
| akota 358 365 373 381 383 0.4 9,930 10,410 11,068 11,828 11,828 6,949 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 10,434 1,037 1,037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,0864 1,037 1,038 3,448 3,401 3,437 3,418 -0.5 128,706 137,742 145,707 153,522 1,040 1 | South Carolina | 1,697 | 1,725 | 1,759 | 1,795 | 1,780 | -0.8 | 53,504 | 56,244 | 59,723 | 62,910 | 63,862 | 1.5 |
| ce 2,494 2,537 2,579 2,598 2,575 -0.9 86,074 89,989 95,817 100,434 1,103 1,037 1,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 1,1037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,1037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,1037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,100 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 10,864 1,100 1, | South Dakota | 358 | 365 | 373 | 381 | 383 | 0.4 | 9,930 | 10,410 | 11,068 | 11,828 | 12,331 | 4.3 |
| 6,949 7,193 7,498 7,636 7,651 0.2 265,326 286,422 315,913 338,828 1,037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 29 292 297 297 294 -1.0 9,610 9,962 10,440 10,864 10,864 2,625 2,697 2,781 2,837 2,817 -1.4 102,162 108,677 118,182 127,500 2,714 2,625 2,697 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 2,724 2,729 2,726 2,762 2,762 2,763 2,764 2,668 -1.0 90,812 93,822 98,170 102,040 2,724 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5,800,035 2,90 2,726 2,726 2,726 2,726 2,726 2,726 2,726 2,726 2,726 2,727 2,7 | Tennessee | 2,494 | 2,537 | 2,579 | | 2,575 | 6.0- | 86,074 | 686,688 | 95,817 | 100,434 | 101,910 | 1.5 |
| 1,037 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,080 1,135 1,184 1,182 -0.2 32,742 35,320 39,176 43,139 1,080 1,135 1,184 1,182 -1.0 9,610 9,662 10,440 10,864 10,864 10,864 1,181 1,1 | Texas | 6,949 | 7,193 | 7,498 | 7,636 | 7,651 | 0.2 | 265,326 | 286,422 | 315,913 | 338,828 | 349,132 | 3.0 |
| 292 295 297 294 -1.0 9,610 9,962 10,440 10,864 3,268 3,348 3,401 3,437 3,418 -0.5 128,706 137,742 145,707 153,522 ton 2,625 2,697 2,781 2,857 2,817 -1.4 102,162 108,677 118,182 127,500 gin 2,626 2,657 2,679 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 g 2,626 2,657 2,694 2,668 -1.0 90,812 93,802 98,170 102,040 g 2,40 2,75 2,694 2,668 -1.0 90,812 93,802 94,00 10,499 n-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5,726 n-federal 123,139 125,424 127,61 123,626 2,762 1,386,00 1,366,00 1,373 | Utah | 1,037 | 1,080 | 1,135 | | 1,182 | -0.2 | 32,742 | 35,320 | 39,176 | 43,139 | 44,198 | 2.5 |
| 3,268 3,348 3,401 3,437 3,418 -0.5 128,706 137,742 145,707 153,522 ton 2,625 2,697 2,781 2,857 2,817 -1.4 102,162 108,677 118,182 127,500 ginia 2,626 2,679 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 g 240 247 260 270 279 3.1 7,373 8,087 9,400 10,499 n-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5,880 mployees 2,746 2,726 2,762 1,3 158,294 163,663 160,525 176,858 | Vermont | 292 | 295 | 297 | 297 | 294 | -1.0 | 9,610 | 9,962 | 10,440 | 10,864 | 11,152 | 2.6 |
| ton 2,625 2,697 2,781 2,857 2,817 -1.4 102,162 108,677 118,182 127,500 ginia 665 673 684 669 -2.3 19,689 20,550 21,770 22,714 in 2,626 2,657 2,679 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 g 240 260 270 279 3.1 7,373 8,087 9,400 10,499 n-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5, mployees 2,746 2,726 | Virginia | 3,268 | 3,348 | 3,401 | 3,437 | 3,418 | -0.5 | 128,706 | 137,742 | 145,707 | 153,522 | 156,661 | 2.0 |
| ginia 665 673 683 684 669 -2.3 19,689 20,550 21,770 22,714 in 2,626 2,657 2,679 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 g 2,40 247 260 270 279 3.1 7,373 8,087 9,400 10,499 in-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5, smployees 2,740 2,734 2,729 2,726 2,762 1.3 158,294 163,663 169,525 176,858 | Washington | 2,625 | 2,697 | 2,781 | 2,857 | 2,817 | -1.4 | 102,162 | 108,677 | 118,182 | 127,500 | 130,084 | 2.0 |
| in 2,626 2,657 2,679 2,694 2,668 -1.0 90,812 93,822 98,170 102,040 g 240 247 260 270 279 3.1 7,373 8,087 9,400 10,499 n-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5, imployees 2,740 2,734 2,729 2,726 2,762 1.3 158,294 163,663 169,525 176,858 | West Virginia | 999 | 673 | 683 | 684 | 699 | -2.3 | 19,689 | 20,550 | 21,770 | 22,714 | 23,418 | 3.1 |
| g 240 247 260 270 279 3.1 7,373 8,087 9,400 10,499 n-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5, amployees 2,740 2,729 2,726 2,762 1.3 158,294 163,663 169,525 176,858 | Wisconsin | 2,626 | 2,657 | 2,679 | | 2,668 | -1.0 | 90,812 | 93,822 | 98,170 | 102,040 | 103,920 | 1.8 |
| n-federal 123,139 125,424 127,610 129,007 127,881 -0.9 4,796,160 5,049,814 5,374,520 5,680,035 5, amployees 2,740 2,724 2,729 2,726 2,762 1.3 158,294 163,663 169,525 176,858 | Wyoming | 240 | 247 | 260 | 270 | 279 | 3.1 | 7,373 | 8,087 | 9,400 | 10,499 | 11,461 | 9.2 |
| Employees 2,740 2,734 2,729 2,726 2,762 1.3 158,294 163,663 169,525 176,858 | Total non-federal 1 | 123,139 | 125,424 | 127,610 | 129,007 | 127,881 | 6.0- | 4,796,160 | 5,049,814 | 5,374,520 | 5,680,035 | 5,771,232 | 1.6 |
| 1/0 1/0 1/0 1/0 0 1/0 0 1/0 0 1/0 0 1/0 1/ | Federal employees | , 2,740 | 2,734 | 2,729 | | 2,762 | 1.3 | 158,294 | 163,663 | 169,525 | 176,858 | 183,095 | 3.5 |
| 125,8/8 128,158 130,339 131,/34 130,643 -0.8 4,953,089 5,212,0/5 5,542,613 5,855,361 | TOTAL 1 | 125,878 | 128,158 | 130,339 | 131,734 | 130,643 | -0.8 | 4,953,089 | 5,212,075 | 5,542,613 | 5,855,361 | 5,952,522 | 1.7 |
| | | | | | | | | | | | | | |

Figure 3

Types of Disabilities in Workers' Compensation Cases with Cash Benefits, 2005



cases classified as permanent partial include cases that are closed with fulfip sum settlements, benefits paid in cases classified as permanent partial, permanent total and fatalities can include any temporary total disability benefits also paid in such cases. The data are from the first report from the NCCI *Annual Statistical Bulletin*.

Source: Annual Statistical Bulletin, NCCI 2009, Exhibits X and XII.

aggregate dollar limit. Permanent partial disabilities account for 36 percent of cases that involve any cash payments and for 67 percent of benefit payments.

An in-depth study examined the likelihood that workers' compensation claimants would receive permanent partial disability benefits. It focused on individuals in six states who had experienced more than seven days of lost work time. Those who subsequently received permanent partial benefits ranged from about three in ten in one state to more than half of cases with at least one week of lost work time in two other states (Barth, Helvacian, and Liu, 2002). Methods for compensating permanent impairments fall into several broad categories (Barth, 2004). About 44 jurisdictions use a schedule—a list of body parts that are covered. Typically, a schedule appears in the underlying statute and lists benefits to be paid for specific losses (e.g. the loss of a finger). These losses schedules include the upper and lower extremities and may also include one or both eyes. Most state schedules also include the loss of hearing in one or both ears. Injuries to the spine that are permanently disabling are typically not scheduled, nor are injuries to internal organs, head injuries, and occupational diseases. Historically, the schedules

were the list of covered injuries and the unscheduled injury methodologies followed later. For unscheduled conditions, the approaches used can be categorized into four methods:

- An *impairment-based approach*, used in 19 states, is most common. In approximately 14 of these states, a worker with an unscheduled permanent partial disability receives benefits based entirely on the degree of impairment with or without a formula that takes into account the personal characteristics of the injured worker. Any future earnings losses of the worker are not considered.
- A *loss-of-earning-capacity approach* is used in 13 states. This approach links the benefit to the worker's ability to earn or to compete in the labor market and involves a forecast of the economic impact that the impairment will have on the worker's future earnings.
- In a *wage-loss approach*, used in 10 states, benefits are paid for the actual or ongoing earnings losses that a worker incurs.
- In a bifurcated approach used in ten jurisdictions, the benefit for a permanent disability

depends on the worker's employment status at the time that the worker's condition is assessed, after the condition has stabilized. If the worker has returned to employment with earnings at or near the pre-injury level, the benefit is based on the degree of impairment. If the worker has not returned to employment, or has returned but at lower wages than before the injury, the benefit is based on the degree of lost earning capacity.

In Massachusetts, Rhode Island, and Oregon (since 2005) injured workers can qualify for two tracks of permanent partial disability benefits paid concurrently, one of which is designed to compensate for work disability and one of which is designed to compensate for noneconomic loss (Burton, 2008b). The noneconomic loss benefits are known as impairment benefits in Oregon and as specific injuries in Massachusetts. Florida also used the concurrent or dual benefits approach from 1979 to 1990, where one track of benefits was based on the extent of actual wage loss and the other on the degree of permanent impairment.

Method for Estimating Paid Benefits

Our estimates of workers' compensation benefits paid are based on three main sources: responses to the Academy's questionnaire from state agencies, data from the National Association of Insurance Commissioners (NAIC), and data purchased from A.M. Best, a private company that specializes in collecting insurance data and rating insurance companies. The A.M. Best data used for this report show benefits paid in each state for 2004 through 2008. They include information for all private carriers in every state and for eighteen of the twenty-six state funds, but do not include any information about the remaining state funds, self-insured employers, or benefits paid under deductible arrangements. Under deductible policies written by private carriers or state funds, the insurer pays all of the workers' compensation benefits, but employers are responsible for reimbursing the insurer for those benefits up to a specified deductible amount.

Deductibles may be written into an insurance policy on a per-injury basis, an aggregate basis, or a combination of a per-injury basis with an aggregate cap. States vary in the maximum deductibles they allow. In return for accepting a policy with a deductible, the employer pays a lower premium. Appendix C summarizes the kinds of data each state reported. States had the most difficulty reporting amounts of benefits paid under deductible arrangements. The Academy's methods for estimating these benefits are described in Appendix G. If states were unable to report benefits paid by self-insured employers, these amounts had to be estimated; the methods for estimating self-insured benefits are described in Appendix E.

In addition to private carriers, state funds, and selfinsurance, many states also have second injury funds, which are described in Appendix C. The data for second injury fund payments are included in Appendix Table J1 and nationally resulted in more than \$1 billion of paid benefits in each year from 2004 to 2008. For the first time, the benefit data in this report contain second injury fund data, which in Table 4 are distributed across private carrier, state fund, and self-insurance benefits data according to the share of benefits paid by these three types of insurance arrangements in each state. Second injury funds reimburse employers or insurance carriers for part of workers' compensation benefits in certain instances when an employee with a pre-existing impairment suffers a further work-related injury or disease. The employer is responsible for workers' compensation benefits only for the second injury or disease. The purpose of second injury funds is to encourage employers to hire disabled workers. Second injury funds are financed through general state revenues or assessments on workers' compensation insurers and self-insuring employers.

Many states also have one or more funds that guarantee payment of benefits in case private carriers or self-insuring employers are unable to make payments because of bankruptcy or other financial problems. The guaranty funds are described in Appendix C and the data on benefits paid by these guarantee funds from 2004 to 2008 are shown in Appendix Tables J2 and J3. The national total of payments by guaranty funds for private insurance carriers declined from \$718 million in 2004 to \$248 million in 2008 (Table J2). The national total of payments by guaranty funds for self-insuring employers varied from \$12.6 million to \$40.3 million between 2004 and 2008 (Table J3). For the first time, the benefits data in this report includes the data on payments by guaranty funds. The benefits paid by guaranty funds for

Table 4Workers' Compensation Benefits by Type of Insurer and Share of Medical Benefits, 1960–2008 (in millions)

| | Total | Benefits | Private C | Carriers(a) | State F | unds(a) | Fede | ral(b) | Self-In | sured | N | 1edical |
|------|---------|----------|-----------|-------------|---------|---------|---------|---------|---------|---------|--------|---------|
| | | Percent | | Percent | | Percent | | Percent | | Percent | | Percent |
| Year | Total | Change | Total | Share | Total | Share | Total | Share | Total | Share | Total | Medical |
| 1960 | \$1,295 | 11.0 | \$810 | 62.5 | \$264 | 20.4 | \$61 | 4.7 | \$160 | 12.4 | \$435 | 33.6 |
| 1961 | 1,374 | 6.1 | 851 | 61.9 | 284 | 20.7 | 63 | 4.6 | 176 | 12.8 | 460 | 33.5 |
| 1962 | 1,489 | 8.4 | 924 | 62.1 | 305 | 20.5 | 66 | 4.4 | 194 | 13.0 | 495 | 33.2 |
| 1963 | 1,583 | 6.3 | 988 | 62.4 | 318 | 20.1 | 70 | 4.4 | 207 | 13.1 | 525 | 33.2 |
| 1964 | 1,708 | 7.9 | 1,070 | 62.6 | 339 | 19.8 | 73 | 4.3 | 226 | 13.2 | 565 | 33.1 |
| 1965 | 1,813 | 6.1 | 1,124 | 62.0 | 371 | 20.5 | 74 | 4.1 | 244 | 13.5 | 600 | 33.1 |
| 1966 | 2,000 | 10.3 | 1,239 | 62.0 | 404 | 20.2 | 82 | 4.1 | 275 | 13.8 | 680 | 34.0 |
| 1967 | 2,190 | 9.5 | 1,363 | 62.2 | 430 | 19.6 | 94 | 4.3 | 303 | 13.8 | 750 | 34.2 |
| 1968 | 2,376 | 8.5 | 1,482 | 62.4 | 451 | 19.0 | 105 | 4.4 | 338 | 14.2 | 830 | 34.9 |
| 1969 | 2,634 | 10.9 | 1,641 | 62.3 | 486 | 18.5 | 121 | 4.6 | 386 | 14.7 | 920 | 34.9 |
| 1970 | 3,030 | 15.0 | 1,843 | 60.8 | 497 | 16.4 | 258 | 8.5 | 432 | 14.3 | 1,050 | 34.7 |
| 1971 | 3,563 | 17.6 | 2,005 | 56.3 | 549 | 15.4 | 549 | 15.4 | 460 | 12.9 | 1,130 | 31.7 |
| 1972 | 4,062 | 14.0 | 2,179 | 53.6 | 633 | 15.6 | 746 | 18.4 | 504 | 12.4 | 1,250 | 30.8 |
| 1973 | 5,104 | 25.7 | 2514 | 49.3 | 720 | 14.1 | 1,278 | 25.0 | 592 | 11.6 | 1,480 | 29.0 |
| 1974 | 5,781 | 13.3 | 2971 | 51.4 | 823 | 14.2 | 1,263 | 21.8 | 724 | 12.5 | 1,760 | 30.4 |
| 1975 | 6,598 | 14.1 | 3,422 | 51.9 | 957 | 14.5 | 1,367 | 20.7 | 852 | 12.9 | 2,030 | 30.8 |
| 1976 | 7,585 | 15.0 | 3,976 | 52.4 | 1,088 | 14.3 | 1,482 | 19.5 | 1,039 | 13.7 | 2,380 | 31.4 |
| 1977 | 8,629 | 13.8 | 4,629 | 53.6 | 1,209 | 14.0 | 1,541 | 17.9 | 1,250 | 14.5 | 2,680 | 31.1 |
| 1978 | 9,796 | 13.5 | 5,256 | 53.7 | 1,221 | 12.5 | 1,822 | 18.6 | 1,497 | 15.3 | 2,980 | 30.4 |
| 1979 | 12,027 | 22.8 | 6,157 | 51.2 | 1,709 | 14.2 | 2,313 | 19.2 | 1,848 | 15.4 | 3,520 | 29.3 |
| 1980 | 13,618 | 13.2 | 7,029 | 51.6 | 1,797 | 13.2 | 2,533 | 18.6 | 2,259 | 16.6 | 3,947 | 29.0 |
| 1981 | 15,054 | 10.5 | 7,876 | 52.3 | 2,017 | 13.4 | 2,578 | 17.1 | 2,583 | 17.2 | 4,431 | 29.4 |
| 1982 | 16,408 | 9.0 | 8,647 | 52.7 | 2,191 | 13.4 | 2,577 | 15.7 | 2,993 | 18.2 | 5,058 | 30.8 |
| 1983 | 17,575 | 7.1 | 9,265 | 52.7 | 2,443 | 13.9 | 2,618 | 14.9 | 3,249 | 18.5 | 5,681 | 32.3 |
| 1984 | 19,686 | 12.0 | 10,610 | 53.9 | 2,754 | 14.0 | 2,651 | 13.5 | 3,671 | 18.6 | 6,424 | 32.6 |
| 1985 | 22,217 | 12.9 | 12,341 | 55.5 | 3,059 | 13.8 | 2,685 | 12.1 | 4,132 | 18.6 | 7,498 | 33.7 |
| 1986 | 24,613 | 10.8 | 13,827 | 56.2 | 3,554 | 14.4 | 2,694 | 10.9 | 4,538 | 18.4 | 8,642 | 35.1 |
| 1987 | 27,317 | 11.0 | 15,453 | 56.6 | 4,084 | 15.0 | 2,698 | 9.9 | 5,082 | 18.6 | 9,912 | 36.3 |
| 1988 | 30,703 | 12.4 | 17,512 | 57.0 | 4,687 | 15.3 | 2,760 | 9.0 | 5,744 | 18.7 | 11,507 | 37.5 |
| 1989 | 34,316 | 11.8 | 19,918 | 58.0 | 5,205 | 15.2 | 2,760 | 8.0 | 6,433 | 18.7 | 13,424 | 39.1 |
| 1990 | 38,237 | 11.4 | 22,222 | 58.1 | 5,873 | 15.4 | 2,893 | 7.6 | 7,249 | 19.0 | 15,187 | 39.7 |
| 1991 | 42,187 | 10.3 | 24,515 | 58.1 | 6,713 | 15.9 | 2,998 | 7.1 | 7,962 | 18.9 | 16,832 | 39.9 |
| 1992 | 44,660 | 5.9 | 24,030 | 53.8 | 7,829 | 17.5 | 3,158 | 7.1 | 9,643 | 21.6 | 18,664 | 41.8 |
| 1993 | 42,925 | -3.9 | 21,773 | 50.7 | 8,105 | 18.9 | 3,189 | 7.4 | 9,857 | 23.0 | 18,503 | 43.1 |
| 1994 | 43,482 | 1.3 | 21391 | 49.2 | 7398 | 17.0 | 3,166 | 7.3 | 11,527 | 26.5 | 17,194 | 39.5 |
| 1995 | 42,122 | -3.1 | 20106 | 47.7 | 7681 | 18.2 | 3,103 | 7.4 | 11,232 | 26.7 | 16,733 | 39.7 |
| 1996 | 41,960 | 4 | 21,024 | 50.1 | 8,042 | 19.2 | 3,066 | 7.3 | 9,828 | 23.4 | 16,739 | 39.9 |
| 1997 | 41,971 | .0 | 21,676 | 51.6 | 7,157 | 17.1 | 2,780 | 6.6 | 10,357 | 24.7 | 17,397 | 41.5 |
| 1998 | 43,987 | 4.8 | 23,579 | 53.6 | 7,187 | 16.3 | 2,868 | 6.5 | 10,354 | 23.5 | 18,622 | 42.3 |
| 1999 | 46,313 | 5.3 | 26,383 | 57.0 | 7,083 | 15.3 | 2,862 | 6.2 | 9,985 | 21.6 | 20,055 | 43.3 |
| 2000 | 47,699 | 3.0 | 26,874 | 56.3 | 7,388 | 15.5 | 2,957 | 6.2 | 10,481 | 22.0 | 20,933 | 43.9 |
| 2001 | 50,827 | 6.6 | 27,905 | 54.9 | 8,013 | 15.8 | 3,069 | 6.0 | 11,839 | 23.3 | 23,137 | 45.5 |
| 2002 | 52,297 | 2.9 | 28,085 | 53.7 | 9,139 | 17.5 | 3,154 | 6.0 | 11,920 | 22.8 | 24,203 | 46.3 |
| 2002 | 54,739 | 4.7 | 28,395 | 51.9 | 10,442 | 19.1 | 3,185 | 5.8 | 12,717 | 23.2 | 25,733 | 47.0 |
| 2003 | 56,149 | 2.6 | 28,632 | 51.0 | 11,146 | 19.9 | 3,256 | 5.8 | 13,115 | 23.4 | 26,079 | 46.4 |
| 2005 | 55,630 | 9 | 28,483 | 51.2 | 11,036 | 19.8 | 3,258 | 5.9 | 12,853 | 23.1 | 26,036 | 46.8 |
| 2006 | 54,274 | -2.4 | 27,733 | 51.1 | 10,628 | 19.6 | 3,270 | 6.0 | 12,643 | 23.3 | 25,962 | 47.8 |
| 2007 | 55,217 | 1.7 | 28,492 | 51.6 | 10,323 | 18.7 | 3,340 | 6.0 | 13,062 | 23.7 | 26,720 | 48.4 |
| 2008 | 57,633 | 4.4 | 30,150 | 52.3 | 10,323 | 18.2 | 3,424 | 5.9 | 13,578 | 23.6 | 29,063 | 50.4 |
| 2000 | 77,000 | 7,7 | 00,170 | 14.5 | 10,102 | 10.2 | J, 12-1 | J.) | 13,7/0 | 23.0 | 27,003 | 70.1 |

Table 4 continued

- (a) Estimated benefits paid under deductible provisions are included beginning in 1992. Benefits are payments in the calendar year to injured workers and to providers of their medical care.
- (b) In all years, federal benefits includes those paid under the Federal Employees' Compensation Act for civilian employees and the portion of the Black Lung benefit program that is financed by employers and are paid through the federal Black Lung Disability Trust Fund. In years before 1997, federal benefits also include the other part of the Black Lung program that is financed solely by federal funds. In 1997–2008, federal benefits also include a portion of employer-financed benefits under the Longshore and Harbor Workers Compensation Act that are not reflected in state data—namely, benefits paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs.

Source: National Academy of Social Insurance estimates. See Appendices B and H. SSA's Annual Statistical Supplement, 2009 and DOL, 2010

private carriers are included in the total of benefit payments by private carriers in Table 4 and the benefits paid by guaranty funds for self-insuring employers are included in the self-insured employers benefit payments in Table 4.

This is the first year that the NASI report has included payments by second injury funds and guaranty funds in the state data in Table 4 and in the national data used throughout the report. We have revised our estimates of state benefit payments for 2004 to 2007 to include these payments, as shown in Appendix Tables D1 to D4, and these revised state data are included in our revised data on benefits payments. Since this is the first year for this expanded scope of benefit payments, we anticipate that we may have missed data on benefit payments from some states despite our best efforts to obtain these data. We hope to add data from other states to our 2011 report, which will provide data of state benefit payments from 2005 to 2009. In addition, many states have funds that pay benefits to workers whose employers are illegally uninsured, and we hope to add data on benefit payments by these funds to our 2011 report.

We made significant changes in the procedures used to estimate benefit payments for two states in this report. In California, we included not only benefit payments (or losses, to use the insurance terminology included in the *Glossary*), but also medical cost containment expenses in our data on paid benefits in previous editions of the NASI report on workers' compensation benefits, coverage, and costs. In other states, we restricted our data to benefit payments and excluded medical cost containment expenses from

our estimates of paid benefits. We have revised the California data from 2001 onwards to only include paid benefits for California (and not medical cost containment expenses) for medical benefits in California. The effect of the changes in our procedure for estimating benefits in California was to reduce paid benefits in 2007 from \$9.9 billion (Table 8 of Sengupta, Reno, and Burton (2009)) to \$9.5 billion (Table D1 of the current report.)

In New Jersey, in previous years, we had estimated the benefit payments for self-insuring employers using the national average for the share of benefits accounted for by self-insurers, using the procedure we still use for New York described in Step F of Appendix E in this report. This year we have imputed New Jersey's self-insured benefits using payroll data provided by the New Jersey Compensation Rating & Inspection Bureau as described in Step E of Appendix E. The new procedure indicates that payments by self-insuring employers in New Jersey are relatively less important than we previously reported. For example, the share of benefits paid for by New Jersey self-insuring employers in 2007 shown in Table 8 of the NASI report published in 2009 was 23.7 percent, while the share of 2007 benefits paid for by self-insured employers shown in Appendix Table D1 is 18.7 percent.

A detailed, state-by-state explanation of how the estimates in this report are produced is provided in *Sources and Methods: A Companion to Workers' Compensation: Benefits, Coverage, and Costs, 2008* on the Academy's website at www.nasi.org.

National Trends in Benefits by Insurance Arrangements

Workers' compensation benefits can be paid by private insurance carriers, by state or federal workers' compensation funds, or by self-insuring employers. Table 4 provides data on workers' compensation benefits by type of insurer for 1960 through 2008. (The data in Table 4 do not show separately benefits paid under deductible insurance policies, which are considered in a subsequent subsection.)

Private insurance carriers remain the largest source of workers' compensation benefits in 2008, when they accounted for 52.3 percent of benefits paid. Private carriers currently are allowed to sell workers' compensation insurance in all but four states that have exclusive state funds—Ohio, North Dakota, Washington, and Wyoming.⁷ As shown in Table 4, the share of benefits paid by private carriers has varied between 47.7 and 62.6 percent since 1960.

The share of benefits paid by state workers' compensation funds has varied from 12.5 and 20.7 percent since 1960. The share of benefits provided by state funds declined from 18.7 percent in 2007 to 18.2 percent in 2008. A total of twenty-six states had state funds that paid workers' compensation in 2008. They include the four exclusive state fund states (plus West Virginia, where the former exclusive state fund continued to pay benefits), and twenty-one others in which the state funds compete with private carriers. In general, state funds are established by an act of the state legislature, have at least part of their board appointed by the governor, are usually exempt from federal taxes, and typically serve as the insurer of last resort—that is, provide insurance coverage to employers who have difficulty purchasing it privately. Not all state funds meet all these criteria, however. In some cases, it is not altogether clear whether an entity is a state fund or a private insurer, or whether it is a state fund or a state entity that is self-insuring workers' compensation benefits for its own employees. Consequently, the Academy's expert panel decided to classify as state funds all twenty-six entities that are members of the American Association of State Compensation Insurance Funds (AASCIF, 2009). This includes the South Carolina fund, which is the required insurer for state employees and is available to cities and counties to insure their employees, but does not insure private employers.

Payments of workers' compensation benefits by federal funds have varied between 4.1 and 25.0 percent of all benefit payments since 1960. The share declined from 7.4 percent of all benefit payments in 1995 to 5.9 percent in 2008. These benefits include payments under the Federal Employees' Compensation Act for civilian employees and the portion of the Black Lung benefit program that is financed by employers and paid through the federal Black Lung Disability Trust Fund. Federal benefits also include benefits under the Longshore and Harbor Workers' Compensation Act that are paid by self-insured employers and by special funds under that Act. More details about these federal programs, and the Energy Employees Occupational Illness Program Act, which is not included here, are in Appendix H.

The share of benefits accounted for by self-insuring employers has varied between 11.6 and 26.7 percent since 1960. Since 2000, the share has been relatively stable, varying from 22.0 to 23.7 percent. Employers are allowed to self-insure for workers' compensation in all states except North Dakota and Wyoming, which require all employers to obtain insurance from their state funds. In other states, employers may apply for permission from the regulatory authority to self-insure their risk for workers' compensation benefits if they prove they have the financial capacity to do so. Many large employers choose to self-insure. Some states permit groups of employers in the same industry or trade association or self-insure through group self-insurance. Benefits provided under group self-insurance are included with the self-insured benefits in this report.

National Trends in Cash and Medical Benefits

On the national level, total benefits (cash plus medical) were 4.4 percent higher in 2008 than in 2007. This national increase in benefit payments was solely due to an increase in medical benefits by 8.8 percent, since cash benefits increased only by 0.3 percent between 2007 and 2008.

⁷ The West Virginia exclusive state fund was no longer selling policies in 2008 but was still paying benefits in 2008 for policies sold in previous years.

The shares of paid benefits accounted for by medical benefits for 1960 to 2008 are shown in Table 4 and Figure 4. Medical benefits accounted for 33.1 percent to 34.9 percent of all benefit payments in the 1960s, and then generally declined during the 1970s until reaching a low point of 29.0 percent of benefit payments in 1980. Since then, medical benefits have increased their relative importance, accounting for 39.7 percent of all benefit by 1990 and for 43.9 percent of all benefits by 2000. During the current decade, medical benefits have continued to grow more rapidly than cash benefits, and in 2008 for the first time accounted for over half (50.4 percent) of all benefits paid during the year. The increasing importance of medical benefits in recent decades is due in part to the general factors that have increased the share of Gross National Product devoted to medical care.

National Trends in Deductibles and Self Insurance

Under deductible policies written by private carriers or state funds, the insurer pays all of the workers' compensation benefits, but employers are required to reimburse the insurers for those benefits up to a specified deductible amount, or pay claims themselves up to the deductible amount. In the previous analysis, the deductible amounts were attributed to the private carriers or state funds that initially paid the benefits. In this subsection, the deductible amounts are attributed to the employers who are required to reimburse the insurers for the deductible amounts.

Prior to the 1990s, policies with deductibles were not common, but their popularity grew in the mid 1990s. In 1992, benefits under deductible policies totaled \$1.3 billion, or about 2.8 percent of total benefits (Table 5). By 2000 they had risen to \$6.2 billion, or 13.0 percent of total benefits. In 2008, deductibles totaled \$8.1 billion, which was 14.1 percent of total benefits paid. Table 5 also shows separately the estimated dollar amount of benefits that employers paid under deductible provisions with each type of insurance.

In Table 4, benefits reimbursed by employers under deductible policies were included with private carri-

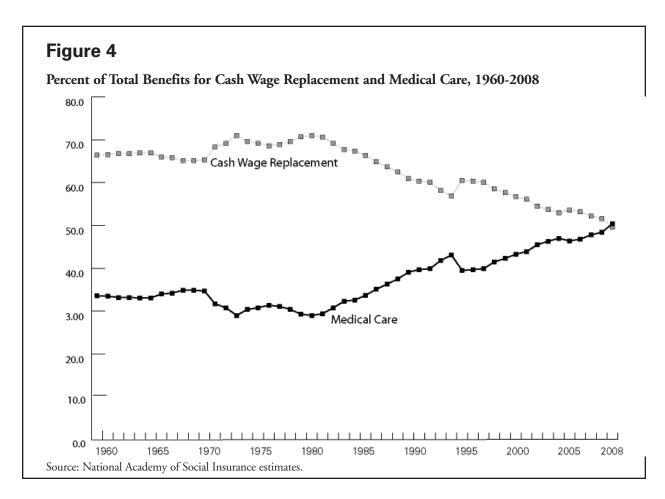


Table 5

Estimated Employer-Paid Benefits under Deductible Provisions for Workers' Compensation, 1992–2008 (in millions)

| Year | Total | Private Carriers | State Funds | Deductibles as a % of Total Benefits |
|------|---------|------------------|-------------|---|
| 1992 | \$1,250 | \$1,250 | * | 2.8 |
| 1993 | 2,027 | 2,008 | \$ 19 | 4.7 |
| 1994 | 2,834 | 2,645 | 189 | 6.5 |
| 1995 | 3,384 | 3,060 | 324 | 8.0 |
| 1996 | 3,716 | 3,470 | 246 | 8.9 |
| 1997 | 3,994 | 3,760 | 234 | 9.5 |
| 1998 | 4,644 | 4,399 | 245 | 10.6 |
| 1999 | 5,684 | 5,452 | 232 | 12.3 |
| 2000 | 6,201 | 5,931 | 270 | 13.0 |
| 2001 | 6,388 | 6,085 | 303 | 12.6 |
| 2002 | 6,922 | 6,511 | 411 | 13.2 |
| 2003 | 8,020 | 7,547 | 474 | 14.7 |
| 2004 | 7,645 | 7,134 | 510 | 13.6 |
| 2005 | 7,990 | 7,487 | 504 | 14.4 |
| 2006 | 7,655 | 7,150 | 505 | 14.1 |
| 2007 | 7,737 | 7,218 | 519 | 14.0 |
| 2008 | 8,113 | 7,599 | 514 | 14.1 |

^{*} Negligible

Note: Data on deductible benefits were available from seven states. Five states do not allow policies with deductibles. For twelve states data were computed by subtracting various components from total benefit figures provided. For the other twenty-six states and the District of Columbia, deductible benefits were calculated using a ratio of the manual equivalent premiums.

ers or state fund benefits, depending on the type of insurer. Table 6 presents the shares of all benefits paid by private carriers and state funds with and without deductibles. It also includes the percentage share of federal benefits and the share of benefits paid by self-insured.

