Workers' Compensation:

Benefits, Costs, and Coverage

November 2022

 $\frac{NATIONAL}{ACADEMY}$ $OF \cdot SOCIAL$ INSURANCE Washington, DC

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The National Academy of Social Insurance (the Academy) is a nonprofit, non-partisan organization made up of the nation's leading experts on social insurance. Social insurance encompasses broad-based systems that help workers pool risks to avoid loss of income due to retirement, death, disability, or unemployment, and to ensure access to health care. The mission of the Academy is to advance solutions to challenges facing the nation by increasing public understanding of how social insurance contributes to economic security. The Academy convenes steering committees and study panels that are charged with conducting research, issuing findings, and, in some cases, making recommendations based on their analyses. Members of these groups are selected for their recognized expertise in a particular area of social insurance, and with due consideration for the balance of disciplines and perspectives appropriate to the project. This research report presents data on trends in workers' compensation benefits, costs, and coverage as of 2020. The report was prepared with the guidance of the Study Panel on Workers' Compensation Data and, in accordance with procedures of the Academy, has been reviewed for completeness, accuracy, clarity, and objectivity by a committee selected by the Board of Directors. The purpose of the report is to present the data and describe trends over time, but not to make policy recommendations. The Centers for Medicare & Medicaid Services (CMS) provide funding to produce selected tables for this report that are also used in its own estimates. The project also receives in-kind support from the National Council on Compensation Insurance and the National Association of Insurance Commissioners.

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by

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with advice from the

Study Panel on Workers' Compensation Data

November 2022

 $\frac{\text{NATIONAL}}{\text{ACADEMY}}$ $\frac{\text{OF} \cdot \text{SOCIAL}}{\text{INSURANCE}}$ Washington, DC

Preface

Workers' compensation provides funding for medical care, rehabilitation, and wage replacement for workers who are injured on the job or who contract work-related illnesses, and pays survivor benefits to families of workers who die of work-related injuries or illnesses. Unlike most other U.S. social insurance programs, workers' compensation is primarily a state program. Individual states established workers' compensation programs beginning in 1911, before any federal social insurance programs were enacted. No federal laws set standards for the state workers' compensation programs or require comprehensive reporting of workers' compensation data, nor is there any federal financing of these state programs.

The lack of uniform federal standards or reporting requirements for state workers' compensation programs makes it difficult to provide national estimates with uniform definitions of amounts of benefits paid, costs to employers, and numbers of workers covered. In order to produce national summary statistics on the program, it is necessary to compile data from various sources.

Until 1995, the U.S. Social Security Administration (SSA) produced the only comprehensive national data on workers' compensation benefits, costs, and coverage, with annual estimates dating back to 1946. SSA discontinued the series in 1995. The National Academy of Social Insurance (the Academy) assumed the task of reporting national data on workers' compensation in 1997 and has produced the report annually ever since.

This is the Academy's 25th annual report on workers' compensation benefits, costs, and coverage. This report presents new data on state and federal workers' compensation programs for 2020 and updated estimates for 2016-2019. The updated estimates replace estimates in the Academy's prior reports. This report shows five-year trends in benefits, costs, and coverage, as have been reported in prior years. However, this report also shows the one-year change in data between 2019 and 2020 to highlight the year-over-year changes in benefits, costs, and coverage related to the COVID-19 pandemic. Statistical data for Puerto Rico and other U.S. territories are not included in this report. Detailed descriptions of the methods used to produce the estimates in this report are available online at **nasi.org**

The Academy and its expert advisors are continually seeking ways to improve the report and to adapt estimation methods to track new developments in workers' compensation programs. Despite the Academy's continued efforts to improve the quality of its estimates, there are limitations to the data which we acknowledge in the report. It is important to note, for example, that our estimates of workers' compensation costs do not capture the full cost of work-related injuries paid by employers through insurance programs or other payments made outside the workers' compensation reporting system. Nor do our estimates capture the uncompensated economic and human costs of work-related injuries, illnesses, and fatalities borne by workers, families, and communities. These costs are significant but beyond the scope of this report. Similarly, the report does not attempt to measure any sorts of discrimination or inequities that may exist or be promoted by state systems, and the many costs associated with these two factors. Finally, the report does not evaluate the degree to which workers' compensation programs are meeting key objectives, such as: preventing workrelated injuries and illnesses; compensating injured workers adequately; rehabilitating injured workers; and returning injured workers to work at an affordable cost.

The audience for the Academy's annual report on workers' compensation includes: actuaries; insurers; journalists; business and labor leaders; employee benefit specialists; federal and state policymakers; students; and researchers working in universities, government, and private consulting firms. The data from some tables are also published by the National Safety Council (NSC) (in *Injury Facts*), by the Employee Benefit Research Institute (in *Employee Benefit News, Fundamentals of Employee Benefit Programs*) and by the SSA (in the *Annual Statistical Supplement to the Social Security Bulletin*).

The Academy's estimates inform state and federal policymakers in numerous ways. The federal Centers for Medicare & Medicaid Services (CMS), for example, uses the data in estimates and projections of health care spending in the United States. The National Institute for Occupational Safety and Health (NIOSH) uses the data to track the costs of workplace injuries in the United States. The International Association of Industrial Accident Boards and Commissions (IAIABC)—the organization of state and provincial agencies that administer workers' compensation programs—uses the information to track and compare the performance of workers' compensation programs in the United States and Canada. The National Foundation for Unemployment Compensation and Workers' Compensation uses the data as part of its comparison of state workers' compensation programs in its annual workers' compensation fiscal bulletin.

*Word of Caution for 2020 Standardized Metrics

Users of this report should exercise caution when comparing standardized costs and benefits in 2020 to data for prior years. The measures rely in part on covered wages, which experienced a significant shock in 2020. This is underscored by a 1.6 percent increase in covered wages relative to 2019 even as covered jobs decreased by 6.1 percent. This divergence is in part driven by the extreme job-loss among low wage and lower-middle wage workers; from February 2020 to April 2020, 37 percent of jobs were lost for low wage workers, and 18 percent were lost for lower-middle wage workers. By December, jobs were still down for those groups relative to February by 14 percent and 4 percent, respectively (Abel and Deitz, 2021). Indeed, in the one month between March and April of 2020, average weekly earnings jumped by six percent, and remained high for the rest of the year (DOL, 2022). This is also noteworthy because low-wage workers tend to have higher workers' compensation costs as a percentage of payroll. In short, as wages per hour rose sharply, workers' compensation costs as a portion of payroll also declined sharply. This may be an artifact of the COVID-19 pandemic and thus should be interpreted with that in mind.

Acknowledgements

The Academy expresses its deep appreciation to staff members in the 50 states and District of Columbia workers' compensation offices, in addition to staff at the U.S. Department of Labor Office of Workers' Compensation Programs, who provide data on their programs each year. While there are too many individuals to name individually, we are grateful for the time they spend responding to our survey and answering clarification questions as needed. Without support from these individuals, constructing this annual data series would be impossible.

The Academy acknowledges funding from the Centers for Medicare & Medicaid Services (CMS) to produce selected tables for this report that are also used in its own estimates. The project also receives in-kind support from the National Council on Compensation Insurance and the National Association of Insurance Commissioners.

The authors gratefully acknowledge the time and expertise contributed by members of the Academy's Study Panel on Workers' Compensation Data. All members of the Panel are listed on page iii. Finally, we appreciate comments from Catherine Maclean (Temple University) and Donald Gallogly (Oregon Workers' Compensation Division).

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Highlights

For more than two decades, the National Academy of Social Insurance has produced an annual report on workers' compensation benefits, costs, and coverage. The report provides summary statistics on state and federal workers' compensation programs, with the aim of facilitating policymaking that improves the system for both injured workers and employers. This report provides new data for 2020, with comparison data for the five-year period from 2016 to 2020—herein referred to as "the study period." 2020 is the first data-year affected by the COVID-19 pandemic, so the report emphasizes changes between 2019 and 2020. The highlights below illustrate that the pandemic produced breaks in several trends.

National Trends (Table 1)

- Covered employment declined between 2016 and 2020, because employment losses in 2020 due to the COVID-19 pandemic more than offset increases between 2016 and 2019. Covered wages continued to grow despite the pandemic, albeit at a much slower rate.¹
 - The number of U.S. workers covered by workers' compensation decreased by 2.1 percent between 2016 and 2020. The loss of covered jobs is entirely attributed to a decrease of 6.1 percent between 2019 and 2020.
 - Covered wages grew by 17.0 percent between 2016 and 2020, but the increase between 2019 and 2020 (1.6 percent) was much smaller than in prior years
- Total benefits paid to injured workers and their health care providers decreased between 2016 and 2020, only because benefits declined sharply between 2019 and 2020 after four years of relative stability.
 - In 2020, total workers' compensation benefits paid were \$58.9 billion, a decrease of 6.0 percent from 2016. Benefits increased

by a small percentage through 2019, then decreased by 6.5 percent from 2019 to 2020.

- Total benefits per \$100 of covered wages decreased consistently over the study period from \$0.84 in 2016 to \$0.68 in 2020.
- Total employer costs increased between 2016 and 2018, then decreased sharply between 2018 and 2020, mostly due to the decrease during the period of the pandemic (2019-2020).
 - In 2020, employer costs for workers' compensation were \$93.0 billion, down 7.2 percent compared to 2019, after small increases between 2016 and 2019.
 - Employers' costs per \$100 covered wages were \$1.07 in 2020, a decrease of \$0.28 (20.7%) since 2016. In this case, the decrease between 2019 and 2020 was only slightly larger than in prior years.

State Trends

- Workers' compensation covered jobs decreased substantially in 2020, offsetting gains of prior years in the study period for most states.
 - Covered jobs decreased in all but 12 jurisdictions. The largest percentage decreases were in Hawaii (14.5%), Alaska (9.3%), and Vermont (8.5%). Idaho, Utah, and Arizona, however, experienced increases in covered jobs over five percent. (Table 3)
- Covered wages increased in every state over the study period despite decreases in some jurisdictions in 2020.²
 - The largest percentage increase occurred in Washington (32.3%), with eight other states experiencing increases greater than 20 percent. (Table 4)

¹ Covered wages represent the sum of all covered wages in calendar year 2020, whereas covered employment represents the annual average of covered jobs for calendar year 2020.

² This report includes data from all fifty states and the District of Columbia, as well as for select federal programs. For the purposes of this report, we treat DC like a 51st state and, thus, use the terms "state" and "jurisdiction" interchangeably throughout.

Table 1

		I	Percent Chang	je	
Aggregate Benefits, Costs, and Coverage	2020	2016-2018	2018-2020	2019-2020	2016-2020
Covered Jobs (in thousands)	135,572	3.0	-5.0	-6.1	-2.1
Covered Wages (in billions)	\$8,694	10.0	6.3	1.6	17.0
Workers' Compensation Benefits Paid (in billions)	58.9	0.5	-6.4	-6.5	-6.0
Medical Benefits	27.7	-0.2	-11.8	-11.4	-12.0
Cash Benefits	31.2	1.2	-1.1	-1.6	0.1
Employer Costs for Workers' Compensation (in billions)	93.0	1.3	-8.4	-7.3	-7.2

			Dollar Change	2	
Benefits and Costs per \$100 of Covered Wages	2020	2016-2018	2018-2020	2019-2020	2016-2020
Workers' Compensation Benefits Paid	\$0.68	-\$0.07	-\$0.09	-\$0.06	-\$0.17
Medical Benefits	0.32	-0.04	-0.07	-0.05	-0.10
Cash Benefits	0.36	-0.03	-0.03	-0.01	-0.06
Employer Costs for Workers' Compensation	1.07	-0.11	-0.17	-0.10	-0.28

Notes: Benefits are calendar-year payments to injured workers (cash benefits) and to providers of their medical care (medical benefits). Costs for employers who purchase workers' compensation insurance include calendar-year insurance premiums paid plus benefits paid by the employer to meet the annual deductible, if any. Costs for self-insuring employers are calendar-year benefits paid plus the administrative costs associated with providing those benefits.

Source: National Academy of Social Insurance estimates.

Workers' compensation benefits per \$100 of covered wages decreased in all jurisdictions except Hawaii between 2016 and 2020.

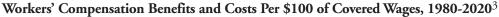
- The largest percentage decrease between 2016 and 2020 occurred in North Dakota, where benefits per \$100 declined by 37.6 percent. The largest percentage decline in 2020 was in Alabama, down 21.9 percent from 2019. (Table 12)
- Employers' costs per \$100 of covered wages decreased in every state between 2016 and 2020.
 - The largest percent decrease from 2016-2020 also occurred in North Dakota, where costs per \$100 decreased by 31.3 percent,

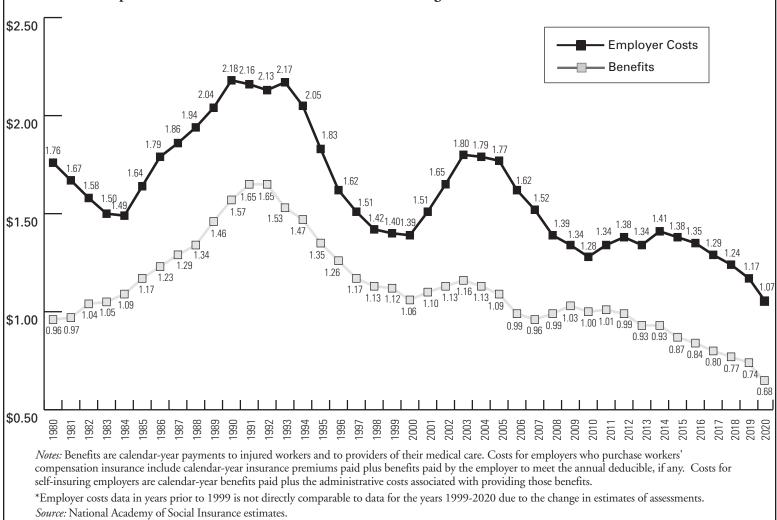
and by 12.5 percent alone from 2019-2020. However, the largest percentage decrease between 2019 and 2020 took place in Alabama, where costs decreased by 17.5 percent. (Table 14)

Background on Workers' Compensation

This section of the report, covering background material that is repeated annually, describes the history of workers' compensation insurance in the United States; the current structure of state workers' compensation programs; types of benefits paid; and how workers' compensation is financed. Reporting

Figure 1





of detailed program data for 2020 begins on page ten, and a glossary of terms used in this report is available on page 65.