Employers who have policies with deductibles are, in effect, self-insuring up to the amount of the deductible. That is, they are bearing that portion of the financial risk. Adding deductibles to self-insured benefit payments shows the share of the total market where employers are assuming financial risk (Column (9) of Table 6). This share of total benefit payments for which employers assumed the financial risks rose rapidly from 24.4 percent in 1992 to 34.7 percent in 1995, and then remained between 32 and

36 percent of total benefits through 2001. Between 2003 and 2008 the employers' share of paid benefits has stabilized between 37 and 38 percent of benefit payments. As the share of benefits accounted for by employers directly or through deductibles has increased since the early 1990s, the share of private carrier payments net of deductibles has declined: from 58.1 percent of total benefits in 1990 to 39.1 percent of total benefits in 2008 (Table 6, Column (3)).

The growth in self-insurance and in deductible policies in the early 1990s, as well as the downturn in self-insurance later in the 1990s, probably reflects dynamics of the insurance market that altered the relative cost to employers of purchasing private insurance vis-à-vis self-insuring as well as the rate of

Table 6

Total Amount and Percentage Distribution of Workers' Compensation Benefit Payments by Type of Insurer, 1990–2008

| | | | | | | Percenta | age Distribut | ion | | | |
|------|------------------------------|------|---|-------------|------|---------------------------------------|---------------|----------------------|------|--------------------------------------|----------------------------|
| Year | Total Benefits (in millions) | All | Private Car Deductibles ^a | All without | All | State Fur Deductibles ^a | All without | Federal ^b | | Self- Insured plus Deductibles | Total |
| | , | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | 9=(2)+(5)+(8) | 10= (1)+(4) +(7)+(8) |
| 1990 | \$38,237 | 58.1 | * | 58.1 | 15.4 | * | 15.4 | 7.6 | 19.0 | 19.0 | 100.0 |
| 1991 | 42,187 | 58.1 | * | 58.1 | 15.9 | * | 15.9 | 7.1 | 18.9 | 18.9 | 100.0 |
| 1992 | 44,660 | 53.8 | 2.8 | 51.0 | 17.5 | * | 17.5 | 7.1 | 21.6 | 24.4 | 100.0 |
| 1993 | 42,925 | 50.7 | 4.7 | 46.0 | 18.9 | * | 18.9 | 7.4 | 23.0 | 27.6 | 100.0 |
| 1994 | 43,482 | 49.2 | 6.1 | 43.1 | 17.0 | 0.4 | 16.6 | 7.3 | 26.5 | 33.0 | 100.0 |
| 1995 | 42,122 | 47.7 | 7.3 | 40.5 | 18.2 | 0.8 | 17.5 | 7.4 | 26.7 | 34.7 | 100.0 |
| 1996 | 41,960 | 50.1 | 8.3 | 41.8 | 19.2 | 0.6 | 18.6 | 7.3 | 23.4 | 32.3 | 100.0 |
| 1997 | 41,971 | 51.6 | 9.0 | 42.7 | 17.1 | 0.6 | 16.5 | 6.6 | 24.7 | 34.2 | 100.0 |
| 1998 | 43,987 | 53.6 | 10.0 | 43.6 | 16.3 | 0.6 | 15.8 | 6.5 | 23.5 | 34.1 | 100.0 |
| 1999 | 46,313 | 57.0 | 11.8 | 45.2 | 15.3 | 0.5 | 14.8 | 6.2 | 21.6 | 33.8 | 100.0 |
| 2000 | 47,699 | 56.3 | 12.4 | 43.9 | 15.5 | 0.6 | 14.9 | 6.2 | 22.0 | 35.0 | 100.0 |
| 2001 | 50,827 | 54.9 | 12.0 | 42.9 | 15.8 | 0.6 | 15.2 | 6.0 | 23.3 | 35.9 | 100.0 |
| 2002 | 52,297 | 53.7 | 12.4 | 41.3 | 17.5 | 0.8 | 16.7 | 6.0 | 22.8 | 36.0 | 100.0 |
| 2003 | 54,739 | 51.9 | 13.8 | 38.1 | 19.1 | 0.9 | 18.2 | 5.8 | 23.2 | 37.9 | 100.0 |
| 2004 | 56,149 | 51.0 | 12.7 | 38.3 | 19.9 | 0.9 | 18.9 | 5.8 | 23.4 | 37.0 | 100.0 |
| 2005 | 55,630 | 51.2 | 13.5 | 37.7 | 19.8 | 0.9 | 18.9 | 5.9 | 23.1 | 37.5 | 100.0 |
| 2006 | 54,274 | 51.1 | 13.2 | 37.9 | 19.6 | 6 0.9 | 18.7 | 6.0 | 23.3 | 37.4 | 100.0 |
| 2007 | 55,217 | 51.6 | 13.1 | 38.5 | 18.7 | 0.9 | 17.8 | 6.0 | 23.7 | 37.7 | 100.0 |
| 2008 | 57,633 | 52.3 | 13.2 | 39.1 | 18.2 | 0.9 | 17.3 | 5.9 | 23.6 | 37.6 | 100.0 |

^{*} Negligible

Source: National Academy of Social Insurance estimates based on Tables 4 and 6.

change in underlying system costs. Insurers began offering large-deductible policy options as a way to compete with self-insurance even though, in many cases, insurers were providing first dollar claims administration while receiving less than a first dollar premium. There are several factors influencing decisions to purchase insurance or to self-insure. One is that workers' compensation losses usually involve a high frequency of low-cost claims and a low frequen-

cy of high-cost claims. This characteristic of workers' compensation allows large employers to estimate the annual cost generated by these smaller claims so that their cost can be budgeted should the employer decide to self-insure, while the employer can protect itself from the more unpredictable large claims through some form of "excess" insurance arrangement.

a The percentage of total benefits paid by employers under deductible provisions with this type of insurance.

b Reflects federal benefits included in Table 4.

Residual markets, which are available in many states as the market of last resort for employers unable to secure mandatory workers' compensation coverage in the voluntary market, can also influence decisions about whether to purchase insurance or self-insure. This is especially true in markets where the regulated price for such coverage is inadequate and employers in the voluntary market may be subject to higher prices needed to fund insurer assessments for residual market losses (a similar experience occurs for policyholders of state funds that are the market of last resort).

An employer may also decide to self-insure or partially self-insure because it wishes to either administer its own claims or to be free to select a claims administrator other than the insurer. The timing of tax advantages can also make the purchase of insurance attractive—that is, employers can take an immediate tax deduction for premiums they pay for insurance, while, when they self-insure, tax deductions accrue only later as they pay claims. Burton (2004: 11-12) provides another explanation of why some employers purchased insurance policies with large deductibles: "The amount reimbursed by the employer is not considered insurance for purposes of assessments for the residual market or other special funds in most states."

State Benefits

Table 7 shows annual changes in state benefit payments between 2004 and 2008. In nine jurisdictions, benefits declined between 2007 and 2008 – the District of Columbia, Hawaii, Idaho, Maine, Massachusetts, Michigan, South Dakota, West Virginia and Wisconsin. The largest decline was in Wisconsin, down 7.6 percent. The other 42 states showed an increase in benefits. The largest increase was in Louisiana, where benefits were up by 19.5 percent.

Benefits and how they are reported vary within a state from year to year for many reasons, including:

 Changes in workers' compensation statutes, new court rulings, or new administrative procedures;

- Changes in the mix of occupations or industries, because jobs differ in their rates of injury and illness;
- Fluctuations in employment, because more people working means more people at risk of a job-related illness or injury;
- Changes in wage rates to which benefit levels are linked;
- Variations in health care practice, which influence the costs of medical care;
- Fluctuations in the number and severity of injuries and illnesses for other reasons (for example, in a small state, one industrial accident involving many workers in a particular year can show up as a noticeable increase in statewide benefit payments);
- Changes in reporting procedures (for example, as state agencies update their record keeping systems, the type of data they are able to report often changes, and new legislation can also affect the data states are able to provide); and
- States where changes in the procedures or criteria for lump-sum settlements may affect the amounts in the agreements classified as indemnity payments or medical benefits, thus altering the share of total benefits reported as medical benefits.

State Benefits by Type of Insurance Arrangements

The shares of workers' compensation benefits by type of insurer vary considerably among the states (Table 8). In the four states with exclusive state funds, the shares accounted for by the state funds vary from 99.9 percent in North Dakota and 98.4 percent in Wyoming – states that do not allow self-insurance – to 82.5 percent in Ohio and 75.9 percent in Washington – states that allow qualifying employers to self-insure. Private carriers account for a very small percentage of benefits in these states (other than North Dakota).⁸ In 2008, West Virginia transitioned from a state with an exclusive state fund allowing self-insurance to a state with private insurance carriers and self-

⁸ The presence of private carriers in states with exclusive state funds may be due to policies sold to employers in those states providing multi-state coverage and also because some exclusive funds may be restricted to providing workers' compensation benefits for the state in which the exclusive state fund issues the policy and might not be permitted to offer employers liability coverage, federal Longshore and Harbor Workers' Compensation Act coverage, or excess coverage for authorized self-insurers.

insurance but no state fund as of 2009. During 2008, the state fund still accounted for 50.8 percent of all benefit payments, in part because many workers with injuries prior to 2008 were still receiving their benefits from the state fund in that year. According to the 2009 Annual Financial Report of the Offices of the Insurance Commissioner in West Virginia, "a significant milestone in the State's transition of its workers' compensation system into a competitive insurance market with only private insurance carrier was reached as the insurance market opened to all licensed carriers on July 1, 2008." As of June 20, 2009, one hundred and fifty four private insurance carriers had written workers' compensation policies in West Virginia.

In the twenty-one states with competitive state funds in 2008, the percentage of benefits accounted for by the state funds varied from 57.0 percent in Rhode Island to 5.5 percent in Minnesota. The share of self-insurance in states that allow this insurance arrangement varies widely by state, ranging from highs of 52.9 percent in Alabama to lows of 3.5 percent in South Dakota. (North Dakota and Wyoming do not allow self-insurance.) This wide variation in the share of self-insurance reflects the complex nature of the workers' compensation insurance market.

Medical Benefits by State

The share of paid benefits for medical care (as opposed to cash benefits) varies among states (Table 8). In 2008, the share of benefits for medical care ranged from lows of less than 40 percent—in the District of Columbia, Massachusetts, Michigan, Rhode Island, and Washington—to highs of over 60 percent in Alabama, Alaska, Arizona, Arkansas, Delaware, Florida, Idaho, Indiana, Kansas, Nebraska, New Hampshire, South Dakota, Texas, Utah and Wisconsin.

Many factors in a state can influence the relative share of benefits for medical care as opposed to cash benefits. Among them are:

 Differences in waiting periods for cash benefits and levels of earnings replacement provided by cash benefits, which meant that, all else being equal, states with more generous cash benefits

- have a lower share of benefits used for medical care:
- Differences in medical costs, medical practices, and the role of workers' compensation programs in regulating allowable medical costs;
- Differences in prevalence of lump-sum settlements which can obscure the allocation between medical and other benefits;
- Differences in the role of the state agency, statutes, and case law in defining the limits of medical care that must be provided to workers disabled by workplace injuries and diseases; and
- Differences in the industry mix in each state, which influences the types and severity of illnesses and injuries that occur, and thus the level of medical costs.

Medical benefits were estimated based on information from the National Council on Compensation Insurance (NCCI) for most states. Where NCCI data were not available, medical benefits were based on reports from the states. Methods for estimating medical benefits are described in Appendix F. Over time, the share of benefits for medical care, as opposed to cash benefits in each state, is determined by the growth rates for these categories of benefits in the state. Among the 51 states (including the District of Columbia), on average from 2007 to 2008, medical benefits increased by 8.9 percent, cash benefits increased slightly by 0.1 percent, and total (cash plus medical) benefits increased by 4.5 percent (Table 9)9.

In 42 states, total benefits (cash plus medical) increased in 2008. Thirty-one states had increases in medical benefits that exceeded the change in cash benefits. For example, in Mississippi, medical benefits increased by 12.3 percent and cash benefits increased by only 6.2 percent, while in Delaware, medical benefits increased by 11.5 percent while cash benefits decreased by 1.0 percent. In the other 11 states with total benefit increases, cash benefits increased more rapidly than medical benefits. In Kansas, for example, cash benefits were up 9.5 percent and medical benefits were up 3.9 percent.

⁹ Table 9 includes data for the 51 states including the District of Columbia, while Table 1 also includes data on federal programs.

Workers' Compensation Benefits* by State (in thousands) and Annual Percent Change, 2004-2008

| | | | Total Benefits | | | | Percent Change | Change | |
|--------------------------------|------------|------------|----------------|-----------|-----------|-----------|----------------|-----------|-----------|
| State | 2004 | 2005 | 2006 | 2007 | 2008 | 2004-2005 | 2005-2006 | 2006-2007 | 2007-2008 |
| Alabama ² | \$532,000 | \$565,013 | \$562,632 | \$584,941 | \$648,094 | 6.2 | -0.4 | 4.0 | 10.8 |
| Alaska ^{2,8} | 192,816 | 182,721 | 186,507 | 188,286 | 205,363 | -5.2 | 2.1 | 1.0 | 9.1 |
| Arizona ^{3,8} | 547,872 | 542,781 | 608,258 | 647,417 | 648,664 | 6.0- | 12.1 | 6.4 | 0.2 |
| Arkansas ¹ ,6,7,8 | 219,177 | 192,860 | 196,782 | 205,890 | 215,404 | -12.0 | 2.0 | 4.6 | 4.6 |
| California ^{2,8} | 12,446,670 | 10,832,367 | 9,914,209 | 9,509,403 | 9,426,019 | -13.0 | -8.5 | -4.1 | 6.0- |
| Colorado ^{1,8} | 853,273 | 895,413 | 864,409 | 836,030 | 875,440 | 4.9 | -3.5 | -3.3 | 4.7 |
| Connecticut ^{1,8} | 712,515 | 708,598 | 709,258 | 725,662 | 781,480 | -0.5 | 0.1 | 2.3 | 7.7 |
| Delaware 1,5,7,8 | 157,399 | 185,639 | 208,308 | 196,501 | 208,562 | 17.9 | 12.2 | -5.7 | 6.1 |
| District of Columbia 1,5 | ,5 93,907 | 89,879 | 88,562 | 83,998 | 81,263 | 4.3 | -1.5 | -5.2 | -3.3 |
| Florida ¹ | 2,866,531 | 2,913,927 | 2,671,559 | 2,716,114 | 2,787,022 | 1.7 | -8.3 | 1.7 | 2.6 |
| Georgia ^{1,5,8} | 1,259,155 | 1,379,383 | 1,369,685 | 1,482,217 | 1,601,644 | 9.5 | -0.7 | 8.2 | 8.1 |
| Hawaii ^{2,8} | 271,290 | 250,779 | 242,685 | 247,294 | 245,763 | -7.6 | -3.2 | 1.9 | 9.0- |
| Idaho ^{1,5,8} | 235,119 | 243,123 | 254,392 | 266,772 | 280,276 | 3.4 | 4.6 | 4.9 | 5.1 |
| Illinois ¹ ,5,8 | 2,254,415 | 2,425,483 | 2,439,925 | 2,736,641 | 2,994,420 | 7.6 | 9.0 | 12.2 | 9.4 |
| Indiana ¹ ,6,8 | 551,071 | 564,830 | 559,747 | 597,200 | 623,737 | 2.5 | 6.0- | 6.7 | 4.4 |
| Iowa1,5,8 | 449,718 | 489,009 | 488,534 | 496,054 | 575,072 | 8.7 | -0.1 | 1.5 | 15.9 |
| Kansas ¹ ,6,8 | 377,116 | 389,693 | 390,849 | 393,707 | 417,517 | 3.3 | 0.3 | 0.7 | 0.9 |
| Kentucky ^{1,5,8} | 719,610 | 693,100 | 626,322 | 638,478 | 696,185 | -3.7 | 9.6- | 1.9 | 0.6 |
| Louisiana ^{1,8} | 634,610 | 597,237 | 610,479 | 613,849 | 733,650 | -5.9 | 2.2 | 9.0 | 19.5 |
| Maine ¹ | 267,622 | 272,119 | 284,643 | 272,824 | 261,736 | 1.7 | 4.6 | -4.2 | -4.1 |
| Maryland ^{1,8} | 797,301 | 784,312 | 828,821 | 843,967 | 935,948 | -1.6 | 5.7 | 1.8 | 10.9 |
| Massachusetts ^{1,7,8} | 968,817 | 904,386 | 904,767 | 886,208 | 842,705 | -6.7 | 0.0 | -2.1 | -4.9 |
| Michigan ^{2,8} | 1,517,386 | 1,473,598 | 1,470,574 | 1,507,968 | 1,404,976 | -2.9 | -0.2 | 2.5 | -6.8 |
| Minnesota ^{3,8} | 934,613 | 941,636 | 937,355 | 951,848 | 1,007,193 | 0.8 | -0.5 | 1.5 | 5.8 |
| Mississippi ^{1,8} | 310,516 | 311,910 | 337,849 | 328,969 | 361,015 | 0.4 | 8.3 | -2.6 | 6.7 |
| Missouri ^{2,8} | 911,059 | 893,669 | 831,862 | 892,225 | 937,299 | -1.9 | 6.9- | 7.3 | 5.1 |
| Montana ^{2,8} | 211,460 | 227,321 | 234,247 | 242,930 | 252,648 | 7.5 | 3.0 | 3.7 | 4.0 |
| 158 | | ٠ | | | | • | | | |

Table 7

| Ī | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---------------------|---------------------------|---------------------------|-------------------|-------------------------------|---------------------------|-------------------|-------------------------|----------------|-----------------------------|--------------------|-------------------------------|-----------------------------|------------------------------|-------------------------|-----------|------------------------|-------------------------|---------------------------|--------------------------------|--------------------------|----------------|-------------------|----------------------|--------------------------------|--------------|
| 0.0 | 17.1 | 3.8 | 12.0 | 12.7 | 13.2 | 10.9 | 0.5 | 11.4 | 2.6 | 3.5 | 3.8 | 3.4 | 4.9 | 8.9 | 7.0 | 9.9 | 8.9 | 7.4 | 6.6 | 4.9 | 9.7- | 8.0 | 4.5 | 2.5 | 3.5 | 4.4 |
| 7.7 | -7.0 | 2.7 | 2.0 | -3.5 | 2.4 | 17.4 | 4.0 | 4.1 | 3.5 | 1.6 | 1.9 | -10.6 | 6.6 | -12.0 | 2.2 | 9.6 | -4.0 | 32.4 | 3.5 | 31.7 | 4.9 | 8.2 | 1.7 | 2.1 | 5.4 | 1.7 |
| 1.7 | -4.1 | 11.5 | 3.0 | 3.1 | -5.0 | 6.0- | -2.6 | 5.4 | 2.4 | 9.0 | 8.9 | 7.8 | 26.4 | 7.1 | -10.6 | 1.7 | 2.1 | -5.5 | 4.3 | -41.1 | -10.8 | 0.7 | -2.6 | 0.4 | -0.3 | -2.4 |
| ` ' | 5.9 | -2.0 | 16.3 | 1.7 | 18.6 | -1.4 | 0.5 | 2.1 | 6.7 | 3.1 | 4.3 | 7.3 | 11.0 | 8.0 | 4.7 | 5.2 | -1.1 | 15.7 | 9.0 | -6.8 | 30.2 | -3.0 | -1.0 | 0.1 | 0.7 | 6.0- |
| 77,000 | 239,290 | 1,916,466 | 271,573 | 3,536,944 | 1,526,320 | 105,837 | 2,490,080 | 782,091 | 601,849 | 2,902,243 | 158,006 | 915,014 | 113,555 | 827,757 | 1,514,130 | 301,116 | 127,204 | 1,148,354 | 2,192,885 | 603,073 | 1,011,334 | 137,133 | \$54,209,118 | 3,423,825 | 2,676,370 | \$57,632,944 |
| UUT,0/C | 204,374 | 1,847,036 | 242,393 | 3,137,467 | 1,348,692 | 95,418 | 2,478,080 | 702,295 | 586,398 | 2,803,819 | 152,235 | 884,513 | 119,351 | 775,361 | 1,414,780 | 282,600 | 119,149 | 1,069,374 | 1,995,744 | 634,279 | 1,094,074 | 126,994 | \$51,876,858 | 3,339,892 | 2,586,700 | \$55,216,750 |
| ((()()) | 219,755 | 1,748,108 | 237,551 | 3,251,427 | 1,317,308 | 81,297 | 2,383,544 | 674,677 | 566,593 | 2,758,784 | 149,395 | 989,189 | 108,550 | 881,156 | 1,384,652 | 257,962 | 124,148 | 807,404 | 1,927,431 | 481,668 | 1,043,244 | 117,322 | \$51,003,712 | 3,270,322 | 2,454,861 | \$54,274,033 |
| CCC,00C | 229,172 | 1,567,238 | 230,591 | 3,154,126 | 1,386,576 | 82,033 | 2,447,038 | 640,088 | 553,270 | 2,741,310 | 137,202 | 917,191 | 85,889 | 822,618 | 1,548,506 | 253,763 | 121,613 | 854,165 | 1,847,523 | 818,146 | 1,170,065 | 116,537 | \$52,371,521 | 3,258,155 | 2,462,059 | \$55,629,676 |
| 70,000 | 216,360 | 1,598,596 | 198,267 | 3,101,314 | 1,168,848 | 83,237 | 2,434,715 | 627,174 | 518,350 | 2,658,104 | 143,423 | 855,062 | 77,409 | 815,838 | 1,624,217 | 241,193 | 123,000 | 738,475 | 1,837,215 | 878,255 | 898,366 | 120,083 | \$52,892,469 | 3,256,202 | 2,445,077 | \$56,148,671 |
| 1957aua | New Hampshire 1,7,9 | New Jersey ^{1,0} | New Mexico ^{2,8} | New York 2,7 | North Carolina ^{1,5} | North Dakota ³ | Ohio ⁴ | Oklahoma ^{1,8} | $Oregon^{3,8}$ | Pennsylvania ^{3,8} | Rhode Island 1,6,8 | South Carolina ^{3,8} | South Dakota ^{2,8} | Tennessee ^{1,5,6,8} | Texas ¹ ,6,8 | Utah1,5,8 | Vermont ^{1,6} | Virginia ^{2,5} | Washington ^{4,8} | West Virginia ^{4,6,8} | Wisconsin ^{4,8} | W_{yoming}^4 | Non-federal total | Federal ^a | Federal employees ^b | TOTAL |

^{*}Benefits are payments in the calendar year to injured workers and to providers of their medical care.

Labor and the Social Security Administration.

a Includes federal benefits as included in Table 8.

Included in the federal benefits total.

¹⁾ Deductible data were not available. Deductibles were estimated using the a ratio based on Manual Equivalent premiums.

²⁾ Deductible data were estimated by subtracting the AM Best data from Agency data.3) Deductible data were given by the Agency

Deductibles not allowed

Self-insurance data were not available and were imputed. Method is outlined in Appendix E.

Estimation methodology may not be same for all the years due to unavailability of the survey response data for some years.

Source: National Academy of Social Insurance estimates based on data from state agencies, A.M. Best, National Association of Insurance Commissioners (NAIC), the U.S. Department of Second Injury Fund in the state has been added to the private carriers, state fund and self-insured data according to their share in the total benefits. 6) Self-Insurance data for some years is imputed using previous years' data 7) Estimation methodology may not be same for all the years due to unava 8) Second Injury Fund in the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the state has heen added to the contract of the contract of the state has heen added to the contract of the contract of

Workers' Compensation Benefits* by Type of Insurer and Medical Benefits, by State, 2008 (in thousands)

| | Privat | Private Carriers | State | State Funds | Self-] | Self-Insured ^b | | Percent | |
|-----------------------------|------------|--------------------------|------------|------------------------|------------|---------------------------|-----------|---------|-------------|
| State | Benefits | Benefits Percent Share | Benefits F | Benefits Percent Share | Benefits 1 | Benefits Percent Share | Totals | Medical | $Medical^c$ |
| Alabama | \$305,029 | 47.1 | | | \$343,065 | 52.9 | \$648,094 | 8.89 | \$445,889 |
| Alaska | 151,424 | 73.7 | | | 53,939 | 26.3 | 205,363 | 64.1 | 131,638 |
| Arizona | 175,152 | 27.0 | \$358,955 | 55.3 | 114,558 | 17.7 | 648,664 | 68.1 | 441,740 |
| Arkansas | 163,223 | 75.8 | | | 52,181 | 24.2 | 215,404 | 65.1 | 140,228 |
| California | 4,690,810 | 49.8 | 1,836,083 | 19.5 | 2,899,126 | 30.8 | 9,426,019 | 54.5 | 5,134,209 |
| Colorado | 278,209 | 31.8 | 389,858 | 44.5 | 207,373 | 23.7 | 875,440 | 49.9 | 436,844 |
| Connecticut | 565,001 | 72.3 | | | 216,479 | 27.7 | 781,480 | 44.4 | 346,977 |
| Delaware | 157,278 | 75.4 | | | 51,284 | 24.6 | 208,562 | 0.09 | 125,137 |
| District of Columbia 67,417 | bia 67,417 | 83.0 | | | 13,846 | 17.0 | 81,263 | 35.5 | 28,848 |
| Florida | 1,959,695 | 70.3 | | | 827,327 | 29.7 | 2,787,022 | 64.3 | 1,792,055 |
| Georgia | 1,125,712 | 70.3 | | | 475,931 | 29.7 | 1,601,644 | 48.4 | 775,196 |
| Hawaii | 131,389 | 53.5 | 28,589 | 11.6 | 85,784 | 34.9 | 245,763 | 43.2 | 106,170 |
| Idaho | 78,956 | 28.2 | 154,891 | 55.3 | 46,429 | 16.6 | 280,276 | 61.5 | 172,370 |
| Illinois | 2,162,134 | 72.2 | | | 832,286 | 27.8 | 2,994,420 | 48.4 | 1,449,299 |
| Indiana | 557,342 | 89.4 | | | 66,395 | 10.6 | 623,737 | 71.0 | 442,853 |
| Iowa | 441,506 | 76.8 | | | 133,567 | 23.2 | 575,072 | 54.1 | 311,114 |
| Kansas | 300,283 | 71.9 | | | 117,234 | 28.1 | 417,517 | 0.09 | 250,510 |
| Kentucky | 381,116 | 54.7 | 88,808 | 12.8 | 226,261 | 32.5 | 696,185 | 57.5 | 400,306 |
| Louisiana | 413,675 | 56.4 | 158,039 | 21.5 | 161,936 | 22.1 | 733,650 | 50.5 | 370,493 |
| Maine | 86,281 | 33.0 | 91,856 | 35.1 | 83,600 | 31.9 | 261,736 | 47.2 | 123,540 |
| Maryland | 507,854 | 54.3 | 228,218 | 24.4 | 199,876 | 21.4 | 935,948 | 44.9 | 420,241 |
| Massachusetts | 723,454 | 85.8 | | | 119,250 | 14.2 | 842,705 | 35.4 | 298,370 |
| Michigan | 851,600 | 9.09 | | | 553,377 | 39.4 | 1,404,976 | 36.2 | 508,649 |
| Minnesota | 697,018 | 69.2 | 55,568 | 5.5 | 254,607 | 25.3 | 1,007,193 | 53.2 | 536,280 |
| Mississippi | 223,753 | 62.0 | | | 137,262 | 38.0 | 361,015 | 59.3 | 214,082 |
| Missouri | 612,933 | 65.4 | 89,286 | 9.5 | 235,080 | 25.1 | 937,299 | 55.9 | 523,950 |
| Montana | 29,665 | 31.5 | 128,197 | 50.7 | 44,787 | 17.7 | 252,648 | 59.3 | 149,821 |
| Nebraska | 260,828 | 75.6 | | | 84,280 | 24.4 | 345,108 | 62.2 | 214,657 |
| Nevada | 282,880 | 72.0 | | | 109,783 | 28.0 | 392,663 | 46.3 | 181,803 |
| | | | | | | | | | |

| New Hampshire | 189,068 | 79.0 | | | 50,222 | 21.0 | 239,290 | 61.5 | 147,163 | |
|--------------------------------|------------|------|--------------|------|--------------|------|--------------|------|--------------|--|
| New Jersey | 1,539,188 | 80.3 | | | 377,278 | 19.7 | 1,916,466 | 48.2 | 923,282 | |
| New Mexico | 148,793 | 54.8 | 32,783 | 12.1 | 966'68 | 33.1 | 271,573 | 59.5 | 161,586 | |
| New York | 1,683,293 | 47.6 | 1,032,617 | 29.2 | 821,034 | 23.2 | 3,536,944 | 51.0 | 1,803,841 | |
| North Carolina | 1,065,094 | 8.69 | | | 461,226 | 30.2 | 1,526,320 | 45.6 | 696,002 | |
| North Dakota ^a | 57 | 0.1 | 105,780 | 6.66 | | | 105,837 | 58.5 | 61,936 | |
| $Ohio^a$ | 23,746 | 1.0 | 2,055,456 | 82.5 | 410,878 | 16.5 | 2,490,080 | 43.9 | 1,092,704 | |
| Oklahoma | 323,987 | 41.4 | 280,056 | 35.8 | 178,048 | 22.8 | 782,091 | 43.8 | 342,556 | |
| Oregon | 238,359 | 39.6 | 282,015 | 46.9 | 81,475 | 13.5 | 601,849 | 51.9 | 312,360 | |
| Pennsylvania | 1,929,826 | 66.5 | 348,716 | 12.0 | 623,700 | 21.5 | 2,902,243 | 46.5 | 1,348,210 | |
| Rhode Island | 47,150 | 29.8 | 90,060 | 57.0 | 20,795 | 13.2 | 158,006 | 32.1 | 50,720 | |
| South Carolina | 669,375 | 73.2 | 55,853 | 6.1 | 189,785 | 20.7 | 915,014 | 41.0 | 375,156 | |
| South Dakota | 109,563 | 96.5 | | | 3,992 | 3.5 | 113,555 | 67.0 | 76,082 | |
| Tennessee | 631,401 | 76.3 | | | 196,355 | 23.7 | 827,757 | 52.9 | 437,883 | |
| Texas | 874,047 | 57.7 | 338,783 | 22.4 | 301,299 | 19.9 | 1,514,130 | 61.2 | 926,647 | |
| Utah | 100,142 | 33.3 | 144,733 | 48.1 | 56,241 | 18.7 | 301,116 | 71.6 | 215,599 | |
| Vermont | 110,641 | 87.0 | | | 16,564 | 13.0 | 127,204 | 53.1 | 67,545 | |
| Virginia | 839,691 | 73.1 | | | 308,663 | 26.9 | 1,148,354 | 58.0 | 666,046 | |
| Washingtona | 21,340 | 1.0 | 1,665,190 | 75.9 | 506,355 | 23.1 | 2,192,885 | 36.4 | 798,723 | |
| West Virginia ^d | 207,109 | 34.3 | 306,332 | 50.8 | 89,632 | 14.9 | 603,073 | 51.8 | 312,689 | |
| Wisconsin | 963,812 | 95.3 | | | 47,521 | 4.7 | 1,011,334 | 73.8 | 745,931 | |
| Wyominga | 2,227 | 1.6 | 134,906 | 98.4 | | | 137,133 | 51.8 | 71,102 | |
| Non-federal total \$30,149,529 | 30,149,529 | 55.6 | \$10,481,628 | 19.3 | \$13,577,961 | 25.0 | \$54,209,118 | 51.8 | \$28,107,032 | |
| Federale | | | | | | | 3,423,825 | 27.9 | 956,148 | |
| Federal employees ^f | پ | | | | | | 2,676,370 | 29.8 | 798,039 | |
| TOTAL | | | | | | | \$57,632,944 | 50.4 | \$29,063,181 | |

Benefits are payments in the calendar year to injured workers and to providers of their medical care.