History of Workers' Compensation

Workers' compensation was the first social insurance program adopted in most developed countries.⁴ The first modern workers' compensation laws, known as Sickness and Accident Laws based on the principle of employer liability for workplace injuries, were adopted in Germany in 1884 under Chancellor Otto von Bismarck (Clayton, 2004). In 1897, England passed a similar law that held employers liable so long as employees could prove that they had been injured on the job.

The first workers' compensation law in the United States was enacted in 1908 to cover certain federal workers. The first state law, passed by New York in 1910, which was compulsory for certain very risky jobs, was struck down as unconstitutional by the state's court of appeals in 1911.⁵ That same year,

5 "[I]n 1911, in Ives v. South Buffalo Railway Co... the Court of Appeals of New York held the New York act unconstitutional on the

³ See page 46, Benefits Paid Relative to Employer Costs, for an explanation of why costs and benefits in a given year are not perfectly aligned.

⁴ Most developed countries, with the exception of the US, Australia, and Canada, however, have national workers' compensation or work injury compensation programs.

Kansas and Washington passed the first state laws that survived constitutional challenges (though New Jersey and Wisconsin both claim the "first in WC" title), with five other states enacting laws that went into effect that year.⁶ Most other states then adopted workers' compensation laws by 1920, though the last of the 48 contiguous states to pass one, Mississippi, did so only in 1948.

Before the enactment of these laws, the primary legal remedy for workers who were injured on the job was to file a tort suit claiming negligence by their employer.⁷ Employers had three commonly used legal defenses to shield themselves from liability: assumption of risk (showing that the injury resulted from an ordinary risk of employment of which the worker should have been aware);⁸ the fellow servant rule (showing the injury was caused by the negligence of a fellow worker, rather than the employer); or contributory negligence (showing that the worker's own negligence contributed to the injury, regardless of whether the employer was to any degree at fault).

Given the available defenses, along with workers' very limited resources to bring suits, employers prevailed in court in the vast majority of cases (Friedman, 1987). In the minority of cases in which employees won, however, employers could be held liable for substantial and unpredictable amounts. Litigation also created friction between employers and employees; dissatisfaction with the status quo on both sides set the stage for reform.

Initial reforms came in the form of employer liability acts, which eliminated some of the employers' common law defenses. Still, employees retained the burden of proving negligence on the part of the employer, which posed a significant obstacle to recovering damages (Burton and Mitchell, 2003).⁹ Workers' compensation is the "exclusive remedy" for occupational injuries and diseases. An employer's liability is limited to the statutory benefits specified by the workers' compensation act in the jurisdiction.

Ultimately, both employers and employees favored workers' compensation legislation, which would ensure that workers who sustained occupational injuries or (as laws evolved) contracted work-related diseases received predictable and timely compensation. As a quid pro quo, workers' compensation became the "exclusive remedy" for occupational injuries and diseases, and an employer's liability was limited to the statutory benefits specified in the state's workers' compensation act.

The adoption of state workers' compensation programs marked significant progress in the nation's economic, legal, and political history. Passage of the laws required extensive efforts on the part of both business and labor leaders in each state to reach agreement on the law's specifics. Ultimately, both employers and employees supported workers' compensation statutes, often referred to as the grand bargain because the laws contained some principles favorable to workers, some principles favorable to employers, and some principles beneficial to both parties. For example, workers could receive workers' compensation benefits even when the employer was not negligent, or when the injury resulted from the worker's negligence. For this reason, the program structure is often described as "no-fault" -it is intended to compensate workers (almost) regardless

grounds of deprivation of property without due process of law," (Willborn et al., 2017). In 1911, nine states, including Kansas, New Jersey, and Wisconsin, thus enacted elective laws in an effort to avoid similar decisions by their state courts. Washington, however, adopted a compulsory statute, which the Washington Supreme Court upheld (Somers and Somers, 1954).

⁶ Kansas and Washington had the first enactment date (March 14, 1911), but those laws were not effective until after May 3, 1911, the same date when the Wisconsin law was enacted and took effect (Krohm, 2011).

⁷ Some injured workers received voluntary compensation from employers or medical benefits paid through personal accident insurance, but many received no compensation at all (Fishback and Kantor, 1996).

⁸ A more complete definition is provided by Willborn et al. (2017): "The assumption of risk doctrine... barred recovery for the ordinary risks of employment; as well as the extraordinary risks of employment, if the worker knew of them or might reasonably have been expected to know of them."

⁹ As a result, the employers' liability approach was abandoned in all jurisdictions and industries except the railroads, where it still applies.

of how the injury, illness, or death occurs so long as the cause is work-related.

Employers benefited from state workers' compensation programs because the programs limited their liability for workplace injuries and illnesses. Statutory benefits are less uncertain and can often be more limited than tort awards. Workers' compensation benefits specified in the statutes became the exclusive remedy for injured workers, which meant that employers could not be sued for damages in a tort suit.¹⁰ In essence, workers' compensation statues are a no-fault and limited liability approach to compensate for workplace injuries and diseases.¹¹

For both workers and employers, simplified determination of benefits meant that benefits could be paid without attorney involvement in most cases. When benefits were disputed, workers' compensation statutes in most states removed workplace injuries from the general court system and established workers' compensation agencies (or commissions) that were given the primary responsibility for resolving disputes. Reformers believed this delivery system would also reduce the delays, uncertainties, and inconsistencies of the court system (Berkowitz and Berkowitz 1985).

From the beginning, some segments of the working population were excluded from the state programs. Most importantly, given their prevalence in the labor market of the early 20th century, agricultural workers and workers in domestic employment were explicitly excluded. Other workers, including independent contractors, have also been outside the reach of workers' compensation insurance.

Today, each of the 50 states and the District of Columbia has its own workers' compensation program. There is also a federal workers' compensation program for federal employees, and federal programs, such as the Black Lung fund, which insures workers in specific occupations. U.S. territories also have workers' compensation programs, which are not included in this report.¹²

Overview of Programs Included in the Report

The Academy has established a "standard approach" in determining which workers' compensation programs to include in the estimates presented in the main text, tables, and figures. This standard approach includes workers' compensation programs prescribed by state or federal laws for which costs are paid directly by employers or workers. The scope of this approach includes: all state workers' compensation programs; the Federal Employees' Compensation Act (FECA), which provides benefits to federal workers; the portion of the Longshore and Harbor Workers Act (LHWCA) paid by employers, which provides protection to longshore, harbor, and other maritime workers; and the portion of the Black Lung Benefits Act financed by employers, which provides compensation to coal miners with black lung disease. Puerto Rico and other U.S. territories are excluded from the aggregate statistics and only discussed where relevant points can be made. (See Appendix C for two broader measures of the scope of workers' compensation programs in the U.S.)

The state and federal programs in this report vary with respect to which employers and workers are covered, which injuries and diseases are compensable, and what levels of benefits are provided. However, there are common features in most of these programs:

Workers' compensation programs still largely adhere to the no-fault and limited liability principles that were the central features of the grand bargain agreed to when the programs emerged in the early 20th Century.

¹⁰ 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 or when an employer violates a safety regulation in a reckless manner. A suit is also possible if the employer is uninsured.

¹¹ As John Burton notes, this compromise benefited workers by doing away with negligence tests and employers' special defenses, while employers received truncated liability and the guarantee that this was workers' exclusive remedy. Both benefited from simplified determination of the extent of liability and from specialized dispute resolution. In the past decade, concerns have been raised regarding state legislation that has curtailed the availability of benefits to workers. For example, Spieler (2017) and Burton (2017) argue that recent developments in many states are undermining the grand compromise that serves as the foundation for workers' compensation programs.

¹² In Puerto Rico, for example, the State Insurance Fund Corporation provides workers' compensation insurance.

- Workers' compensation insurance coverage is mandatory for employers in all but three states (Texas, South Dakota, Wyoming), with limited exemptions for small employers. Workers in specific classifications, such as agricultural or domestic employees, and workers who are classified as independent contractors are generally excluded from coverage.¹³
 - In Texas and South Dakota, employers are not covered by the state workers' compensation laws unless they elect to be covered.¹⁴
 - Wyoming mandates workers' compensation coverage only for workers in "extrahazardous" occupations, but the state designates most occupations as "extrahazardous." Still, several large employers have opted not to provide workers' compensation coverage in recent years, leading to a shrinking share of workers with coverage.¹⁵
- In principle, workers' compensation pays 100 percent of injury-related medical costs for injured workers, and indemnity benefits that replace a portion of wages lost because of the injury. Lost-time compensation may be subject to a waiting period (typically three to seven days) that may be paid retroactively if the disability involves hospitalization or a lengthy duration of work absence. Statutory wagereplacement rates vary by state but, on average, replace about two-thirds of a worker's preinjury gross wage, subject to minimum and maximum weekly benefits, which also vary among states. Cash benefits are tax-exempt.
- Workers' compensation benefits are financed exclusively by employers except in three states (Oregon, Washington, and New Mexico),

where workers pay part of the cost of benefits through direct payroll deductions or assessments.¹⁶

Employers purchase workers' compensation insurance from private insurers or from state workers' compensation insurance funds. In most states, large employers have the option to self-insure.

Workers' Compensation Benefits

Injured workers or their medical providers may collect benefits through one of three basic types of claims:

Medical-only claims: Most workers' compensation claims do not involve lost work time in excess of the waiting period for cash benefits, so only medical benefits are paid for these claims. Although these "medical-only" claims are the most common type of workers' compensation claim, they represent only a small share of overall payments.¹⁷

Temporary disability claims: When a work-related injury or illness temporarily prevents a worker from returning to his or her pre-injury job or to another job for the same employer, the worker receives temporary total disability (TTD) benefits in addition to medical benefits. These TTD benefits replace approximately two-thirds of the worker's gross, preinjury weekly earnings up to state-specified limits. Depending on the jurisdiction, if a worker had one or more additional jobs with other employers at the time of injury, earnings from those other jobs may or may not be covered by temporary disability benefits, even if the worker cannot perform any job.

¹³ In addition, many states allow specific classes of employers to voluntarily purchase workers' compensation coverage or to opt out of statutory coverage, e.g., independent contractors, corporate officers, and local governments.

¹⁴ SD Codified L § 62-5-7 (2017).

¹⁵ As Saint Louis University law professor Michael Duff notes, "Like the situation in Texas, most [Wyoming] employers not covered are liable in tort. Also like in Texas, there are significant numbers of workers employed by companies that offer 'alternative WC' plans." He points to Araguz v. State, ex rel. Wyoming Workers' Safety and Comp. Div., 2011 WY 148, 262 P.3d 1263 as an example of how dual-denial is expanding in that state. This case involved two injured Walmart employees. In short, Walmart provides an ERISA-governed plan for employees in Wyoming instead of workers' compensation coverage, and employees may only sue Walmart in tort if they do not participate in the ERISA plan. Duff 2018 and Elaine Weiss correspondence with Michael Duff, July 2019.

¹⁶ Employees directly pay for a portion of workers' compensation programs in New Mexico, Oregon, and Washington, as discussed in Appendix C. Even in states where costs are paid directly by employers, it is likely that the incidence of costs falls on employees in the form of lower wages (Gruber and Krueger, 1991).

¹⁷ In 2018, medical-only claims accounted for just over 75 percent of all workers' compensation claims, but less than eight percent of all benefits paid (NCCI, 2022a). Since 1999, there has been a gradual decline in the share of medical-only claims from 78.3 percent to the current 75.3 percent, although the share of benefits paid for medical only claims increased over that period, from 6.2 percent of overall benefits in 1999 to 7.9 percent in 2018.

Compensation for temporary disability, whether total or partial, is subject to minimum and maximum benefit levels that vary from state to state. Generally, the maximum benefit is a percentage of the state's average weekly wage. As of January 2021, the *minimum* weekly TTD benefit ranged from a low of \$20 in Arkansas, Florida, and Wisconsin, to a high of \$514 in Vermont.¹⁸ The *maximum* weekly benefit ranged from a low of \$523 in Mississippi to a high of \$1,864 in Iowa. See Appendix D for more information on minimum and maximum benefits.

Most workers who receive TTD benefits fully recover and return to work, at which time those benefits end. In many cases, however, employers make accommodations that allow injured workers to return to transitional work before they are physically able to resume all of their former job duties. In these cases, workers may be assigned to restricted duties or given fewer hours at lower wages. When injured workers return to work at less than their pre-injury wage during the healing period, they may be eligible for temporary partial disability (TPD). TPD benefits typically cover two-thirds of the difference between an injured worker's pre-injury wage and their new wage.

Permanent disability claims: Some injured workers experience work-related injuries or illnesses that result in permanent impairments. These workers may be eligible for either permanent partial disability (PPD), or permanent total disability (PTD) benefits, after they reach maximum medical improvement (MMI)—the point at which further medical intervention is no longer expected to improve functional capacity or provide further healing.¹⁹ PPD benefits are paid to workers who, after reaching MMI, can return to work but with a permanent loss in functional use of a certain body part, or otherwise with a permanent loss in earning capacity. PTD benefits are paid to workers who are deemed permanently unable to work due to a work-related injury or illness.²⁰

Thirty-two states have no limit on the duration or amount of PTD benefits. Among those states which impose limits, Alabama has the shortest (300 weeks, or a little under six years). Five states have age-based limits, terminating benefits when the injured worker reaches a certain age. In North Dakota, for example, PTD benefits end when the injured worker qualifies for normal Social Security retirement benefits, or at age 67 for all individuals born in 1960 or later. Agelimited benefits result in a shorter period of benefits for workers injured at later ages. So, a worker who suffered a permanently disabling injury at age 65 in North Dakota would receive benefits for only two years with no compensating increase in retirement benefits. Only Colorado, Kansas, and Nevada place a cap on PTD benefits without also imposing a limit on PTD duration.

Minimum and maximum benefit amounts for PTD claims are typically equal to those of TTD claims. States differ, however, in their methods for determining eligibility and benefit amounts for permanent partial disability (Barth and Niss, 1999; Burton, 2008). There are four operational approaches:

- The impairment approach pays benefits if the worker has a permanent medical loss, without regard to actual loss of earnings. In this case, the amount of permanent disability benefits is determined by some measure of physical impairment to the body.
- The loss of earning capacity approach pays benefits if the impairment causes a permanent loss of earning capacity. In this case, benefits are determined by an estimate of reduced earning capacity.
- The wage loss approach pays benefits only if the worker has actual wage losses. In this case, if the is able to work in some capacity and actually works, they will not receive PPD benefits unless post-injury earnings are less than pre-injury earnings.

¹⁸ Arizona, Iowa, Maine, Montana, Nevada, Oklahoma, and Rhode Island do not have a specified minimum weekly TTD benefit. Details on benefit and coverage provisions of state laws are summarized in Appendix D.

¹⁹ In most claims where the workers ultimately receive permanent disability benefits, there is initially a period in which the workers receive temporary disability benefits, as described in the preceding paragraphs.

²⁰ Most states allow permanently and totally disabling conditions to be compensated for life if the condition leads to an inability to work. The requirements for a PTD benefit vary across jurisdictions, but many have a provision such that if an injured worker has a permanent disability rating over a specified threshold (for instance, more than 70 percent disabled), then the worker would qualify.

 A hybrid of the impairment approach with either the wage loss or earning capacity reduction approach.

Many cases involving permanent disability are settled through the use of compromise and release agreements, rather than awarding statutory PPD or PTD benefits. These agreements generally provide a lump sum to the injured worker to help cover both future medical costs and lost earnings from the disability, and release the employer from future liability.²¹

Fatalities: Workers' compensation programs also pay death benefits when a work-related illness or injury is fatal. The benefits typically include an amount for funeral and burial expenses, as well as cash benefits for the workers' family and other dependents. The maximum weekly benefit is typically equal to the maximum TTD benefit and varies with the number of the worker's child dependents in eight states. Twenty-two states have no limit on dependency benefits except in cases where a surviving spouse remarries. Otherwise, benefit limits vary considerably in size and duration by state.²²

Sources of Workers' Compensation Insurance

Non-federal employers pay for workers' compensation by purchasing insurance from a private insurance carrier or a state workers' compensation insurance fund (state fund), or by self-insuring. Many states also have special workers' compensation funds to cover exceptional circumstances, such as a second work-related injury for an individual with a pre-existing condition that increases the costs associated with the injury. The federal government provides workers' compensation insurance for federal civilian employees and for some private-sector workers who are employed either in high-risk jobs or jobs related to national defense (see Federal Programs on p.63).

Private insurance. Workers' compensation policies provided by private insurers operate much like automobile or homeowners' insurance. Employers Employers pay for workers' compensation insurance by purchasing from private insurers or a state fund or by self-insuring

purchase insurance for a premium that varies according to risk. There are two types of policies: 1) policies that require the insurer to pay all workers' compensation benefits; and 2) policies with a deductible, which require the employer to reimburse the insurer for benefits paid up to the specified deductible amount. With a deductible policy, the employer is self-insuring to a specified limit, and in return pays a lower premium. Deductibles may be written into an insurance policy on a per-injury basis, an aggregate-benefit basis, or a combination of the two. Most states permit deductible policies in workers' compensation insurance, but state regulations vary on the specifics.

State funds. In 21 states, some (or all) employers obtain workers' compensation insurance through a state workers' compensation insurance fund. State funds, which are established by an act of the state legislature, are designated as either exclusive or competitive. An exclusive state fund is the sole provider of workers' compensation insurance in a state (although most states with exclusive state funds allow large employers to self-insure). A competitive state fund competes with private insurers. In this report, we define a competitive state fund as one that: 1) sells workers' compensation policies to private-sector employers in the voluntary insurance market; and 2) is exempt from federal taxes.²³

In 2020, 22 state funds paid out benefits even though only 21 offered insurance plans; four states had exclusive state funds, 16 states had competitive state funds that met our criteria, and two states had special circumstances.²⁴

²¹ See glossary for complete definition of compromise and release agreements.

²² See Appendix D for specific statutory limitations on death benefits.

²³ Five funds (Hawaii, Idaho, Louisiana, New Mexico, and Texas) are also exempt from paying state premium taxes.

²⁴ In 2020, North Dakota, Ohio, Washington, and Wyoming had exclusive state funds. Competitive state funds operated in California, Colorado, Hawaii, Idaho, Kentucky, Louisiana, Maryland, Missouri, Montana, New Mexico, New York, Oklahoma, Oregon, Pennsylvania, Rhode Island, and Texas. South Carolina's state fund, which provides workers' compensation insurance for state and local

Self-insurance. Many large employers choose to selfinsure for workers' compensation.²⁵ Where self-insurance is permitted, employers must apply for permission to self-insure from the regulatory authority and demonstrate that they have sufficient financial resources to cover their expected workers' compensation costs.²⁶ Some states also permit groups of employers in the same industry or trade association to self-insure through group self-insurance.

Federal programs. The federal government covers workers' compensation benefits for federal civilian employees under the Federal Employees Compensation Act (FECA). Federal programs also cover some private-sector workers, including coal miners with black lung disease, employees of overseas contractors with the U.S. government, energy employees exposed to certain hazardous materials, workers engaged in manufacturing atomic bombs, and veterans injured while on active duty in the armed forces. The federal government also provides oversight for workers covered under the Longshore and Harbor Workers' Compensation Act (LHWCA), but employers are still required to purchase private insurance or self-insure. More details about these federal programs are provided in Appendix B.

Guaranty funds. State guaranty funds ensure benefit payments to injured workers in cases in which a private insurance carrier or self-insured employer becomes insolvent and lacks sufficient earmarked assets to pay outstanding benefits. The costs of guaranty funds for private insurers are funded through assessments on workers' compensation insurers or, in some states, through assessments paid directly by employers.²⁷ The costs of guaranty funds for selfinsured employers are funded through assessments on self-insuring employers. which an employee with a pre-existing condition from a work-related injury or illness experiences another work-related injury or illness. The second injury fund pays any costs associated with the prior condition in order to reduce the burden on the current employer. The funds make it more costeffective for employers to hire injured workers with residual impairments, because the current employer is responsible only for workers' compensation benefits associated with a subsequent illness or injury. Second injury funds are financed through assessments on employers and, in a small number of jurisdictions, with general fund monies.²⁸

Other special funds. Many states have other special funds to address specific risks and problems within their respective programs.²⁹ The most common special fund, aside from guaranty and second injury funds, is an uninsured employer's fund. These funds ensure that employees of (illegally) uninsured employers receive workers' compensation benefits in the case of a workplace illness or injury. Other special funds relate to a specific industry breakdown in a given state. In Kentucky and West Virginia, for example, there are coal workers' pneumoconiosis funds.³⁰

Carve-outs. Several states have legislative provisions for "carve-outs," a variant of workers' compensation insurance that allows union-management agreements to exceed legislated workers' compensation provisions. Carve-outs provide certain benefits and dispute resolution mechanisms outside those typically provided in the legislation.³¹ Carve-outs are most common for construction workers, police officers, and firefighters. Indemnity costs associated with carve-outs are included in the Academy's data, but some administrative and medical costs may not be.

Second-injury funds. Second injury funds reimburse employers or insurance carriers in cases in

government employees, competes with private insurers for the quasi-state agency market segment. West Virginia discontinued its state fund in 2006, but the state was still paying benefits in 2020 on some claims involving injuries that occurred before 2006.

29 Not all states have guaranty funds and/or second-injury funds.

²⁵ All states allow employers to self-insure except for North Dakota and Wyoming, both of which require all employers to obtain workers' compensation insurance from their exclusive state funds.

²⁶ Nearly all self-insured firms are required to post some type of financial security (e.g. surety bonds) so that workers' compensation benefits are paid even if the employer experiences financial distress.

²⁷ In California in 2017, for example, employers were assessed a tax of 2.00% of net premiums paid in 2016 (NCCI, 2022b).

²⁸ See Sources and Methods 2022 on the Academy's website for further details on special funds, second injury funds, and guaranty funds.

³⁰ See Sources and Methods 2022 on the Academy's website for further details on special funds, second injury funds, and guaranty funds.

³¹ These include California, Florida, Hawaii, Illinois, Kentucky, Massachusetts, Maryland, Maine, Minnesota, Nevada, New York, and Pennsylvania (Torrey, 2019).

COVID-19 and Workers' Compensation

The COVID-19 pandemic was a disruptive event for workers' compensation systems across the United States. As stakeholders responded to the rise of COVID-19 cases in spring 2020, they wrestled with questions about compensability, coverage, and costs. This report includes data from the first year of the pandemic, providing initial information on trends related to coverage, benefits, and costs.

Coverage. Public health measures to reduce the transmission of COVID-19 caused significant economic contraction including furloughs, layoffs, and business closures. As a result, covered jobs declined in the first year of the pandemic. Covered wages increased, despite the loss of jobs, but at a much slower rate than in the prior four years.

Benefits. Workers' compensation medical and indemnity benefits both declined in 2020 as economic activity contracted. Medical benefits declined sharply both because of the loss of jobs and because many non-emergency medical services were cancelled and/or delayed in the spring and summer of 2020. The decline in cash benefits was much more modest both because indemnity payments continued for some injuries that occurred in years prior to 2020, and because many COVID-19 claims were atypical "indemnity only" claims involving few or no medical benefits. This factor was especially common in states where benefits were paid during the mandatory quarantine period following workplace exposures. The Families First Coronavirus Response Act may have also reduced benefits insofar as the act made paid sick leave more accessible to workers who may have otherwise filed a workers' compensation claim.

Costs. Employer costs for workers' compensation declined in 2020 along with the declines in covered jobs and benefit payments.

As the impact of COVID-19 on workers' compensation continues to develop over the coming years, future reports will continue to note trends in benefits, costs, and coverage. Of particular interest will be whether and how "long-COVID" will be treated by workers' compensation programs.

Estimates for 2020

The workers' compensation system involves multiple stakeholder groups: employers, workers, insurers, attorneys, medical providers, and state governments. The estimates presented in this report primarily reflect the experience of two groups: workers who rely on compensation for workplace injuries and illnesses; and employers (including the federal government) who bear most of the costs. The estimates represent benefits and costs paid in each of the last five calendar years.

The estimates of benefits and costs necessarily represent different time frames. Estimates of benefits for 2020 include payments made in 2020 for injuries and illnesses that occurred in 2020 *and prior years*. For employers that purchase workers' compensation insurance, estimates of costs for 2020 reflect premiums paid in 2020 (to a private insurer or state fund), which incorporate projected *future liabilities* for injuries and illnesses that occur in 2020. For employers that are self-insured, estimates of costs for 2020 include payments for medical and cash benefits made in 2020 for injuries and illnesses that occurred in 2020 *or prior years*. For additional discussion of these measures, refer to the Addendum, Benefits Paid vs. Benefits Incurred.

The Academy has designed its measures to provide the best available estimates of workers' compensation benefits, costs, and coverage in a given year and over time. The estimates are not designed to assess the performance of the insurance industry or of insurance markets. Other organizations analyze insurance trends.³² Nor are the estimates designed to measure the performance of the workers' compensation system with respect to: the prevention of occupational injuries and illnesses, the adequacy or equity of benefits paid to workers, the adequacy of payment for medical coverage, the affordability of compensation, or the impact of vocational rehabilitation and job accommodations related to workplace injuries.

It is not appropriate to use the estimates to compare the performance of workers' compensation systems in different states. Benefits and costs vary across states because of differences in their workers' compensation laws and systems, and because states vary

³² The National Council on Compensation Insurance and state rating bureaus, for example, assess insurance developments in the states and advise regulators and insurers on proposed insurance rates.

in their mix of industries and occupations, which affects the relative risk of work-related injury or illness. A meaningful comparison of benefits or costs across states is beyond the scope of this report.³³

Covered Jobs and Wages

There is no national system for counting the number of jobs covered by workers' compensation, so the number of covered jobs and amount of covered wages must be estimated. The Academy's methodology is designed to count the number of jobs that are legally required to be covered by workers' compensation under state laws for all states except Texas and Wyoming, as described in the section *States Without Mandatory Coverage.*³⁴

Methods for Estimating Covered Jobs and Wages

To estimate the number of jobs covered by workers' compensation, we use the number of jobs covered by unemployment insurance (UI) in each state as reported by the Quarterly Census of Employment and Wages (QCEW) as the starting point.³⁵ We then estimate the number of jobs that are not required to be covered by workers' compensation according to each state's statute regarding exemptions for small firms and/or agricultural employers. We subtract the number of exempted jobs from the UI base to determine the number of UI-covered jobs that are covered by workers' compensation.

To estimate the amount of wages covered by workers' compensation, we calculate the fraction of UI-covered jobs that are covered by workers' compensation in each state and multiply this fraction by the state's UI-covered wages to obtain total workers' compensation covered wages. This methodology was not affected by the expanded eligibility of UI during the pandemic, as the method used by the QCEW does not count the number of UI-eligible individuals to construct its estimates, but rather relies on employment data from employers that continued to be tracked throughout the pandemic.³⁶

The Academy's methodology may undercount the actual number of jobs (and amount of wages) covered because some employers that are not required to carry workers' compensation coverage do so anyway. For example, self-employed persons are not typically required to carry unemployment or workers' compensation insurance, but, in some states, those persons may voluntarily elect to be covered. Likewise, in states with exemptions for small firms, some of those small firms may voluntarily purchase workers' compensation insurance.

On the other hand, our methodology may overestimate the number of jobs (and wages) covered because some employers who are required to carry workers' compensation insurance do not do so. Every state has a program to detect and penalize employers who fail to report or cover jobs under state labor statutes, but no definitive national study has documented the extent of noncompliance. For more details on the Academy's methods for estimating covered jobs and wages, refer to Appendix A.

We note that millions of workers are not covered by unemployment insurance or workers' compensation because they are not categorized as employees. These include independent contractors, gig economy work-

³³ As described in Appendix E, the Oregon Department of Consumer and Business Services produces a biannual report on state costs of workers' compensation premiums that controls for industry mix. However, that report's scope does not extend to measuring system performance, which would require other metrics that are unavailable for all states.

³⁴ Workers' compensation covered employment is measured in terms of "covered jobs" as opposed to "covered workers." Refer to Appendix A, Employed Workforce Coverage Estimates.

³⁵ Unemployment Insurance (UI) programs provide cash benefits to workers who become unemployed (through no fault of their own) and meet specific eligibility requirements. The UI programs are largely controlled by the states, although there are several federal standards, including a requirement that states produce uniform data. (These aspects of federal involvement are not present in workers' compensation.)