States with exclusive funds (Ohio, North Dakota, Washington, and Wyoming) may have small amounts of benefits paid in the private carrier category. This results from the fact that some employers doing business in states with exclusive state funds may need to obtain coverage from private carriers under the USL &HW act or employers liability coverage which the state fund is not authorized to provide. In addition, private carriers may provide excess compensation coverage in some of these states. સં

Self-insurance includes individual self-insurers and group self-insurance. Ь.

For further details see Appendix C1

West Virginia completed the transition from monopolistic state fund to competitive insurance status on July 1, 2008. i ig i

Federal benefits include: those paid under the Federal Employees' Compensation Act for civilian employees; the portion of the Black Lung benefit program that is financed by employers; and a portion of benefits under the Longshore and Harbor Workers' Compensation Act that are not reflected in state data, namely, benefits paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs

Included in the federal benefits total. f.

These data may not include second injury fund for all states and may be an understatement of total payments data. مه Source: National Academy of Social Insurance estimates based on data received from state agencies, the U.S. Department of Labor, A.M. Best, and the National Council on Compensation Insurance.

Table 9

Medical, Cash and Total Benefits, by state, $2007-2008^{\rm a}$ (in thousands)

| | | 2007 | | | 2008 | | 2007-20 | 2007-2008 Percent Change | nange |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|--------------------------|-------|
| State | Medical | Cash | Total | Medical | Cash | Total | Medical | Cash | Total |
| Alabama | \$400,827 | \$184,114 | \$584,941 | \$445,889 | \$202,205 | \$648,094 | 11.2 | 8.6 | 10.8 |
| Alaska | 117,754 | 70,532 | 188,286 | 131,638 | 73,725 | 205,363 | 11.8 | 4.5 | 9.1 |
| Arizona | 446,226 | 201,191 | 647,417 | 441,740 | 206,924 | 648,664 | -1.0 | 2.8 | 0.2 |
| Arkansas | 130,845 | 75,045 | 205,890 | 140,228 | 75,176 | 215,404 | 7.2 | 0.2 | 4.6 |
| California 4 | 4,868,295 | 4,641,108 | 9,509,403 | 5,134,209 | 4,291,810 | 9,426,019 | 5.5 | -7.5 | -0.9 |
| Colorado | 397,011 | 439,019 | 836,030 | 436,844 | 438,595 | 875,440 | 10.0 | -0.1 | 4.7 |
| Connecticut | 317,186 | 408,476 | 725,662 | 346,977 | 434,503 | 781,480 | 9.4 | 6.4 | 7.7 |
| Delaware | 112,202 | \$84,299 | 196,501 | 125,137 | 83,425 | 208,562 | 11.5 | -1.0 | 6.1 |
| District of Columbia | 30,762 | 53,236 | 83,998 | 28,848 | 52,414 | 81,263 | -6.2 | -1.5 | -3.3 |
| Florida | 1,691,064 | 1,025,050 | 2,716,114 | 1,792,055 | 994,967 | 2,787,022 | 6.0 | -2.9 | 2.6 |
| Georgia | 718,813 | 763,405 | 1,482,217 | 775,196 | 826,448 | 1,601,644 | 7.8 | 8.3 | 8.1 |
| Hawaii | 104,568 | 142,725 | 247,294 | 106,170 | 139,593 | 245,763 | 1.5 | -2.2 | 9.0- |
| Idaho | 162,492 | 104,280 | 266,772 | 172,370 | 107,906 | 280,276 | 6.1 | 3.5 | 5.1 |
| Illinois | 1,292,581 | 1,444,060 | 2,736,641 | 1,449,299 | 1,545,121 | 2,994,420 | 12.1 | 7.0 | 9.4 |
| Indiana | 419,364 | 177,836 | 597,200 | 442,853 | 180,884 | 623,737 | 5.6 | 1.7 | 4.4 |
| Iowa | 255,813 | 240,241 | 496,054 | 311,114 | 263,958 | 575,072 | 21.6 | 6.6 | 15.9 |
| Kansas | 241,157 | 152,551 | 393,707 | 250,510 | 167,007 | 417,517 | 3.9 | 9.5 | 0.9 |
| Kentucky | 370,515 | 267,963 | 638,478 | 400,306 | 295,878 | 696,185 | 8.0 | 10.4 | 9.0 |
| Louisiana | 323,086 | 290,763 | 613,849 | 370,493 | 363,157 | 733,650 | 14.7 | 24.9 | 19.5 |
| Maine | 118,207 | 154,617 | 272,824 | 123,540 | 138,197 | 261,736 | 4.5 | -10.6 | -4.1 |
| Maryland | 363,599 | 480,368 | 843,967 | 420,241 | 515,707 | 935,948 | 15.6 | 7.4 | 10.9 |
| Massachusetts | 307,833 | 578,375 | 886,208 | 298,370 | 544,335 | 842,705 | -3.1 | -5.9 | -4.9 |
| Michigan | 536,441 | 971,528 | 1,507,968 | 508,649 | 896,327 | 1,404,976 | -5.2 | -7.7 | -6.8 |
| Minnesota | 492,908 | 458,940 | 951,848 | 536,280 | 470,913 | 1,007,193 | 8.8 | 2.6 | 5.8 |
| Mississippi | 190,569 | 138,400 | 328,969 | 214,082 | 146,933 | 361,015 | 12.3 | 6.2 | 6.7 |
| Missouri | 486,767 | 405,458 | 892,225 | 523,950 | 413,349 | 937,299 | 7.6 | 1.9 | 5.1 |

| 105,073 242,930 | 242, | 930 | 149,821 | 102,828 | 252,648 | 8.7 | -2.1 | 4.0 |
|-----------------------|----------------|--------------------|------------|------------|------------|------|-------|------|
| 205,716 | ₁ + | 250,044 378,400 | 181,803 | 210,860 | 392,663 | 5.3 | 2.5 | 3.8 |
| 78,821 | | 204,374 | 147,163 | 92,127 | 239,290 | 17.2 | 16.9 | 17.1 |
| 960,359 | | 1,847,036 | 923,282 | 993,184 | 1,916,466 | 4.1 | 3.4 | 3.8 |
| 100,277 | | 242,393 | 161,586 | 109,987 | 271,573 | 13.7 | 9.7 | 12.0 |
| 2,007,979 | | 3,137,467 | 1,803,841 | 1,733,102 | 3,536,944 | 59.7 | -13.7 | 12.7 |
| 731,882 | | 1,348,692 | 696,002 | 830,318 | 1,526,320 | 12.8 | 13.4 | 13.2 |
| 43,936 | | 95,418 | 61,936 | 43,901 | 105,837 | 20.3 | -0.1 | 10.9 |
| 1,448,755 | | 2,478,080 | 1,092,704 | 1,397,376 | 2,490,080 | 6.2 | -3.5 | 0.5 |
| 400,542 | | 702,295 | 342,556 | 439,535 | 782,091 | 13.5 | 6.7 | 11.4 |
| 272,774 | | 586,398 | 312,360 | 289,489 | 601,849 | -0.4 | 6.1 | 2.6 |
| 1,552,085 | | 2,803,819 | 1,348,210 | 1,554,033 | 2,902,243 | 7.7 | 0.1 | 3.5 |
| 99,492 | | 152,235 | 50,720 | 107,286 | 158,006 | -3.8 | 7.8 | 3.8 |
| 513,862 | | 884,513 | 375,156 | 539,858 | 915,014 | 1.2 | 5.1 | 3.4 |
| 39,878 | | 119,351 | 76,082 | 37,473 | 113,555 | -4.3 | -6.0 | -4.9 |
| 356,610 | | 775,361 | 437,883 | 389,873 | 827,757 | 4.6 | 9.3 | 8.9 |
| 551,551 | | 1,414,780 | 926,647 | 587,482 | 1,514,130 | 7.3 | 6.5 | 7.0 |
| 83,292 | | 282,600 | 215,599 | 85,517 | 301,116 | 8.2 | 2.7 | 9.9 |
| 59,099 | | 119,149 | 67,545 | 59,659 | 127,204 | 12.5 | 6.0 | 8.9 |
| 455,746 | | 1,069,374 | 666,046 | 482,309 | 1,148,354 | 8.5 | 5.8 | 7.4 |
| 1,272,518 | | 1,995,744 | 798,723 | 1,394,162 | 2,192,885 | 10.4 | 9.6 | 6.6 |
| 318,690 | | 634,279 | 312,689 | 290,384 | 603,073 | 6.0- | -8.9 | -4.9 |
| 282,578 | | 1,094,074 | 745,931 | 265,403 | 1,011,334 | -8.1 | -6.1 | -7.6 |
| 63,808 | | 126,994 | 71,102 | 66,030 | 137,133 | 12.5 | 3.5 | 8.0 |
| 25,809,808 26,067,050 | | 51,876,858 | 28,107,032 | 26,102,086 | 54,209,118 | 8.9 | 0.1 | 4.5 |

For more detail on state by state methodologies, see, Sources and Methods: A Companion to Workers' Compensation: Benefits, Coverage, and Costs, 2008 section of the Academy's website at www.nasi.org.

Source: National Academy of Social Insurance estimates based on data from state agencies and A.M. Best.

Table 10Workers' Compensation Benefits Per \$100 of Covered Wages, by State, 2004–2008

| | ' | | | | | Dollar Amo | |
|----------------------|--------|--------|--------|--------|--------|------------|-----------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 2007-2008 | 2004-2008 |
| Alabama | \$0.94 | \$0.95 | \$0.88 | \$0.87 | \$0.95 | \$0.07 | \$0.00 |
| Alaska | 1.82 | 1.64 | 1.58 | 1.50 | 1.54 | 0.04 | -0.28 |
| Arizona | 0.66 | 0.59 | 0.60 | 0.61 | 0.61 | 0.00 | -0.05 |
| Arkansas | 0.68 | 0.57 | 0.55 | 0.55 | 0.56 | 0.01 | -0.12 |
| California | 1.91 | 1.57 | 1.35 | 1.23 | 1.21 | -0.02 | -0.70 |
| Colorado | 1.03 | 1.03 | 0.92 | 0.84 | 0.84 | 0.01 | -0.19 |
| Connecticut | 0.87 | 0.82 | 0.78 | 0.75 | 0.80 | 0.05 | -0.06 |
| Delaware | 0.91 | 1.01 | 1.08 | 1.00 | 1.06 | 0.06 | 0.14 |
| District of Columbia | 0.34 | 0.31 | 0.28 | 0.25 | 0.23 | -0.02 | -0.11 |
| Florida | 1.17 | 1.09 | 0.93 | 0.92 | 0.97 | 0.05 | -0.20 |
| Georgia | 0.92 | 0.95 | 0.90 | 0.91 | 0.99 | 0.08 | 0.08 |
| Hawaii | 1.44 | 1.24 | 1.13 | 1.09 | 1.06 | -0.03 | -0.38 |
| Idaho | 1.38 | 1.33 | 1.26 | 1.24 | 1.31 | 0.07 | -0.07 |
| Illinois | 0.96 | 0.99 | 0.94 | 1.00 | 1.08 | 0.08 | 0.12 |
| Indiana | 0.57 | 0.57 | 0.54 | 0.56 | 0.58 | 0.02 | 0.01 |
| Iowa | 1.00 | 1.04 | 0.99 | 0.95 | 1.07 | 0.12 | 0.07 |
| Kansas | 0.92 | 0.91 | 0.86 | 0.81 | 0.82 | 0.01 | -0.10 |
| Kentucky | 1.30 | 1.20 | 1.03 | 1.00 | 1.08 | 0.07 | -0.22 |
| Louisiana | 1.10 | 1.00 | 0.95 | 0.88 | 0.99 | 0.11 | -0.11 |
| Maine | 1.46 | 1.46 | 1.47 | 1.35 | 1.26 | -0.09 | -0.21 |
| Maryland | 0.83 | 0.77 | 0.77 | 0.75 | 0.81 | 0.07 | -0.02 |
| Massachusetts | 0.64 | 0.58 | 0.55 | 0.51 | 0.47 | -0.04 | -0.18 |
| Michigan | 0.91 | 0.87 | 0.86 | 0.87 | 0.82 | -0.05 | -0.09 |
| Minnesota | 0.91 | 0.89 | 0.85 | 0.81 | 0.84 | 0.03 | -0.07 |
| Mississippi | 1.08 | 1.04 | 1.06 | 0.98 | 1.04 | 0.06 | -0.04 |
| Missouri | 1.07 | 1.00 | 0.89 | 0.91 | 0.92 | 0.01 | -0.15 |
| Montana | 2.01 | 2.00 | 1.90 | 1.83 | 1.83 | 0.01 | -0.17 |
| Nebraska | 1.05 | 1.10 | 0.93 | 0.93 | 1.07 | 0.15 | 0.02 |
| Nevada | 0.86 | 0.84 | 0.79 | 0.71 | 0.75 | 0.03 | -0.12 |
| New Hampshire | 0.92 | 0.93 | 0.84 | 0.75 | 0.86 | 0.11 | -0.05 |
| New Jersey | 0.88 | 0.82 | 0.87 | 0.88 | 0.90 | 0.01 | 0.02 |
| New Mexico | 0.93 | 1.01 | 0.95 | 0.90 | 0.96 | 0.06 | 0.03 |
| New York | 0.76 | 0.74 | 0.71 | 0.63 | 0.69 | 0.07 | -0.07 |
| North Carolina | 0.93 | 1.05 | 0.71 | 0.89 | 1.00 | 0.07 | 0.07 |
| North Dakota | 0.94 | 0.88 | 0.93 | 0.89 | 0.91 | 0.02 | -0.04 |
| Ohio | 1.29 | 1.26 | 1.19 | 1.20 | 1.19 | 0.02 | -0.10 |
| Oklahoma | 1.51 | 1.45 | 1.39 | 1.36 | 1.43 | 0.07 | -0.09 |
| Oregon | 0.94 | 0.94 | 0.90 | 0.88 | 0.89 | 0.07 | -0.05 |
| Pennsylvania | 1.29 | 1.28 | 1.22 | 1.18 | 1.19 | 0.01 | -0.10 |
| Rhode Island | 0.87 | 0.77 | 0.80 | 0.79 | 0.81 | 0.01 | -0.10 |
| South Carolina | 1.60 | 1.63 | 1.66 | 1.41 | 1.43 | 0.02 | -0.07 |
| Journ Carollila | 1.00 | 1.03 | 1.00 | 1,41 | 1.43 | 0.03 | -0.1/ |

Table 10 continuedWorkers' Compensation Benefits Per \$100 of Covered Wages, by State, 2004–2008

| | | | | | | Dollar Amo | unt Change |
|----------------------|------|------|------|------|------|------------|------------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 2007-2008 | 2004-2008 |
| South Dakota | 0.78 | 0.83 | 0.98 | 1.01 | 0.92 | -0.09 | 0.14 |
| Tennessee | 0.95 | 0.91 | 0.92 | 0.77 | 0.81 | 0.04 | -0.14 |
| Texas | 0.61 | 0.54 | 0.44 | 0.42 | 0.43 | 0.02 | -0.18 |
| Utah | 0.74 | 0.72 | 0.66 | 0.66 | 0.68 | 0.03 | -0.06 |
| Vermont | 1.28 | 1.22 | 1.19 | 1.10 | 1.14 | 0.04 | -0.14 |
| Virginia | 0.57 | 0.62 | 0.55 | 0.70 | 0.73 | 0.04 | 0.16 |
| Washington | 1.80 | 1.70 | 1.63 | 1.57 | 1.69 | 0.12 | -0.11 |
| West Virginia | 4.46 | 3.98 | 2.21 | 2.79 | 2.58 | -0.22 | -1.89 |
| Wisconsin | 0.99 | 1.25 | 1.06 | 1.07 | 0.97 | -0.10 | -0.02 |
| Wyoming | 1.63 | 1.44 | 1.25 | 1.21 | 1.20 | -0.01 | -0.43 |
| Total non-federal | 1.10 | 1.04 | 0.95 | 0.91 | 0.94 | 0.03 | -0.16 |
| Federal Employees(a) | 1.54 | 1.50 | 1.45 | 1.46 | 1.46 | 0.00 | -0.08 |
| Total | 1.13 | 1.07 | 0.98 | 0.94 | 0.97 | 0.03 | -0.17 |

a Includes FECA only.

Source: National Academy of Social Insurance estimates based on Tables 3, 8, D1, D2, D3 and D4.

Among the nine jurisdictions where total benefits declined, two jurisdictions had medical benefits that declined more rapidly than cash benefits, such as the District of Columbia, where medical benefits dropped by 6.2 percent while cash benefits dropped by 1.5 percent. However, seven states had medical benefits that declined less rapidly than cash benefits, such as Massachusetts, where medical benefits were down 3.1 percent and cash benefits were down 5.9 percent. While the long-term national trend has been for medical benefits to grow more rapidly than cash benefits (as shown in Figure 4) experience varies greatly among states and from year to year.

State Benefits Relative to Wages

One way to standardize state benefit payments is to divide each state's total benefits by total wages of covered workers, which takes account of the number of workers and prevailing wage levels in the state. The measure of benefits as a percentage of covered wages helps show whether large growth in a state's benefits payments may be due to growth in the state's population of covered workers and covered payroll or due to other factors. However, when benefits are standardized relative to covered payroll, the

state patterns of change are somewhat different from those revealed by looking only at dollar changes in benefits.

Benefits per \$100 of covered payroll by state in 2004 through 2008 are shown in Table 10. Wyoming is the only state where there was a decrease in benefits relative to covered payroll even though there was an increase in the total dollar amount of benefits in the state. In Wyoming, between 2007 and 2008 there was an 8.0 percent increase in the total benefits but benefits per \$100 of covered wages decreased by one cent.

Benefits per \$100 of payroll are neither a measure of adequacy for workers nor a measure of costs for employers. Although benefit payments that are standardized relative to wages in a state provide a useful perspective for looking at changes within particular states over time, the data do not provide meaningful comparisons of the adequacy of benefits across states. By the same token, these data do not show the comparative cost to employers of locating their business in one state versus another. Some reasons why it is inappropriate and misleading to use

data on benefits per \$100 of payroll to compare the adequacy of benefits for workers or the costs to employers across states are set out below.

Caveats on comparing benefit adequacy across states. As discussed in the Academy's study panel report Adequacy of Earnings Replacement in Workers' Compensation Programs (Hunt, 2004), an appropriate study of adequacy compares the benefits disabled workers actually receive with the wages they lose because of their injuries or occupational diseases. Such data are not available for most states. Aggregate benefits relative to aggregate covered wages could be high or low in a given state for a number of reasons unrelated to the adequacy of benefits that injured workers receive.

First, states with more workers in high-risk industries—such as mining or construction—may pay more benefits simply because they have a higher proportion of injured workers and more workers with serious, permanent disabilities that occurred on the job, which resulted in high earnings losses.

Second, states differ considerably in their compensability rules—that is, the criteria they use for determining whether an injury is work-related and therefore will be paid by the workers' compensation program. A state with a relatively lenient compensability threshold might pay more cases, and therefore have higher aggregate benefits relative to the total number of workers in the state, yet pay below average benefits to workers with serious injuries.

Third, injured workers may have their benefits reduced by litigation costs for which they are responsible. The amount of these costs will vary from state to state depending on the state's level of litigation, the magnitude of these costs, and the proportion of the legal fees for which the worker is responsible.

Fourth, in some states, features of the workers' compensation system, employer programs, or labor relations conditions may lead to more effective returns to productive employment for injured workers. Other things equal, a state with better return to work results will have more adequate benefits than another state that pays the same benefits per injured worker because the re-employed workers will experience less loss of earnings due to their workplace injuries.

Caveats on using benefits data to compare employer costs across states. These are benefits paid to workers, not employer costs. An employer's costs for workers' compensation in different states are best compared by knowing the premiums that comparable employers are charged in each state (Thomason, Schmidle, and Burton, 2001). These premiums are affected by the employer's insurance classification and its own experience with past injury rates and the severity of injuries its workers sustained. Data on average benefits per worker or data on paid benefits relative to total wages in the state do not provide information appropriate for determining the employers' costs of workers' compensation in a state for the following reasons.

First, a company in a high-risk industry would not necessarily experience lower costs if it moved to a state with predominantly low-risk industries, since the migrating company would still be in the high risk insurance classification.

Second, changes in state statutes would affect new employers, but these changes are not fully reflected in our data on benefits relative to wages. Premiums charged to employers in a given year are based on the costs of injuries it is expected to incur in that year under policies in effect that year. If a state had changed its statutes either to lower future benefits or to make future benefits more adequate, those policies would not be fully reflected in benefits currently being paid to workers in that state as shown in Table 10. For example, a state that tightened its rules would be expected to have lower future costs for new employers, yet it would not show lower benefits per worker immediately because it would continue to pay workers who were permanently disabled in the past under the old rules.

Third, employers' costs for workers' compensation nationally exceed the benefits paid to workers because of factors such as administrative costs and profits (or losses) of private carriers. However, the relationship of employers' costs relative to workers' benefits varies among states because of various factors, such as the extent of competition in the workers' compensation insurance market and the administrative complexity of different state systems.

In brief, state-level benefits paid per worker or relative to total wages in the state are a way to standardize aggregate benefit payments between large

and small states. However, much more refined data and analyses are needed to assess the adequacy of benefits that individual workers receive or the costs that particular employers would incur in different states.

Employer Costs

Employer costs for workers' compensation in 2008 were \$78.9 billion, a decrease of 6.7 percent from \$84.6 billion in 2007 (Table 11). Relative to total wages of covered workers, employer costs decreased by 11 cents to \$1.33 per \$100 of covered wages in 2008 from \$1.44 per \$100 of covered wages in 2007 (Table 12).

Table 11

Employer Costs for Workers' Compensation by Type of Insurer, 1987–2008 (in millions)

| | | % | Priva | te Carriers | Sta | te Funds | F | ederal ^a | Self- | Insurance |
|------|----------|--------|----------|-------------|---------|------------|---------|---------------------|---------|------------|
| Year | Total | Change | Total | % of total | Total | % of total | l Total | % of total | Total | % of total |
| 1987 | \$38,095 | * | \$25,448 | 66.8 | \$5,515 | 14.5 | \$1,728 | 4.5 | \$5,404 | 14.2 |
| 1988 | 43,284 | 13.6 | 28,538 | 65.9 | 6,660 | 15.4 | 1,911 | 4.4 | 6,175 | 14.3 |
| 1989 | 47,955 | 10.8 | 31,853 | 66.4 | 7,231 | 15.1 | 1,956 | 4.1 | 6,915 | 14.4 |
| 1990 | 53,123 | 10.8 | 35,054 | 66.0 | 8,003 | 15.1 | 2,156 | 4.1 | 7,910 | 14.9 |
| 1991 | 55,216 | 3.9 | 35,713 | 64.7 | 8,698 | 15.8 | 2,128 | 3.9 | 8,677 | 15.7 |
| 1992 | 57,395 | 3.9 | 34,539 | 60.2 | 9,608 | 16.7 | 2,454 | 4.3 | 10,794 | 18.8 |
| 1993 | 60,819 | 6.0 | 35,596 | 58.5 | 10,902 | 17.9 | 2,530 | 4.2 | 11,791 | 19.4 |
| 1994 | 60,517 | -0.5 | 33,997 | 56.2 | 11,235 | 18.6 | 2,490 | 4.1 | 12,795 | 21.1 |
| 1995 | 57,089 | -5.7 | 31,554 | 55.3 | 10,512 | 18.4 | 2,556 | 4.5 | 12,467 | 21.8 |
| 1996 | 55,293 | -3.1 | 30,453 | 55.1 | 10,190 | 18.4 | 2,601 | 4.7 | 12,049 | 21.8 |
| 1997 | 53,544 | -3.2 | 29,862 | 55.8 | 8,021 | 15.0 | 3,358 | 6.3 | 12,303 | 23.0 |
| 1998 | 53,431 | -0.2 | 30,377 | 56.9 | 7,926 | 14.8 | 3,471 | 6.5 | 11,657 | 21.8 |
| 1999 | 55,835 | 4.5 | 33,422 | 59.9 | 7,484 | 13.4 | 3,496 | 6.3 | 11,433 | 20.5 |
| 2000 | 60,065 | 7.6 | 35,673 | 59.4 | 8,823 | 14.7 | 3,620 | 6.0 | 11,949 | 19.9 |
| 2001 | 65,705 | 9.4 | 37,768 | 57.5 | 10,598 | 16.1 | 3,778 | 5.8 | 13,561 | 20.6 |
| 2002 | 72,577 | 10.5 | 41,295 | 56.9 | 13,698 | 18.9 | 3,898 | 5.4 | 13,686 | 18.9 |
| 2003 | 80,557 | 11.0 | 45,276 | 56.2 | 16,414 | 20.4 | 3,970 | 4.9 | 14,897 | 18.5 |
| 2004 | 84,216 | 4.5 | 47,411 | 56.3 | 17,494 | 20.8 | 4,073 | 4.8 | 15,237 | 18.1 |
| 2005 | 86,389 | 2.6 | 50,498 | 58.5 | 16,533 | 19.1 | 4,096 | 4.7 | 15,261 | 17.7 |
| 2006 | 86,503 | 0.1 | 51,385 | 59.4 | 15,814 | 18.3 | 4,138 | 4.8 | 15,165 | 17.5 |
| 2007 | 84,581 | -2.2 | 51,079 | 60.4 | 13,712 | 16.2 | 4,236 | 5.0 | 15,554 | 18.4 |
| 2008 | 78,882 | -6.7 | 46,637 | 59.1 | 12,074 | 15.3 | 4,341 | 5.5 | 15,831 | 20.1 |

a In all years, federal costs include those paid under the Federal Employees' Compensation Act for civilian employees and the portion of the Black Lung benefit program that is financed by employers and are paid through the federal Black Lung Disability Trust Fund, including interest payments on past Trust Fund advances from the U.S. Treasury. In years before 1997, federal costs also include the other part of the Black Lung program that is financed solely by federal funds. In 1997–2008, federal costs also include a portion of employer-financed benefits under the Longshore and Harbor Workers Compensation Act that are not reflected in state data—namely, costs paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs.

Source: National Academy of Social Insurance estimates of costs for private carriers and state funds are based on information from A.M. Best and direct contact with state agencies. Costs for federal programs are from the Department of Labor and the Social Security Administration. Self-insured administrative costs are based on information from the National Association of Insurance Commissioners.

Table 12Workers' Compensation Benefit* and Cost** Ratios, 1980–2008

| Year | Employer Costs per \$100 of Wages | Benefits per per \$100 of Wages | Benefits per \$1 in Employer Cost | Medical Benefits per \$100 of Wages | Cash Benefits per \$100 of Wages |
|------|---|---------------------------------------|---|---|--|
| 1980 | \$1.76 | \$0.96 | \$0.54 | \$0.28 | \$0.68 |
| 1981 | 1.67 | 0.97 | 0.58 | 0.29 | 0.68 |
| 1982 | 1.58 | 1.04 | 0.66 | 0.32 | 0.72 |
| 1983 | 1.50 | 1.05 | 0.70 | 0.34 | 0.71 |
| 1984 | 1.49 | 1.09 | 0.73 | 0.36 | 0.73 |
| 1985 | 1.64 | 1.17 | 0.71 | 0.39 | 0.78 |
| 1986 | 1.79 | 1.23 | 0.69 | 0.43 | 0.80 |
| 1987 | 1.86 | 1.29 | 0.69 | 0.47 | 0.82 |
| 1988 | 1.94 | 1.34 | 0.69 | 0.50 | 0.84 |
| 1989 | 2.04 | 1.46 | 0.72 | 0.57 | 0.89 |
| 1990 | 2.18 | 1.57 | 0.72 | 0.62 | 0.94 |
| 1991 | 2.16 | 1.65 | 0.76 | 0.66 | 0.99 |
| 1992 | 2.13 | 1.65 | 0.78 | 0.69 | 0.96 |
| 1993 | 2.17 | 1.53 | 0.71 | 0.66 | 0.87 |
| 1994 | 2.05 | 1.47 | 0.72 | 0.58 | 0.89 |
| 1995 | 1.83 | 1.35 | 0.74 | 0.54 | 0.81 |
| 1996 | 1.66 | 1.26 | 0.76 | 0.50 | 0.76 |
| 1997 | 1.49 | 1.17 | 0.78 | 0.48 | 0.68 |
| 1998 | 1.38 | 1.13 | 0.82 | 0.48 | 0.65 |
| 1999 | 1.35 | 1.12 | 0.83 | 0.48 | 0.63 |
| 2000 | 1.34 | 1.06 | 0.79 | 0.47 | 0.60 |
| 2001 | 1.43 | 1.10 | 0.77 | 0.50 | 0.60 |
| 2002 | 1.57 | 1.13 | 0.72 | 0.52 | 0.61 |
| 2003 | 1.71 | 1.16 | 0.68 | 0.55 | 0.61 |
| 2004 | 1.70 | 1.13 | 0.67 | 0.52 | 0.59 |
| 2005 | 1.66 | 1.07 | 0.64 | 0.51 | 0.56 |
| 2006 | 1.56 | 0.98 | 0.63 | 0.48 | 0.51 |
| 2007 | 1.44 | 0.94 | 0.65 | 0.47 | 0.49 |
| 2008 | 1.33 | 0.97 | 0.73 | 0.50 | 0.48 |

^{*} Benefits are payments in the calendar year to injured workers and to providers of their medical care.

Source: National Academy of Social Insurance estimates based on Tables 2, 4, and 11.

^{**} Costs are employer expenditures in the calendar year for workers' compensation benefits, administrative costs, and/or insurance premiums. Costs for self-insuring employers are benefits paid in the calendar year plus the administrative costs associated with providing those benefits. Costs for employers who purchase insurance include the insurance premiums paid during the calendar year plus the payments of benefits under large deductible plans during the year. The insurance premiums must pay for all of the compensable consequences of the injuries that occur during the year, including the benefits paid in the current as well as future years.

For self-insured employers, the costs include benefit payments made during the calendar year and the administrative costs associated with providing those benefits. Because self-insured employers often do not separately record administrative costs for workers' compensation, their administrative costs must be estimated. The costs are assumed to be the same share of benefits as are administrative costs reported by private insurers to the National Association of Insurance Commissioners. These administrative costs include expenses for direct defense and cost containment, taxes, licenses, and fees. For more information on the self-insurance costs estimates, see Appendix C. For the federal employee program, employer costs are benefits paid plus administrative costs (U.S. DOL, 2009b). For employers who purchase insurance from private carriers and state funds, costs consist of premiums written in the calendar year plus benefit payments made under deductible provisions. The growing use of large deductible policies complicates the measurement of benefits and costs. As mentioned before, under deductible policies the insurer pays all of the workers' compensation insured benefits, but employers are responsible for reimbursing the insurers for those benefits up to a specified deductible amount. In return for accepting a policy with a deductible, the employer pays a lower premium. Our insurance industry sources of data do not provide separate information on deductibles and many states lack data on deductible payments. Consequently, these benefits had to be estimated, as described in Appendix G. Using these estimates, costs for employers insuring through private carriers were \$46.6 billion in 2008, or approximately 59.1 percent of total costs. Self-insurers accounted for 20.1 percent of total employer costs, state funds represented 15.3 percent of costs, and federal programs were 5.5 percent (Table 11).

Trends in Benefits and Costs

Table 12 and Figure 1 show the trend in benefits paid and employer costs per \$100 of covered wages between 1980 and 2008. Since 2003 or 2004, workers' compensation benefits and employers' cost relative to covered wages have been on the decline and continued to fall in 2008. Nationally, employer costs of \$1.33 per \$100 of covered wages in 2008

were at the lowest point since 1980, which is the earliest date when comparable data are available. ¹⁰ Benefits per \$100 of payroll were \$0.97 in 2008, up from \$0.94 per \$100 of payroll in 2007, which was the lowest level of paid benefits relative to wages since the data series with comparable results began in 1980.

Benefits paid in 2008 per \$1 of employer cost in 2008 was \$0.73, an increase of eight cents from 2007, but lower than the amount of paid benefits per dollar of employer costs recorded in 1996 to 2001.

What accounts for the difference between benefits paid to workers and costs to employers? For self insured employers (or the federal employee program), the difference reflects our estimates of administrative costs (or actual reported costs in the case of the federal program). For these employers, the costs in a calendar year pertain to benefits paid in the same year.

For insured benefits, employer costs are largely determined by premiums paid in the year. Premiums paid by employers do not necessarily match benefits received by workers in a given year for a number of reasons. First, premiums in a calendar year must pay for all of the compensable consequences of the injuries that occur during the year, including the benefits paid in the current as well as future years. Thus, the premiums for 2008 include benefit payments during the year for 2008 injuries, plus reserves for payment of benefits for the 2008 injuries in 2009 and after. In addition, premiums must cover expenses such as administrative and loss adjustment costs, taxes, profits or losses of insurance carriers, and contributions for special funds, which can include the support of workers' compensation agencies.