³⁶ The BLS discusses challenges to the QCEW dataset caused by the COVID-19 pandemic, noting that "Workers who were paid by their employer for all or any part of the pay period including the 12th of the month were counted during the pandemic as employed in the QCEW, even if they were not actually at their jobs. Workers who were temporarily or permanently absent from their jobs, but were not paid, were not counted as employed even if they continued to receive benefits." This signifies that, even with increased UI eligibility, individuals who did not receive a payment from their employers are not counted as employed for the purposes of the QCEW (DOL, 2021).

ers (except perhaps in California³⁷), and workers who are paid off the record.³⁸

States Without Mandatory Coverage³⁹

In Texas, employers opt into the workers' compensation system by purchasing coverage or self-insuring. To estimate covered jobs and wages for Texas we apply the proportion of jobs in firms that opt into workers' compensation to the UI base.

In Wyoming, employers are allowed to opt out of workers' compensation for jobs in which coverage is not mandatory. Between 52.3 percent and 67.1 percent of employees are mandatorily covered, according to the Wyoming Department of Workforce Services (2017; 2018), and an additional 22.9 percent of employees are covered under optional coverage. To estimate covered jobs and wages, we assume 59.7 percent mandatory coverage (average of 52.3 and 67.1) and add the 22.9 percent who are covered by employer opt-ins for an estimated 82.7 percent coverage, which is applied to the UI base. Estimates for both Texas and Wyoming include workers who are required to be covered, and those who are covered despite no coverage requirement.⁴⁰ The Academy is working to estimate the proportion of South Dakota employees that are not covered for future reports.⁴¹ For this report, estimates for South Dakota continue to assume universal coverage but for an agricultural exemption as the state tracks neither number of employers nor employees that are covered under its program.⁴² As such, this report overestimates covered jobs and covered wages in South Dakota.

Over the past decade, efforts in a handful of states have attempted to eliminate workers' compensation coverage mandates and to instead allow employers to design and utilize alternative benefit plans.⁴³ Such efforts, if successful, might have large impacts on coverage estimates in future reports.

National Estimates of Covered Jobs and Wages

Table 2 reports covered jobs and wages for the last two decades. In 2020, workers' compensation covered an estimated 135.6 million U.S. jobs, a 6.1 percent decrease from the previous year, and the largest year-to-year change in the 20 years reported in the table. The decline in covered jobs is only the second time coverage has decreased in the last

³⁷ California Assembly Bill 5, effective Jan. 2020, uses the "ABC" test to determine the classification of workers as employees or independent contractors. However, with the passage of Prop 22, app-based drivers (Uber, Lyft, DoorDash, etc.) are classified as independent contractors and are not entitled to unemployment insurance or workers' compensation benefits. The effect of AB5 on workers' compensation is not reflected in this year's report (Lake, 2021).

³⁸ The BLS has <u>some information on occupational fatalities of independent workers</u>. Unfortunately, the non-fatal injuries and illnesses are captured via an employer survey and so does not capture independent workers.

³⁹ Previous reports have stated that Texas was the only state that did not require employers to carry workers' compensation insurance. In 2020, however, we learned that Wyoming's program has only required coverage for certain jobs since its inception. This year we learned that South Dakota has never required employers to purchase workers' compensation coverage.

⁴⁰ It recently came to the Academy's attention that not all workers in Wyoming are required to be covered by workers' compensation. In the state, only "extra hazardous" jobs fall under mandatory coverage; otherwise, employers choose whether or not they will provide coverage. The data published by the state of Wyoming on the matter, however, is not consistent and appears to be too volatile to be plausible. For fiscal years 2017 and 2018, for example, their data depicts the labor force size to have declined by 14 percent, and the employees covered as a percent of the labor force to have risen from 75.4 percent to 90.0 percent. With this information, we assume actual coverage to be somewhere in the middle and use 82.7 percent of the employed labor force for our coverage estimate. This is newly instituted as of the 2019 data report. Methods have not yet been improved as of the 2020 data report.

⁴¹ South Dakota law § 62-3-11 outlines legal remedies for employees who are injured at work (or their dependents) if their employer does not have workers' compensation insurance. In such cases, employees can "proceed against the employer in any action at law to recover damages for personal injury or death; or may elect to proceed against the employer in circuit court." If the circuit court rules in the employee's favor, employers are liable to cover medical costs and pay indemnity benefits at twice the rate imposed by the workers' compensation system.

⁴² As of the 2020 data report, South Dakota is depicted as having 100 percent coverage outside of its agricultural exemption, but the state's website makes clear that this is not the case. Until we have more information regarding how many workers are affected, we will remain consistent in our methodology relative to prior years.

⁴³ Legislative proposals in Oklahoma (S.B. 1062, 2013), Tennessee (S.B. 721, 2015), and Arkansas (S.B. 653, 2017) allowed employers to design alternative benefit plans that would provide benefits, outside of the workers' compensation systems, for occupational injuries and illnesses. Like workers' compensation, these would be a worker's exclusive remedy and would preclude employees from suing their employers. Oklahoma was the only state that successfully adopted this legislation, which was subsequently found unconstitutional by the Oklahoma Supreme Court.

Table 2

	Covere	d Workers	Cove	ered Wages
Year	(thousands)	Percent Change	(billions)	Percent Change
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	5,213	5.3
2006	130,339	1.7	5,544	6.3
2007	131,734	1.1	5,857	5.6
2008	130,643	-0.8	5,954	1.7
2009	124,856	-4.4	5,675	-4.7
2010	124,638	-0.2	5,834	2.8
2011	125,876	1.0	6,058	3.8
2012	127,916	1.6	6,326	4.4
2013	130,149	1.7	6,835	8.0
2014	132,791	2.0	6,840	0.1
2015	139,494	5.0	7,207	5.4
2016	138,468	-0.7	7,432	3.1
2017	140,424	1.4	7,787	4.8
2018	142,635	1.6	8,178	5.0
2019	144,415	1.2	8,560	4.7
2020	135,572	-6.1	8,694	1.6

Workers' Compensation Covered Jobs and Covered Wages, 2000-2020

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

decade. Covered wages totaled \$8.7 trillion in 2020, an increase of 1.6 percent from 2019. Covered wages continued to increase despite the large loss of jobs, although the rate of growth was the slowest it has been since 2014. The difference in percentage changes of covered jobs and covered wages partly reflects the influence of inflation on wages, which is not accounted for in the Academy's estimates.

Table 3 reports workers' compensation covered jobs, disaggregated into federal and non-federal employment. Between 2016 and 2019, covered non-federal employment increased by an estimated 5.9 million

		Number o	Number of Jobs (in thousands)	nousands)			Percent Change	Change		Ranking
State	2016	2017	2018	2019	2020	2016-2018	2018-2020	2019-2020	2016-2020	(1=largest percent increase, 2016-2020)
Alabama	1,790	1,812	1,838	1,865	1,785	2.6	-2.8	-4.2	-0.3	13
Alaska	311	307	306	309	282	-1.6	-7.9	-8.7	-9.3	50
Arizona	2,625	2,692	2,771	2,852	2,765	5.5	-0.2	-3.1	5.3	ю
Arkansas	1,144	1,153	1,163	1,170	1,126	1.7	-3.2	-3.7	-1.5	17
California	16,471	16,775	17,110	17,385	16,119	3.9	-5.8	-7.3	-2.1	20
Colorado	2,485	2,542	2,607	2,667	2,531	4.9	-2.9	-5.1	1.8	4
Connecticut	1,649	1,652	1,656	1,652	1,526	0.4	-7.8	-7.6	-7.4	48
Delaware	432	435	440	446	420	2.0	-4.7	-5.9	-2.8	24
District of Columbia	556	565	576	581	529	3.5	-8.1	-8.9	-4.9	38
Florida	7,881	8,061	8,264	8,437	8,011	4.9	-3.1	-5.0	1.7	6
Georgia	4,077	4,160	4,242	4,321	4,116	4.0	-3.0	-4.7	1.0	10
Hawaii	614	621	625	624	525	1.7	-15.9	-15.9	-14.5	51
Idaho	675	694	718	739	734	6.3	2.3	-0.6	8.8	1
Illinois	5,801	5,840	5,879	5,902	5,474	1.3	-6.9	-7.3	-5.6	42
Indiana	2,936	2,967	3,000	3,025	2,865	2.2	-4.5	-5.3	-2.4	22
Iowa	1,506	1,506	1,515	1,518	1,441	0.6	-4.9	-5.1	-4.3	35
Kansas	1,335	1,335	1,347	1,356	1,291	0.9	-4.1	-4.8	-3.3	26
Kentucky	1,820	1,833	1,844	1,858	1,752	1.4	-5.0	-5.7	-3.7	30
Louisiana	1,873	1,872	1,886	1,888	1,744	0.7	-7.5	-7.6	-6.9	47
Maine	585	591	596	602	563	1.8	-5.6	-6.4	-3.8	32
Maryland	2,477	2,503	2,530	2,548	2,359	2.1	-6.8	-7.4	-4.8	37
Massachusetts	3,448	3,497	3,540	3,589	3,277	2.7	-7.4	-8.7	-5.0	39
Michigan	4,164	4,217	4,262	4,281	3,890	2.4	-8.7	-9.1	-6.6	45
Minnesota	2,765	2,805	2,833	2,851	2,654	2.4	-6.3	-6.9	-4.0	33

Missouri	2,578	2,614	2,626	2,644	2,509	1.9	-4.4	-5.1	-2.6	23
Montana	438	442	447	453	439	2.2	-2.0	-3.1	0.2	12
Nebraska	940	944	949	953	918	0.9	-3.3	-3.7	-2.4	21
Nevada	1,262	1,304	1,347	1,384	1,241	6.8	-7.9	-10.4	-1.7	18
New Hampshire	640	646	651	657	616	1.8	-5.3	-6.2	-3.7	29
New Jersey	3,905	3,957	3,995	4,034	3,701	2.3	-7.4	-8.3	-5.2	40
New Mexico	756	759	771	785	730	2.0	-5.3	-7.0	-3.4	27
New York	9,015	9,137	9,294	9,404	8,442	3.1	-9.2	-10.2	-6.4	43
North Carolina	4,099	4,167	4,247	4,332	4,157	3.6	-2.1	-4.0	1.4	7
North Dakota	404	401	404	410	383	0.1	-5.4	-6.6	-5.3	41
Ohio	5,242	5,286	5,327	5,360	5,042	1.6	-5.4	-5.9	-3.8	31
Oklahoma	1,518	1,523	1,547	1,565	1,491	1.9	-3.6	-4.7	-1.8	19
Oregon	1,813	1,855	1,893	1,925	1,807	4.4	-4.5	-6.1	-0.3	14
Pennsylvania	5,621	5,682	5,751	5,807	5,366	2.3	-6.7	-7.6	-4.5	36
Rhode Island	462	466	470	474	432	1.7	-8.0	-8.8	-6.5	44
South Carolina	1,904	1,944	2,000	2,036	1,936	5.0	-3.2	-4.9	1.7	5
South Dakota	404	406	410	413	400	1.5	-2.5	-3.2	-1.0	15
Tennessee	2,745	2,789	2,834	2,888	2,773	3.3	-2.2	-4.0	1.0	6
Texas	9,472	9,642	9,877	9,985	9,556	4.3	-3.2	-4.3	0.9	11
Utah	1,348	1,390	1,438	1,479	1,460	6.7	1.6	-1.2	8.3	2
Vermont	298	300	301	300	273	0.7	-9.1	-9.1	-8.5	49
Virginia	3,543	3,591	3,645	3,688	3,492	2.9	-4.2	-5.3	-1.4	16
Washington	3,141	3,215	3,298	3,363	3,180	5.0	-3.6	-5.5	1.2	8
West Virginia	660	659	699	664	616	1.4	-8.0	-7.3	-6.7	46
Wisconsin	2,775	2,797	2,823	2,833	2,676	1.7	-5.2	-5.6	-3.6	28
Wyoming*	219	217	219	223	209	0.1	-4.3	-6.1	-4.2	34
Total Non-Federal	135,674	137,621	139,840	141,590	132,644	3.1	-5.1	-6.3	-2.2	
Federal Employees	2,793	2,803	2,795	2,824	2,928	0.1	4.7	3.7	4.8	
TOTAL	138,468	140,424	142,635	144,415	135,572	3.0	-5.0	-6.1	-2.1	
* The 2020 data report assumes 82.7 percent job coverage in Wyoming. See Appendix A for more information. <i>Source:</i> National Academy of Social Insurance estimates.	s 82.7 percent ocial Insurance	job coverage estimates.	in Wyoming.	See Appendi	k A for more info	mation.				

		Covered	Covered Wages (in m	millions)			Percent	Percent Change		Ranking
State	2016	2017		2019	2020	2016-2018	2018-2020	2019-2020	2016-2020	(1=largest percent increase, 2016-2020)
Alabama	\$78,472	\$81,513	\$85,294	\$89,199	\$91,386	8.7	7.1	2.5	16.5	22
Alaska	16,316	16,105	16,653	17,377	17,077	2.1	2.5	-1.7	4.7	50
Arizona	126,025	133,656	142,234	152,059	160,223	12.9	12.6	5.4	27.1	4
Arkansas	47,069	49,026	50,600	52,670	54,352	7.5	7.4	3.2	15.5	24
California	1,033,048	1,100,775	1,167,490	1,236,649	1,279,067	13.0	9.6	3.4	23.8	6
Colorado	134,653	143,486	152,312	163,627	167,577	13.1	10.0	2.4	24.5	\mathcal{S}
Connecticut	108,469	109,939	112,001	115,187	115,030	3.3	2.7	-0.1	6.0	48
Delaware	23,117	24,183	24,909	25,983	26,145	7.7	5.0	0.6	13.1	31
District of Columbia	45,668	48,115	50,624	52,624	53,540	10.9	5.8	1.7	17.2	18
Florida	367,225	386,855	410,172	432,890	444,246	11.7	8.3	2.6	21.0	8
Georgia	204,389	214,658	224,518	236,397	240,089	9.8	6.9	1.6	17.5	17
Hawaii	28,671	29,899	30,879	31,938	29,567	7.7	-4.2	-7.4	3.1	51
Idaho	26,421	28,353	30,413	32,363	34,702	15.1	14.1	7.2	31.3	\mathcal{O}
Illinois	325,926	337,050	350,809	361,975	361,630	7.6	3.1	-0.1	11.0	40
Indiana	130,020	136,138	141,826	146,657	147,939	9.1	4.3	0.9	13.8	28
Iowa	67,335	69,094	71,669	73,587	75,105	6.4	4.8	2.1	11.5	37
Kansas	58,383	59,712	62,206	64,631	65,966	6.5	6.0	2.1	13.0	33
Kentucky	79,531	82,084	84,640	87,886	88,272	6.4	4.3	0.4	11.0	39
Louisiana	84,735	86,288	89,926	92,249	89,839	6.1	-0.1	-2.6	6.0	49
Maine	24,489	25,473	26,567	27,920	28,814	8.5	8.5	3.2	17.7	15
Maryland	137,952	143,060	148,270	153,805	156,053	7.5	5.2	1.5	13.1	30
Massachusetts	232,040	244,117	256,581	270,355	274,382	10.6	6.9	1.5	18.2	12
Michigan	210,922	220,107	228,067	234,068	230,116	8.1	0.9	-1.7	9.1	45
Minnesota	149,647	157,008	163,774	169,513	169,935	9.4	3.8	0.2	13.6	29