From the insurer's perspective, the premiums reflect all future costs the insurer expects to incur for injuries that occur in the year. Thus, an increase in expected liabilities could lead to an increase in premiums and a decline in expected liabilities could lead to a decline in premiums. Second, premiums can be influenced by insurers' past and anticipated investment returns on reserves that they set aside to

¹⁰ As noted earlier, the national decline in employer costs was driven by a sharp decline in employer costs in California. If California is excluded, employer costs fell 14 cents per \$100 of covered wages between 2007 and 2008 (Table 1).

cover future liabilities. Thus, a decline in investment returns could contribute to an increase in premiums, while an improvement in investment returns could lead to a decline in premiums. Finally, premiums reflect insurers' profits (or losses), since profitability (or lack thereof) will affect the extent of dividends, schedule ratings, and deviations offered by the insurers.

Alternative Measures of Employers' Costs

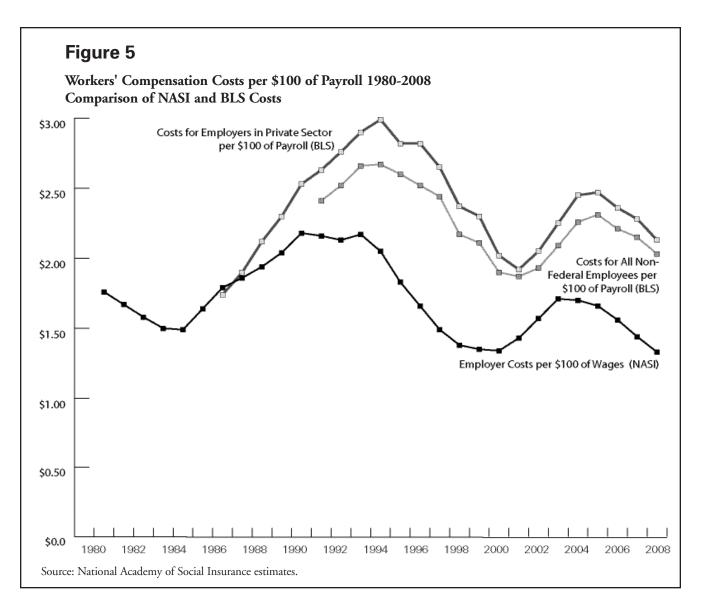
The National Academy of Social Insurance has published estimates of the employers' costs of workers' compensation as a percent of covered payroll that are comparable across years for the period from 1980 to 2008. These data are presented in Table 12 and are reproduced in Column 2 of Table 13.

Table 13Workers' Compensation Cost Ratio Comparison of NASI and BLS Costs Estimates

| Year | Employer Costs per \$100 of Wages (NASI) | Costs for Employers in Private Sector per \$100 of Payroll (BLS) | Costs for All Non-Federa Employees per \$100 of Payroll (BLS) |
|------|--|--|---|
| (1) | (2) | (3) | (4) |
| 1980 | \$1.76 | n/a | n/a |
| 1981 | 1.67 | n/a | n/a |
| 1982 | 1.58 | n/a | n/a |
| 1983 | 1.50 | n/a | n/a |
| 1984 | 1.49 | n/a | n/a |
| 1985 | 1.64 | n/a | n/a |
| 1986 | 1.79 | \$1.74 | n/a |
| 1987 | 1.86 | 1.90 | n/a |
| 1988 | 1.94 | 2.12 | n/a |
| 1989 | 2.04 | 2.30 | n/a |
| 1990 | 2.18 | 2.53 | n/a |
| 1991 | 2.16 | 2.63 | \$2.41 |
| 1992 | 2.13 | 2.76 | 2.52 |
| 1993 | 2.17 | 2.90 | 2.66 |
| 1994 | 2.05 | 2.99 | 2.67 |
| 1995 | 1.83 | 2.82 | 2.60 |
| 1996 | 1.66 | 2.82 | 2.52 |
| 1997 | 1.49 | 2.65 | 2.44 |
| 1998 | 1.38 | 2.37 | 2.17 |
| 1999 | 1.35 | 2.30 | 2.11 |
| 2000 | 1.34 | 2.02 | 1.90 |
| 2001 | 1.43 | 1.92 | 1.87 |
| 2002 | 1.57 | 2.05 | 1.93 |
| 2003 | 1.71 | 2.25 | 2.09 |
| 2004 | 1.70 | 2.45 | 2.26 |
| 2005 | 1.66 | 2.47 | 2.31 |
| 2006 | 1.56 | 2.36 | 2.21 |
| 2007 | 1.44 | 2.28 | 2.15 |
| 2008 | 1.33 | 2.13 | 2.03 |
| | | | |

Source: Burton calculations from BLS Employer Costs for Employee Compensation data.

Note: n/a = not available.



The Bureau of Labor Statistics (BLS) publishes *Employer Costs for Employee Compensation*, which contains information on wages and salaries and employee benefits provided by employers, including workers' compensation. Data on private sector employers are available since 1986 and data on all non-federal employees are available since 1991.¹¹ These data are provided in Columns 3 and 4 of Table 13.

Figure 5 presents the national BLS data on employers' costs for the private sector and for all non-federal employees as well as the NASI data on employers' costs for all employees. There are similarities and differences between the NASI and BLS data, as discussed in Burton (2008a). One difference is that, except for 1986 and 1987, the costs are higher in the BLS data than in the NASI data. There are also differences in the peak and trough years of the BLS data and the NASI data, For example, the BLS data increased from 2001 until 2005 and then declined

The BLS data are available on a quarterly basis. The most recent data used for Table 13 are based on a sample of 13,600 establishments in private industry and 1,900 establishments in state and local governments (U.S. Department of Labor, 2009g). The BLS data on employer costs in the private sector are available by industry, occupational group, establishment size, bargaining status, and for four census regions and for nine census divisions, but are not available for individual states. The BLS methodology and the procedure used to calculate workers' compensation benefits per \$100 of payroll are discussed in Burton (2008a: Appendix A).

Table 14Number of Fatal Occupational Injuries, 1992–2008

| Year Num | ber of Fatalities |
|---------------------|-------------------|
| 1992 | 6,217 |
| 1993 | 6,331 |
| 1994 | 6,632 |
| 1995 | 6,275 |
| 1996 | 6,202 |
| 1997 | 6,238 |
| 1998 | 6,055 |
| 1999 | 6,054 |
| 2000 | 5,920 |
| 2001 | 8,801 |
| September 11 events | 2,886 |
| Other | 5,915 |
| 2002 | 5,534 |
| 2003 | 5,575 |
| 2004 | 5,764 |
| 2005 | 5,734 |
| 2006 | 5,840 |
| 2007 | 5,657 |
| 2008 | 5,214 |

until 2008, while the NASI data increased from 2000 to 2004 and then declined until 2008. Despite these differences, the NASI and BLS data agree in general patterns during the last three decades: employers costs increased from the mid-1980s to the early 1990s, then declined rapidly until the late 1990s or early 2000s, then increased for a few years before dropping again during much of the current

Work Injuries, Occupational Illness and Fatalities

National data are not available on the number of persons who file workers' compensation claims or receive benefits in a given year, but trends can be seen in related data series: the Bureau of Labor Statistics collects information about work-related fatalities from a census and data on nonfatal work injuries or occupational Illnesses from a sample survey of employers and the National Council on Compensation Insurance (NCCI) has information on workers' compensation claims insured by private carriers and some competitive state funds in forty-one states (NCCI, 2009).

Fatalities at Work

A total of 5,214 fatal work injuries occurred in 2008 (Table 14), which is a 7.8 percent decrease from the number reported in 2007, and the lowest since this data series began in 1992. Transportation incidents continued to be the leading cause of onthe-job fatalities in 2008, accounting for 40.9 percent of the total. Contact with objects and equipment, assaults and violent acts (homicides and self-inflicted injuries), and falls were the other leading causes of death, accounting for 18.0 percent, 15.7 percent, and 13.4 percent respectively (U.S.DOL, 2009c).

Nonfatal Injuries and Illnesses

The Bureau of Labor Statistics reports a total of 3.7 million nonfatal workplace injuries and illnesses in private industry workplaces during 2008, resulting in a rate of 3.9 cases per one hundred full-time equivalent workers (U.S. DOL, 2009d). Many of these cases involved relatively minor injuries that did not result in lost workdays. The frequency of reported non-fatal occupational injuries and illnesses (incidence rates) has declined every year since 1992 (Table 15).

A total of 1.1 million workplace injuries or illnesses that required recuperation away from work beyond the day of the incident were reported in private industry in 2008 (U.S. DOL, 2009e). The rate of such reported injuries or illnesses per one hundred full-time workers declined from 3.0 in 1992 to 1.1 in 2008 (Table 15). Some of the most common workplace injuries and illnesses are: Sprains and strains (38.6 percent); bruises and contusions (8.7 percent); fractures (8.3 percent); cuts and lacerations (8.1 percent); heat burns (1.4 percent); carpal tunnel syndrome (0.9 percent); and tendinitis, chemical burns and amputations (1.5 percent) (U.S.DOL, 2009e).

decade.

Table 15

Private Industry Occupational Injuries and Illnesses: Total Non-fatal Cases and Incidence Rates, 1987–2008

| | 1 | Number of Cases (in | millions) | | Incidence Rate | eb |
|-------------------|--------------|--|--|--------------|--|--|
| Year ^a | All Cases | Cases with Any Days Away from Work | Cases with Job Transfer or Restriction | All Cases | Cases with Any Days Away from Work | Cases with Job Transfer or Restriction |
| 1987 | 6.0 | 2.5 | | 8.3 | 3.4 | 0.4 |
| 1988 | 6.4 | 2.6 | | 8.6 | 3.5 | 0.5 |
| 1989 | 6.6 | 2.6 | | 8.6 | 3.4 | 0.6 |
| 1990 | 6.8 | 2.6 | | 8.8 | 3.4 | 0.7 |
| 1991 | 6.3 | 2.6 | | 8.4 | 3.2 | 0.7 |
| 1992 | 6.8 | 2.3 | 0.6 | 8.9 | 3.0 | 0.9 |
| 1993 | 6.7 | 2.3 | 0.7 | 8.5 | 2.9 | 0.9 |
| 1994 | 6.8 | 2.2 | 0.8 | 8.4 | 2.8 | 1.0 |
| 1995 | 6.6 | 2.0 | 0.9 | 8.1 | 2.5 | 1.1 |
| 1996 | 6.2 | 1.9 | 1.0 | 7.4 | 2.2 | 1.1 |
| 1997 | 6.1 | 1.8 | 1.0 | 7.1 | 2.1 | 1.2 |
| 1998 | 5.9 | 1.7 | 1.1 | 6.7 | 2.0 | 1.1 |
| 1999 | 5.7 | 1.7 | 1.0 | 6.3 | 1.9 | 1.1 |
| 2000 | 5.7 | 1.7 | 1.1 | 6.1 | 1.8 | 1.2 |
| 2001 | 5.2 | 1.5 | 1.0 | 5.7 | 1.7 | 1.1 |
| 2002 ^c | 4.7 | 1.4 | 1.0 | 5.3 | 1.6 | 1.2 |
| 2003 | 4.4 | 1.3 | 1.0 | 5.0 | 1.5 | 1.1 |
| 2004 | 4.3 | 1.3 | 1.0 | 4.8 | 1.4 | 1.1 |
| 2005 | 4.2 | 1.2 | 1.0 | 4.6 | 1.4 | 1.0 |
| 2006 | 4.1 | 1.2 | 0.9 | 4.4 | 1.3 | 1.0 |
| 2007 | 4.0 | 1.2 | 0.9 | 4.2 | 1.2 | 0.9 |
| 2008 | 3.7 | 1.1 | 0.8 | 3.9 | 1.1 | 0.9 |

a Data after 1991 exclude fatal work-related injuries and illnesses.

Source: U.S. DOL 2009d.

http://www.bls.gov/news.release/osh.nr0.htm

Figure 6 shows the trend in private industry incidence rates of occupational injuries and illnesses involving (a) job transfers or restrictions or (b) days away from work. The break in the graph in 2002 shows the change in OSHA record keeping requirements, indicating that the data after 2002 may not be strictly comparable. However, the graph shows

declining trends in the rates of these measures of occupational injuries and illnesses since 1990.

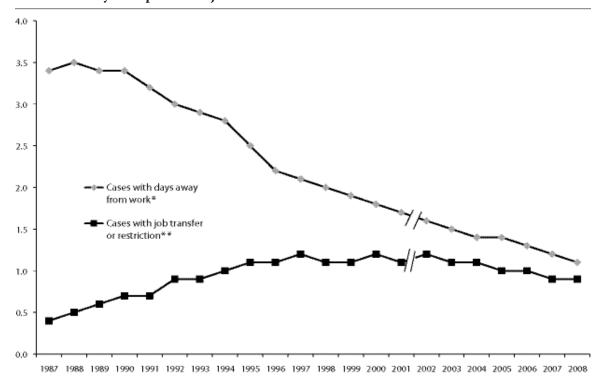
NCCI reports on the frequency of workers' compensation claims for privately insured employers and some state funds in forty-one states (Table 16). These data show declining trends similar to national

b The incidence rate is the number of cases per one hundred full-time workers.

c Data for 2002 and beyond are not strictly comparable to prior year data due to changes in OSHA recordkeeping requirements.

Figure 6

Private Industry Occupational Injuries and Illnesses: Incidence Rates 1987–2008



Note: The break in the graph indicates that the data for 2002 and beyond are not strictly comparable to prior year data due to changes in OSHA recordkeeping requirements.

- * Cases involving days away from work are cases requiring at least one day away from work with or without days of job transfer or restriction.
- ** Job transfer or restriction cases occur when, as a result of a work-related injury or illness, an employer or health care professional keeps, or recommends keeping an employee from doing the routine functions of his or her job or from working the full workday that the employee would have been scheduled to work before the injury or illness occurred. Source: Bureau of Labor Statitistics.

trends in workplace injuries reported by the Bureau of Labor Statistics. Temporary total disability claims are those in which days away from work exceeded the three-to-seven-day waiting period. The frequency of these claims per 100,000 insured workers declined by 51.7 percent between 1992 and 2005. This decline is very similar to the decline in injuries reported by the BLS that involved days away from work. Between 1992 and 2005, the incidence of injuries that involved days away from work declined by about 53.3 percent (from 3.0 per one hundred

fulltime workers in 1992 to 1.1 per one hundred fulltime workers in 2008) (Table 15). The frequency of total workers' compensation claims—including medical—only cases that involve little or no lost work time—declined by about 46.0 percent between 1992 and 2005. This rate of decline is similar to the 48.3 percent decline in the incidence rate for all injuries reported to the BLS in the same period (from 8.9 to 4.6 per one hundred full-time workers between 1992 and 2005). ¹²

¹² The similarity between the national rates of decline in the BLS injury rates and the NCCI claims rates may be misleading. Guo and Burton (2010) examined the determinants of the amounts of incurred cash benefits per 100,000 workers in 45 states plus the District of Columbia, which is a variable constructed from NCCI data. Between 1990 and 1999, the national average of incurred benefits per 100,000 workers declined by 41.6 percent in constant dollars. However, there were substantial variations among these 46 jurisdictions in the changes in incurred benefits during this period. The authors found that 21 percent of the drop in benefits during the 1990s could be explained by declines in the BLS injury rates in these jurisdictions, but that over 30 percent of the decline in benefits was due to the changes in many states in workers' compensation compensability rules and administrative practices.

Table 16Number of Workers' Compensation Claims per 100,000 Insured Workers: Private Carriers in Forty-One Jurisdictions, 1992-2005

| Policy Period | Temporary Total | Permanent Partial | Total (including medical only) |
|-----------------------|-----------------|-------------------|--------------------------------|
| 1992 | 1,358 | 694 | 8,504 |
| 1993 | 1,331 | 644 | 8,279 |
| 1994 | 1,300 | 565 | 7,875 |
| 1995 | 1,217 | 459 | 7,377 |
| 1996 | 1,124 | 419 | 6,837 |
| 1997 | 1,070 | 414 | 6,725 |
| 1998 | 977 | 452 | 6,474 |
| 1999 | 927 | 461 | 6,446 |
| 2000 | 870 | 437 | 6,003 |
| 2001 | 799 | 423 | 5,510 |
| 2002 | 756 | 413 | 5,137 |
| 2003 | 718 | 402 | 4,888 |
| 2004 | 674 | 380 | 4,670 |
| 2005 | 656 | 382 | 4,591 |
| Percent decline, 199 | 2–2005 -51.7 | -45.0 | -46.0 |
| Source: NCCI 1996–200 | 99. | | |

Injury Reporting

Studies during the past several decades have consistently concluded that various systems — including the BLS Survey of Occupational Injuries and Illnesses and state workers' compensation programs — undercount both workplace injuries and illnesses. However, if the extent of under-reporting remained constant over time, the undercounting does not explain the reported injury rates. Hensler et al. (1991) report that 60 percent of those with workrelated injuries involving medical care or lost work time received workers' compensation benefits. A study by Lakdawalla and Reville (2005) based on the National Longitudinal Survey of Youth indicates that 55 percent of reported occupational injuries result in workers' compensation claims. Smith et al. (2005) used National Health Interview Survey (NHIS) data and derived injury rates for private industry that are 1.4 times the BLS estimates. Using data from the 2002 Washington State Behavioral Risk Factor Surveillance System survey, Fan et al. (2006) estimate that only 52 percent of injured workers filed a

workers' compensation claim. In another recent study, Rosenman et al. (2006) conclude that BLS and workers' compensation data account respectively for 32 percent and 66 percent of workplace injuries and illnesses in Michigan. Boden and Ozonoff (2008) studied six other states. Their upper-bound estimates suggest that the BLS captures between 51 percent and 76 percent of lost-time injuries in these states, while workers' compensation captures 65 percent to 93 percent. Less conservative estimates suggest ranges of 37 percent to 71 percent and 52 percent to 85 percent respectively.

Further studies are underway to assess the accuracy of BLS data and to help understand whether certain injuries or illnesses are more likely to be underreported. The BLS conducted a quality assurance study and verified that its Survey of Occupational Injuries and Illnesses accurately reflected the information reported by employers on logs required under federal Occupational Safety and Health Administration (OSHA) rules. But the survey is only as complete as the employer reports. For example, employers may

not record cases that are in dispute. Also, long-latency occupational diseases and cases of unknown or disputed etiology may not find their way into OSHA logs. Further, there may be some scope differences between the cases that appear in workers' compensation and those that appear on OSHA logs. Azaroff et al. (2002) provide a review of many studies of injury reporting and a discussion of reasons for underreporting. Workers may not report compensable injuries because, for example, they do not know that they are covered by workers' compensation, or they believe that obtaining benefits can be difficult and stressful (Strunin and Boden, 2004), or they think that benefits are not worth the risks of filing (Fricker, 1999). Workers may also not report workplace injuries or file for workers' compensation benefits because they fear employer retaliation (Pransky et al., 1999). Workers normally cannot sue their employer for workplace injuries because of the exclusive remedy doctrine and, if discharged, normally cannot bring a tort suit against their employers because of the employment-at will doctrine. However, a number of states have statutes protecting workers against retaliation for filing a workers' compensation claim and courts in many states now allow tort suits for wrongful discharge in violation of public policy, such as exercising a statutory right, of which the "classic example" is filing a claim for workers' compensation benefits (Willborn et al. 2007).

For injuries and illnesses that take time to develop, like carpal tunnel syndrome and silicosis, the worker may not be aware of the workplace connection, and therefore will not report. Studies have typically shown much less reporting for such conditions (Stanbury et al., 1995; Biddle et al., 1998; Morse et al., 1998; Milton et al, 1998). Other research suggests that tighter eligibility standards and claims filing restrictions for workers' compensation may explain part of the decline in workers' compensation claims. Low-wage and temporary workers may be least likely to file for these reasons (Shannon and Lowe, 2002). The primary impact of such restrictions is likely to be on workers' compensation claims. However, fewer cases entered into the workers' compensation system could also result in fewer injuries

reported to the BLS. Boden and Ruser (2003) found that between 7.0 and 9.4 percent of the decline in injury rates measured by BLS between 1991 and 1997 is an indirect result of tighter eligibility standards and claims filing restrictions for workers' compensation benefits.¹³

Comparing Workers' Compensation with Other Disability Benefit Programs

Other sources of support for disabled workers include sick leave; short-term and long-term disability benefits; Social Security Disability Insurance; and Medicare. Unlike workers' compensation, these programs are not limited to injuries or illnesses caused on the job. However, some of these programs are not available to workers receiving workers' compensation benefits or the benefits provided by these programs are reduced for workers receiving workers' compensation benefits.

Other Disability Benefits

There are three types of disability benefits for shortterm periods of disability available to at least some workers. First, sick leave is a common form of wage replacement for short-term absences from work due to illness or injury. Benefits pay 100 percent of wages for a few weeks. Second, state laws require shortterm or temporary disability insurance in five states: California, Hawaii, New Jersey, New York, and Rhode Island. Most programs pay benefits for twenty-six to fifty-two weeks. The methods used for providing coverage vary depending on the state. In California and Rhode Island, the benefits are financed solely by employee contributions. In Hawaii, New Jersey, and New York, employers also contribute. In order to limit benefits, a worker must have a specified amount of past employment or earnings to qualify for benefits. Benefits usually last for up to twenty-six weeks and typically replace about half of the worker's prior earnings. Weekly benefits are related to a claimant's earnings while in covered employment. A third type of benefit available to

¹³ A recent report by the Government Accounting Office (GAO, 2009) on underreporting of injuries recommended interviewing workers during audits, minimizing the time between the date of recording of injuries and the date they are audited, updating the list of hazardous industries regularly, and educating and training employers on recordkeeping requirements to reduce underreporting.

some workers is short-term disability insurance that is offered by some employers. Both employers and employees may be required to contribute to the cost of the short-term disability insurance (EBRI, 2009). About 39 percent of private sector employees were covered by short-term disability insurance in 2008 (U.S. DOL, 2009a). In general, workers receiving workers' compensation benefits are not eligible for these other types of short-term disability benefits.

Long-term disability insurance that is financed, at least in part, by employers covers about 33 percent of private sector employees. Such coverage is most common among management, professional, and related workers. About 58 percent of management and professional related, 32 percent of workers in sales and office, and 13 percent of service workers had this coverage as of March 2007 (U.S. DOL, 2009a). Long-term disability insurance benefits are usually paid after a waiting period of three to six months, or after short-term disability benefits end. Long-term disability insurance is generally designed to replace 60 percent of earnings, although replacement rates of between 50 percent and 66 percent are also common. Almost all long-term disability insurance is coordinated with Social Security Disability Insurance benefits and workers' compensation benefits. That is, the private long-term disability benefits are reduced dollar for dollar by the social insurance benefits. For example, if Social Security benefits replaced 40 percent of the worker's prior earnings, the long-term disability benefit would pay the balance to achieve a 60 percent replacement. Long-term disability insurance is also sold in individual policies, typically to high-earning professionals. Such individual policies are not included in these data. Retirement benefits may also be available to workers who become disabled. Most defined benefit pension plans have some disability provision; benefits may be available at the time of disability or may continue to accrue until retirement age. Defined contribution pension plans will often make funds in the employee's account available to a disabled worker without penalty, but do not have the insurance features of defined benefit pensions or disability insurance. In addition Supplemental Security Income and Medicaid provide cash and medical assistance to disabled individuals who have low incomes. These means-tested benefits are based on need rather than work experience and are not covered in this report.

Social Security Disability Insurance and Medicare

Workers' compensation is surpassed in size only by the federal Social Security Disability Insurance program and the accompanying Medicare program in providing cash and medical benefits to disabled workers. While Social Security disability benefits and workers' compensation are the nation's two largest work-based disability benefit programs, the two programs differ in many respects. Workers are eligible for workers' compensation benefits from their first day of employment, while Social Security disability benefits require workers to have a substantial work history. Workers' compensation provides benefits for both short-term and long-term disabilities, and for partial as well as total disabilities. However, workers' compensation benefits cover only those disabilities arising out of and in the course of employment. Social Security disability benefits are paid only to workers who have long-term impairments that preclude any gainful work. Social Security disability benefits are provided whether the disability arose onor off-the-job. By law, the benefits are paid only to workers who are unable to engage in any substantial gainful activity by reason of a medically determinable physical or mental impairment that is expected to last a year or result in death. Social Security disability benefits begin after a five-month waiting period. Medicare coverage begins for those on Social Security disability benefits after a further twenty-four-month waiting period, or twenty nine months after the onset of disability.

Many who receive Social Security disability benefits have impairments associated with aging. The share of insured workers who receive benefits rises sharply at older ages, from less than one percent of the youngest insured workers to about 15 percent of insured workers age 60-64 (Reno and Eichner, 2000). Relatively few individuals who receive Social Security Disability Insurance benefits return to work. Typically, they leave the disability benefit rolls when they die or reach retirement age and shift to Social Security retirement benefits. Workers' compensation paid \$28.6 billion in cash benefits and \$29.1 billion for medical care in 2008. In that year, Social Security paid \$109.0 billion in wage replacement benefits to disabled workers and their dependents and Medicare paid \$63.6 billion for medical and hospital care for

Table 17Social Security Disability Insurance (DI) Beneficiaries with Workers' Compensation (WC) or Public Disability Benefit (PDB)¹ Number and percentage of beneficiaries, by type of compensation and DI offset status, December 2009

| | То | tal | Work | ters | Depend | dents |
|---|-----------|---------|-----------|---------|-----------|---------|
| Type of Case | Number | Percent | Number | Percent | Number | Percent |
| All disability insurance beneficiaries | 9,693,577 | 100.0 | 7,788,013 | 100.0 | 1,905,564 | 100.0 |
| Total with some connection to WC or PDB | 1,448,882 | 14.9 | 1,113,644 | 14.3 | 335,238 | 17.6 |
| Current connection to WC or PDB | 770,475 | 7.9 | 592,086 | 7.6 | 178,389 | 9.4 |
| DI reduced by cap | 157,670 | 1.6 | 108,747 | 1.4 | 48,923 | 2.6 |
| DI not reduced by cap | 371,314 | 3.8 | 297,165 | 3.8 | 74,149 | 3.9 |
| Reverse jurisdiction | 57,807 | 0.6 | 45,116 | 0.6 | 12,691 | 0.7 |
| Pending decision on WC or PDB | 183,684 | 1.9 | 141,058 | 1.8 | 42,626 | 0.2 |
| DI previously offset of WC or PDB | 678,407 | 7.0 | 521,558 | 6.7 | 156,849 | 8.2 |

¹ Social Security disability benefits are offset against workers' compensation and certain other public disability benefits (PDB). In general, the PDB offset applies to disability benefits earned in state, local, or federal government employment that is not covered by Social Security.

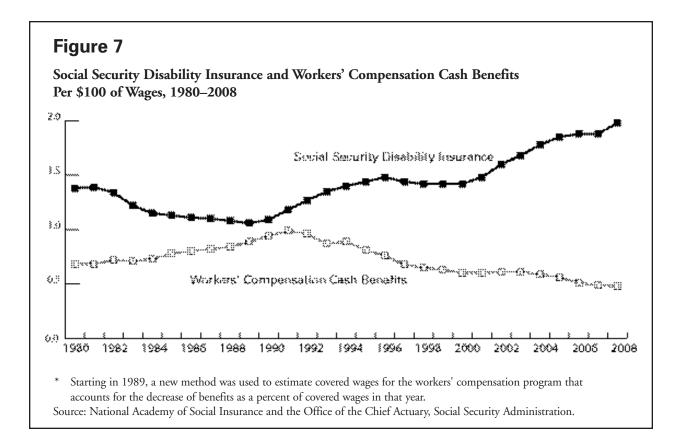
Source: Social Security Administrations' Office of Disability, unpublished tabulations (SSA 2009b).

disabled persons under age 65 (SSA, 2009d; CMS, 2009). Thus, aggregate workers' compensation cash benefits were about one third of the total amount of Social Security disability benefits, and workers' compensation medical benefits were just over half of the total amount paid by Medicare. The much higher fraction paid by workers' compensation for medical benefits can best be attributed to the much greater provider cost controls that Medicare uses relative to workers' compensation. Medicare requires beneficiary cost sharing in the form of deductibles and co-insurance, and it does not cover certain services. At the same time, Medicare covers all medical conditions, not just work-related injuries or illnesses. When a worker receiving workers' compensation is also Medicare eligible, workers' compensation is the primary payer and Medicare is the secondary payer for care related to the occupational injury as a result of the Medicare Secondary Payer Act.

Coordination between Workers' Compensation and Social Security Disability Insurance Benefits

If a worker becomes eligible for both workers' compensation and Social Security disability insurance benefits, one of the programs will limit benefits in order to avoid excessive payments relative to the worker's past earnings. The Social Security amendments of 1965 required that Social Security disability benefits be reduced (or "offset") so that the combined totals of workers' compensation and Social Security disability benefits do not exceed 80 percent of the workers' prior earnings. States, however, were allowed to establish reverse offset laws, whereby workers' compensation payments would be reduced if the worker received Social Security disability benefits. The reverse offset shifts costs to Social Security that would otherwise fall upon the workers' compensation payments.

¹⁴ The cap remains at 80 percent of the worker's average indexed earnings before disability, except that, in the relatively few cases when Social Security disability benefits for the worker and dependents exceed 80 percent of prior earnings, the benefits are not reduced below the Social Security amount. This cap also applies to coordination between Social Security Disability Insurance and other public disability benefits (OPDB) derived from jobs not covered by Social Security, such as state or local government jobs where the governmental employer has chosen not to cover its employees under Social Security.



sation employer or insurer. Legislation in 1981 eliminated the states' option to adopt reverse offset laws, but the 15 states that already had such laws were allowed to keep them.¹⁵

As of December 2008, about 7.8 million disabled workers and 1.9 million of their dependents received Social Security disability benefits (Table 17). About 1.4 million of these individuals (or 14.9 percent) had some connection to workers' compensation or some other public disability benefits. Of these, 158 thousand persons (or 1.6 percent of the total) were currently receiving SSDI benefits that were reduced because of the offset and 678 thousand (or 7.0 percent of the total) had their Social Security benefits previously reduced because of the offset.

Trends in Social Security Disability Benefits and Workers' Compensation

Figure 7 illustrates the long-term trend in Social Security disability benefits and workers' compensation cash benefits as a share of covered wages. Social

Security disability benefits grew rapidly in the early 1970s and then declined through the 1980s, after policy changes in the late 1970s and early 1980s reduced benefits and tightened eligibility rules. From 1990 to 1996, Social Security benefits again rose as claims and allowances increased, particularly during the economic recession of 1990–1991. Between 1996 –2001, disability insurance benefits relative to covered wages leveled off and then rose again following the recession of 2001.

The trend in workers' compensation cash benefits as a share of covered wages followed a different pattern. Workers' compensation benefits grew steadily throughout the 1980s and almost surpassed Social Security disability benefits in the early 1990s. Then, as workers' compensation cash benefits declined as a share of covered wages in 1992–2006, Social Security benefits generally rose. The opposite trends in workers' compensation and Social Security disability benefits during much of the last twenty-five years raise the question of whether retrenchments in one program increase demands placed on the other, and

¹⁵ States with reverse offset laws are: Colorado, Florida, Hawaii, Illinois, Louisiana, Minnesota, Montana, Nevada, New Jersey, New York, North Dakota, Ohio, Oregon, Washington, and Wisconsin.

vice versa. The substitutability of Social Security disability benefits and workers' compensation for workers with severe, long-term disabilities that are, at least arguably, work related or might be exacerbated by the demands of work, has received little attention by researchers and is not well understood (Burton and Spieler, 2001).

A recent study finds that work-related disabilities are much more common than might previously have been thought, both among older persons in general and among recipients of Social Security disability benefits in particular (Reville and Schoeni, 2006). Based on reports in the 1992 Health and Retirement Study, more than one third (36 percent) of 51-61 year olds whose health limits the amount of work they can do became disabled because of an accident, injury, or illness at work. Of those receiving Social Security disability insurance, a similar portion (37 percent) attributed their disability to an accident, injury or illness at work. The study also finds that the 51-61 year olds who attribute their disabling conditions to their jobs are far more likely to receive Social Security disability insurance (29.0 percent) than to report ever having received workers' compensation (12.3 percent). It is important to note that these are self reported recollections of work related disability, and in most cases reported many years after the alleged work related disability. These self reported disabling injuries raise the logical question: if these were valid work injuries why were they not reported and accepted by the system? A recent study by Guo and Burton (2008) provides the first empirical evidence that retrenchment in workers' compensation in the 1990s helps explain the increase in Social Security disability insurance applications during the period.

Incurred Benefits Compared with Paid Benefits

The National Academy's estimates of workers' compensation benefits in this report are the amounts paid to workers in a calendar year regardless of whether the injuries occurred in that calendar year or in a previous year. This measure, calendar year paid

benefits, is commonly used in reporting about other social insurance, private employee benefits, and other income security programs. A different measure, accident year incurred losses, which is equivalent to accident year incurred benefits, is commonly used for workers' compensation insurance that is purchased from private carriers and some state funds. It measures benefit liabilities incurred by the insurer for injuries that occur in a particular year, regardless of whether the benefits are paid in that year or in future years. (The terms "losses" and "benefits" are used interchangeably because benefits to the worker are losses to the insurer.) Both measures, calendar year paid benefits and accident year incurred benefits, reveal important information. ¹⁶

For the purpose of setting insurance premiums, it is vital to estimate the incurred benefits that the premiums are to cover. When an employer purchases workers' compensation insurance for a particular policy period, the premiums cover current and future benefit liabilities for all injuries that occur during the policy period. State rating bureaus and the National Council on Compensation Insurance, which provides advisory ratemaking and statistical services in thirty-six states, focus on accident year (or policy year) incurred benefits.

Accident year incurred benefits are more appropriate than calendar year paid benefits in estimating the ultimate amount of benefits that will be owed to newly injured workers in response to policy changes. For example, if a state lowered benefits or tightened compensability rules for new injuries as of a given date, then future benefits would be expected to decline. Similarly, if a state raised benefits or expanded the range of injuries that would be compensated by workers' compensation, then future benefits would be expected to increase. The policy change would show up immediately in estimates of accident year incurred benefits, but it would show up more slowly in measures of calendar year paid benefits because the latter measure includes payments for past injuries that would not be affected by the policy change.

A disadvantage of relying solely on accident year incurred benefits is that it takes many years before

¹⁶ A fuller discussion of these measures is included in the Glossary and in Thomason, Schmidle, and Burton, 2001, Appendix B.

Table 18

Comparison of Accident-Year Incurred Benefits with Calendar-Year Benefits Paid by Private Carriers and State Funds in Thirty-seven^a States, 1998–2008

| | Accident Year In | curred Benefits ^a | Calendar Year I | Benefits Paid ^b |
|------------|-------------------------|------------------------------|---------------------|----------------------------|
| Year | Billions of Dollars | Percent Change | Billions of Dollars | Percent Change |
| 1998 | 10.8 | | 11.6 | |
| 1999 | 11.8 | 9.6 | 11.5 | 8 |
| 2000 | 12.0 | 1.6 | 12.5 | 8.3 |
| 2001 | 12.6 | 4.7 | 12.9 | 3.3 |
| 2002 | 12.5 | -1.1 | 12.9 | .2 |
| 2003 | 12.6 | 1.2 | 12.9 | .0 |
| 2004 | 13.0 | 3.1 | 13.3 | 2.9 |
| 2005 | 13.4 | 3.1 | 13.8 | 3.5 |
| 2006 | 14.0 | 4.1 | 13.6 | 9 |
| 2007 | 14.7 | 5.4 | 14.0 | 2.3 |
| 2008 | 14.9 | 1.3 | 14.8 | 5.9 |
| Cumulative | % change from 1998-2008 | 3 | 38.0 | 27.0 |

- a. These data are for the thirty-seven states reported in the Calendar-Accident Year Underwriting Results of the National Council on Compensation Insurance, page 17. They include private carrier and state fund (where relevant) losses incurred in Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, the District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Carolina, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, and Virginia. The data for 1996-1999 include thirty-six states as Nevada is excluded.
 - Accident year data exclude benefits paid under the following categories: underground coal mining, F-classification, national defense project, and excess business. The accident year data also exclude benefits paid under deductible policies.
- b. Based on National Academy of Social Insurance data in this report for the states listed in note (a). These data are for private carriers and states funds (where relevant) and excludes benefits paid under deductible policies

Source: NCCI 2009 and calendar year benefits estimated by the National Academy of Social Insurance.

the losses from a particular year are actually known; in the meantime, estimates for the losses for that accident year are updated annually. The National Council on Compensation Insurance updates accident year incurred benefits for sixteen years before the data for a particular year are considered final. In contrast, calendar year paid benefits are final at the end of the calendar year. Accident year incurred benefits are estimated for insurance policies purchased from private carriers and from some state funds, but this information is not routinely available for other state funds and for self-insured employers. In addition, accident year data exclude benefits that are the responsibility of employers under large deductible

policies and all benefits of certain categories of privately insured employers (see footnote (a) of Table 18 for examples of privately insured employers).

For the years 1998 through 2008, Table 18 compares accident year incurred benefits reported by NCCI and calendar year paid benefits estimated by NASI for private carriers and state funds in the thirty-seven states included in the NCCI data. Despite differences in measurements, the dollar amounts of accident year incurred benefits and calendar year paid benefits have been quite similar over the past decade according to estimates in Table 18.

Glossary

General Terms for Workers' Compensation and Related Programs

AASCIF: The American Association of State Compensation Insurance Funds (AASCIF) is an association of workers' compensation insurance entities – referred to as state funds – that specialize in writing workers' compensation insurance in a U.S. state or Canadian province. For more information, visit www.aascif.org.

BLS: The Bureau of Labor Statistics (BLS) in the U.S. Department of Labor is a statistical agency that collects, processes, analyzes, and disseminates statistical data about the labor market. For more information, visit www.bls.gov.

Black Lung Benefits: See Coal Mine Health and Safety Act.

Coal Mine Health and Safety Act: The Coal Mine Health and Safety Act was enacted in 1969 and provides black lung benefits to coal miners disabled as a result of exposure to coal dust and to their survivors.

Compromise and Release Agreement: An agreement to settle a case that usually involves three elements: a compromise between the worker's claim and the employer's offer concerning the amount of cash and/or medical benefits to be paid; the payment of the compromised amount in a lump sum; and the release of the employer from further liability.

Covered Employment: Employees covered by workers' compensation programs.

Defense Base Act: The Defense Base Act (DBA) is a federal law extending the Longshore and Harbor Workers' Compensation Act to persons (1) employed by private employers at United States defense bases overseas, or (2) employed under a public work contract with the United States performed outside the United States, or (3) employed under a contract with the United States performed outside United States under the Foreign Assistance Act, or (4) employed by an American contractor providing welfare or similar services outside the United States for the benefit of the Armed Services.

Disability: Loss of actual earnings or of earning capacity as a consequence of an injury or disease.

DI: Disability insurance from the Social Security program. See: SSDI.

FECA: The Federal Employees' Compensation Act (FECA) provides workers' compensation coverage to U.S. federal civilian and postal workers around the world for work-related injuries and occupational diseases.

FELA: The Federal Employers' Liability Act (FELA) gives railroad workers engaged in interstate commerce an action in negligence against their employer in the event of work-related injuries or occupational diseases.

Guaranty Fund: A guaranty fund is a special fund that assumes all or part of the liability for workers' compensation benefits provided to a worker because the employer or insurance carrier legally responsible for the benefits is unable to make payments. Guaranty funds for private insurance carriers (all states with private carriers have these) and for self-insuring employers (less than half the states have these) are always separate funds.

IAIABC: The International Association of Industrial Accident Boards and Commissions (IAIABC) is the organization representing workers' compensation agencies in the United States, Canada, and other nations and territories. For more information, visit www.iaiabc.org.

Jones Act: The Jones Act is a section of the Merchant Marine Act that extends the provision of the Federal Employers' Liability Act to seamen.

LHWCA: The Longshore and Harbor Workers' Compensation Act (LHWCA) requires employers to provide workers' compensation protection for longshore, harbor, and other maritime workers. See: Defense Base Act (DBA).

NAIC: The National Association of Insurance Commissioners (NAIC) is the national organization of insurance regulators in each state. It assists state insurance regulators, individually and collectively, to achieve insurance regulatory goals. For more information, visit www.naic.org.

NCCI: The National Council on Compensation Insurance, Inc. (NCCI) is a national organization that assists private carriers and insurance commissioners in setting workers' compensation rates in thirty-seven states. For more information, visit **www.ncci.com**.

OSHA: The OSHAct created the Occupational Safety and Health Administration (OSHA) within the United States Department of Labor. OHSA is responsible for promulgating standards, inspecting workplaces for compliance, and prosecuting violations.

OSHAct: The Occupational Safety and Health Act (OSHAct) is a federal law enacted in 1970 that promotes workplace safety and health for private sector employers.

Permanent Partial Disability (PPD): A disability that, although permanent, does not completely limit a person's ability to work.

Permanent Total Disability (PTD): A permanent disability that precludes all work.

Second Injury Fund: A second injury fund is a special fund that assumes all or part of the liability for workers' compensation benefits provided to a worker because of the combined effects of a work-related injury or disease with a preexisting medical condition.

Self-Insurance: Self insurance is an insurance arrangement in which the employer assumes responsibility for the payment of workers' compensation benefits to the firm's employees with workplace injuries or diseases. Most employers do not self-insure but instead purchase workers' compensation insurance from a private carrier or state fund.

SSA: The U.S. Social Security Administration (SSA) administers the Social Security program, which pays retirement, disability, and survivors' benefits to workers and their families, and the federal Supplemental Security Income program that provides income support benefits to low-income aged and disabled individuals. For more information, visit **www.ssa.gov**.

SSDI: Social Security Disability Insurance (SSDI) pays benefits to insured workers who sustain severe, long-term work disabilities due to any cause. See: DI.

Temporary Partial Disability (TPD): A temporary disability that does not completely limit a person's ability to work.

Temporary Total Disability (TTD): A disability that temporarily precludes a person from performing the pre-injury job or another job at the employer that the worker could have performed prior to the injury.

Unemployment Insurance (UI): A federal/state program that provides cash benefits to workers who become unemployed through no fault of their own and who meet certain eligibility criteria set by the states.

USDOL: The U.S. Department of Labor administers a variety of federal labor laws including those that guarantee workers' rights to safe and healthful working conditions, a minimum hourly wage and overtime pay, freedom from employment discrimination, unemployment insurance, and other income support. For more information, visit **www.dol.gov**.

WC: Workers' compensation.

Work-Related Injury/Illness: An injury or illness caused by the workplace. The usual legal test for "work-related" is "arising out of and in the course of employment." However, the definition of a work-related injury or disease that is compensable under a state's workers' compensation program can be quite complex and varies across states.

WCRI: The Workers Compensation Research Institute (WCRI) is a research organization providing information about public policy issues involving workers' compensation systems. For more information, visit **www.wcri.org**.

Terms for Workers' Compensation Insurance

Accident Year: The year in which an injury occurred or the year of onset of an illness.

Accident Year Incurred Benefits: Benefits associated with all injuries and illnesses occurring in the accident year, regardless of the years in which the benefits are paid. (Also known as calendar-accident year incurred benefits.)

Calendar Year Paid Benefits: Benefits paid during a calendar year regardless of when the injury or illness occurred.

Combined Ratio After Dividends: [(1) Losses + (2) Loss Adjustment Expenses + (3) Underwriting Expenses + (4) Dividends to Policyholders] / Net Premium. The Combined Ratio After Dividends is expressed as a percentage of net premiums. (See Overall Operating Ratio.)

Deductibles: Under deductible policies written by private carriers or state funds, the insurer pays all of the workers' compensation benefits, but employers are responsible for reimbursing the insurer for those benefits up to a specified deductible amount. Deductibles may be written into an insurance policy on a per injury basis, or an aggregate basis, or a combination of a per injury basis with an aggregate cap.

Dividends to Policyholders: Both mutual and some stock insurance companies offer policies that pay dividends to policyholders after the policy period.

Incurred Losses (or Incurred Benefits): Benefits paid to the valuation date plus liabilities for future benefits for injuries that occurred in a specified period, such as an accident year.

Loss Adjustment Expenses: Salaries and fees paid to insurance adjusters, as well as other expenses incurred from adjusting claims.

Losses: Paid benefits or incurred benefits.

Overall Operating Ratio: The combined ratio after dividends minus net investment gain/loss and other income as a percent of net premium. (See Combined Ratio after Dividends.)

Paid Losses (or Paid Benefits): Benefits paid during a specified period, such as a calendar year, regardless of when the injury or disease occurred.

Residual Market: The mechanism used to provide insurance for employers who are unable to purchase insurance in the voluntary private market. In some jurisdictions the state fund is the "insurer of last resort" and serves the function of the residual market. In others, there is a separate pool financed by assessments of private insurers, which is also known as an assigned risk pool.

Underwriting Expenses: Commissions, brokerage expenses, general expenses, taxes, licenses, and fees.

Underwriting Results: The underwriting experience of private insurance carriers. (See Combined Ratio After Dividends and Overall Operating Ratio.)

Valuation Date: A specific time at which data are evaluated in order to determine the losses (or benefits) paid to that date plus reserves as of that date.

Appendix A: Coverage Estimates

The National Academy of Social Insurance's estimates of workers' compensation coverage start with the number of workers in each state who are covered by unemployment insurance (UI) (U.S. DOL, 2008e). Those who are not required to be covered include: some farm and domestic workers who earn less than a threshold amount from one employer; some state and local employees, such as elected officials; employees of some non-profit entities, such as religious organizations, for whom coverage is optional in some states; unpaid family workers; and railroad employees who are covered under a separate unemployment insurance program. Railroad workers are also not covered by state workers' compensation because they have other arrangements (NASI, 2002).

The largest category of workers who are not covered under either unemployment insurance or workers' compensation is self-employed individuals who have not incorporated their businesses. All U.S. employers who are required to pay unemployment taxes must report quarterly to their state employment security agencies information about their employees and payroll covered by unemployment insurance. These employer reports are the basis for statistical reports prepared by the U.S. Bureau of Labor Statistics, known as the ES-202 data. These data are a census of the universe of U.S. workers who are covered by unemployment insurance.

Key assumptions underlying the NASI estimates of workers' compensation coverage, shown in Table A1, are:

- (1) Workers whose employers do not report that they are covered by UI are not covered by workers' compensation.
- (2) Workers that are reported to be covered by UI are generally covered by workers' compensation as well, except in the following cases:
 - (a) Workers in small firms (which are required to provide UI coverage in every state) are not covered by workers' compensation if the state law exempts small firms from mandatory workers' compensation coverage.
 - (b) Employees in agricultural industries (who may be covered by UI) are not covered by workers' compensation if the state law

- exempts agricultural employers from mandatory workers' compensation coverage.
- (c) In Texas, where workers' compensation coverage is elective for almost all employers, estimates are based on periodic surveys conducted by the Texas Research and Oversight Council.

All federal employees are covered by workers' compensation, regardless of the state in which they work.

Small Firm Exemptions. NASI assumes that workers are not covered by workers' compensation if they work for small firms in the fourteen states that exempt small employers from mandatory coverage. Private firms with fewer than three employees are exempt from mandatory coverage in eight states: Arkansas, Georgia, Michigan, New Mexico, North Carolina, Virginia, West Virginia and Wisconsin. Those with fewer than four employees are exempt in two states: Florida, and South Carolina. Finally, firms with fewer than five employees are exempt from mandatory coverage in Alabama, Mississippi, Missouri, and Tennessee (IAIABC-WCRI, 2009).

The number of employees in small firms is estimated using data from the U.S. Small Business Administration for each state, which show the proportion of employees in all private firms who worked for firms with fewer than five employees in 2008.

Those percentages for the thirteen states with numerical exemptions are: Alabama, 4.5 percent; Arkansas, 4.9 percent; Florida, 5.9 percent; Georgia, 4.7 percent; Michigan, 4.7 percent; Mississippi, 5.0 percent; Missouri, 4.8 percent; New Mexico, 5.6 percent; North Carolina, 4.8 percent; South Carolina, 4.9 percent; Tennessee, 4.0 percent; Virginia, 4.7 percent; West Virginia, 5.4 percent and Wisconsin, 4.3 percent (U.S. SBA, 2008).

To estimate the proportion of workers in firms with fewer than three or four employees, we used national data on small firms from the U. S. Census Bureau (U.S. Census Bureau, 2005). Of workers in firms with fewer than five employees, 79.0 percent worked in firms with fewer than four employees and 56.7

| Table A1 Documenting Workers' Compensation Coverage Estimates, 2008 Annual Averages | s' Compensation (| Coverage Estimates, | 2008 Annual Aver | ages | | | |
|---|------------------------------|---------------------|-------------------------|----------------------------------|---------|--------------|----------|
| o | 4 | o | | 0 | | | |
| | UI Covered Jobs ^a | d Jobs ^a | Workers' | Workers' Compensation Exemptions | mptions | JM | , 30 J/M |
| (| Total | farm firms | Small Firm ^b | Agriculture | Texas | Covered Jobs | % of UI |
| State | (1) | (2) | (3) | (4) | (9) | (7) | (8) |
| Alabama | 1,884,031 | 1,564,786 | 70,982 | 5,402 | 1 | 1,807,647 | 95.9 |
| Alaska | 298,396 | 237,284 | | | 1 | 298,396 | 100.0 |
| Arizona | 2,528,857 | 2,161,946 | | | 1 | 2,528,857 | 100.0 |
| Arkansas | 1,150,970 | 964,363 | 26,730 | 7,277 | 1 | 1,116,963 | 97.0 |
| California | 15,248,111 | 12,834,664 | | | 1 | 15,248,111 | 100.0 |
| Colorado | 2,258,485 | 1,931,574 | | 11,581 | 1 | 2,246,904 | 99.5 |
| Connecticut | 1,668,433 | 1,432,890 | | | 1 | 1,668,433 | 100.0 |
| Delaware | 416,899 | 361,576 | | 1,227 | ı | 415,672 | 7.66 |
| District of Columbia | 491,394 | 452,732 | | 1 | 1 | 491,394 | 100.0 |
| Florida | 7,536,585 | 6,527,853 | 301,240 | 58,390 | 1 | 7,176,955 | 95.2 |
| Georgia | 3,933,527 | 3,329,875 | 88,782 | 14,029 | 1 | 3,830,716 | 97.4 |
| Hawaii | 587,490 | 492,272 | | | 1 | 587,490 | 100.0 |
| Idaho | 640,049 | 522,792 | | | 1 | 640,049 | 100.0 |
| Illinois | 5,754,238 | 5,008,373 | | 13,081 | ı | 5,741,157 | 8.66 |
| Indiana | 2,834,536 | 2,452,358 | | 11,103 | 1 | 2,823,433 | 9.66 |
| Iowa | 1,472,265 | 1,242,498 | | 12,372 | 1 | 1,459,893 | 99.2 |
| Kansas | 1,341,829 | 1,109,289 | | | 1 | 1,341,829 | 100.0 |
| Kentucky | 1,752,461 | 1,486,405 | | 4,054 | ١ | 1,748,407 | 8.66 |
| Louisiana | 1,858,039 | 1,536,725 | | 4,842 | 1 | 1,853,197 | 266 |
| Maine | 587,506 | 499,684 | | 2,451 | 1 | 585,055 | 9.66 |
| Maryland | 2,410,569 | 2,063,680 | | 3,494 | 1 | 2,407,075 | 6.66 |
| Massachusetts | 3,197,070 | 2,827,892 | | | 1 | 3,197,070 | 100.0 |
| Michigan | 4,017,543 | 3,442,824 | 91,625 | 21,668 | ١ | 3,904,250 | 97.2 |
| Minnesota | 2,646,051 | 2,289,270 | | 14,936 | 1 | 2,631,115 | 99.4 |
| Mississippi | 1,104,530 | 882,626 | 43,948 | 7,625 | 1 | 1,052,957 | 95.3 |
| Missouri | 2,659,714 | 2,276,347 | 109,793 | 8,750 | 1 | 2,541,171 | 95.5 |
| Montana | 423,988 | 353,656 | | | 1 | 423,988 | 100.0 |
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| Nebraska Nevada New Hampshire New Jersey New Jersey New Wexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Carolina Texas Utah Vermont Virginia Washington West Virginia Wisconsin | Washington West Virginia Wisconsin Wyoming U.S. non-federal | Federal U.S. TOTAL |

a UI-covered employment reported in the ETA-202 data produced by the United States Bureau of Labor Statistics (U.S. DOL, 2009f). b Data not available for 2008, used the 2006 data. Source: National Academy of Social Insurance estimates.

percent worked in firms with fewer than three employees. These ratios were applied to the percentage of workers in firms with fewer than five employees in the respective states. For example, the proportion of Arkansas private sector workers in firms with fewer than three employees is: (4.9 percent) x (56.7 percent) = 2.8 percent. These ratios are applied to the number of UI covered workers in private, non-farm firms in each state. In the fourteen States together, we estimate that 1.1 million workers were excluded from workers' compensation coverage in 2008 because of the small employer exclusion from mandatory coverage.

Agricultural Exemptions. We estimate agricultural workers to be excluded from workers' compensation coverage if they work in any state where agricultural employers are exempt from mandatory coverage. The

following fourteen states have no exemptions for agricultural workers: Alaska, Arizona, California, Connecticut, Hawaii, Idaho, Kansas, Massachusetts, Montana, New Hampshire, New Jersey, Ohio, Oregon, and Wyoming. In all the other jurisdictions we subtract from UI coverage those workers employed in agricultural industries.

Texas. In Texas, where workers' compensation coverage is elective for almost all employers, the NASI estimate of coverage is based on periodic surveys conducted by the Texas Department of Insurance and the Workers' Compensation Research and Evaluation Group, which found 75 percent of Texas employees were covered in 2008 (TDI et al., 2009). This ratio was applied to all UI-covered Texas employees other than federal government workers (who were not included in the Texas surveys).

Appendix B: 2008 Survey Questionnaire

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Appendix C: Data Availability

Estimates of benefits paid and employer costs for workers' compensation by the National Academy of Social Insurance (NASI) rely on two main sources: responses to the NASI survey questionnaire from state agencies and data purchased from A.M. Best, a private company that specializes in collecting insurance data and rating insurance companies.

The A.M. Best data show the experience of private carriers in every state, but do not include any information about self-insured employers or about benefits paid under deductible arrangements. The A.M. Best data show total "direct losses" (that is, benefits) paid in each state in 2004–2008, by private carriers and by twenty-one entities that we classify as state funds, based on their membership in the American Association of State Compensation Insurance Funds. A.M. Best did not provide information on the exclusive state funds in Ohio, North Dakota, Washington, and Wyoming. The 2008 NASI survey questionnaire for state agencies asked states to report data for five years, from 2004 through 2008. These historical data were used to revise and update estimates for these past years. Table C1 describes the sources of data available for each state used in the data report.

Private Carrier Benefits

Of the fifty-one jurisdictions, forty-seven allow private carriers to write workers' compensation policies. Of these, eighteen jurisdictions were able to provide data on the amount of benefits paid by private carriers. In the other states, A.M. Best data were used to estimate private carrier benefits. An estimate of benefits paid under deductible policies was added to benefits paid reported by A.M. Best to estimate total private carrier benefits in these states. Methods for estimating deductible amounts are described in Appendix G.

State Fund Benefits

Twenty-six states had a state fund that paid workers' compensation benefits in 2008. Of these, twelve were able to provide benefit data. A.M. Best data and NAIC (National Association of Insurance Commissioners) data were used to estimate state fund benefits in states unable to provide the data. An estimate of benefits paid under deductible policies

was added to benefits reported by A.M. Best to estimate total state fund benefits in these states.

Self-Insured Benefits

All jurisdictions except North Dakota and Wyoming allow employers to self-insure. Thirty-two of these jurisdictions were able to provide data on benefits paid by self-insurers. Prior years' self-insured benefit ratios to total benefits were used to estimate the self-insurance data for three states. Self-insurance benefits were imputed for the thirteen states that were unable to provide data. For one state we had to impute self-insured data using the national average. The self-insurance imputation methods are described in Appendix E.

Second Injury Funds

Thirty-nine states have provided us with second injury fund data. There were twelve states for which second injury fund data were not available. For states where the data were available for reporting purposes, they were distributed evenly across private carriers, state funds and self-insured employers according to their share in the total. Second injury funds are financed through general state revenues or assessments on workers' compensation insurers and self-insuring employers. Second Injury fund data are given in Table J1.

Insurance Guaranty Funds and Self-Insurance Guaranty Funds

Guaranty Funds cover the outstanding claims of insolvent insurance companies, the property and casualty guaranty fund system. Self-Insurance Guaranty funds ensure the payment of outstanding workers' compensation liabilities of self-insured employers that went insolvent. For states where data were available, the Insurance Guaranty Fund data was included in the private carriers' benefits data and the Self-Insurance Guaranty Funds data were included in the self-insurance benefits data for that state.

Benefits under Deductible Policies

Forty-six jurisdictions allow carriers to write deductible policies for workers compensation. Of these jurisdictions, seven were able to provide the amount of benefits paid under deductible policies. Benefits under deductible arrangements were estimated for another thirteen states by subtracting A.M. Best data on benefits paid (which do not include deductible benefits) from data reported by the state agency (which, in these cases, included deductible benefits). Deductible benefits in the remaining states were estimated using a ratio of Manual Equivalent Premiums, as described in Appendix G.

Medical Benefits

The state workers' compensation agency data and rating bureau data for medical share were used in twelve states. The National Council on Compensation Insurance estimates of the medical share of the benefits were used in thirty-seven jurisdictions. Other methods were used for two states for which no information was available from the state or NCCI. More detail on methods to estimate medical benefits is in Appendix F.

Employer Costs

NASI estimates of employer costs for benefits paid under private insurance and state funds are the sum of "direct premiums written" as reported by A.M. Best and the NAIC, plus our estimate of benefits paid under deductible arrangements (which are not reflected in premiums). In some cases, data provided by state agencies are used instead of A.M. Best data.

State fund premium data for North Dakota, Ohio and Washington were provided by the state agencies. For self-insured employers, the costs include benefit payments and administrative costs. Because self-insured employers often do not separately record administrative costs for workers' compensation, their administrative costs must be estimated. The costs are assumed to be the same share of benefits as administrative costs reported by private insurers to the National Association of Insurance Commissioners (NAIC, 1998-2008). These administrative costs include direct defense and cost containment expenses paid¹⁷ and expenses for taxes, licenses, and fees.¹⁸

The ratios of these administrative costs to direct losses paid by private insurers were:

2004: 16.2 percent 2005: 18.7 percent 2006: 19.9 percent 2007: 19.1 percent 2008: 16.6 percent

¹⁷ Direct Defense and Cost Containment Expense Paid: In 1999, as part of a clarification effort, this line was renamed from "Direct Allocated Loss Adjustment Expenses" to "Direct Defense and Cost Containment Expenses." It includes defense, litigation and medical cost containment expenses, whether internal or external. The fees charged for insurer employees should include overhead, just as an outside firm's charges would include. The expenses exclude expenses incurred in the determination of coverage.

¹⁸ Taxes, Licenses, & Fees: State and local insurance taxes deducting guaranty association credits, insurance department licenses and fees, gross guaranty association assessments, and all other (excluding federal and foreign income and real estate).

Table C1Data Sources for 2008

| State | Private Carrier | State Fund | Self- Insured | Second Injury Fund | | Self- Insurance Guaranty Fund | PC Deductible | SF Deductible | Medical |
|-------------------|-------------------------|---------------|---------------------------------|--|----------------------------------|--|------------------------------------|-----------------------------|------------------|
| Alabama Alaska | Agency | - | Agency | A com are | - A | - | Subtraction Subtraction | - | NCCI |
| Aiaska Arizona | Agency | - Λ | Agency | Agency | Agency - | - | | | NCCI NCCI |
| Arkansas | Agency AMBest | Agency - | Agency Agency | Agency Agency | AR Property and Insurance GF | - 1 - | Agency given Manual Premium Method | Agency given | NCCI |
| California | Rating Bureau | AMBest | | Subsequent Injury Fund and Uninsured Employers Fund | CA Insurance Guaranty Assn | - | Subtraction | Not Allowed | Rating Bureat |
| Colorado | AMBest | AMBest | Agency | Agency | Western GF Services | - | Manual Premium Method | Manual Premium Method | NCCI |
| Connecticut | AMBest | - | Agency | Agency | - | - | Manual Premium Method | | NCCI |
| Delaware | AMBest | - | Imputation | Agency | - | - | Agency given | - | Rating Bureau |
| D.C. | AMBest | - | Imputation | - | - | - | Manual Premium Method | | NCCI |
| Florida | AMBest | - | Agency | - | - | - | Manual Premium Method | - | NCCI |
| Georgia | AMBest | - | Imputation | Subsequent Injury Trust Fund | Agency | Agency | Manual Premium Method | - | NCCI |
| Hawaii | Agency (includes SF) | AMBest | Agency | Agency | - | - | Subtraction | Subtraction | NCC |
| Idaho | AMBest | AMBest | Imputation | Agency | Western GF Services | - | Manual Premium Method | Manual Premium Method | NCCI |
| Illinois | AMBest | - | Imputation | Agency | - | - | Manual Premium Method | - | NCCI |
| Indiana | AMBest | - (| Agency Compensation Board | Workers 1 | - | - | Manual Premium Method | - | NCCI |
| Iowa | AMBest | - | Imputation | Second Injury Fund | IA Insurance Guaranty Assn | - | Manual Premium Method | - | NCCI |
| Kansas | AMBest | - | Agency | Agency | Western GF Services | - | Manual Premium Method | - | NCCI |
| Kentucky | AMBest | AMBest | Imputation | Agency | - | - | Manual Premium Method | Manual Premium Method | NCCI |
| Louisiana | AMBest | AMBest | Agency | Agency | - | - | Manual Premium Method | Manual Premium Method | NCCI |
| Maine | AMBest | AMBest | Agency | - | - | - | Manual Premium Method | Manual Premium Method | NCCI |
| Maryland | Agency | Agency | Agency | Second Injury Fund | - | - | Subtraction | Subtraction | NCCI |
| Massachusetts | s Agency | - | Agency | Rating Bureau | - | - | Subtraction | - | Rating Bureau |
| Michigan | Agency | - | Agency | Agency | - | Agency | Subtraction | - | Agency |
| Minnesota | Agency | Agency | Agency | Agency | Agency | Agency | Agency given | Not Allowed | Agency |

Table C1 continued

Data Sources for 2008

| State | Private Carrier | State Fund | Self- Insured | Second Injury Fund | Guaranty Fund | Self- Insurance Guaranty Fund | PC Deductible | SF Deductible | Medica |
|----------------|--------------------|---------------|--|----------------------------------|------------------------|--|--------------------------------|--------------------------------|--------------------|
| Mississippi | AMBest | - | Agency | Agency | - | - | Manual Premium Method | - | NCCI |
| Missouri | Agency | AMBest | Agency | Agency | Agency | - | Subtraction Pr | Manual emium Method | NCCI |
| Montana | Agency | Agency | Agency | Agency | Western GF Services | - | Subtraction | Subtraction | NCCI |
| Nebraska | AMBest | - | Imputation \ | WC trust Fund | - | - | Manual Premium Method | - | NCCI |
| Nevada | Agency | - | Agency | - | - | - | Imputation | - | NCCI |
| New Hampshire | AMBest | - | Imputation | Agency | - | - | Manual Premium Method | - | NCCI |
| New Jersey | Rating Bureau | - | Imputation | Agency | Rating Bureau | Agency | Subtraction | - | Rating Bureau |
| New Mexico | Agency | Agency | Agency | Agency | - | - | Subtraction | Subtraction | NCCI |
| New York | AMBest | AMBest | Imputed thr' average | - | - | - | MPNational Average ratio | Not Allowed | Rating Bureau |
| North Carolina | AMBest | - | Imputation | - | - | - | Manual Premium Method | - | NCCI |
| North Dakota | AMBest | Agency | - | - | - | - | Agency given | Subtraction | Agency |
| Ohio | AMBest | Agency | Agency | - | - | - | Not Allowed | Not Allowed | Agency |
| Oklahoma | AMBest | AMBest | Agency | Agency | - | - | Manual Premium Method | Manual Premium Method | NCCI |
| Oregon | Agency | Agency | Agency | Agency | Agency | Agency | Agency given | Not Allowed | NCCI |
| Pennsylvania | Agency | Agency | Agency | Agency | Agency | Agency | Agency given | Agency given | Agency |
| Rhode Island | AMBest | AMBest | Agency | Agency | - | - | Manual Premium Method | Manual Premium Method | NCCI |
| South Carolina | Agency | Agency | Agency | Second Injury Fund | - | - | Agency given | Not Allowed | NCCI |
| South Dakota | Agency | - | Agency | Agency | - | - | Subtraction | - | NCCI |
| Tennessee | AMBest | - | Agency | Agency | - | - | Manual Premium Method | ı - | NCCI |
| Texas | AMBest | AMBest f | Imputed from previous years data | WC Subsequent Injury Fund | - | - | MPNational Average ratio | MPNational Average ratio | NCCI |
| Utah | AMBest | AMBest | Imputation | Employers Reinsurance Fund | - | - | Manual Premium Method | Manual Premium Method | NCCI |
| Vermont | AMBest | | mputed from previous years data | - | - | - | Manual Premium Method | - | NCC |
| Virginia | Agency | - | Imputation | - | - | - | Subtraction | - | NCC |
| Washington | AMBest | Agency | Agency | Agency | - | - | Not Allowed | Not Allowed | Agency |
| West Virginia | AMBest | Agency 1 | Imputed from previous years data | Agency | - | - | Not Allowed | Not Allowed | Nationa Average |
| Wisconsin | AMBest | - | Agency | Agency | - | - | Not Allowed | - | Agency |
| Wyoming | AMBest | NAIC data | ı - | - | Western GF Services | - | Not Allowed | Not Allowed | Nationa Average |

Appendix D: Revised Data for 2004–2007

In preparing the 2008 estimates for workers' compensation benefits, the National Academy of Social Insurance reviewed and revised all data for calendar years 2004-2007. These revised data are shown in Tables D1 to D4. The revision process began by requesting historical data from state workers' compensation agencies and from AM Best. The revised benefit estimates are reported in the following tables. Revisions to the historical data increase consistency in historical methodology and enhance comparability between years. The following are key revisions made to the historical data:

- Revised data consistently use the same medical benefit estimation methodology described in Appendix F.
- Revised data consistently use the same deductible estimation methodology described in Appendix G.
- Self-insurance benefit imputations were revised using historical data as reported in Appendix E.
- Changes in data reported by state agencies were captured by the revised data questionnaire and are reflected in the revised estimates.