27	10	23	21	20	36	26	25	6	47	34	38	7	32	42	16	11	14	19	2	41	13	1	44	35	46			
14.2	19.7	15.5	16.9	16.9	11.8	14.6	14.8	20.8	7.5	12.9	11.0	21.0	13.1	10.2	17.6	18.4	17.7	16.9	31.9	10.2	17.7	32.3	9.2	12.8	8.6	17.1	14.3	17.0
1.6	4.6	3.7	-2.4	3.8	6.0	-0.4	-0.9	3.1	-4.3	0.9	-1.7	2.3	-0.2	0.7	1.7	5.5	2.5	0.7	7.0	-0.1	2.8	4.5	-3.2	0.8	-4.1	1.5	5.1	1.6
5.4	9.7	7.8	3.1	8.4	4.4	5.9	3.7	8.5	0.2	4.7	2.3	8.0	4.2	3.8	7.4	9.9	7.1	5.5	15.3	3.6	7.7	12.3	-2.9	4.4	1.5	6.3	7.0	6.3
8.4	9.1	7.1	13.4	7.9	7.1	8.2	10.6	11.3	7.3	7.9	8.5	12.0	8.5	6.2	9.5	7.7	10.0	10.9	14.4	6.4	9.3	17.8	12.4	8.1	7.0	10.1	6.8	10.0
134,601	20,911	46,903	69,035	39,855	273,250	35,895	701,977	232,313	21,086	279,718	72,733	107,728	331,286	25,860	95,138	19,427	151,482	597,655	79,469	14,603	221,450	243,617	29,239	143,535	10,551	\$8,443,684	\$250,241	\$8,693,925
132,520	19,987	45,227	70,735	38,409	270,944	36,040	708,015	225,434	22,041	277,239	73,963	105,281	331,933	25,683	93,571	18,415	147,856	593,716	74,269	14,620	215,455	233,046	30,193	142,360	11,003	\$8,322,099	\$238,117	\$8,560,216
127,663	19,059	43,501	66,967	36,778	261,709	33,890	676,612	214,070	21,035	267,238	71,098	99,715	317,832	24,922	88,590	17,671	141,504	566,668	68,906	14,101	205,610	216,879	30,104	137,448	10,395	\$7,943,754	\$233,843	\$8,177,597
122,700	18,247	41,956	62,315	35,440	252,669	32,143	644,759	202,391	20,035	257,739	67,541	94,162	304,850	24,279	85,141	16,979	134,713	534,512	63,904	13,645	196,462	198,259	27,888	131,615	9,912	\$7,561,185	\$225,416	\$7,786,601
117,819	17,472	40,613	59,063	34,090	244,360	31,314	611,626	192,323	19,611	247,780	65,518	89,028	292,931	23,474	80,873	16,401	128,687	511,121	60,227	13,248	188,077	184,150	26,777	127,192	9,719	\$7,213,448	\$218,918	\$7,432,365
Missouri	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming	Total Non-Federal	Federal Employees	TOTAL

jobs, or 4.4 percent, then fell precipitously by 8.9 million in 2020, or 6.3 percent. Overall, in 2020 workers' compensation coverage extended to an estimated 97.4 percent of all non-federal jobs covered by unemployment insurance (Table A.1), and 87.3 percent of all U.S. jobs (Table A.2).⁴⁴ In contrast to the decrease in covered jobs in the non-federal sector, coverage in the federal workers' compensation program grew more quickly in 2020 than in any other year in the study period. Specifically, 104,000 covered jobs were added in 2020 in comparison to 31,000 added between 2016 and 2019.

Table 4 reports workers' compensation covered wages disaggregated into federal and non-federal employment. Covered non-federal wages increased substantially over the study period, by \$1.2 trillion or 17.1 percent. Between 2019 and 2020, however, covered non-federal wages increased by only 1.5 percent. The increase in covered wages for federal workers far outpaced that of non-federal workers in 2020, expanding by 5.1 percent. Over the entire study period, however, covered wages of federal workers increased by 14.3 percent, 2.8 percentage points less than that of non-federal workers.

State Estimates of Covered Jobs and Wages

Table 3 also reports state trends in covered jobs over the study period. Between 2016 and 2020, all except 12 states experienced decreases in the number of jobs covered by workers' compensation. The job losses are almost entirely due to changes between 2019 and 2020, as Alaska was the only state to experience a decrease in covered jobs between 2016 and 2019. The three states with the largest percentage declines in covered jobs over the study period (2016-2020) were Hawaii (14.5%), Alaska (9.3%), and Vermont (8.5%). The states with the largest declines between 2019 and 2020 were Hawaii (15.9%), Nevada (10.4%), and New York (10.2%). Among the states that experienced increases in covered jobs over the study period, the largest percentage increases were in Idaho (8.8%), Utah (8.3%), and Arizona (5.3%). These same states experienced the smallest decreases in covered jobs between 2019 and 2020: Idaho (0.6%), Utah (1.2%), and Arizona (3.1%).

Table 4 similarly reports state trends in covered wages. The state trends paralleled the trends in covered jobs for 2016-2019, but covered wages continued to grow in 2020 even as covered jobs declined. Over the study period (2016-2020), every state experienced an increase in covered wages, with Hawaii experiencing the smallest increase (3.1%) and Washington the largest (32.3%). Still, the growth in covered wages slowed in 2020 relative to prior years. Forty-six states experienced an increase in covered wages of at least 10 percent between 2015 and 2019, compared to only 42 states between 2016 and 2020. Thirteen states experienced increases of at least 20 percent between 2015 and 2019, compared to only 9 between 2016 and 2020. During the study period (2016-2020), the states with the largest growth in covered wages were Washington (32.3%), Utah, (31.9%), and Idaho (31.3%); while the states with the slowest growth were Hawaii (4.7%), Alaska (4.7%), and Louisiana (6.0%). The states with the largest growth between 2019 and 2020 were Idaho (7.2%), Utah (7.0%), and South Dakota (5.5%); while the largest declines in covered wages between 2019 and 2020 took place in Hawaii (7.4%), North Dakota (4.3%), and Wyoming (4.1%).

Workers' Compensation Benefits Paid

Data Sources and Methods for Estimating Benefits Paid

This section describes the primary data sources the Academy uses to estimate workers' compensation benefits nationally and for each state. A detailed, state-by-state explanation of how the benefit estimates in this report are produced is available in *Sources and Methods 2022: A Companion to Workers*'

⁴⁴ According to unpublished estimates provided by the BLS, 4.3 percent of civilian (non-federal) workers represented by the BLS National Compensation Survey (NCS) were employed in establishments reporting zero annual workers' compensation costs in March 2020, compared to 3.7 percent in March of 2019 (DOL, 2020a). Civilian workers are those employed in private industry or state and local governments. Excluded from private industry are the self-employed and farm and private household workers. Federal government workers are excluded from the public sector. The private industry series and the state and local government series provide data for the two sectors separately. The Academy's estimate of legally required workers' compensation coverage is 97.4 percent of all non-federal UI covered jobs in 2020, 1.1 percentage points above NCS estimates.

Compensation: Benefits, Costs, and Coverage 2020, on the Academy's website (www.nasi.org)

The Academy's estimates of workers' compensation benefits paid in non-federal employment are based on three main data sources: 1) data from a questionnaire on workers' compensation benefits and costs, distributed annually by the Academy to state agencies overseeing workers' compensation programs; 2) data purchased from A.M. Best, a private company that specializes in collecting insurance data and rating insurance companies; and 3) data provided by the National Council on Compensation Insurance (NCCI). Together, the data from state agencies, A.M. Best, and NCCI allow us to assemble estimates of workers' compensation benefits paid by private insurance carriers, state funds, and self-insured employers. The U.S. Department of Labor provides data on benefits paid through federal programs.⁴⁵

Academy questionnaire. The primary source of data on total benefits paid to injured workers is responses from state workers' compensation agencies to the Academy's annual questionnaire. The questionnaire is designed to collect information on amounts of medical and indemnity benefits—the latter of which include compromise and release agreements —paid in a calendar year, as well as benefits paid through special funds, second injury funds, and guaranty funds. This year, we received responses from at least one agency or organization in 39 out of 51 jurisdictions.

States vary in their ability to provide complete data on benefits paid. One of the most common reporting problems relates to benefits paid by self-insured employers. If a state does not report self-insured benefits, benefits are imputed using one of two methods: (1) If historical data on self-insured benefits paid in the state are available, this information is used, along with information on the ratio of self-insured benefit payments to total benefits paid to extrapolate benefits paid in the state from trends over time. This method may understate or overstate benefits if there is a change in the proportion of self-insuring companies between the historical data year and the year(s) being estimated. (2) If historical data are not available for a state, we apply the ratio of self-insured benefits to covered wages in states where data are available, to the estimates of covered wages in states where data on self-insureds are missing. This method may understate or overstate benefits if the costs per worker covered by self-insurance in a state differs from the average.

Among the states that did not directly reply to the survey, six published annual reports from which we could obtain workers' compensation information normally included in the questionnaire. For some states, we obtained information on benefits paid through special funds, second injury funds, or guaranty funds from data on the websites of the state workers' compensation agency.

A.M. Best data. The A.M. Best data supplement the state survey data in cases in which the survey data are incomplete, missing, or determined to be incorrect. The A.M. Best data used for this report provide information on benefits paid in each state for 2016 through 2020 (A.M. Best, 2022). The data include information for all private carriers in every state and for 16 of the 22 state funds. These data do not include information about benefits paid by the other six state funds, by self-insured employers, by employers under deductible policies, or by special funds.⁴⁶

NCCI data. NCCI is the primary source of data on medical benefits in the 38 states in which it is licensed (NCCI, 2022). The NCCI data provide the percent of medical benefits paid relative to total benefits paid in each state. In states where NCCI data are not available, estimates of medical benefits are based on reports from the states. In cases where state data are incomplete and NCCI is licensed, NCCI is also a source for data on reimbursements paid through deductible policies and for amounts of covered wages for employers insured by private insurers or a competitive state fund. NCCI data does not include self-insured employers.

⁴⁵ Note that while, in previous reports, Table 5 reports benefits paid by insurers, this report uses the term payer instead. We made this change to clarify that states can be either employers or insurers, depending on the context, and that the federal government is a payer, but not an insurer, with respect to WC. That is, it pays benefits but does not insure other entities.

⁴⁶ A.M. Best does not provide data on the four exclusive state funds (Ohio, North Dakota, Washington, and Wyoming), the state fund in South Carolina that only provides benefits to government workers, or the state fund in West Virginia that discontinued in 2006 but was still paying benefits as of 2020.

Estimating deductibles. The availability of deductible policies varies by state.⁴⁷ Among the states that allow them, a few can provide us with complete information on these policies, but most cannot. For states that do provide information on deductibles, we rely on the survey data alone, or together with data from A.M. Best, to estimate amounts paid for the deductibles. For states that do not include deductibles in the survey, we rely on NCCI data on manual equivalent premiums, together with data from A.M. Best to estimate deductible payments.⁴⁸ See *Sources and Methods 2022* on the Academy's website for a detailed description of the methods used to estimate deductibles.

Benefits paid. The Academy's estimates of workers' compensation benefits in this report reflect amounts paid in calendar year 2020 regardless of when the work-related injuries and illnesses occurred. This measure of benefits is commonly used in reporting data on social insurance programs, private employee benefits, and other income security programs.

The Academy draws on a range of data and methods to provide the most accurate possible estimates of workers' compensation benefits, costs, and coverage for a five-year study period.

Benefits incurred. A different measure, accident year incurred losses (or accident year incurred benefits), is the common reporting measure for private workers' compensation insurers and some state funds. Incurred benefits measure the total expected benefits associated with injuries that occur in a particular year, regardless of whether the benefits are paid in that year or future years. The two measures, accident year benefits paid and accident year benefits incurred, reveal important but different information. For a discussion of the relative merits of each measure, refer to the Addendum, Benefits Paid vs. Benefits Incurred.

National Estimates of Benefits Paid

Table 5 shows workers' compensation benefits paid by each type of payer (private insurer, state fund, self-insured, and federal government) from 2000 to 2020. Altogether, workers' compensation paid approximately \$58.9 billion in benefits in 2020, a 6.5 percent decrease from the total paid in 2019. Private carriers were the largest single payer category, followed by self-insured employers, state funds, and the federal government.

Benefits by type of payer. In 2020, private insurers continued to dominate the workers' compensation insurance market, accounting for \$32.6 billion in benefits paid (or 55.3% of the total). Self-insured employers were the next largest payer, accounting for \$14.5 billion in benefits paid (24.7%). State funds paid \$8.5 billion (14.5%) and the federal government the remaining \$3.3 billion (5.5%) of benefits.

Over the last two decades, the workers' compensation insurance market has shifted away from coverage by private insurers, state funds, and federal programs, and toward self-insurance. As shown in Table 5, the former groups decreased their share of benefits by 1.0, 1.1, and 0.7 percentage points, respectively, between 2000 and 2020.⁴⁹ Over the same period, the share of benefits paid by selfinsurers increased by 2.7 percentage points—from 22.0 percent to 24.7 percent.

Deductibles. Employers who have workers' compensation policies with deductibles must reimburse their insurer for benefits paid up to the deductible amount. A share of the benefit payments that are attributed to private insurers and state funds in Table 5 are thus paid by employers, as is depicted in Table 6.

⁴⁷ Deductible policies are not allowed in the four states with exclusive state funds (Ohio, North Dakota, Washington, and Wyoming), or in Wisconsin. Four states (New York, Oregon, Pennsylvania, and Rhode Island) do not allow deductible policies in their competitive state funds. Deductibles policies are allowed in California's state fund, but are not currently offered.

⁴⁸ Accurately estimating high-deductible policies is particularly challenging. The Academy notes that numbers in this report may not fully capture either the benefits or costs and is working on better methodology for the latter.