- Administrative costs for self-insurance were reestimated based on updated information from the National Association of Insurance Commissioners as described in Appendix C.
- The California data were revised to exclude loss adjustment expenses as a component of paid benefits.
- The New Jersey data on self-insured employers are now based on data from the New Jersey Department of Labor and Workforce Developments rather than on a national average of the share of benefits accounted for by self-insuring employers.

The revised data in this appendix should be used in place of previously published data. Historical data displayed in the body of this report incorporate these revisions.

Table D5 is the corrected version of table 9.B1 of the *Annual Statistical Supplement to the Social Security Bulletin.*

\$400,827 Medical^C 446,226 130,845 317,186 30,762 718,813 104,568 162,492 419,364 255,813 370,515 323,086 363,599 492,908 190,569 137,856 172,683 125,553 117,754 4,868,295 397,011 112,202 ,691,064 241,157 307,833 182,497 ,292,581 118,207 536,441 486,767 Percent Medical 68.9 63.6 47.5 43.7 36.6 62.3 48.5 42.3 6.09 47.2 70.2 51.6 61.3 58.0 52.6 43.3 34.7 35.6 51.8 57.9 54.6 56.7 62.8 57.1 43.1 Workers' Compensation Benefits* by Type of Insurer and Medical Benefits, by State, 2007 (in thousands) 272,824 205,890 1,482,217 597,200 638,478 613,849 843,967 886,208 1,507,968 951,848 328,969 892,225 242,930 378,400 204,374 188,286 647,417 9,509,403 836,030 725,662 196,501 83,998 2,716,114 247,294 266,772 2,736,641 496,054 393,707 290,644 \$584,941 Self-Insuredb 51,395 84,889 42,469 61,879 85,537 122,385 39,978 56,461 50,111 44,060 108,303 2,998,885 191,736 13,641 727,169 424,554 722,275 108,148 120,352 203,060 162,844 595,335 147,053 279,188 \$297,059 147,927 120,734 254,424 187,577 State Funds 33,022 91,523 84,459 85,185 55,222 1,986,230 159,310 384,964 409,982 149,553 126,017 236,791 Private Carriers^a 387,906 72,852 146,390 70,357 642,202 1,057,663 350,233 95,764 765,474 181,916 256,015 234,312 1,988,945 129,383 74,751 2,014,366 273,355 528,578 164,396 154,150 149,429 4,524,287 538,085 535,321 306,611 444,332 912,633 \$287,882 136,891 District of Columbia New Hampshire Massachusetts **Table D1** Connecticut Minnesota Mississippi California Colorado Maryland Michigan Delaware Kentucky Louisiana Arkansas Montana Missouri Nebraska Alabama Georgia Maine Arizona Indiana Florida Nevada Alaska Hawaii Illinois Kansas Idaho Iowa State

| New Jersey | 1,502,327 | | 344,709 | 1,847,036 | 48.0 | 886,677 |
|--------------------------------|--------------|--------------|--------------|--------------|------|--------------|
| New Mexico | 123,047 | 34,806 | 84,540 | 242,393 | 58.6 | 142,116 |
| New York | 1,483,609 | 959,117 | 694,741 | 3,137,467 | 36.0 | 1,129,488 |
| North Carolina | 963,130 | | 385,561 | 1,348,692 | 45.7 | 616,810 |
| North Dakota ^a | 128 | 95,290 | | 95,418 | 54.0 | 51,482 |
| Ohioa | 19,335 | 2,017,613 | 441,131 | 2,478,080 | 41.5 | 1,029,325 |
| Oklahoma | 270,012 | 265,991 | 166,291 | 702,295 | 43.0 | 301,753 |
| Oregon | 229,901 | 276,405 | 80,092 | 586,398 | 53.5 | 313,624 |
| Pennsylvania | 1,843,513 | 342,184 | 618,122 | 2,803,819 | 44.6 | 1,251,734 |
| Rhode Island | 42,215 | 90,619 | 19,401 | 152,235 | 34.6 | 52,742 |
| South Carolina | 637,362 | 47,729 | 199,422 | 884,513 | 41.9 | 370,650 |
| South Dakota | 102,731 | | 16,620 | 119,351 | 9.99 | 79,472 |
| Tennessee | 640,679 | | 134,682 | 775,361 | 54.0 | 418,751 |
| Texas | 813,310 | 312,801 | 288,669 | 1,414,780 | 61.0 | 863,229 |
| Utah | 88,119 | 143,852 | 50,628 | 282,600 | 70.5 | 199,307 |
| Vermont | 103,239 | | 15,910 | 119,149 | 50.4 | 60,050 |
| Virginia | 796,504 | | 272,870 | 1,069,374 | 57.4 | 613,628 |
| Washington ^a | 21,895 | 1,502,012 | 471,837 | 1,995,744 | 36.2 | 723,226 |
| West Virginia ^a | 228,569 | 308,956 | 96,754 | 634,279 | 49.8 | 315,588 |
| Wisconsin | 930,006 | | 164,068 | 1,094,074 | 74.2 | 811,496 |
| Wyoming ^a | 4,035 | 122,959 | | 126,994 | 49.8 | 63,186 |
| Non-federal total | \$28,492,016 | \$10,322,595 | \$13,062,248 | \$51,876,858 | 49.8 | \$25,809,808 |
| Federald | | | | 3,339,892 | 27.2 | 808,806 |
| Federal employees ^e | | | | 2,586,700 | 29.1 | 752,742 |
| TOTAL | | | | \$55,216,750 | 48.4 | \$26,719,616 |

* Benefits are payments in the calendar year to injured workers and to providers of their medical care.

States with exclusive funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming) may have small amounts of benefits paid in the private carrier category. This results from the fact that some employers doing business in states with exclusive state funds may need to obtain coverage from private carriers under the USL &HW act or employers liability coverage which the state fund is not authorized to provide. In addition, private carriers may provide excess compensation coverage in some of these states.

b. Self-insurance includes individual self-insurers and group self-insurance.

c. For further details see Appendix C1.

Federal benefits include: those paid under the Federal Employees' Compensation Act for civilian employees; the portion of the Black Lung benefit program that is financed by employers; and a portion of benefits under the Longshore and Harbor Workers' Compensation Act that are not reflected in state data, namely, benefits paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs.

e. Included in the federal benefits total.

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|----------------------|-------------------------------|-------------|---------------------------|-----------|-----------------|----------------------|
| State | Private Carriers ^a | State Funds | Self-Insured ^b | Total | Percent Medical | Medical ^c |
| Alabama | \$280,034 | | \$282,599 | \$562,632 | 9.99 | \$374,713 |
| Alaska | 138,990 | | 47,517 | 186,507 | 58.4 | 108,920 |
| Arizona | 136,623 | 369,138 | 102,497 | 608,258 | 69.3 | 421,523 |
| Arkansas | 137,147 | | 59,635 | 196,782 | 64.2 | 126,334 |
| California | 4,676,403 | 2,225,017 | 3,012,788 | 9,914,209 | 47.4 | 4,697,192 |
| Colorado | 242,604 | 423,268 | 198,537 | 864,409 | 49.2 | 425,289 |
| Connecticut | 516,705 | | 192,553 | 709,258 | 44.3 | 314,201 |
| Delaware | 152,098 | | 56,210 | 208,308 | 58.2 | 121,235 |
| District of Columbia | 73,997 | | 14,565 | 88,562 | 40.8 | 36,133 |
| Florida | 2,054,707 | | 616,852 | 2,671,559 | 64.0 | 1,709,798 |
| Georgia | 266,996 | | 402,708 | 1,369,685 | 50.4 | 690,321 |
| Hawaii | 134,638 | 28,644 | 79,403 | 242,685 | 40.7 | 98,773 |
| Idaho | 59,075 | 147,489 | 47,828 | 254,392 | 62.0 | 157,723 |
| Illinois | 1,852,600 | | 587,325 | 2,439,925 | 48.2 | 1,176,044 |
| Indiana | 505,756 | | 53,991 | 559,747 | 69.3 | 387,905 |
| Iowa | 385,187 | | 103,347 | 488,534 | 52.6 | 256,969 |
| Kansas | 267,114 | | 123,735 | 390,849 | 58.6 | 229,038 |
| Kentucky | 342,754 | 84,387 | 199,181 | 626,322 | 58.9 | 368,903 |
| Louisiana | 342,137 | 130,060 | 138,282 | 610,479 | 52.8 | 322,333 |
| Maine | 106,962 | 96,415 | 81,265 | 284,643 | 41.1 | 116,988 |
| Maryland | 437,362 | 239,409 | 152,050 | 828,821 | 43.2 | 358,051 |
| Massachusetts | 785,590 | | 119,177 | 904,767 | 35.3 | 319,192 |
| Michigan | 852,208 | | 618,366 | 1,470,574 | 37.3 | 547,794 |
| Minnesota | 628,443 | 62,791 | 246,120 | 937,355 | 50.9 | 476,770 |
| Mississippi | 190,181 | | 147,668 | 337,849 | 58.2 | 196,628 |
| Missouri | 506,932 | 80,552 | 244,378 | 831,862 | 52.4 | 435,895 |
| Montana | 75,074 | 118,081 | 41,092 | 234,247 | 57.6 | 134,926 |
| Nebraska | 212,602 | | 63,169 | 275,772 | 62.7 | 172,909 |
| Nevada | 266,547 | | 127,008 | 393,555 | 45.1 | 177,493 |
| | | | | | | |

| N U | 175 26% | | // 201 | 237.010 | 207 | 121 10% |
|--------------------------------|--------------|--------------|--------------|--------------|------|--------------|
| lvew mampsnire | 1/2,204 | | 44,391 | 219,/33 | 73.7 | 131,194 |
| New Jersey | 1,420,821 | | 327,287 | 1,748,108 | 49.6 | 866,540 |
| New Mexico | 112,501 | 33,035 | 92,016 | 237,551 | 57.4 | 136,354 |
| New York | 1,486,967 | 1,058,221 | 706,239 | 3,251,427 | 36.0 | 1,170,514 |
| North Carolina | 975,471 | | 341,838 | 1,317,308 | 44.8 | 590,154 |
| North Dakota ^a | | 81,297 | | 81,297 | 55.6 | 45,218 |
| Ohioa | 26,343 | 1,921,443 | 435,758 | 2,383,544 | 44.1 | 1,051,774 |
| Oklahoma | 246,521 | 268,552 | 159,605 | 674,677 | 44.1 | 297,533 |
| Oregon | 219,518 | 267,997 | 79,077 | 566,593 | 54.0 | 305,960 |
| Pennsylvania | 1,797,351 | 353,784 | 607,649 | 2,758,784 | 43.8 | 1,209,115 |
| Rhode Island | 39,823 | 94,218 | 15,354 | 149,395 | 33.0 | 49,301 |
| South Carolina | 643,640 | 137,000 | 208,549 | 989,189 | 45.9 | 453,791 |
| South Dakota | 92,453 | | 16,097 | 108,550 | 65.0 | 70,558 |
| Tennessee | 960,599 | | 216,060 | 881,156 | 51.6 | 454,677 |
| Texas | 803,859 | 303,828 | 276,966 | 1,384,652 | 9.09 | 839,099 |
| Utah | 76,046 | 138,008 | 43,908 | 257,962 | 70.1 | 180,832 |
| Vermont | 107,895 | | 16,253 | 124,148 | 50.3 | 62,447 |
| Virginia | 620,331 | | 187,072 | 807,404 | 59.6 | 481,213 |
| Washington ^a | 30,302 | 1,448,619 | 448,510 | 1,927,431 | 36.0 | 694,577 |
| West Virginia ^a | 4,681 | 400,231 | 76,756 | 481,668 | 49.2 | 237,077 |
| Wisconsin | 859,915 | | 183,329 | 1,043,244 | 72.7 | 758,351 |
| Wyoming ^a | 794 | 116,528 | | 117,322 | 49.2 | 57,746 |
| Non-federal total | \$27,733,140 | \$10,628,010 | \$12,642,561 | \$51,003,712 | 49.2 | \$25,104,017 |
| Federald | | | | 3,270,322 | 26.2 | 857,591 |
| Federal employees ^e | | | | 2,454,861 | 28.0 | 686,935 |
| TOTAL | | | | \$54,274,033 | 47.8 | \$25,961,608 |

Benefits are payments in the calendar year to injured workers and to providers of their medical care.

States with exclusive funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming) may have small amounts of benefits paid in the private carrier category. This results from the fact that some employers doing business in states with exclusive state funds may need to obtain coverage from private carriers under the USL & HW Act or employers liability coverage which the state fund is not authorized to provide. In addition, private carriers may provide excess compensation coverage in some of these states. ä,

Self-insurance includes individual self-insurers and group self-insurance. ن <u>ب</u>

For further details see Appendix C1.

Federal benefits include: those paid under the Federal Employees' Compensation Act for civilian employees; the portion of the Black Lung benefit program that is financed by employers, and a portion of benefits under the Longshore and Harbor Workers' Compensation Act that are not reflected in state data, namely, benefits paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs.

Included in the federal benefits total.

Table D3

| Otato | Private Carriers ^a | State Funds | Self-Insured ^b | Total | Percent Medical | Medical ^C |
|----------------------|-------------------------------|-------------|---------------------------|------------|-----------------|----------------------|
| Alabama | 290,843 | | 274,170 | 565,013 | 0.99 | 372,905 |
| Alaska | 137,616 | | 45,105 | 182,721 | 57.4 | 104,839 |
| Arizona | 134,335 | 306,239 | 102,208 | 542,781 | 65.0 | 352,773 |
| Arkansas | 138,429 | | 54,431 | 192,860 | 64.9 | 125,243 |
| California | 5,165,482 | 2,684,600 | 2,982,285 | 10,832,367 | 44.1 | 4,774,092 |
| Colorado | 269,673 | 417,384 | 208,356 | 895,413 | 48.8 | 437,197 |
| Connecticut | 526,831 | | 181,767 | 708,598 | 41.7 | 295,571 |
| Delaware | 136,547 | | 49,091 | 185,639 | 58.9 | 109,341 |
| District of Columbia | 73,604 | | 16,274 | 62,88 | 34.6 | 31,062 |
| Florida | 2,297,075 | | 616,852 | 2,913,927 | 62.3 | 1,814,914 |
| Georgia | 940,625 | | 438,758 | 1,379,383 | 9.05 | 697,833 |
| Hawaii | 137,002 | 32,450 | 81,327 | 250,779 | 39.3 | 98,665 |
| Idaho | 75,227 | 133,682 | 34,214 | 243,123 | 59.9 | 145,515 |
| Illinois | 1,794,512 | | 630,971 | 2,425,483 | 49.5 | 1,200,148 |
| Indiana | 513,158 | | 51,672 | 564,830 | 68.5 | 386,652 |
| Iowa | 376,334 | | 112,676 | 489,009 | 50.9 | 248,996 |
| Kansas | 262,414 | | 127,279 | 389,693 | 57.1 | 222,628 |
| Kentucky | 362,375 | 76,520 | 254,206 | 693,100 | 55.1 | 381,673 |
| Louisiana | 296,497 | 165,694 | 135,046 | 597,237 | 51.0 | 304,555 |
| Maine | 97,401 | 90,670 | 84,047 | 272,119 | 39.8 | 108,357 |
| Maryland | 426,794 | 216,050 | 141,467 | 784,312 | 40.1 | 314,343 |
| Massachusetts | 755,642 | | 148,744 | 904,386 | 36.4 | 328,794 |
| Michigan | 858,953 | | 614,645 | 1,473,598 | 34.6 | 510,063 |
| Minnesota | 637,670 | 65,327 | 238,640 | 941,636 | 49.9 | 470,015 |
| Mississippi | 172,826 | | 139,084 | 311,910 | 55.1 | 171,869 |
| Missouri | 547,313 | 98,336 | 248,020 | 893,669 | 51.7 | 462,463 |
| Montana | 73,259 | 113,821 | 40,241 | 227,321 | 55.4 | 125,828 |
| Nebraska | 242,330 | | 67,410 | 309,741 | 59.8 | 185,324 |
| Nextoda | 190 / 90 | | 122 072 | 206 333 | 6) // | 170 171 |

| New Hampshire | 180,030 | | 49,141 | 229,172 | 59.4 | 136,110 | |
|--------------------------------|---------------|---------------|---------------|---------------|------|---------------|--|
| New Jersey | 1,260,848 | | 306,391 | 1,567,238 | 49.6 | 776,915 | |
| New Mexico | 116,557 | 28,979 | 85,055 | 230,591 | 58.1 | 134,028 | |
| New York | 1,458,234 | 609,796 | 728,283 | 3,154,126 | 34.4 | 1,085,820 | |
| North Carolina | 1,008,960 | | 377,616 | 1,386,576 | 44.7 | 619,794 | |
| North Dakota ^a | | 82,033 | | 82,033 | 55.0 | 45,085 | |
| Ohioa | 37,693 | 1,961,918 | 447,428 | 2,447,038 | 46.8 | 1,144,090 | |
| Oklahoma | 243,732 | 236,414 | 159,941 | 640,088 | 46.9 | 300,281 | |
| Oregon | 221,522 | 261,171 | 70,576 | 553,270 | 54.6 | 302,112 | |
| Pennsylvania | 1,878,362 | 271,457 | 591,491 | 2,741,310 | 42.9 | 1,174,705 | |
| Rhode Island | 31,259 | 92,982 | 12,961 | 137,202 | 34.0 | 46,589 | |
| South Carolina | 624,968 | 67,434 | 224,790 | 917,191 | 45.9 | 420,762 | |
| South Dakota | 70,270 | | 15,619 | 85,889 | 66.3 | 56,924 | |
| Tennessee | 624,627 | | 197,990 | 822,618 | 54.2 | 445,988 | |
| Texas | 904,379 | 344,767 | 299,360 | 1,548,506 | 62.1 | 961,376 | |
| Utah | 77,193 | 133,281 | 43,288 | 253,763 | 69.4 | 176,184 | |
| Vermont | 106,221 | | 15,392 | 121,613 | 48.3 | 58,718 | |
| Virginia | 631,073 | | 223,091 | 854,165 | 56.5 | 482,669 | |
| Washington ^a | | 1,375,658 | 471,865 | 1,847,523 | 35.4 | 654,264 | |
| West Virginia ^a | 6,993 | 695,205 | 115,948 | 818,146 | 48.1 | 393,809 | |
| Wisconsin | 994,633 | | 175,432 | 1,170,065 | 65.7 | 768,405 | |
| Wyoming ^a | 6 | 116,528 | | 116,537 | 48.1 | 56,094 | |
| Non-federal total | \$ 28,482,591 | \$ 11,036,210 | \$ 12,852,719 | \$ 52,371,521 | 48.1 | \$ 25,201,149 | |
| Federald | | | | 3,258,155 | 25.6 | 835,208 | |
| Federal employees ^e | | | | 2,462,059 | 27.3 | 671,056 | |
| TOTAL | | | | 55,629,676 | 46.8 | 26,036,357 | |

Benefits are payments in the calendar year to injured workers and to providers of their medical care.

States with exclusive funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming) may have small amounts of benefits paid in the private carrier category. This results from the fact that some employers doing business in states with exclusive state funds may need to obtain coverage from private carriers under the USL & HW Act or employers liability coverage which the state fund is not authorized to provide. In addition, private carriers may provide excess compensation coverage in some of these states.

Self-insurance includes individual self-insurers and group self-insurance. Ь.

For further details see Appendix C1.

Federal benefits include: those paid under the Federal Employees' Compensation Act for civilian employees; the portion of the Black Lung benefit program that is financed by employers; and a portion of benefits under the Longshore and Harbor Workers' Compensation Act that are not reflected in state data, namely, benefits paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs. ç.

Included in the federal benefits total. e.

454,755 Medical^c \$330,586 107,578 351,903 5,754,843 416,038 71,459 601,592 112,395 329,922 333,251 113,415 132,995 281,955 35,558 1,700,643 103,900 1,093,523 207,272 388,392 232,123 319,955 569,855 173,462 138,927 374,775 459,521 Percent Medical 54.0 55.8 64.2 46.2 39.6 45.4 37.9 59.3 47.8 38.3 48.5 0.89 51.6 55.0 50.4 42.0 41.4 34.4 37.6 55.9 53.6 59.1 Workers' Compensation Benefits* by Type of Insurer and Medical Benefits, by State, 2004 (in thousands) 634,610 797,301 219,177 93,907 192,816 271,290 449,718 377,116 719,610 934,613 310,516 \$532,000 547,872 12,446,670 853,273 712,515 157,399 1,259,155 235,119 2,254,415 267,622 968,817 ,517,386 911,059 211,460 283,197 2,866,531 551,071 Total Self-Insuredb 86,436 271,176 137,929 48,690 38,234 16,949 32,766 566,459 101,762 124,522 690,109 627,031 380,691 126,771 238,422 \$264,518 103,064 60,228 3,511,876 146,723 255,717 52,798 90,847 145,287 133,083 241,449 38,304 118,580 State Funds 303,995 32,089 176,307 85,788 3,203,319 65,360 203,884 65,092 102,576 422,542 23,970 113,871 Private Carriers^a 347,956 555,740 144,126 78,383 252,594 320,375 786,06 827,277 631,099 177,433 70,579 152,765 1,687,956 \$267,482 140,814 158,949 5,731,475 284,008 456,798 119,165 76,958 2,239,500 878,464 498,273 383,073 466,647 823,530 224,829 240,152 District of Columbia Massachusetts **Table D4** Connecticut Michigan Minnesota Mississippi California Colorado Louisiana Delaware Kentucky Maryland Montana Nebraska Arkansas Missouri Alabama Georgia Nevada Arizona Indiana Florida Kansas Maine Alaska **Illinois** Hawaii Idaho Iowa State

| New Hampshire | 171,167 | | 45,193 | 216,360 | 55.9 | 121,026 |
|--------------------------------|--------------|--------------|--------------|--------------|------|--------------|
| New Jersey | 1,277,054 | | 321,542 | 1,598,596 | 49.3 | 787,997 |
| New Mexico | 94,436 | 26,794 | 77,038 | 198,267 | 59.1 | 117,097 |
| New York | 1,599,370 | 775,146 | 726,799 | 3,101,314 | 33.8 | 1,048,907 |
| North Carolina | 853,421 | | 315,427 | 1,168,848 | 44.2 | 516,445 |
| North Dakota ^a | 260 | 82,977 | 0 | 83,237 | 56.3 | 46,870 |
| Ohio ^a | 37,509 | 1,935,728 | 461,479 | 2,434,715 | 46.9 | 1,141,082 |
| Oklahoma | 252,603 | 222,363 | 152,208 | 627,174 | 46.1 | 288,862 |
| Oregon | 217,942 | 229,013 | 71,394 | 518,350 | 53.3 | 276,405 |
| Pennsylvania | 1,861,802 | 225,990 | 570,311 | 2,658,104 | 41.7 | 1,108,518 |
| Rhode Island | 41,786 | 87,204 | 14,433 | 143,423 | 35.1 | 50,396 |
| South Carolina | 573,520 | 61,670 | 219,873 | 855,062 | 46.3 | 396,159 |
| South Dakota | 65,832 | | 11,577 | 77,409 | 62.9 | 48,712 |
| Tennessee | 645,816 | | 170,022 | 815,838 | 51.6 | 421,181 |
| Texas | 1,002,051 | 300,038 | 322,128 | 1,624,217 | 6.09 | 988,932 |
| Utah | 61,944 | 135,273 | 43,976 | 241,193 | 68.4 | 164,918 |
| Vermont | 107,030 | | 15,971 | 123,000 | 45.8 | 56,288 |
| Virginia | 554,397 | | 184,077 | 738,475 | 55.1 | 406,954 |
| Washington ^a | 30,843 | 1,323,410 | 482,962 | 1,837,215 | 34.6 | 636,238 |
| West Virginia ^a | 8,429 | 725,291 | 144,535 | 878,255 | 47.7 | 418,644 |
| Wisconsin | 843,431 | | 54,935 | 898,366 | 64.6 | 580,651 |
| Wyominga | 3,555 | 116,528 | | 120,083 | 47.7 | 57,241 |
| Non-federal total | \$28,631,582 | \$11,146,216 | \$13,114,671 | \$52,892,469 | 47.7 | \$25,213,193 |
| Federald | | | | 3,256,202 | 26.6 | 865,442 |
| Federal employees ^e | | | | 2,445,077 | 28.5 | 695,680 |
| Total | | | | 56,148,671 | 46.4 | 26,078,635 |

Benefits are payments in the calendar year to injured workers and to providers of their medical care.

States with exclusive funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming) may have small amounts of benefits paid in the private carrier category. This results from the fact that some employers doing business in states with exclusive state funds may need to obtain coverage from private carriers under the USL & HW Act or employers liability coverage which the state fund is not authorized to provide. In addition, private carriers may provide excess compensation coverage in some of these states. તું

Self-insurance includes individual self-insurers and group self-insurance. Ъ.

For further details see Appendix C1.

Federal benefits include: those paid under the Federal Employees' Compensation Act for civilian employees; the portion of the Black Lung benefit program that is financed by employers, and a portion of benefits under the Longshore and Harbor Workers' Compensation Act that are not reflected in state data, namely, benefits paid by self-insured employers and by special funds under the LHWCA. See Appendix H for more information about federal programs. i j

Included in the federal benefits total.

Corrected Version of Table 9.B1 of the Annual Statistical Supplement to the Social Security Bulletin Coverage, Benefits, and Costs, selected years 1980-2008 **Table D5**

| Year | Estimated number of Workers covered per month (millions) | f r Total | Private Carriers | State Funds | Federal Funds | Employers Self-Insurance | Medical and Hospitalization | Compensation payments | Cost of program as a percentage of covered payroll | Benefits as a percentage of covered payroll |
|------|--|-----------------|---------------------|----------------|------------------|-----------------------------|--------------------------------|-----------------------|--|---|
| 1980 | 9.78 | 13,618 | 7,029 | 1,797 | 2,533 | 2,259 | 3,947 | 9,671 | 1.76 | 96.0 |
| 1981 | 87.0 | 15,054 | 7,876 | 2,017 | 2,578 | 2,583 | 4,431 | 10,623 | 1.67 | 0.97 |
| 1982 | 85.6 | 16,408 | 8,647 | 2,191 | 2,577 | 2,993 | 5,058 | 11,350 | 1.58 | 1.04 |
| 1983 | 86.7 | 17,575 | 9,265 | 2,443 | 2,618 | 3,249 | 5,681 | 11,894 | 1.50 | 1.05 |
| 1984 | 91.0 | 19,686 | 10,610 | 2,754 | 2,651 | 3,671 | 6,424 | 13,262 | 1.49 | 1.09 |
| 1985 | 93.7 | 22,217 | 12,341 | 3,059 | 2,685 | 4,132 | 7,498 | 14,719 | 1.64 | 1.17 |
| 1986 | 92.6 | 24,613 | 13,827 | 3,554 | 2,694 | 4,538 | 8,642 | 15,971 | 1.79 | 1.23 |
| 1987 | 98.2 | 27,317 | 15,453 | 4,084 | 2,698 | 5,082 | 9,912 | 17,405 | 1.86 | 1.29 |
| 1988 | 101.4 | 30,703 | 17,512 | 4,687 | 2,760 | 5,744 | 11,507 | 19,196 | 1.94 | 1.34 |
| 1989 | 103.9 | 34,316 | 19,918 | 5,205 | 2,760 | 6,433 | 13,424 | 20,892 | 2.04 | 1.46 |
| 1990 | 105.5 | 38,237 | 22,222 | 5,873 | 2,893 | 7,249 | 15,187 | 23,050 | 2.18 | 1.57 |
| 1991 | 103.7 | 42,187 | 24,515 | 6,713 | 2,998 | 7,962 | 16,832 | 25,355 | 2.16 | 1.65 |
| 1992 | 104.3 | 44,660 | 24,030 | 7,829 | 3,158 | 9,643 | 18,664 | 25,996 | 2.13 | 1.65 |
| 1993 | 106.2 | 42,925 | 21,773 | 8,105 | 3,189 | 9,857 | 18,503 | 24,422 | 2.17 | 1.53 |
| | | | | | | | | | | |

| 1.47 | 1.35 | 1.26 | 1.17 | 1.13 | 1.12 | 1.06 | 1.10 | 1.13 | 1.16 | 1.13 | 1.07 | 0.98 | 0.94 | 0.97 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|------------|-----------|------------|
| | | | | | | | | | | | | | | |
| 2.05 | 1.83 | 1.66 | 1.49 | 1.38 | 1.35 | 1.34 | 1.43 | 1.57 | 1.71 | 1.70 | 1.66 | 1.56 | 1.44 | 1 22 |
| 26,288 | 25,389 | 25,221 | 24,574 | 25,365 | 26,258 | 26,766 | 27,690 | 28,094 | 29,006 | 30,070 | 29,593 | 28,312 | 28,497 | 000 |
| 17,194 | 16,733 | 16,739 | 17,397 | 18,622 | 20,055 | 20,933 | 23,137 | 24,203 | 25,733 | 26,079 | 26,036 | 25,962 | 26,720 | 0,000 |
| | | | | | | | | | | | | | | |
| 6 11,527 | 3 11,232 | 6 9,828 | 0 10,357 | 8 10,354 | 2 9,985 | 7 10,481 | 9 11,839 | 4 11,920 | 5 12,717 | 6 13,115 | 8 12,853 | 0 12,643 | 0 13,062 | 12 61 |
| 8 3,166 | 1 3,103 | 3,066 | 7 2,780 | 7 2,868 | 3 2,862 | 8 2,957 | 3 3,069 | 9 3,154 | 42 3,185 | 46 3,256 | 3,258 | 3,270 | 23 3,340 | 707 6 |
| 7,398 | 7,681 | 24 8,042 | 76 7,157 | 79 7,187 | 83 7,083 | 74 7,388 | 95 8,013 | 95 9,139 | 95 10,442 | 32 11,146 | 83 11,036 | 33 10,628 | 92 10,323 | 707 01 |
| 82 21,391 | 22 20,106 | 60 21,024 | 71 21,676 | 87 23,579 | 13 26,383 | 99 26,874 | 27 27,905 | .97 28,085 | 39 28,395 | 49 28,632 | 30 28,483 | .74 27,733 | 17 28,492 | 021.00 00. |
| 43,482 | 42,122 | 41,960 | 41,971 | 43,987 | 46,313 | 47,699 | 50,827 | 52,297 | 54,739 | 56,149 | 55,630 | 54,274 | 55,217 | (() [2 |
| 109.4 | 112.8 | 114.8 | 118.1 | 121.5 | 124.3 | 127.1 | 127.0 | 125.6 | 124.7 | 125.9 | 128.2 | 130.3 | 131.7 | 1206 |
| 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 0000 |

Source: Annual Statistical Supplement to the Social Security Bulletin, SSA, 2009.

Appendix E: Self-Insurer Benefits Estimates

This report uses a methodology that incorporates historical data to estimate self-insurance benefits in states that were not able to provide recent information.