⁴⁹ The decline in the relative importance of state funds in recent years largely reflects the decline in coverage of the California State Fund (which accounted for 50 percent of the California workers' compensation insurance market in 2004 but only ten percent more recently) and, to a lesser extent, the dissolution of funds in West Virginia (in 2009), Arizona (in 2012), and Utah (in 2017).

Table 5

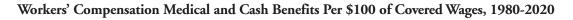
Workers' Compensation Benefits Paid by Type of Insurer, 2016-2020

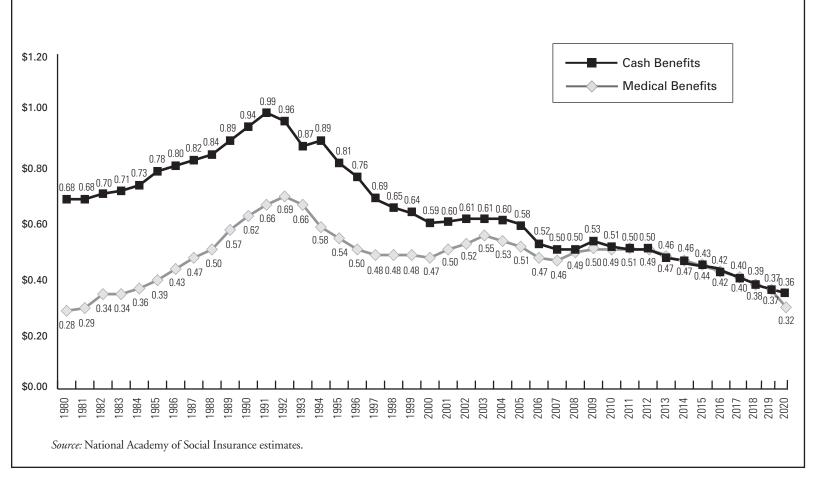
	Private In	isurers	Self-Inst Employ		State Fu	nds	Feder Governi			A	ll Insurers		
Year	Total (millions)	% Share	Total (millions)	% Share	Total (millions)	% Share	Total (millions)	% Share	Total Benefits (millions)	% Change from Prior Year	% Total Medical (millions)	ó Change from Prior Year	% Medical
2000	26,874	56.3	10,481	22.0	7,388	15.5	2,957	6.2	47,699	3.0	20,933	4.4	43.9
2001	27,905	54.9	11,839	23.3	8,013	15.8	3,069	6.0	50,827	6.6	23,137	10.5	45.5
2002	28,085	53.7	11,920	22.8	9,139	17.5	3,154	6.0	52,297	2.9	24,203	4.6	46.3
2003	28,395	51.9	12,717	23.2	10,442	19.1	3,185	5.8	54,739	4.7	25,733	6.3	47.0
2004	28,632	51.0	13,115	23.4	11,146	19.9	3,256	5.8	56,149	2.6	26,079	1.3	46.4
2005	29,039	50.9	13,710	24.0	11,060	19.4	3,258	5.7	57,067	1.6	26,361	1.1	46.2
2006	27,946	50.9	13,125	23.9	10,555	19.2	3,270	6.0	54,896	-3.8	26,206	-0.6	47.7
2007	29,410	52.2	13,482	23.9	10,153	18.0	3,340	5.9	56,385	2.7	27,105	3.4	48.1
2008	30,725	52.3	14,255	24.3	10,347	17.6	3,424	5.8	58,750	4.2	28,987	6.9	49.3
2009	30,909	52.9	13,987	23.9	9,997	17.1	3,543	6.1	58,435	-0.5	28,157	-2.9	48.2
2010	31,090	53.2	13,894	23.8	9,809	16.8	3,672	6.3	58,465	0.1	28,715	2.0	49.1
2011	33,014	53.7	14,805	24.1	9,837	16.0	3,777	6.1	61,433	5.1	30,805	7.3	50.1
2012	33,911	54.1	14,991	23.9	9,977	15.9	3,776	6.0	62,655	2.0	31,266	1.5	49.9
2013	35,203	55.5	15,020	23.7	9,508	15.0	3,693	5.8	63,424	1.2	32,274	3.2	50.9
2014	35,290	55.5	15,365	24.2	9,288	14.6	3,681	5.8	63,624	0.3	32,420	0.5	51.0
2015	34,760	55.4	15,237	24.3	9,077	14.5	3,706	5.9	62,780	-1.3	31,642	-2.4	50.4
2016	34,799	55.5	15,324	24.4	8,953	14.3	3,603	5.7	62,678	-0.2	31,503	-0.4	50.3
2017	34,522	55.6	15,190	24.5	8,908	14.3	3,483	5.6	62,104	-0.9	30,981	-1.7	49.9
2018	34,692	55.1	15,940	25.3	8,888	14.1	3,455	5.5	62,976	1.4	31,428	1.4	49.9
2019	35,012	55.6	15,819	25.1	8,811	14.0	3,375	5.4	63,017	0.1	31,301	-0.4	49.7
2020	32,611	55.3	14,533	24.7	8,515	14.5	3,265	5.5	58,925	-6.5	27,728	-11.4	47.1

Notes: Benefits are calendar-year payments to injured workers and to providers of their medical care, including benefits paid by employers through deductible policies. Federal benefits include benefits paid under the Federal Employees' Compensation Act and employer-financed benefits paid through the Federal Black Lung Disability Trust Fund. Federal benefits include a portion of employer-financed benefits under the Longshore and Harbor Workers' Compensation Act. See Appendix B for more information about federal programs.

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.

Figure 2





In 2020, employers paid \$10.6 billion in benefits under deductible policies, or 18.0 percent of total benefits paid. Almost all benefits paid under deductible provisions are paid by employers covered through private insurers (97.3% of total deductibles paid in 2020), with a small share of deductibles paid by employers covered through a state fund (2.7% of total). The share of benefits paid by employers under deductible provisions increased by 2.2 percentage points between 2000 and 2010 and by another 2.8 percentage points between 2010 and 2020.

Employers who have policies with deductibles are, in effect, self-insured up to the amount of the deductible.⁵⁰ If we allocate the amount of benefits paid under deductibles to self-insurance (instead of

to private carriers as in Table 5) we obtain a more accurate picture of the share of the workers' compensation market for which employers are assuming primary financial risk. Table 7 shows the share of workers' compensation benefits paid by each type of provider, separating out deductibles paid within private insurance or state funds. When these deductibles are attributed to employers (column 9), their share of benefits paid was 42.7 percent in 2020 (as opposed to 24.7% in Table 5). Private insurers paid 37.8 percent (as opposed to 55.3%). The remaining benefits were paid by state funds (14.0%), the federal government (5.5%).

Medical benefits. Historically, medical benefits paid to health care providers have been a smaller share of

⁵⁰ Deductible policies may be written in a variety of ways, and the maximum amount may represent a specified number of injuries and the corresponding benefits paid, or a specified amount of the aggregate benefits paid.

Table 6

		Deductibles (milli	ions \$)	Deductibles as a % of
Year	Total	Private Insured	State Fund Insured	Total Benefits
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	7,798	7,290	508	13.7
2006	7,575	7,052	524	13.8
2007	8,217	7,684	533	14.6
2008	8,603	8,095	508	14.6
2009	8,582	8,118	464	14.7
2010	8,904	8,466	438	15.2
2011	9,248	8,822	426	15.1
2012	9,940	9,494	446	15.9
2013	10,496	10,152	344	16.5
2014	10,809	10,452	356	17.0
2015	10,703	10,344	359	17.0
2016	10,746	10,419	327	17.1
2017	10,890	10,578	312	17.5
2018	11,011	10,735	319	17.5
2019	11,126	10,790	310	17.7
2020	10,606	10,322	285	18.0

Workers' Compensation Employer-Paid Benefits Under Deductible Provisions, 2000-2020

Notes: For states that provide information on deductible payments, we rely on the survey data alone, or together with data from AM Best, to estimate amounts paid for deductibles. For states that do not include deductibles in the survey, we rely on NCCI data on manual equivalent premiums together with data from AM Best to estimate deductible payments. (See the *Sources and Methods 2022* available at www.nasi.org for more details).

Source: National Academy of Social Insurance estimates.

workers' compensation benefits than cash benefits paid to injured workers (Figure 2). Since 2008, however, medical and cash benefits have accounted for roughly equal shares of total benefits, with medical benefits exceeding cash benefits for the first time in 2011 (Table 5). The share of medical benefits decreased slightly (from 50.4% to 49.7%) between 2015 and 2019 before falling 2.6 percentage points, to 47.1 percent, in 2020—the lowest it has been since 2005. The decline in medical benefits between 2019 and 2020, down \$3.6 billion or 11.4 percent, is the largest one-year change in the 20 years shown in Table 5.

This outcome is likely related to the early impacts of COVID-19. U.S. healthcare providers cancelled and/or delayed many services and procedures in the early months of the pandemic, resulting in an overall

Table 7

Percentage Distribution of Workers' Compensation Benefit Payments, by Type of Coverage: With and Without Deductibles 2000-2020

	Total Benefits	Private Insured				<u>cent of Total</u> State Fund II				
Year	(millions)	Total	Employer Paid	Insurer Paid after Deductibles	Total	Employer Paid Deductibles	Insurer Paid After Deductibles	Self- Insured	Federal	Total Employer Paid
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(2)+(5)+(7)
2000	47,699	56.3	12.4	43.9	15.5	0.6	14.9	22.0	6.2	35.0
2001	50,827	54.9	12.0	42.9	15.8	0.6	15.2	23.3	6.0	35.9
2002	52,297	53.7	12.4	41.3	17.5	0.8	16.7	22.8	6.0	36.0
2003	54,739	51.9	13.8	38.1	19.1	0.9	18.2	23.2	5.8	37.9
2004	56,149	51.0	12.7	38.3	19.9	0.9	18.9	23.4	5.8	37.0
2005	57,067	50.9	12.8	38.1	19.4	0.9	18.5	24.0	5.7	37.7
2006	54,896	50.9	12.8	38.1	19.2	1.0	18.3	23.9	6.0	37.7
2007	56,385	52.2	13.6	38.5	18.0	0.9	17.1	23.9	5.9	38.5
2008	58,750	52.3	13.8	38.5	17.6	0.9	16.7	24.3	5.8	38.9
2009	58,435	52.9	13.9	39.0	17.1	0.8	16.3	23.9	6.1	38.6
2010	58,465	53.2	14.5	38.7	16.8	0.7	16.0	23.8	6.3	39.0
2011	61,433	53.7	14.4	39.4	16.0	0.7	15.3	24.1	6.1	39.2
2012	62,655	54.1	15.2	39.0	15.9	0.7	15.2	23.9	6.0	39.8
2013	63,424	55.5	16.0	39.5	15.0	0.5	14.4	23.7	5.8	40.2
2014	63,624	55.5	16.4	39.0	14.6	0.6	14.0	24.2	5.8	41.1
2015	62,780	55.4	16.5	38.9	14.5	0.6	13.9	24.3	5.9	41.3
2016	62,678	55.5	16.6	38.9	14.3	0.5	13.8	24.4	5.7	41.6
2017	62,104	55.6	17.0	38.6	14.3	0.5	13.8	24.5	5.6	42.0
2018	62,976	55.1	17.0	38.1	14.1	0.5	13.6	25.3	5.5	42.8
2019	63,017	55.6	17.2	38.4	14.0	0.5	13.5	25.1	5.4	42.8
2020	58,925	55.3	17.5	37.8	14.5	0.5	14.0	24.7	5.5	42.7

Notes: Shaded columns sum to 100%. Total employer paid benefits include employer-paid deductibles under private carriers and state funds, as well as benefits paid by self-insured employers.

Source: National Academy of Social Insurance estimates based on Tables 5 and 6.

decline in medical services for workers' compensation claims. Medical costs associated with COVID-19 may have also been externalized to public and private sources, such as publicly funded tests and private healthcare plans. Finally, many COVID-19 claims were "indemnity only" and had little to no medical costs.

State Estimates of Benefits Paid

Benefits by type of insurer. Table 8 shows the percent share of workers' compensation benefits paid by each type of insurer in each state in 2020. The shares vary considerably across states for several reasons: not all states have a state fund; where state funds exist, their legal status varies; the incentives to self-insure vary across states; and two states (North Dakota and Wyoming) do not allow self-insurance.

North Dakota and Wyoming have exclusive state funds. In 2020, their state funds accounted for more than 99 percent of total workers' compensation benefits paid (Table 8). Ohio and Washington have exclusive state funds but do allow employers to selfinsure. In 2020, their state funds accounted for just under 80 percent of total benefits paid (78.9% and 78.5%, respectively), representing a slight decrease in the state fund share in recent years.⁵¹ Among the other 18 states that have an active state fund, the share of benefits accounted for by the fund ranged from less than ten percent in California (9.5%), New Mexico (6.6%), and South Carolina (7.2%) to approximately one-half in Colorado (45.4%), Oregon (49.5%), and Montana (51.8%), and almost two-thirds in Idaho (60.6%).

Among the states that do not have a state fund, private carriers typically accounted for 70 to 80 percent of benefits paid in 2020, with self-insured employers accounting for the other 20 to 30 percent. Alabama is an exception, with self-insured employers covering nearly half of benefits paid in 2020 (48.3%—by far the highest self-insured share of any state), and private insurers paying the remaining half (51.7%). In six other states, including California and New York, the proportion of benefits paid by self-insured employers exceeded 30 percent. South Dakota is an exception in the opposite direction, with private carriers accounting for 96.5 percent of benefits paid in 2020, and self-insured employers only 3.5 percent. Private carrier benefits also exceeded 80 percent of the total in Arizona, Indiana, Iowa, Tennessee, Utah, Vermont, and Wisconsin.

There are several reasons for the tremendous variation in take-up rates for self-insurance across states:

- Large employers are more likely to self-insure, and some states have a disproportionate share of large employers relative to other states.
- Financial incentives to self-insure vary across states because of differences in state workers' compensation statutes.
- 3) Rules governing deductible policies vary across states. Deductible policies may serve as a substitute for self-insurance, particularly for large, multi-state employers that want to avoid the regulatory requirements of becoming selfinsured in a large number of states.
- 4) Self-insurance and private insurance are substitutes. When workers' compensation premium rates are rising in a state, therefore, employers tend to shift to self-insurance. When premium rates are declining, employers tend to shift to private insurance.
- 5) Measurement error may account for some of the observed variation in the share of benefits paid by self-insured employers; our methods for estimating benefits paid under self-insurance vary across states depending upon state agencies' responses to the Academy's survey.

Medical benefits paid. Table 8 shows, for each state, the amount of medical benefits paid and medical benefits as a share of total benefits. In 2020, the median share of medical benefits was 52.8 percent, down over three percentage points from 2019 (56.0%). The share of medical benefits was highest in Wisconsin (78.0%), followed by Alabama (70.6%), Indiana (69.4%), and Utah (68.1%). The share of medical benefits was lowest in Washington (27.3%), Rhode Island (28.0%), D.C. (28.1%) and Massachusetts (29.8%). Relative to 2019, medical benefits as a share of total benefits decreased in 47

⁵¹ Private carrier workers' compensation benefit payments occur in states with exclusive state funds for a few possible reasons. First, some policies sold to employers provide multistate coverage whereas the exclusive state fund may be restricted to providing benefits only in the state where it operates. Second, the exclusive state fund may not be permitted to offer employers' liability coverage, federal LWHCA coverage, or excess coverage for authorized self-insurers.

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ut $618,925$ 75.2 77.6 2 Columbia $81,217$ 77.6 2 </td <td>Colorado</td> <td>230,259</td> <td>29.3</td> <td>357,161</td> <td>45.4</td> <td>199,587</td> <td>25.4</td> <td>787,007</td> <td>432,854</td> <td>55.0</td> <td>24</td>	Colorado	230,259	29.3	357,161	45.4	199,587	25.4	787,007	432,854	55.0	24
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2,512,290 72.9 7.66 $5.7,32$ 15.6 $1,016,303$ 45.5 $56,732$ 15.6 $1,05,003$ 45.5 $56,732$ 15.6 $94,515$ 32.4 $176,612$ 60.6 $1,489,482$ 76.8 76.612 60.6 $1,489,482$ 76.8 $176,612$ 60.6 $1,489,482$ 76.8 $176,612$ 60.6 $500,934$ 86.4 $176,612$ 60.6 $300,946$ 79.3 $112,551$ 20.2 $300,946$ 79.3 $112,551$ 20.2 $300,946$ 79.3 $112,551$ 20.2 $300,946$ 79.3 $112,551$ 20.2 $300,946$ 79.3 $112,551$ 20.2 $300,946$ 79.3 $112,551$ 20.2 $154,888$ 65.6 $133,285$ 16.4 60.9 58.6 $133,285$ 16.4 $154,888$ 65.6 $133,285$ 16.4 $154,888$ 65.6 $133,285$ 16.4 $154,888$ 57.9 $114,641$ 14.8 10 77.2 $229,789$ 77.0 10 $229,789$ 77.0 $245,333$ 77.1 $229,789$ 77.0 10 $2245,333$ 79.7 10 $2245,333$ 79.7 10 $121,119$ 51.8 10 $245,333$ 79.7 110 $245,333$ 79.7 110 $125,360$ 67.1 110 $125,660$ 67.1	District of Columbia	81,217	77.6			23,394	22.4	104,610	29,396	28.1	49
1,016,303 76.6 $55,732$ 15.6 165,003 45.5 $56,732$ 15.6 94,515 32.4 $176,612$ 60.6 1,489,482 76.8 $176,612$ 60.6 1,489,482 76.8 $176,612$ 60.6 $500,934$ 86.4 $176,612$ 60.6 $500,934$ 86.4 $176,612$ 60.6 $70,934$ 86.4 $176,612$ 60.6 $309,946$ 79.3 $112,551$ 20.2 $309,946$ 79.3 $112,551$ 20.2 $309,946$ 79.3 $114,641$ 14.8 $447,878$ 57.9 $114,641$ 14.8 $154,888$ 65.6 $133,285$ 16.4 600 58.6 $133,285$ 16.4 600 58.6 $133,285$ 16.4 $154,888$ 65.6 $133,285$ 16.4 600 58.6 $133,285$ 16.4 $750,121$ 72.3 $156,440$ 15.8 77516 33.1 $121,119$ 51.8 77516 33.1 $121,119$ 51.8 $265,669$ 67.7 $156,440$ 15.8 $174,620$ 66.7 $156,440$ 15.8 $1245,333$ 79.7 $156,440$ 15.8 $1245,333$ 79.7 $121,119$ 51.8 $1245,339$ 67.1 $121,119$ 51.8 $1245,339$ 67.1 $121,119$ 51.8 $1245,339$ 67.1 $121,119$ 51.8 $1245,339$ $67.$	Florida	2,512,290	72.9			934,003	27.1	3,446,293	2,178,057	63.2	12
165,003 45.5 56,732 15.6 94,515 32.4 176,612 60.6 1,489,482 76.8 76.8 60.6 1,489,482 76.8 76.8 60.6 500,934 86.4 86.4 60.6 456,017 80.1 80.1 20.5 309,946 79.3 112,551 20.2 325,499 58.5 112,551 20.2 447,878 57.9 114,641 14.8 154,888 65.6 133,285 16.4 475,096 58.6 133,285 16.4 6etts 883,213 74.2 20.2 156,440 15.8 156,440 15.8 1 750,121 72.3 75.3 156,440 1 229,789 77.0 229,783 75.6 1 229,789 77.0 156,440 15.8 1 229,783 77.0 229,549 56.440 15.8 1 229,783 77.0 2245,333 77.0 245,333 77.0	Georgia	1,016,303	76.6			311,068	23.4	1,327,371	639,793	48.2	33
94,515 32.4 $176,612$ 60.6 $1,489,482$ 76.8 $176,612$ 60.6 $500,934$ 86.4 86.4 86.4 $500,934$ 86.4 80.1 $94,56,017$ 80.1 $309,946$ 79.3 $112,551$ 20.2 $309,946$ 79.3 $112,551$ 20.2 $302,8499$ 58.5 $112,551$ 20.2 $447,878$ 57.9 $114,641$ 14.8 $154,888$ 65.6 $1133,285$ 16.4 $475,096$ 58.6 $133,285$ 16.4 60.9 58.6 $133,285$ 16.4 $770,121$ 72.3 74.2 74.2 $77,012$ 77.2 $174,641$ 14.8 $77,012$ 77.2 $123,285$ 16.4 $750,121$ 72.3 74.2 77.2 $122,9789$ 77.0 $155,440$ 15.8 $112,119$ 51.8 $2245,333$ 79.7 $1245,339$ 67.1 $124,109$ 15.8	Hawaii	165,003	45.5	56,732	15.6	141,036	38.9	362,770	171,590	47.3	37
1,489,482 76.8 $1,489,482$ 76.8 $500,934$ 86.4 86.4 $500,934$ 86.4 86.4 86.4 86.4 86.4 86.4 86.4 80.1 80	Idaho	94,515	32.4	176,612	60.6	20,185	6.9	291,312	176,535	60.6	16
500,934 86.4 86.4 $456,017$ 80.1 $456,017$ 80.1 80.1 $456,017$ 80.1 80.1 $309,946$ 79.3 $112,551$ 20.2 $100,000$ $325,499$ 58.5 $112,551$ 20.2 $114,641$ 14.8 $114,641$ 14.8 $447,878$ 57.9 $114,641$ 14.8 $114,641$ 14.8 $115,4,888$ 65.6 $1133,285$ 16.4 $116,4,000$ $475,096$ 58.6 $133,285$ 16.4 $123,285$ 16.4 $114,641$ $114,80$ $475,096$ 58.6 $133,285$ 16.4 $123,285$ 16.4 $114,80$ $100,121$ 74.2 $133,285$ 16.4 $114,100$ $114,100$ $114,100$ $100,121$ 72.3 74.2 $125,1119$ 51.8 $114,100$ $114,100$ $114,100$ $100,121$ 72.3 77.0 $125,1119$ 51.8 $125,1119$ 51.8 $125,133$ $100,121$ $2245,333$ 79.7 $125,1119$ 51.8 $125,133$ $125,130$ 1	Illinois	1,489,482	76.8			450,051	23.2	1,939,533	866,971	44.7	41
456,017 80.1 80.1 80.1 $309,946$ 79.3 $112,551$ 20.2 $325,499$ 58.5 $112,551$ 20.2 $447,878$ 57.9 $114,641$ 14.8 $154,888$ 65.6 $113,531$ 20.2 $475,096$ 58.6 $133,285$ 16.4 $475,096$ 58.6 $133,285$ 16.4 $475,096$ 58.6 $133,285$ 16.4 $753,279$ 66.9 $133,285$ 16.4 $750,121$ 72.2 74.2 74.2 $750,121$ 72.3 $156,440$ 15.8 $77,516$ 33.1 $121,119$ 51.8 $77,516$ 33.1 $121,119$ 51.8 $77,516$ 33.1 $121,119$ 51.8 $755,669$ 67.7 $125,6440$ 51.8 $75,633$ 79.7 $125,6440$ 51.8 $75,633$ 79.7 $125,6440$ 51.8 $75,693$ 67.1 $125,6440$ 51.8 <tr< td=""><td>Indiana</td><td>500,934</td><td>86.4</td><td></td><td></td><td>79,005</td><td>13.6</td><td>579,939</td><td>402,478</td><td>69.4</td><td>3</td></tr<>	Indiana	500,934	86.4			79,005	13.6	579,939	402,478	69.4	3
309,946 79.3 $312,499$ 58.5 $112,551$ 20.2 1 $325,499$ 58.5 $112,551$ 20.2 1 $447,878$ 57.9 $114,641$ 14.8 2 $154,888$ 65.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $231,279$ 66.9 74.2 33 2 2 10 $750,121$ 72.3 74.2 2 2 2 10 $750,121$ 72.3 77.0 $125,440$ 15.8 2 $77,516$ 33.1 $121,119$ 51.8 2 $245,333$ 79.7 2 $77,516$ 33.1 $121,119$ 51.8 2 $245,333$ 79.7 2 $265,669$ 67.1 <	Iowa	456,017	80.1			113,260	19.9	569,276	322,780	56.7	21
325,499 58.5 $112,551$ 20.2 1 $447,878$ 57.9 $114,641$ 14.8 2 $154,888$ 65.6 $114,641$ 14.8 2 $154,888$ 65.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $531,279$ 66.9 $133,285$ 16.4 2 $531,279$ 66.9 $133,285$ 16.4 2 $531,279$ 66.9 74.2 2 3	Kansas	309,946	79.3			80,854	20.7	390,800	249,330	63.8	10
447,878 57.9 $114,641$ 14.8 2 $154,888$ 65.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 605 58.6 $133,285$ 16.4 2 $531,279$ 66.9 74.2 32 32 $750,121$ 72.3 74.2 32 22 $1229,789$ 77.0 $156,440$ 15.8 2 $77,516$ 33.1 $121,119$ 51.8 2 $77,516$ 33.1 $121,119$ 51.8 2 $265,669$ 67.7 $265,669$ 67.7 1 1 $200,700$ 70.0 70.0 70.0 1 1	Kentucky	325,499	58.5	112,551	20.2	118,453	21.3	556,503	291,607	52.4	27
154,888 65.6 133,285 16.4 2 $475,096$ 58.6 $133,285$ 16.4 2 $883,213$ 74.2 $883,213$ 74.2 33 $531,279$ 66.9 58.6 $133,285$ 16.4 2 $750,121$ 72.3 74.2 22 22 22 $750,121$ 72.3 77.0 $226,440$ 15.8 22 $77,516$ 33.1 $121,119$ 51.8 22 $77,516$ 33.1 $121,119$ 51.8 $2265,669$ 67.7 $124,110$ 51.8 $216,120$ $265,669$ 67.7 $123,1119$ 51.8 $216,120$ $224,333$ 79.7 $124,120$ $124,120$ $124,120$ $124,120$ $124,120$ $124,120$ $1 121,119$ 51.8 $1 121,119$ 51.8 $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ $1 124,120$ <td>Louisiana</td> <td>447,878</td> <td>57.9</td> <td>114,641</td> <td>14.8</td> <td>210,423</td> <td>27.2</td> <td>772,942</td> <td>429,756</td> <td>55.6</td> <td>23</td>	Louisiana	447,878	57.9	114,641	14.8	210,423	27.2	772,942	429,756	55.6	23
475,096 58.6 133,285 16.4 2 etts 883,213 74.2 133,285 16.4 2 531,279 66.9 531,279 66.9 2 2 750,121 72.3 7 156,440 15.8 2 1 229,789 77.0 156,440 15.8 2 750,121 72.3 156,440 15.8 2 77,516 33.1 121,119 51.8 2 245,333 79.7 245,333 79.7 2 2 pshire 135,389 67.1 121,119 51.8 2	Maine	154,888	65.6			81,288	34.4	236,176	124,701	52.8	26
cetts 883,213 74.2 531,279 66.9 531,279 66.9 531,279 66.9 531,279 66.9 531,279 66.9 531,279 66.9 531,279 66.9 531,279 66.9 531,279 66.9 531,279 531,279 532,379 532,578 533,51 156,440 15.8 531,279 531,379 531,31 121,119 51.8 531,333 79,77 545,333 79,77 51.8 531,333 79,77 51.8 51.3 52.5,56.6 67.1 51.8 <th< td=""><td>Maryland</td><td>475,096</td><td>58.6</td><td>133,285</td><td>16.4</td><td>202,994</td><td>25.0</td><td>811,375</td><td>391,083</td><td>48.2</td><td>33</td></th<>	Maryland	475,096	58.6	133,285	16.4	202,994	25.0	811,375	391,083	48.2	33
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Massachusetts	883,213	74.2			306, 310	25.8	1,189,523	354,745	29.8	48
750,121 72.3 72.3 $229,789$ 77.0 $229,789$ 77.0 $578,149$ 58.5 $156,440$ 15.8 $225,783$ $77,516$ 33.1 $121,119$ 51.8 $245,333$ 79.7 $265,669$ 67.7 67.1 $91,744,020$ $124,333$ 79.7 $91,744,020$ $124,119$ 51.8 $214,133$ $214,119$ 51.8 $214,133$ $214,119$ 51.8 $91,120$ </td <td>Michigan</td> <td>531,279</td> <td>6.99</td> <td></td> <td></td> <td>262,544</td> <td>33.1</td> <td>793,823</td> <td>400,594</td> <td>50.5</td> <td>29</td>	Michigan	531,279	6.99			262,544	33.1	793,823	400,594	50.5	29
229,789 77.0 229,789 77.0 578,149 58.5 156,440 15.8 2 77,516 33.1 121,119 51.8 2 245,333 79.7 245,333 79.7 121,119 51.8 265,669 67.7 255,569 67.1 1 pshire 135,389 67.1 1 1	Minnesota	750,121	72.3			287,988	27.7	1,038,109	520,219	50.1	30
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Mississippi	229,789	77.0			68,759	23.0	298,549	183,607	61.5	14
77,516 33.1 121,119 51.8 245,333 79.7 245,333 79.7 265,669 67.7 1 pshire 135,389 67.1	Missouri	578,149	58.5	156,440	15.8	254,041	25.7	988,630	564,508	57.1	20
245,333 79.7 265,669 67.7 pshire 135,389 67.1	Montana	77,516	33.1	121,119	51.8	35,291	15.1	233,926	151,116	64.6	8
265,669 67.7 1 pshire 135,389 67.1 1	Nebraska	245,333	7.97			62,568	20.3	307,901	179,814	58.4	17
pshire 135,389 67.1	Nevada	265,669	67.7			126,952	32.3	392,621	175,109	44.6	42
17//020 70.0	New Hampshire	135,389	67.1			66,317	32.9	201,706	124,251	61.6	13
7 1,744,050 /8.0	New Jersey	1,744,030	78.0			493,200	22.0	2,237,230	1,064,555	47.6	36