That methodology is as follows:

Step A: Calculate the share of payroll that is self-insured (in states where we can).

- Use NASI estimates of total covered payroll for calendar year 2008. This procedure is outlined in Appendix A.
- 2) Obtain total payroll for workers insured by private carriers and competitive state funds for policy years from NCCI. This information is available for a subset of states (about 37-39 states), which we call "NCCI states." (If NCCI payroll for the current year is not available, we use the previous years' share of NCCI payroll to covered payroll to impute the current year NCCI payroll.)
- 3) For each of the NCCI states, use [1] and [2] to estimate the payroll covered by self-insurers. This is given by [1]-[2].
- 4) For the NCCI states, use [1] and [2] to estimate the percent of payroll covered by self-insurers. The percentage of payroll covered by self-insurers is [3] / [1].
 - (A similar procedure is used for New Jersey using payroll data from the New Jersey Compensation Rating &Inspection Bureau.)

Step B: Calculate the share of benefits that is self insured (in states where we can); and

- Compile state-reported data on self insured benefits where we can.
- Estimate total benefits in states that report selfinsured benefits.
- 7) Calculate the share of total benefits that is self-insured in states where we can by dividing self insured benefits by total benefits. [5]/ [6].

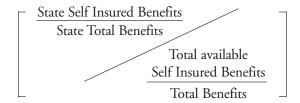
Step C: In states where we have both shares described above, calculate the average relationship between the two shares.

8) For each state where we have a self-insured share of payroll [4] and a self-insured share of

- benefits [7], calculate the ratio between the two shares. This ratio is [7] / [4].
- 9) Determine the number of states where we have both shares. There were 27 such states in 2008.
- 10) Calculate the average ratio between the two shares for the 27 states. The average ratio in 2008 is 69.8 percent (Table E1). That is, on average, the share of benefits that is self insured is about 69.8 percent of the share of payroll that is self-insured in states where we have both pieces of information.

Step D: For those states where we have prior years' data on self-insured benefits, use the latest available year's self-insured benefits to self-insured payroll ratio to estimate the self-insured benefits for 2008.

11) The self-insurance data has been imputed using previous years' data in 3 states where they were available. Use the ratio of self-insured benefit ratio of the state to the total self-insured benefit ratio



(in available years) to impute the ratio in the later years when data were not available.

Step E: Use the average relationship between the two shares to estimate the share of benefits that is self-insured in states where we lack that information but have an estimate of the share of payroll that is self insured.

- 12) For each of the NCCI states where we lack self-insured benefit data (39-27=12 states), multiply [4] the percentage of payroll covered by self-insurers by the average ratio in [10].
- 13) The ratio in [12] is used to estimate selfinsured benefits in those 12 states. We get the self-insured benefits by multiplying

(Private Carrier + State Fund Benefits) *
$$\frac{Ratio \ in \ [12]}{(1-Ratio \ in \ [12])}$$

Table E1

Self-Insurer Estimation Results, 2004–2008

Average Ratio of the percent of total benefits paid by self-insurers to the percent of payroll covered by self-insurers, (7)/(4)

| Year | Ratio |
|------|-------|
| 2004 | 68.8 |
| 2005 | 70.4 |
| 2006 | 66.0 |
| 2007 | 66.5 |
| 2008 | 69.8 |
| | |

Step F: For states where we lack both ratios described in A and B (above), use the average share of total benefits that is self-insured in the rest of the states.

For 2008, 33 states reported self-insured benefits. For 13 other states, we imputed self-insured benefits using NCCI payroll data. For three states we used prior year's data to estimate self-insured benefit payments in 2008. Two exclusive state fund states – North Dakota and Wyoming – do not allow self-insurance. For the remaining state – New York – we estimate self-insured benefits based on the average of the other states where we have reported or imputed data

Appendix F: Medical Benefit Estimates

Estimates by the National Academy of Social Insurance (NASI) of the percent of total benefits paid that were for medical care are based on reports from state agencies and from estimates provided by the National Council on Compensation Insurance (NCCI). For 2008, we used the NCCI data for the medical share for thirty-seven states.

The National Council on Compensation Insurance (NCCI) is a private organization that assists private carriers, competitive state funds, and insurance commissioners in setting workers' compensation rates in selected states. NCCI provided NASI estimates of

the percent of private carrier benefits paid that were for medical care in thirty-seven states. For seven states we used the agency information on medical share given to NASI by the state agencies. For California, Delaware, New Jersey, New York, and Pennsylvania, we used data on calendar year paid medical benefits data provided by rating bureaus. For two states, West Virginia and Wyoming, neither state reports nor NCCI estimates of medical benefits were available. For these states, the weighted average of the share of total benefits that were for medical care in the other forty-nine jurisdictions was used.

Appendix G: Deductible Benefit Estimates

NASI has five methods for estimating deductible benefits and total benefits, depending on what is reported by the state.

Method A:

State reports deductible amounts.

Method: Use deductible amount reported by state agencies or rating bureaus.

Seven States: Arizona, Delaware, Minnesota, North Dakota, Oregon, Pennsylvania, and South Carolina.

Method B:

States say deductibles are included in their totals, but do not report amounts of deductibles.

Method: Estimate deductibles by subtracting Net Losses Paid as reported by A.M. Best from state report.

Thirteen States: Alabama, Alaska, California, Hawaii, Maryland, Massachusetts, Michigan, Missouri, Montana, New Jersey, New Mexico, South Dakota, and Virginia.

Note: Before using A.M. Best data, state fund and private carrier data are separated out from both data reported by A.M. Best and state agencies (where necessary, i.e., where A.M. Best or the state agency classify as private carrier an entity that we classify as a state fund).

Method C:

Deductibles are not allowed in the state.

Method: Use state reports as totals. Deductibles equal zero.

Five States: Ohio, Washington, West Virginia, Wisconsin, and Wyoming.

Method D:

State does not report benefit amounts. Deductibles are allowed.

Method: Use Net Losses Paid as reported by A.M. Best and add estimated deductibles, based on the ratio of Manual Equivalent Premiums.

Twenty-three Jurisdictions: Arkansas, Colorado, Connecticut, the District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Mississippi, Nebraska, New Hampshire, North Carolina, Oklahoma, Rhode Island, Tennessee, Utah, and Vermont.

Method E:

State does not report benefit amounts. Deductibles are allowed. Manual Equivalent Premiums are not available.

Method: Estimate the average ratio of Manual Equivalent Premiums from those states where it is available. Use this average with the Net Losses paid as reported by A.M. Best to impute deductibles. Two States: New York and Texas.

Appendix H: Federal Programs

Various federal programs compensate certain categories of workers for disabilities caused on the job and provide benefits to dependents of workers who die of work-related causes. Each program is described briefly below along with an explanation of whether and how it is included in our national totals of workers' compensation benefits. Our aim in this report is to include in national totals for workers' compensation those federally administered programs that are financed by employers and that are not otherwise included in workers' compensation benefits reported by states, such as the benefits paid under the Federal Employees' Compensation Act. Programs that cover private sector workers and are financed by federal general revenues, such as the Radiation Exposure Compensation Act, are not included in our national totals for workers' compensation benefits and employer costs. More detail on these programs is given below.

Federal Employees. The Federal Employees' Compensation Act of 1916 (FECA), which superseded previous workers' compensation laws for federal employees, provided the first comprehensive workers' compensation program for federal civilian employees. In 2008, total benefits were \$2,676 million, of which 30 percent were for medical care. The share of benefits for medical care is lower than in most state programs because federal cash benefits, particularly for higher-wage workers, replace a larger share of pre-injury wages than is the case in most state programs. Administrative costs of the program were \$143 million in calendar year 2008, or 5.3 percent of total benefits (U.S. DOL, 2010). Table H1 reports benefits and administrative costs for federal civilian employees under the Federal Employees' Compensation Act in 1997 through 2008. These benefits to workers and costs to the federal government as employer are included in national totals in this report, and are classified with federal programs.

Longshore and Harbor Workers. The Longshore and Harbor Workers' Compensation Act (LHWCA) requires employers to provide workers' compensation protection for longshore, harbor, and other maritime workers. The original program, enacted in 1927, covered maritime employees injured while working over navigable waters because the Supreme Court held that the Constitution prohibits states from

extending coverage to such individuals. The Longshore and Harbor Workers' Compensation Act (LHWCA) is a federal workers' compensation program for maritime employees injured while working over navigable waters, excluding the master or crew of a vessel. It also covers other workers who fall outside the jurisdiction of state programs, such as employees on overseas military bases, those working overseas for private contractors of the United States, and private employees engaged in offshore drilling enterprises.

Private employers cover longshore and harbor workers by purchasing private insurance or self-insuring. In fiscal year 2008, about 560 self-insured employers and insurance companies reported a total of 29,170 lost-time injuries to the federal Office of Workers' Compensation Programs. Total benefits paid under the Act in 2008 were \$983 million, which included \$504 million paid by private insurance carriers, \$340 million paid by self-insured employers, \$128 million paid from the federally administered special fund for second injuries and other purposes, and \$10 million for the District of Columbia Workers' Compensation Act (DCCA) Fund. Federal direct administrative costs were \$12.7 million or about 1.3 percent of benefits paid (Table H2). The Academy's data series on benefits and costs of workers' compensation includes at least part of the benefits paid by private carriers under the LHWCA in the states where the companies operate. The benefits are not identified separately in the information provided by A.M. Best and state agencies. Benefits paid by private employers who self-insure under the Longshore and Harbor Workers' Compensation Act are not reported by states or A.M. Best. Consequently, these benefits and employer costs are included with federal programs in this report. Table H-2 shows benefits reported to the U.S. Department of Labor by insurers and self-insured employers under the Longshore and Harbor Workers' Compensation Act in 1997 through 2008. Ideally, benefits and employer costs under the LHWCA would be counted in the states where the employee is located, because our estimates of covered employment and covered workers count these workers and wages in the states where they work. We believe that at least part of LHWCA benefits paid through private insurance carriers are included in state data that are reported to us by

| Table H1 Federal Employees' Compensation Act, Benefits and Costs, 1997–2008 (in thousands) | pensation | Act, Benefi | ts and Cost | s, 1997–20 | 108 (in thou | ısands) | | | | | | |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---|----------------------------|----------------------------|
| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| Total Benefits | \$1,900,779 | \$2,009,862 | \$1,999,915 | \$2,118,859 | \$2,223,088 | 2,317,325 | 2,367,757 | 2,445,077 | 2,462,059 | 2,462,059 2,454,861 | 2,586,700 | 2,676,370 |
| Compensation Benefits Medical Benefits % Medical | 1,440,867 459,912 24 | 1,536,430 473,432 24 | 1,474,168 525,747 26 | 1,576,354 542,505 26 | 1,600,031 623,057 28 | 1,651,947 665,378 29 | 1,698,273 669,484 28 | 1,749,397 695,680 28 | 1,791,003 671,056 27 | 1,791,003 1,767,926 671,056 686,935 27 28 | 1,833,958 752,742 29 | 1,878,331 798,039 30 |
| Direct Administrative Costs Total Costs | 80,893 1,981,672 | 80,235 | 87,425 2,087,340 | 91,532 2,210,391 | 109,326 2,332,414 | 115,226 2,432,551 | 130,672 2,498,429 | 131,920 2,576,997 | 128,536 2,590,595 | 137,386 2,592,247 | 143,768 2,730,468 | 142,532 2,818,902 |
| Indirect Administrative Costs ^a | 6,835 | 5,750 | 5,584 | 6,197 | 5,056 | 4,596 | 4,806 | 4,587 | 5,494 | 7,619 | 6,774 | 7,756 |
| a Includes legal and investigative support from the Office of the Solicitor and the Office of the Inspector General. Funded by General Revenues. Source: U.S. DOL 2010. | ive support f | rom the Office | of the Solicito | r and the Offi | ce of the Inspec | ctor General. | Funded by Ge | eneral Revenu | ŝ | | | |

Table H2

Longshore and Harbor Workers' Compensation Act, Benefits, Costs and Number of DBA Death Claims, 1997-2008 (Dollars in thousands)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Benefits | \$617,927 | \$642,321 | \$659,800 | \$671,991 | \$689,149 | \$700.563 | \$716,218 | \$747,321 | \$795,466 | \$879,508 | \$923,045 | \$983,050 |
| Insurance Carriers | 219,352 | | 232,778 | 249,671 | 236,726 | 246,603 | 262,753 | 278,887 | 325,027 | | 456,773 | 504,348 |
| Self-Insured Employers | 263,255 | 261,559 | 283,991 | 278,952 | 307,708 | 310,940 | 309,843 | 322,520 | 325,694 | 368,744 | 325,544 | 340,336 |
| LHWCA Special Fund | 123,772 | 129,777 | 131,152 | 131,564 | 133,374 | 131,684 | 132,504 | 135,073 | 134,230 | 132,933 | 130,673 | 128,372 |
| DCCA Special Fund | 11,548 | 12,521 | 11,879 | 11,804 | 11,341 | 11,336 | 11,118 | 10,841 | 10,515 | 10,206 | 10,055 | 9,994 |
| DBA benefits ^a | 6,108 | 7,691 | 5,452 | 8,583 | 9,411 | 7,582 | 11,338 | 30,02 | 762,65 | 115,758 | 170,231 | 199,837 |
| Number of DBA Death Claims | 4 | 1 | 3 | 3 | 5 | _ | 99 | 231 | 284 | 338 | 426 | 289 |
| Total Annual Assessments | 121,300 | 122,000 | 141,300 | 145,700 | 145,000 | 136,000 | 135,800 | 148,500 | 146,500 | 135,500 | 135,000 | 132,500 |
| LHWCA | 110,000 | 111,000 | 130,000 | 133,000 | 133,000 | 125,000 | 125,000 | 137,000 | 135,000 | 125,000 | 125,000 | 124,000 |
| DCCA | 11,300 | 11,000 | 11,300 | 12,700 | 12,000 | 11,000 | 10,800 | 11,500 | 11,500 | 10,500 | 10,000 | 8,500 |
| Administrative Expenses ^b | 9,356 | 9,821 | 10,822 | 11,144 | 11,713 | 11,945 | 12,270 | 12,510 | 12,568 | 12,715 | 12,725 | 12,667 |
| General Revenue | 8,378 | 8,596 | 8,947 | 9,373 | 6,807 | 9,988 | 10,297 | 10,495 | 10,553 | 10,691 | 10,699 | 10,633 |
| Trust Fund | 826 | 1,225 | 1,875 | 1,771 | 1,906 | 1,957 | 1,973 | 2,015 | 2,015 | 2,024 | 2,026 | 2,034 |
| Indirect Administrative Costs ^c | 1,799 | 2,107 | 2,247 | 1,787 | 2,207 | 2,514 | 2,347 | 2,396 | 2,019 | 2,115 | 2,437 | 1,856 |

Included in Total Benefits. Defense Base Act benefits are paid for injuries or deaths of employees working overseas for companies under contract with the U.S. government.

Source: U.S. DOL 2010.

ciary responsibility for a Special Fund, which draws its revenue primarily from annual industry assessments based on anticipated benefit liabilities. This fund makes direct benefit payments Longshore program administrative funding is divided between two sources. Industry oversight and claims activities are funded from general tax revenues. The program also exercises fidufor certain categories of claims and provides funding for the program's rehabilitation staff and Special Fund oversight activities. а

Includes legal and investigative support from the Office of the Solicitor and the Office of the Inspector General. Funded by General Revenues.

A.M. Best or the states. At the same time, selfinsured employers under the LHWCA are not included in A.M. Best data and are unlikely to be included in state reports; benefits paid from the LHWCA special funds are not included in state data. Thus, for 1997–2008 data, our estimates of total federal benefits include benefits paid by selfinsured employers and the special funds under the LHWCA. Unless otherwise specified, we assume that privately insured benefits under the program are included in state reports. Whether and how LHWCA benefits can be reflected in state reports is a subject for analysis. Total benefits under the Longshore and Harbor Workers' Compensation Act include benefits paid under the Defense Base Act (DBA). Under the DBA, benefits are paid for injuries or deaths of employees (of any nationality) working overseas for companies under contract with the United States government. These benefits are also shown separately in Table H2. Total payments rose from about \$8 million in 2002 to \$200 million in 2008. The number of DBA death claims per year rose from single digits prior to 2003, to 426 in 2007. The increase reflects, in large part, claims and deaths of employees of companies working under contract for the U.S. government in the war zones in Iraq and Afghanistan. Reversing the trend, the number of DBA death claims fell to 289 in 2008.

Coal Miners with Black Lung Disease. The Black Lung Benefits Act, enacted in 1969, provides compensation for coal miners with pneumoconiosis, or black lung disease, and their survivors. The program has two parts. Part B is financed by federal general revenues, and was administered by the Social Security Administration until 1997 when administration shifted to the U.S. Department of Labor. Part C is paid through the Black Lung Disability Trust Fund, which is financed by coal-mine operators through a federal excise tax on coal that is mined and sold in the United States. In this report, only the Part C benefits that are financed by employers are included in national totals of workers' compensation benefits and employer costs in 1997-2008. Total benefits in 2008 were \$531 million, of which \$262 million was paid under Part B and \$269 million was paid under Part C. Part C benefits include \$37 million for medical care. Medical benefits are available only to Part C beneficiaries and only for diagnosis and treatment of black lung disease. Medical benefits are a small share of black lung benefits because many

of the recipients of benefits are deceased coal miners' dependents, whose medical care is not covered by the program. Federal direct administrative costs were \$38 million or about 7.2 percent of benefit payments. Table H3 shows benefits under the Black Lung Benefit program in 1997 through 2008 for both parts of the program. Its benefits are paid directly by the responsible mine operator or insurer, from the federal Black Lung Disability Trust Fund, or from federal general revenue funds. No data are available on the experience of employers who self-insure under the Black Lung program. Any such benefits and costs are not reflected in Table H3 and are not included in national estimates.

Energy Employees. The Energy Employees Occupational Illness Compensation Program Act (EEOICPA) provides lump-sum payments up to \$150,000 to civilian workers (and/or their survivors) who became ill as a result of exposure to radiation, beryllium, or silica in the production or testing of nuclear weapons and other materials. This is Part B of the program, which went into effect in July 2001. It provides smaller lump-sum payments to individuals previously found eligible for an award under the Radiation Exposure Compensation Act. Medical benefits are awarded for the treatment of covered conditions. Total benefits in 2008 were \$605 million, of which \$517 million were paid as compensation benefits (U.S. DOL, 2009a). The EEOICPA originally included a Part D program that required the Department of Energy (DOE) to establish a system for contractor employees and eligible survivors to seek DOE assistance in obtaining state workers' compensation benefits for work-related exposure to toxic substances at a DOE facility. In October 2004 Congress abolished Part D, creating a new Part E program to be administered by the Department of Labor. Part E provides benefit payments up to \$250,000 for DOE contractor employees, eligible survivors of such employees, and uranium miners, millers, and ore transporters. Wageloss, medical, and survivor benefits are also provided under certain conditions. Total Part E benefits in 2008 were \$469 million. Benefits under both Part B and Part E are financed by general revenues and are not included in our national totals. Table H4 provides information on both Part B and Part E of the EEOICPA, as amended.

Table H3

Black Lung Benefits Act, Benefits and Costs, 1997–2008 (in thousands)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|--|-------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Benefits | \$1,095,585 \$1,000,383 | \$1,000,383 | \$982,787 | \$927,973 | \$866,069 | \$821,678 | \$775,098 | \$719,065 | \$665,844 | \$616,039 | \$569,300 | \$531,018 |
| Part C Compensation | 388,656 | 373,707 | 360,470 | 346,903 | 332,620 | 316,585 | 303,724 | 289,699 | 276,413 | 262,026 | 248,375 | 231,261 |
| Part C Medical Benefits | 92,041 | 80,450 | 74,776 | 69,322 | 61,136 | 65,756 | 59,739 | 52,992 | 49,244 | 41,552 | 38,545 | 37,492 |
| Part B Compensation | 614,888 | 546,226 | 547,541 | 511,748 | 472,313 | 439,337 | 411,635 | 376,374 | 340,187 | 312,461 | 282,380 | 262,265 |
| Total Direct Administrative Costs | sts 25,759 | 31,030 | 33,246 | 32,866 | 34,657 | 36,123 | 37,393 | 38,057 | 37,917 | 38,453 | 38,749 | 38,009 |
| Part C (DOL) | 25,759 | 26,698 | 29,023 | 28,591 | 29,897 | 31,488 | 31,991 | 32,157 | 32,724 | 33,182 | 33,374 | 32,648 |
| Part B (SSA) | * | 4,332 | 4,223 | 4,275 | 4,760 | 4,635 | 5,402 | 5,900 | 5,193 | 5,271 | 5,375 | 5,361 |
| Trust Fund Advances from U.S. Treasury ^a | 370,000 | 360,000 | 402,000 | 490,000 | 505,000 | 465,000 | 525,000 | 497,000 | 446,000 | 445,000 | 426,000 | 426,000 |
| Interest Payments on Past Advances | 470,635 | 494,726 | 515,016 | 541,117 | 567,814 | 595,589 | 620,582 | 650,579 | 674,894 | 694,964 | 717,214 | 739,469 |
| Coal Tax Revenues Received by the Black Lung Trust Fund | 635,342 | 634,270 | 569,704 | 512,799 | 511,520 | 588,000 | 480,080 | 577,575 | 620,420 | 598,520 | 650,432 | 646,800 |
| Indirect Administrative Costs ^b | 19,903 | 20,115 | 20,882 | 21,348 | 22,207 | 23,050 | 23,459 | 23,914 | 24,424 | 25,242 | 26,020 | 25,473 |
| | | | | | | | | | | | | |

information not available

Total Trust Fund debt (cumulative advances) at the end of CY 2008 was \$10,483,557,000. In the recent past, most, if not all, of these advances were necessary to pay interest charges on past debt. ч

Office of Administrative Law Judges (OALJ) and the Benefits Review Board (BRB). (Note: OALJ and BRB costs are not included for any other program, but cannot be separately identi-Includes legal and investigative support from the Office of the Solicitor and the Office of the Inspector General, services provided by the Department of the Treasury, and costs for the fied for Coal Mine Workers' Compensation.) P

Source: U.S. DOL 2010.

Workers Exposed to Radiation. The Radiation Exposure Compensation Act of 1990 provides lumpsum compensation payments to individuals who contracted certain cancers and other serious diseases as a result of exposure to radiation released during above ground nuclear weapons tests or during employment in underground uranium mines. The lump-sum payments are specified in law and range from \$50,000 to \$100,000. From the beginning of the program through March 2010, 22,283 claims were paid for a total of \$1,485 million, or roughly \$66,627 a claim (U.S. DOJ, 2010). The program is financed with federal general revenues and is not included in national totals in this report. Table H5 shows cumulative payments under the Radiation Exposure Compensation Act since its enactment in 1990.

Veterans of Military Service. U.S. military personnel are covered by the federal veterans' compensation program of the Department of Veterans Affairs, which provides cash benefits to veterans who sustained total or partial disabilities while on active duty. In the fiscal year 2008, 2.9 million veterans were receiving monthly compensation payments for service-connected disabilities. Of these, 54 percent of the veterans had a disability rating of 30 percent or less, while the others had higher-rated disabilities. Total monthly payments for the disabled veterans and their dependents were \$2.5 billion in 2008, or about \$30.3 billion on an annual basis (U.S. Department of Veterans Affairs, 2008). Veterans' compensation is not included in our national estimates of workers' compensation.

Table H4Energy Employees Occupational Illness Compensation Program Act, Part B and Part E Benefits and Costs, 2001-2008 (in thousands)

| | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
|--|--------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Total Benefits Part B | \$67,341 | \$369,173 | \$303,981 | \$275,727 | \$392,503 | \$502,636 | \$561,824 | \$605,338 |
| Compensation Benefits Medical Benefits ^a | 67,330 11 | 363,671 5,502 | 288,274 15,707 | 250,123 25,604 | 358,751 33,752 | 460,494 42,142 | 490,089 71,735 | 517,383 87,955 |
| Direct Administrative Costs ^b | 30,189 | 69,020 | 65,941 | 94,158 | 106,818 | 104,872 | 107,417 | 92,075 |
| Total Benefits Part E ^C | n/a | n/a | n/a | n/a | 268,635 | 270,598 | 409,100 | 468,982 |
| Compensation Benefits Medical Benefitsd | n/a n/a | n/a n/a | n/a n/a | n/a n/a | 268,586 49 | 269,558 1,040 | 407,277 1,823 | 465,742 3,240 |
| Direct Administrative Costs ^b | n/a | n/a | n/a | n/a | 39,295 | 55,088 | 61,671 | 59,152 |

- a Medical payments made for claimants eligible under Part B only and claimants eligible under both Part B and Part E.
- b Part B costs for 2002-08 include funding for the Department of Health and Human Services/National Institute for Occupational Safety and Health's conduct of dose reconstructions and Special Exposure Cohort determiniations. For 2002, these costs were \$32.7 million; 2003, \$26.8 million; 2004, \$51.7 million; 2005, \$50.5 million; 2006, \$58.6 million; 2007, \$55.0 million; and 2008, \$41.5 million. Part E costs for 2005-08 include funding for an Ombudsman position. For 2005, these costs were \$0.3 million; 2006, \$0.6 million; 2007, \$0.8 million; and 2008, \$0.8 million.
- c The Energy Part E benefit program was established in October 2004.
- d Medical payments made for claimants eligible under Part E only.

Source: U.S. DOL 2010.

Table H5

Radiation Exposure Compensation Act, Benefits Paid as of March 22, 2010 (benefits in thousands)

| Claim Type | Claims | Benefits |
|--------------------|--------|-------------|
| Downwinder | 14,054 | \$702,670 |
| Onsite Participant | 1,414 | 101,194 |
| Uranium Miner | 5,225 | 521,775 |
| Uranium Miller | 1,325 | 132,500 |
| Ore Transporter | 265 | 26,500 |
| TOTAL | 22,283 | \$1,484,639 |
| | | |

Source: U.S. DOJ 2010.

Table H6 provides information on the Veterans' Compensation program. This program is somewhat similar to workers' compensation in that it is financed by the employer (the federal government) and compensates for injuries or illness caused on the job (the armed forces). It is different from other workers' compensation programs in many respects. With cash benefits of about \$30.3 billion in 2008, veterans' compensation is about 101.3 percent of the size of total cash benefits in other workers' compen-

sation programs, which were \$29.9 billion in 2008. Because it is large and qualitatively different from other programs, veterans' compensation benefits are not included in national totals to measure trends in regular workers' compensation programs.

Railroad Employees and Merchant Seamen.

Finally, federal laws specify employee benefits for railroad workers involved in interstate commerce and merchant seamen. The benefits are not workers' compensation benefits and are not included in our national totals. Instead, these programs provide health insurance and short-term and long-term cash benefits for ill or injured workers whether or not their conditions are work-related. Under federal laws, these workers also retain the right to bring tort suits against their employers for negligence in the case of work-related injuries or illness (Williams and Barth, 1973).

This report includes in national totals for workers' compensation those federal programs that are financed by employers and that are not otherwise included in workers' compensation benefits reported by states in 1997 through 2008. The accompanying tables provide detailed information on federally administered programs, including some that are not included in national totals in this report.

Table H6

Federal Veterans' Compensation Program, Compensation Paid in Fiscal year 2008 (benefits in thousands)

| Class of Dependent | Number | Monthly Value |
|--|-----------|---------------|
| Veteran Recipients - total | 2,952,292 | \$2,522,846 |
| Veterans less than 30 percent disabled (no dependency benefit) | 1,592,677 | 336,339 |
| Veterans 30 percent or more disabled | 1,359,615 | 2,186,507 |

Appendix I: Workers' Compensation under State Laws

Table I illustrates the benefit parameters which form the basis for the data estimated in this report. The table is taken from the IAIABC (International Association of Industrial Accident Board and Commissions) and WCRI (Workers Compensation Research Institute) joint publication of *Workers' Compensation Laws* (IAIABC-WCRI, 2009). The state laws are as of July 2008.

The benefit parameters defined in this table portray the workers' compensation differences across states. The difference may lie in (a) when the first day of disability begins (b) compensation that is included in determining the "wage" (c) periods over which the average wage is calculated (d) caps on wages earned by the injured worker (e) differences in calculation of compensation rate, etc.

For each state the table describes:

- The waiting period before a worker receives benefits.
- The maximum benefit payments and length of benefit payments for Temporary Total Disability.
- The weekly payments and benefit limitations for Permanent Total Disability.
- The maximum weekly benefit and benefit limitations for Permanent Partial Disability.
- The maximum weekly benefit and benefit limitations for Death Benefits.

Table 1 Workers' Compensation Under State Laws, July 1, 2008 $^{\rm K}$

| | Waiting Period, Jul 08 | iod, Jul 08 | Temporary Tot | Temporary Total Disability, Jul 08 | | Per | Permanent Total Disability, Jan 08 | ability, Jan 08 | | Permane | Permanent Partial | Death Beng | Death Benefits, Jan 08 |
|------------|--|----------------------|---|--|--|---|---|--|---|---|---|---|--|
| | | | | Limitations | | We | Weekly Payments | Benefit Limitations | ations | | Benefit Limitations | | Benefit Limitations |
| State | Waiting Period before a worker can receive Indemnity | Retroactive | Maximum Weekly Benefit Allowed | Maximum Length of TTD Benefits (in weeks) | Intended benefit as a % of Weekly | Maximum | Maximum as a % of SAWW | Maximum Length of PTD Benefits | Total Maximum Monetary PTD benefit | Maximum Weekly Benefit Allowed | Maximum PPD benefits for "Unscheduled Injury" (weeks) | Maximum Weekly Benefit Allowed | Statutory Limit for Dependency Benefits |
| Alabama | 3 days | 21 days | \$706.00 | Duration of TTD disability | 66 2/3% PIWW | 706.00 | 100 | Benefits are for the length of disability and may be paid for life | None | \$220.00 | 300 | \$706.00 | 500 weeks |
| Alaska | 3 days | More than 28 days | \$939.00 | Continue until employee is medically stable or released to work | %08 %08 | 901.00 | 120 | Benefits are for the length of disability and may be paid for life | None | \$901 if paid weekly | No unscheduled PPD | 939.00 | \$12 years of benefits |
| Arizona | 7 days | 14 calendar days | \$466.06 with dependents /\$460.25 without | Duration of TTD disability | 66 2/3% AMW | 461.60 | 66 2/3% of average monthly wage maxi mum of \$3000.00 | Benefits are for the length of disability and may be paid for life | None | depends on the percent of disability | None | \$461.60 | None |
| Arkansas | 7 days | 2 weeks | \$522.00 | 450 | 66 2/3% PIWW | 522.00 | 85 | Benefits are for the length of disability and may be paid for life8 | None | \$392.00 | 450 | \$522.20 | 450 week limit for partial dependents |
| California | 3 days | 14 calendar days | \$916.33 | 104 ^a | 66 2/3% AWW 1 | \$230/wk below 70% of PPD; \$270/wk over 70% PPD | established legislatively | For the number of weeks allowed a specific disability or for life if 100% disability : | Depends on the number of weeks for the disability and the com- pensation rate-there is no limit for 100% life- time disability | \$230 if the impairment is below 70% and \$270 above 70% | not applicable | \$958.01 | None |
| Colorado | 3 days | 14 calendar days | \$786.17 | Duration of TTD disability | 66.2/3% PIWW | 786.17 | 91 | Benefits are for the length of disability and may be paid for life | None | \$247.42 is weekly rate for all scheduled injuries; \$786.17 weekly is maximum for calculating unscheduled injuries | 400) | \$786.17 | None |

| None | | \$1,288.00 | Maximum payable is \$150,000 | \$150,000 for surviving spouse with no dependents |
|---|---|--|--|---|
| \$1,077.00 | \$726.18 | 500 week limit for all disability and worker may petition for an additional 167 weeks | \$746.00 | \$500.00 |
| 520 | 300 | \$1,288.00 | 2 weeks for each % of impairment from 1-10%; 3 weeks from 11-15%; 4 weeks from 16-20%; and 6 weeks for each rating over 21% | 300 |
| \$853.00 | \$605.15 | The first \$75,000 in benefits for death or PTD shall be paid by the employer/ insurer. Amounts over \$75,000 are paid from leath and PTD Trust Fund | \$746.00 | \$500.00 |
| None | Maximum payment per impairment is limited to 300 weeks, but can receive benefits for multiple impairment | | None | None |
| Benefits are for the length of disability | and may be paid for life Benefits are limited to 300 weeks per loss or impairment but maybe paid for life for 100% disability | 500 weeks for all disability benefits with ability to petition for an additional 167 weeks | Benefits are payable to age 75. If the injury occurred after age 70, benefits are payable during continuance of PTD not to exceed 5 years following determination of PTD tion of PTD | Benefits are for the length of disability and may be paid for life |
| 100 | 66 2/3 | 100% of the DC employed average weekly wage | 100 | legislative decision |
| 1,077.00 | 605.15 | 1,288.00 | 746.00 | 500.00 |
| 75% of spendable | 66 2/3% AWW up to the maximum at the date permanent impairment becomes fixed | 66 2/3% PIWW | 66 2/3% PIWW | Do not have PTD benefits, but do have catastrophic injuries ^d which are paid at the same rate as TTD |
| Duration of TTD disability | unlimited | 500 weeks for all disability benefits with ability to petition for an additional 167 weeks | 104 | 400 weeks unless catastrophic injury |
| \$1,077.00 | \$605.15 | \$1,288.00 | \$746.00 | \$500.00 |
| 7 calendar days | 7 calendar days | 14 days | 21 days | 21 days |
| 3 days | 3 days | 3 days | 7 days | 7 days |
| Connecticut | Delaware | District of Columbia | Florida | Georgia |

Table I continued

Workers' Compensation Under State Laws, July 1, 2008 $\!^{\rm K}$

| | Waiting Period, Jul 08 | iod, Jul 08 | Temporary To | Temporary Total Disability, Jul 08 | | Pen | Permanent Total Disability, Jan 08 | sability, Jan 08 | | Permane Disabilit | Permanent Partial Disability, Jan 08 | Death Ben | Death Benefits, Jan 08 |
|-----------|---|----------------------------------|---|---|--|----------|------------------------------------|--|---|---|---|--|--|
| | Waiting | | | Limitations | | Wee | Weekly Payments | Benefit Limitations | tations | | Benefit Limitations | | Benefit Limitations |
| State | Period before a worker can receive Indemnity | Retroactive | Maximum Weekly Benefit Allowed | Maximum Length of TTD Benefits (in weeks) | Intended benefit as a % of Weekly | Maximum | Maximum as a % of SAWW | Maximum Length of PTD Benefits | Total Maximum Monetary PTD benefit | Maximum Weekly Benefit Allowed | Maximum PPD benefits for "Unscheduled Injury" (weeks) | Maximum Weekly Benefit Allowed | Statutory Limit for Dependency Benefits |
| Idaho | 5 days | More than 14 calendar days | \$556.20 | Duration of TTD disability | 67% of AWW | 556.20 | 06 | Benefits are for the length of disability and may be paid for life | None | \$339.90 | 200 | \$370.80 | 500 weeks for spouse |
| Illinois | 3 days | 14 calendar days | \$1,178.48 | Duration of TTD disability | 66 2/3 % AWW | 1,178.48 | 133 1/3 | Benefits are for the length of disability and may be paid for life | None | 664.72 | 500 | \$1,178.48 | \$500,000 or 25 years |
| Indiana | 7 days | 14 calendar days | \$636.00 | 200 | 66 2/3% PIWW | 636.00 | established by legislature | 500 weeks | \$318,000 (500 wks x \$636.00/wk) | not applicable | 500 | \$636.00 | 500 weeks |
| Iowa | 3 days | 14 calendar days | \$1,366.00 | Benefits are for length of disability and maybe paid for life | 80% MMN | 1,366.00 | 200 | Benefits are for the length of disability and may be paid for life | None | \$1,257.00 | 500 | \$1,366.00 | None |
| Kansas | 7 days | 3 consecutive weeks | \$529.00 | 225 to 415 weeks depending on type of injury-also maybe a limitation of \$100,000 or \$125,000 for all indemnity benefits depending on types of benefit paid. | 66 2/3% AWW | 529.00 | 75 | Benefits are for the length of disability and may be paid for life or until maximum of \$125,000 is reached. | \$125,000 ⁱ | \$529.00 | 415 weeks but the first 15 weeks does not count toward this maximum | \$529.00 | \$250,000 |
| Kentucky | 7 days | 14 calendar days | \$670.02 | Duration of disability or until receipt of Social Security old age and survivor benefits | 66 2/3% PIWW | 670.02 | 100 | Benefits payable until retirement-based on date worker qualifies for Old Age Social Security | None | \$502.51 | 425 weeks if rating is 50% or less; 520 wks if rating is over 50% | 335.01 for spouse; 402.01 for spouse and child | None |
| Louisiana | 1 week | 6 weeks | \$522.00 | Duration of TTD disability | 66 2/3% PIWW | 522.00 | 75 | Benefits are for the length of disability and may be paid for life | None | \$478.00 | 520 | \$522.00 | Š |
| | | | | | | | | | | | | | |

| 500 weeks or until age 18 for children | Partial dependency benefits may not exceed \$60,000 | None | 500 weeks | Minimum payable is \$60,000 | 450 weeks | None | 500 weeks | None | None unless there are partial dependents only and then 100 months |
|---|---|--|---|---|---------------------|---|--|--|---|
| \$596.42 | \$565.36 | \$1,000.43 | \$739.00 | \$750.00 | \$398.93 | \$772.53 | \$604.00 | \$644.00 | \$784.35 |
| 260 weeks for the duration of disability if PPD is greater than 15% of the body | None | 364 | not applicable | °Z | 450 | 400 | 375 | 300 | PPD benefits paid for 5 years or to age 70, whichever is later |
| \$596.42 | for serious disability 2/3 of AWW not to exceed 75% of SAWW | \$1,000.43 | not applicable | \$750.00 | \$398.93 | \$404.66 | \$302.00 | \$644.00 | \$784.35 |
| None | None | None | None | None | 179,519 | None | None | None | None |
| Benefits are for the length of disability and may be paid for life | 100 Payable for the length of disability and may be for life | Payable for the length of disability and may be for life | 800 weeks con- clusive payment with factual determination thereafter | Payable until retirement which is ssumed to be age 67, but this is rebuttable presumption | 450 weeks | Payable for the of disability and may be for life | 100Payable until retirement | 100 Payable for the length of disability and may be for life | 150 Payable for the length of disability and may be for life |
| 06 | 1001 | 100 | 06 | legislative decision | 662/3 | 105 length | 1000 | 1001 | 150 1 |
| 596.42 | 877.00 | 1,000.43 | 739.00 | 750.00 | 398.93 | 772.53 | 604.00 | 644.00 | 784.35 |
| %08 M.M.N | 66 2/3% PIWW | 66 2/3% PIWW | 80% WMN | 66 2/3% PIWW | 66 2/3% PIWW | 66 2/3% PIWW | 66 2/3% PIWW | 66 2/3% PIWW | 66 2/3% pre-injury AMW |
| 416 weeks | Duration of TTD disability | 156 | Duration of TTD disability | 104 | 450 | 400 | Duration of TTD disability | Duration of TTD disability | Duration of TTD disability |
| \$596.42 | \$877.00 | \$1,000.43 | \$739.00 | \$750.00 | \$398.93 | \$772.53 | \$604.00 | \$644.00 | \$784.35 |
| 14 calendar days | 14 calendar days | 21 days | 14 calendar days | 10 days | 14 calendar days | 14 calendar days | None | 6 weeks | 5 consecutive days or 5 cumulative days within a 20 day period |
| 7 days | 3 days | s 5 days | 7 days | 3 days | 5 days | 3 days | 32 hours or 4 days, whichever is less | 7 days | 5 days |
| Maine | Maryland | Massachuset | Michigan | Minnesota | Mississippi | Missouri | Montana | Nebraska | Nevada |

Table I continued

Workers' Compensation Under State Laws, July 1, 2008 $\!^{\rm K}$

| | Waiting Period, Jul 08 | iod, Jul 08 | Temporary Tot | Temporary Total Disability, Jul 08 | | Peri | Permanent Total Disability, Jan 08 | ability, Jan 08 | | Permane Disabiliu | Permanent Partial Disability, Jan 08 | Death Bene | Death Benefits, Jan 08 |
|-------------------|--|--------------------|------------------------------|------------------------------------|--|----------|------------------------------------|---|----------------------------|------------------------------------|---|------------------------------|---|
| | | | | Limitations | | We | Weekly Payments | Benefit Limitations | utions | | Benefit Limitations | | Benefit Limitations |
| S | Waiting Period before a worker can receive Indemnity | Retroactive | Maximum Weekly Benefit | Maximum Length of TTD Benefits | Intended benefit as a % of | | Maximum as a % | Maximum Length of | Total Maximum Monetary PTD | Maximum Weekly Benefit | Maximum PPD benefits for "Unscheduled Injury" | Maximum Weekly Benefit | Statutory Limit for Dependency |
| New Hampshire | 3 days | 14 | \$1,255.50 disability | Duration of Total | % 09 % MMId | 1,255.50 | 150 | 150 Payable for the length of disability and may be for life | None | \$1,255.00 | 350 weeks for a whole person award | \$1,255.50 | |
| New Jersey | 7 days | 7 calendar days | \$742.00 | 400 | 70% of actual wage at the time of injury | 742.00 | 75 | 75 Payable for the length of disability and may be for life | None | \$742.00 | 009 | \$711.00 | |
| New Mexico | 7 days | 4 weeks | \$635.46 | 700 | 66 2/3% PIWW | 635.46 | 100 | 100 Payable for the length of disability and may be for life | None | \$635.46 | 500 weeks if the rating is less than 80%, 700 weeks if rating is greater | \$595.67 | 100% of the SAWW for 700 weeks |
| New York | 7 days | 14 calendar days | \$550.00 | Duration of TTD disability | 66 2/3% PIWW | 550.00 | set by statute | set by statute Payable for the length of disability and may be for life | None | \$550.00 | Not if date of accident or disability is before March 13, 2007; 525 weeks if date of accident or disability is on or after march 13, 2007 | \$550.00 | None |
| North Carolina | 7 days | 21 days | \$786.00 | Duration of TTD disability | 66 2/3% PIWW | 786.00 | 110 | Payable for the length of disability and may be for life | None | \$786 for scheduled injuries | 300 | \$786.00 | 400 weeks unless widow or widower is physically or mentally disabled |
| North Dakota | 5 days | 5 days | \$689.00 | 104 | 66 2/3% PIWW | 00.689 | 110 | Payable until retirement at which time benefits may switch to ABP | None | \$382.74 x 100% whole body | 100% impairment | \$689.00 | \$250,000 |
| - | | | _ | _ | | _ | _ | _ | _ | _ | _ | _ | |

| None | None | None | None | None | 500 weeks | None | None |
|---|--|---|--|--|---|--|---|
| \$751.00 | \$577.00 | \$1,053.81 | \$836.00 | \$882 plus \$40 per child not to exced 80% of AWW | \$661.29 | \$598.00 | \$752.00 |
| 200 | 200 | Oregon has no scheduled or unscheduled benefits but the theoretical maximum payment for PPD would be \$302,945.73 | Does not have PPD but has specific loss which may be considered similar. | 200 | 340 | 312 | 400 |
| \$751 for scheduled injuries and \$250.33 for unscheduled | \$289.00 | \$790.38 for impairment; \$1051.21 for weekly work loss | \$836.00 | \$90.00 | \$661.29 | \$598.00 | \$752.00 |
| None | None | None | not applicable | None | \$330,645 unless award- ed lifetime benefits | None | Paid during the period of PTD until the employee is, by age, eligible for full (Old Age) benefits under Social security Act |
| Duration of disability and may be for life | Payable for the length of disability and may be for life | Payable for the length of disability and may be for life | not applicable | Payable for the length of disability and may be for life | 500 weeks unless eligible for lifetime benefits | For length of disability and can be for life | Until Social Security eligibility age |
| 662/3 | 100 | 100 | not applicable | 115 | 100 | 100 | 110 |
| 751.00 | 577.00 | 790.38 | not applicable | \$882 plus an addi- tional \$15 up to each dependent up to 80% of the workers's net wage | 661.29 | 598.00 | 752.00 |
| 72% PIWW ^c | %0Z | 66 2/3% PIWW | No PTD; wage loss benefits may con- tinue for life how- ever | 75% NWW | 66 2/3% PIWW | 66 2/3% PIWWf | 66 2/3% PIWW |
| as long as disability lasts | 300 | Duration of TTD disability | Duration of TTD disability subject to conversion to partial benefits at 104 weeks ^b | Duration of TTD disability | Duration of TTD disability with a maximum of 500 weeks | Duration of TTD disability | 400 weeks or for the duration of TTD disability |
| \$751.00 | \$577.00 | \$1,051.21 | \$807.00 | \$882 plus an additional \$15 for each dependent up to 80% of workers's AWW | \$661.29 | \$598.00 | \$827.00 |
| 14 calendar days | None | 14 calendar days | 14 calendar days | None | 14 calendar days | 7 calendar days | 14 days |
| 7 days | 3 days | 3 days | 7 days | 3 days | 7 days | 7 days | 7 days |
| Ohio | Oklahoma | Oregon | Pennsylvania | Rhode Island | South Carolina | South Dakota | Tennessee |

Table I continuedWorkers' Compensation Under State Laws, July 1, 2008^K

| | Waiting Period, Jul 08 | iod. Int 08 | Temporary Tot | Temporary Total Disability, Int 08 | | Peri | Permanent Total Disability, Ian 08 | sability. Ian 08 | | Permane | Permanent Partial | Death Ben | Death Benefits, Ian 08 |
|------------------|--|------------------------------------|---|--|--|----------|------------------------------------|---|---|---|---|---|--|
| | narang ra | oo mi mor | or (modular | tar Lisabanty, Jan 00 | | | | | | Disabilit | Disability, Jan 08 | Todam Don | oo mg (sur |
| | Waiting | | | Limitations | | Weekd | Weekly Payments | Benefit Limitations | tions | | Benefit Limitations | | Benefit Limitations |
| State | watting Period before a worker can receive Indemnity | Retroactive period | Maximum Weekly Benefit Allowed | Maximum Length of TTD Benefits (in weeks) | Intended benefit as a % of Weekly | Maximum | Maximum as a % of SAWW | Maximum Length of PTD Benefits | Total Maximum Monetary PTD benefit | Maximum Weekly Benefit Allowed | Maximum PPD benefits for "Unscheduled Injury" (weeks) | Maximum Weekly Benefit Allowed | Statutory Limit for Dependency Benefits |
| Texas | 7 days | 2 weeks | \$712.00 | 105c | 75% AWW | 712.00 | 100 | 100 For length of disabili- ty and can be for life | None | \$498.00 | 300 | \$712.00 | \$712.00 A minimum of 364 weeks would be paid in a faral claim |
| Urah | 3 days | 14 calendar days | \$702.00 | 312 | 66 2/3% PIWW | 597.00 | 85 | Payble for the length of disabilty and may be for life. PTD status may be rexamined by submitting employee to reasonable medical evaluations; rehabilitation and retraining efforts; disclosure of Federal Income Tax returns | None | \$468.00 | 312 | \$597.00 | 312 weeks of combined benfits PTD |
| Vernont | 3 days | 10 consecutive days | \$1,053.00 | Duration of TTD disability, insurer must review after 2 years | 66 2/3% PIWW | 1,053.00 | 150 | For length of disability and can be for life, PTD status can be reassessed after a minimum of 330 wks. | None | \$1,053.00 | 405 weeks for non-spinal; 550 weeks spinal | \$1,053.00 | |
| Virginia | 7 days | More than 3 cumulative weeks | \$841.00 | 500 | 66 2/3% PIWW | 841.00 | 100 | For length of disability and can be for life | None | \$841.00 | \$841.00 Does not pay for unscheduled PPD | \$841.00 | 500 weeks |
| Washington | 3 days | 14 calendar days | \$1,043.49 | Duration of TTD disability | Depends on the option chosen by employee | 1,043.49 | 120 | For length of disability and can be for life | There is a maximum payment for lump sums only, up to \$88,500 | \$961.43 | None | \$1,043.49 | 18th birthday or 23rd birth- day when enrolled in school, or disabled |
| West Virginia | 4 days | 7 consecutive days | \$640.35 | 104 | 66 2/3% PIWW | 640.56 | 100 | Payable until age 70 | None | \$448.39 | None | \$640.56 | None |
| | | | | | | | | | | | | | |

| \$241,500 | None |
|--|---|
| \$805.00 | 44 months Benefits paid monthly |
| 1,000 | 44 months |
| \$272.00 | None |
| None | None |
| For length of disability and can be for life | Paid for 80 months then benefit becomes "extended PTD" and extended PTD must be renewed annually.h |
| 110 | 100 |
| 805.00 | 543.33 |
| 66 2/3% PIWW | 66 2/3% actual monthly wage unless they cam less than 73% of the SWAMW and then it is 92% of their actual monthly wages |
| Duration of TTD disability | 24 months |
| \$805.00 | \$815.00 |
| 7 days | 8 days |
| 3 days | 3 days |
| Wisconsin | Wyoming |

- There are some limited exceptions where benefits can be paid for 240 weeks. ಇ
- Disability under PA laws means loss of earning power. PA law allows employer/insurere to request "Impairment Rating Examination" after employee has received 104 weeks of full benefit payments. If IRE shows less than 50% impairment based on AMA Guides then benefits are reclassified as partial disability compensation and are subject to a 500-week cap. 9
- An exception to this amount could be made when an extension of MMI based on spinal surgery is approved by the Division. C
- arm, a hand, a foot, or a leg involving the efffective loss of use of that appendage; (3) Svere brain or closed head injury as evidenced by :(A) Severe sensory or motor disturbance; (B) Svere communiconditions at least as severe in nature as any condition provided in subparagraphs (A) through (E) of this paragraph; (4) Second or third degree burns over 25 percent of the body as a whole or third For purposes of this table, "catastrophic Injury" means any injury which is one of the following: (1) Spinal cord injury involving severe paralysis of an at, a leg, or the trunk; (2) Amputation of an degree burns to 5 percent or more of the face and hands; (5) Total or industrial blindness; (6) Any other injury of a nature and sverity that prevents an employee from being able to perform his or ner prior work and any work available in substantila numbers within the national economy for which such employee is otherwise qualified, provided, however, that the injury has not already been cation Disturbance; (C) Severe complex integrated disturbances of cerebral function; (D) Severe disturbances of of consciousness; (E) Severe episodic nerological disaorders; or (F) Other accepted as a catastrophic injury by the employer and the authorizwed treating physician has released the employee to return. Ъ
- 72% of the workers' pre-injury weekly wage for the first 12 weeks and then 66.67 % thereafter.
- If the weekly wage is below 50% of the SAWW the calculation is wages, less income tax and social security.
- Statute restricting benefits to age 65 or 260 weeks if injury occurred after age 60 was held unconstitutional.
- All earned income of the injured worker and all employment based retiremnet income is considered in the calculation of extended benefits. ъ "
- KS has a cap of \$125,000 for Permanent Total and that cap includes any TTD paid.
- Total TTD and PPD for scheduled and unscheduled cannot be greater than \$75,000 if the impairment rating is less than 25% and \$150,000 if more than 25%
- k Workers' Compensation benefit provisions apply to injury dates on and after July 1, 2008 to distinguish them from the benefit levels applicable to most of the calendar year payments shown through the report.

Pre-injury Weekly wage PIWW

Average weekly wage Net weekly wage MMM AWW.W

State-wide average weekly wage SAWW

Average Monthly wage AMW

Source: IAIABC-WCRI (2009)

Appendix J: Second Injury Funds and Guaranty Funds

Second injury funds help reduce the financial impact of a workers' compensation claim in the event a worker with a disability is injured on the job, aggravating pre-existing impairment. Thirty-nine states provided the details of their second injury fund. Details are given in Table J1.

As stated by the annual report of the National Conference of Insurance Guaranty Funds, "The purpose of state guaranty associations is to provide a mechanism for the prompt payment of covered claims of an insolvent insurer, as those terms are defined and limited by guaranty association statutes, so that catastrophic financial loss to certain claimants and policyholders may be avoided." Guaranty Funds

cover the outstanding claims of insolvent insurance companies, the property and casualty guaranty fund system. It is a measure of protection to policyholders, beneficiaries and their families who otherwise would experience lengthy delays getting resolution of their claim, usually receiving only a fraction of the amount due from the insurer (NCIGF, 2009). The Self-Insurance Guaranty Funds help pay the covered workers' compensation claims of insolvent self-insurers.

There were 15 Insurance Guaranty Funds and seven Self-Insurance Guaranty Funds that responded to NASI's Annual Survey 2008. Table J2 and J3 show the totals of these Guaranty funds.

Table J1Second Injury Funds, 2004–2008

| States | 2004 | 2005 | 2006 | 2007 | 2008 |
|----------------|---------------|---------------|---------------|---------------|---------------|
| Alabama | - | - | - | - | - |
| Alaska | 3,741,900 | \$3,077,376 | \$2,899,258 | \$2,816,244 | \$4,105,087 |
| Arizona | 15,843,106 | 14,987,418 | 12,930,595 | 14,767,509 | 16,471,784 |
| Arkansas | 5,265,627 | 4,476,335 | 5,449,794 | 7,691,254 | 5,617,056 |
| California | 2,179,048 | 11,320,944 | 13,499,992 | 14,331,184 | 11,017,260 |
| Colorado | 9,229,036 | 8,687,027 | 9,519,611 | 8,504,329 | 8,227,347 |
| Connecticut | 36,625,832 | 37,385,612 | 37,460,632 | 35,037,646 | 39,707,328 |
| Delaware | 5,756,422 | 5,376,976 | 5,735,647 | 5,886,482 | 5,789,453 |
| D.C. | 5,7 50,122 | - | - | - | - |
| Florida | _ | _ | _ | _ | _ |
| Georgia | 97,597,368 | 112,332,534 | 145,165,702 | 144,036,385 | 146,692,209 |
| Hawaii | 17,337,008 | 15,765,723 | 18,805,177 | 18,243,489 | 15,820,705 |
| Idaho | 3,757,049 | 2,351,863 | 3,740,423 | 2,437,468 | 1,051,534 |
| Illinois | 11,902,467 | 1,189,143 | 1,189,143 | 1,426,000 | 2,703,635 |
| | | | | | |
| Indiana | 3,051,575 | 3,450,365 | 1,072,277 | 2,609,113 | 1,094,521 |
| Iowa | 1,292,545 | 1,809,044 | 1,862,078 | 3,049,366 | 2,464,790 |
| Kansas | 2,613,523 | 3,992,459 | 3,499,162 | 4,262,638 | 4,262,638 |
| Kentucky | 76,933,413 | 72,997,522 | 70,020,744 | 69,470,590 | 67,591,707 |
| Louisiana | 34,911,465 | 48,206,127 | 38,540,285 | 41,549,518 | 42,181,211 |
| Maine | | - | - | - | - |
| Maryland | 20,414,249 | 19,928,913 | 16,715,724 | 18,171,918 | 17,921,321 |
| Massachusetts | 25,299,116 | 18,539,957 | 26,575,339 | 20,725,671 | 24,078,327 |
| Michigan | 26,851,075 | 22,657,719 | 16,221,899 | 16,253,722 | 14,472,512 |
| Minnesota | 67,051,370 | 64,178,760 | 58,914,988 | 58,621,823 | 49,058,052 |
| Mississippi | 107,349 | 93,405 | 110,860 | 119,113 | 104,549 |
| Missouri | 62,547,853 | 60,960,007 | 63,806,940 | 67,829,414 | 69,641,680 |
| Montana | 631,895 | 1,208,296 | 1,315,806 | 1,510,682 | 1,538,160 |
| Nebraska | 4,442,157 | 4,153,172 | 5,025,729 | 6,805,216 | 6,454,816 |
| Nevada | 2,619,174 | 1,782,825 | 1,970,002 | 2,658,723 | |
| New Hampshire | 4,956,198 | 12,146,443 | 8,602,597 | 7,429,544 | 15,297,755 |
| New Jersey | 138,900,000 | 144,100,000 | 150,700,000 | 163,700,000 | 164,300,000 |
| New Mexico | 2,144,576 | 2,473,629 | 2,248,676 | 1,917,052 | 1,673,734 |
| New York | - | -, -, -, -, | | -,,,,,,, | - |
| North Carolina | - | - | _ | - | - |
| North Dakota | _ | _ | - | - | _ |
| Ohio | | | | | |
| Oklahoma | 20,414,249 | 19,928,913 | 16,715,724 | 18,171,918 | 17,921,321 |
| Oregon | 832,313 | 714,773 | 692,761 | 677,858 | 366,617 |
| Pennsylvania | 278,936 | 252,610 | 246,000 | 264,001 | 686,663 |
| Rhode Island | 2,626,457 | 2,540,658 | | · | |
| | | 147,638,624 | 2,828,762 | 2,617,824 | 2,673,172 |
| South Carolina | 166,947,143 | 14/,020,024 | 118,252,779 | 113,231,699 | 113,715,933 |
| South Dakota | 0.200.700 | 0.717.607 | 9,920,262 | 10 465 012 | 3,856,620 |
| Tennessee | 8,299,700 | 9,717,607 | 8,805,179 | 10,465,012 | 9,073,098 |
| Texas | 480,300 | 462,099 | 341,760 | 484,661 | 632,958 |
| Utah | 22,883,650 | 22,009,500 | 21,167,000 | 20,567,500 | 19,822,500 |
| Vermont | - | - | - | - | - |
| Virginia | - | - | - | - | - |
| Washington | 229,000 | 169,000 | 129,000 | 68,000 | 129,000 |
| West Virginia | 113,814,010 | 111,654,401 | 103,204,303 | 98,002,249 | 96,709,472 |
| Wisconsin | 3,203,671 | 15,913,087 | 12,859,116 | 16,040,676 | 4,170,269 |
| Wyoming | - | - | - | - | - |
| | 1,024,011,825 | 1,030,630,867 | 1,018,761,724 | 1,022,453,489 | 1,009,096,793 |

Table J2 Guaranty Funds, 2004–2008

| States | 2004 | 2005 | 2006 | 2007 | 2008 |
|-------------------------|-------------|-------------|-------------|---|-------------|
| Alabama | - | - | - | - | |
| Alaska | 7,734,513 | \$6,190,940 | \$4,470,911 | \$4,205,913 | \$3,935,517 |
| Arizona | - | - | - | - | |
| Arkansas | 2,723,988 | 1,460,165 | 1,164,849 | 635,795 | 866,097 |
| California | 570,750,382 | 428,048,226 | 337,091,556 | 209,400,799 | 156,705,011 |
| Colorado | 8,898,355 | 5,749,610 | 3,104,251 | 3,219,669 | 3,511,018 |
| Connecticut | - | - | - | - | 3,511,010 |
| Delaware | - | - | _ | _ | |
| D.C. | _ | - | _ | _ | |
| Florida | _ | - | _ | _ | |
| Georgia | 3,229,619 | 3,182,760 | 3,335,965 | 3,351,111 | 1,980,244 |
| Hawaii | 3,227,017 | 5,102,700 | - | 3,371,111 | 1,,,00,21 |
| Idaho | 2,544,471 | 1,686,227 | 1,460,746 | 1,009,512 | 853,681 |
| Illinois | 2,711,1/1 | 1,000,227 | 1,100,710 | 1,007,712 | 0,00,001 |
| Indiana | _ | _ | _ | _ | |
| lowa | 3,471,735 | 3,020,599 | 1,746,052 | 1,194,142 | 1,441,012 |
| Kansas | 6,421,147 | 4,848,908 | 6,825,891 | 2,555,985 | 1,767,431 |
| Kentucky | 0,121,17/ | 1,040,700 | 0,027,071 | 2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,/0/,431 |
| Louisiana | | - | | _ | |
| Maine | - | | - | _ | |
| Maryland | - | - | _ | _ | |
| Massachusetts | - | - | - | _ | |
| Michigan | - | - | _ | _ | |
| Minnesota | 12,046,812 | 14,057,879 | 11,360,818 | 11,631,274 | 10,883,162 |
| | 12,040,012 | 14,0)/,0/9 | 11,300,010 | 11,031,2/4 | 10,000,102 |
| Mississippi Missouri | - | - | - | - | 771,713 |
| Montana | 2,790,863 | 2,223,484 | 2,252,763 | 2,071,797 | 1,855,328 |
| Nebraska | 2,/90,803 | 2,223,404 | 2,232,763 | 2,0/1,/9/ | 1,0)),320 |
| Nevada | - | - | - | 486,432 | |
| | - | - | - | 480,432 | |
| New Hampshire | 2/ 205 100 | 20 (90 207 | 22,244,861 | 10.0(0.202 | 10 721 102 |
| New Jersey | 34,395,180 | 30,480,297 | 22,244,861 | 19,069,203 | 18,731,182 |
| New Mexico | - | - | - | - | |
| New York | - | - | - | - | |
| North Carolina | - | - | - | - | |
| North Dakota | - | - | - | - | |
| Ohio | - | - | - | - | |
| Oklahoma | - (0/000 | 2 200 102 | 2.021 /55 | 1 /00 7/1 | 1 212 521 |
| Oregon | 5,404,990 | 3,388,192 | 2,021,477 | 1,488,741 | 1,212,721 |
| Pennsylvania | 58,008,675 | 58,779,553 | 66,296,225 | 49,748,320 | 43,321,285 |
| Rhode Island | - | - | - | - | |
| South Carolina | - | - | - | - | |
| South Dakota | - | - | - | - | |
| Tennessee | - | - | - | - | |
| Гехаѕ | - | - | - | - | |
| Utah | - | - | - | - | |
| Vermont | - | - | - | - | - |
| Virginia | - | - | - | - | |
| Washington | - | - | - | - | |
| West Virginia | - | 65,492 | - | - | |
| Wisconsin | - | 9,354 | - | - | |
| Wyoming | 21,126 | | 10,704 | 11,084 | 143,557 |
| Total | 718,441,856 | 563,191,685 | 463,387,068 | 310,079,776 | 247,978,959 |

Table J3 Self-Insurance Guaranty Funds, 2004–2008

| States | 2004 | 2005 | 2006 | 2007 | 2008 |
|-----------------|------------|------------|------------|------------|---------------|
| Alabama | _ | - | _ | - | - |
| Alaska | - | - | - | - | - |
| Arizona | - | - | - | - | - |
| Arkansas | - | - | - | - | - |
| California | - | - | - | - | - |
| Colorado | - | - | - | - | - |
| Connecticut | - | - | - | - | - |
| Delaware | _ | - | _ | - | _ |
| D.C. | - | - | _ | _ | _ |
| Florida | _ | - | _ | - | _ |
| Georgia | 793,832 | 291,709 | 367,048 | 273,285 | \$186,321 |
| Hawaii | - | | - | - | ψ100,521 - |
| Idaho | _ | _ | _ | _ | |
| Illinois | _ | _ | _ | _ | _ |
| Indiana | _ | _ | _ | _ | _ |
| Iowa | | | | | |
| Kansas | _ | | _ | _ | |
| Kentucky | | | - | | |
| Louisiana | | - | | | |
| Maine Louisiana | - | - | - | - | _ |
| Maryland | - | - | - | - | |
| Massachusetts | - | - | - | - | - |
| | - | - | | (/20 7(/ | 4 004 060 |
| Michigan | (012.0() | 5 222 9/2 | 6,370,513 | 6,429,764 | 4,994,060 |
| Minnesota | 6,813,066 | 5,233,862 | 4,762,500 | 4,132,056 | 3,947,642 |
| Mississippi | 2.050.004 | 005 701 | 007.000 | 20 (20 0/(| - |
| Missouri | 3,058,004 | 895,781 | 807,008 | 20,620,946 | - |
| Montana | - | - | - | - | - |
| Nebraska | - | - | - | 1(2.01(| - |
| Nevada | - | - | - | 163,816 | - |
| New Hampshire | - | - | - | - | 1 700 000 |
| New Jersey | 200,000 | 100,000 | 100,000 | 900,000 | 1,700,000 |
| New Mexico | - | - | - | - | - |
| New York | - | - | - | - | - |
| North Carolina | - | - | - | - | - |
| North Dakota | - | - | - | - | - |
| Ohio | - | - | - | - | - |
| Oklahoma | - | - | - | - | - |
| Oregon | 363,902 | 409,123 | 350,939 | 364,630 | 371,074 |
| Pennsylvania | 6,024,666 | 4,631,698 | 7,876,377 | 6,223,622 | 4,497,895 |
| Rhode Island | - | - | - | - | - |
| South Carolina | - | - | - | - | - |
| South Dakota | - | - | - | - | - |
| Tennessee | - | - | - | - | - |
| Texas | - | - | - | - | - |
| Utah | - | - | - | - | - |
| Vermont | - | - | - | - | - |
| Virginia | - | | | - | |
| Washington | 981,000 | 1,030,000 | 787,000 | 1,078,000 | - |
| West Virginia | | | 89,873 | 64,769 | - |
| Wisconsin | - | - | - | - | - |
| Wyoming | - | - | - | - | - |
| Total | 18,234,470 | 12,592,174 | 21,511,258 | 40,250,887 | 15,696,992 |

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