	κ $2,682,858$ 45.6 $1,205,101$ 20.5 $1,9$ arolina $766,600$ 77.7 $111,127$ 99.8 2 akota ^e 173 0.2 $111,127$ 99.8 3 $k,957$ 0.3 $1,275,614$ 78.9 3 $akota$ $235,452$ 46.1 $186,553$ 36.5 3 a $225,285$ 32.6 $341,716$ 49.5 1 $ania$ $1,980,393$ 72.8 $112,106$ 4.1 6 and $68,843$ 47.7 $57,712$ 39.9 3 $anolinaf$ $724,351$ 69.3 $74,776$ 7.2 2 $akota$ $102,006$ 96.5 $74,776$ 7.2 2 $akota$ $102,006$ 96.5 $74,427$ 30.2 2 $akota$ $102,006$ 96.5 $72,733$ 30.2 2 $akota$ $102,006$ 96.5 $72,733$ 30.2 2 $akota$ $102,006$ 96.5 $72,733$ 30.2 2 $akota$ $102,006$ 96.5 $72,7333$ 30.2 2 $akota$ $102,006$ 88.4 $404,427$ 30.2 2 $akota$	33.9 22.3 22.3 20.8 17.4 17.9 17.9 23.1 12.4 23.5 3.5 3.5 19.8 19.8	5,879,351 986,930 111,300 1,616,395 510,788 690,479 690,479 2,719,614 144,474 1,044,819 105,663 570,001	1,829,295 430,301 62,375 541,273 261,523 339,025 1,236,240 40,453 444 048	31.1 43.6 56.0 33.5	47 43
unclina $766,600$ 7.7 $220,330$ 2.23 $986,930$ $430,301$ 436 436 akorse $1/73$ 0.2 $111,1127$ 99.8 $335,824$ 20.8 $111,300$ $62,375$ 560 akorse $4,957$ 0.3 $1,275,614$ 78.9 $335,824$ 20.8 $111,300$ $62,375$ 560 49.1 akorse $235,452$ 46.1 $186,553$ 36.5 $88,783$ $17,4$ $510,788$ $235,629$ 49.1 at $225,238$ 32.6 $341,716$ 49.5 $123,40.946$ $144,488$ 45.5 at $74,351$ 63.7 $74,473$ 32.5 $104,427$ 30.2 $265,39$ 56.923 28.0 ato $74,437$ 30.2 $25,392$ $124,449$ $46,438$ 42.638 42.7 band $74,437$ 30.2 $265,923$ $124,449$ $46,438$ 56.233 $58.16.111$ band <td>rrolina$766,600$$77.7$$111,127$$99.8$$2$akota^e$173$$0.2$$111,127$$99.8$$3$akota^e$4,957$$0.3$$1,275,614$$78.9$$3a235,452$$46.1$$186,553$$36.5$$3a225,285$$32.6$$341,716$$49.5$$1$ania$1,980,393$$72.8$$112,106$$4.1$$0and68,843$$47.7$$57,712$$39.9$$39.9$urolina^f$724,351$$69.3$$74,776$$7.2$$22$urolina^f$724,351$$69.3$$74,776$$7.2$$22$urolina^f$724,351$$69.3$$74,776$$7.2$$22$urolina^f$724,351$$69.3$$74,776$$7.2$$22$urolina^f$102,006$$96.5$$74,776$$7.2$$22$urolina^f$122,049$$84.1$$404,427$$30.2$$227,049$$8.4.1$$404,427$$30.2$$227,049$$83.0$$121,066$$88.4$$121,066$$88.4$$121,066$$88.4$$121,066$$88.4$$200,006$$202,006$$6,77,023$$78.0$$78.0$$78.0$$78.6$$70.5$$200,006$$200,006$</td> <td>22.3 20.8 17.4 17.9 23.1 12.4 23.5 3.5 3.5 15.9 19.8</td> <td>986,930 111,300 1,616,395 510,788 690,479 2,719,614 1,44,474 1,044,819 105,663 570,001</td> <td>430,301 62,375 541,273 261,523 261,523 339,025 1,236,240 40,453 444,048</td> <td>43.6 56.0 33.5</td> <td>43</td>	rrolina $766,600$ 77.7 $111,127$ 99.8 2 akota ^e 173 0.2 $111,127$ 99.8 3 akota ^e $4,957$ 0.3 $1,275,614$ 78.9 3 a $235,452$ 46.1 $186,553$ 36.5 3 a $225,285$ 32.6 $341,716$ 49.5 1 ania $1,980,393$ 72.8 $112,106$ 4.1 0 and $68,843$ 47.7 $57,712$ 39.9 39.9 urolina ^f $724,351$ 69.3 $74,776$ 7.2 22 urolina ^f $102,006$ 96.5 $74,776$ 7.2 22 urolina ^f $122,049$ 84.1 $404,427$ 30.2 $227,049$ $8.4.1$ $404,427$ 30.2 $227,049$ 83.0 $121,066$ 88.4 $121,066$ 88.4 $121,066$ 88.4 $121,066$ 88.4 $200,006$ $202,006$ $6,77,023$ 78.0 78.0 78.0 78.6 70.5 $200,006$ $200,006$	22.3 20.8 17.4 17.9 23.1 12.4 23.5 3.5 3.5 15.9 19.8	986,930 111,300 1,616,395 510,788 690,479 2,719,614 1,44,474 1,044,819 105,663 570,001	430,301 62,375 541,273 261,523 261,523 339,025 1,236,240 40,453 444,048	43.6 56.0 33.5	43
	akota ^e 173 0.2 $111,127$ 99.8 akota ^e $4,957$ 0.3 $1,275,614$ 78.9 3 a $235,452$ 46.1 $186,553$ 36.5 3 a $225,285$ 32.6 $341,716$ 49.5 1 and $225,285$ 32.6 $341,716$ 49.5 1 and $68,843$ 47.7 $57,712$ 39.9 3 and $68,843$ 47.7 $57,712$ 39.9 39.9 and $68,843$ 47.7 $57,712$ 39.9 39.9 and $68,843$ 47.7 $57,712$ 39.9 39.9 akota $102,006$ 96.5 $74,776$ 7.2 22 $227,049$ 84.1 $404,427$ 30.2 22 e $479,493$ 84.1 $404,427$ 30.2 $227,049$ 32.0 $227,049$ 32.0 $2227,049$ 32.0 $2227,049$ 32.0 $2227,049$ 32.0 $22227,049$ 32.0 $205,010.$	20.8 17.4 17.9 23.1 12.4 23.5 3.5 3.5 15.9 19.8	111,300 1,616,395 510,788 690,479 690,479 2,719,614 1,44,474 1,044,819 105,663 570,001	62,375 541,273 261,523 339,025 1,236,240 40,453 444 048	56.0 33.5	
4.957 0.3 1,275,614 78.9 335,824 20.8 1,616,395 541,273 335 335 a 235,452 46.1 186,553 36.5 88,783 17.4 510,788 261,523 51.2 min 1,980,393 72.8 112,106 4.1 627,115 23.1 6.90,479 339,025 49.1 mind 1,980,393 72.8 112,106 4.1 6.27,115 23.1 2.719,614 1.236,240 45.5 and 68,843 47.7 57.712 39.9 17.919 12.4 144,474 40,453 28.0 otolinaf 724,351 69.3 74,70 72.3 105,663 45.5 28.0 otolinaf 724,351 69.3 74,74 40,453 66.9 66.9 stolinaf 724,351 69.3 70,689 70,689 66.9 66.9 stolinaf 724,311 10.2,006 88.4 74,474 744,0188 776,49 772,411 </td <td>4,957 0.3 $1,275,614$ 78.9 3 a $235,452$ 46.1 $186,553$ 36.5 3 a $225,285$ 32.6 $341,716$ 49.5 1 a $225,285$ 32.6 $341,716$ 49.5 1 a $1,980,393$ 72.8 $112,106$ 4.1 6 a $1,980,393$ 72.8 $112,106$ 4.1 6 a $1,980,393$ 72.8 $112,106$ 4.1 6 a $102,006$ 96.5 $74,776$ 7.2 2 2 a $102,006$ 96.5 $74,776$ 7.2 2 2 a $479,493$ 84.1 $404,427$ 30.2 2 2</td> <td>20.8 17.4 17.9 23.1 12.4 23.5 3.5 3.5 15.9 19.8</td> <td>1,616,395 510,788 690,479 2,719,614 1,44,474 1,044,819 105,663 570,001</td> <td>541,273 261,523 339,025 1,236,240 40,453 444.048</td> <td>33.5</td> <td>22</td>	4,957 0.3 $1,275,614$ 78.9 3 a $235,452$ 46.1 $186,553$ 36.5 3 a $225,285$ 32.6 $341,716$ 49.5 1 a $225,285$ 32.6 $341,716$ 49.5 1 a $1,980,393$ 72.8 $112,106$ 4.1 6 a $1,980,393$ 72.8 $112,106$ 4.1 6 a $1,980,393$ 72.8 $112,106$ 4.1 6 a $102,006$ 96.5 $74,776$ 7.2 2 2 a $102,006$ 96.5 $74,776$ 7.2 2 2 a $479,493$ 84.1 $404,427$ 30.2 2	20.8 17.4 17.9 23.1 12.4 23.5 3.5 3.5 15.9 19.8	1,616,395 510,788 690,479 2,719,614 1,44,474 1,044,819 105,663 570,001	541,273 261,523 339,025 1,236,240 40,453 444.048	33.5	22
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	121,066 88.4 597,303 78.0 0.2 7.060107	17.0	273,646	186,353	68.1	4
	597,303 78.0 2020 0.3 78.0	11.6	136,883	65,293	47.7	35
		22.0	765,545	440,188	57.5	19
h 153,853 42.3 141,496 38.9 68,241 18.8 363,590 169,797 46.7 46.7 939,127 89.1 115,230 10.9 1,054,357 822,912 78.0 46.7 168,555 100.0 115,230 10.9 1,054,357 822,912 78.0 46.1 168,555 100.0 115,230 10.9 1,054,357 822,912 78.0 46.1 168,555 100.0 \$115,230 10.9 103,262 61.3 78.0 46.1 \$32,611,162 58.651,511 15.3 \$14,533,294 26.1 \$55,659,567 \$26,803,486 48.2 40.0 \$32,651,109 \$55,659,567 \$26,803,486 48.2 58.3 40.0 \$32,651,109 \$55,659,567 \$26,803,486 48.2 58.3 40.0 \$32,651,109 \$55,659,567 \$56,803,486 \$4.2 58.3 40.0 \$32,651,109 \$56,659,567 \$56,659,567 \$57,728,223 47.1	0,/ 22 0.0 2,/07,174 /0.0	21.1	2,621,657	716,458	27.3	51
939,127 89.1 115,230 10.9 1,054,357 822,912 78.0 deral 168,555 100.0 168,555 103,262 61.3 61.3 deral \$32,611,162 58.6 \$8,515,111 15.3 \$14,533,294 26.1 \$55,659,567 \$26,803,486 48.2 oveesi \$32,611,162 58.6 \$8,515,111 15.3 \$14,533,294 26.1 \$55,659,567 \$26,803,486 48.2 oveesi \$32,65,109 \$55,659,567 \$54,737 28.3 28.3 oveesi \$1,11 15.3 \$14,533,294 26.1 \$55,659,567 \$26,737 28.3 oveesi \$1,11 15.3 \$14,533,294 26.1 \$55,659,567 \$26,737 28.3 oveesi \$1,11 15.3 \$14,533,294 26.1 \$55,659,567 \$26,737 28.3 oveesi \$1,11 15.3 \$14,533,294 \$14,636 \$57,228,223 47.1	153,853 42.3 141,496 38.9	18.8	363,590	169,797	46.7	38
lend 168,555 100.0 168,555 103,262 61.3 61.3 cleral \$32,611,162 58.6 \$8,515,111 15.3 \$14,533,294 26.1 \$55,659,567 \$26,803,486 48.2 clorad \$32,611,162 58.6 \$8,515,111 15.3 \$14,533,294 26.1 \$55,659,567 \$26,803,486 48.2 lovesi \$32,65,109 \$59,24,737 \$28.3 28.3 28.3 lovesi \$1,818,785 \$1,818,785 \$779,234 42.8 lovesi \$58,924,676 \$27,728,223 47.1	939,127 89.1	10.9	1,054,357	822,912	78.0	1
nn-Federal \$32,611,162 58.6 \$8,515,111 15.3 \$14,533,294 26.1 \$55,659,567 \$26,803,486 14,533,294 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 14,534,534 1	168,555		168,555	103,262	61.3	15
rali \$3,265,109 \$924,737 Employeesi \$1,818,785 \$779,234 Employeesi \$1,818,785 \$779,234	\$32,611,162 58.6 \$8,515,111 15.3	26.1	\$55,659,567	\$26,803,486	48.2	
Employeesi \$1,818,785 \$779,234 \$58,924,676 \$27,728,223	erali		\$3,265,109	\$924,737	28.3	
\$58,924,676 \$27,728,223	Employees		\$1,818,785	\$779,234	42.8	
			\$58,924,676	\$27,728,223	47.1	

States with exclusive state funds (Ohio, North Dakota, Washington, and Wyoming) may have some amounts of benefits paid in the private insured category, because: (1) some employers ۍ

doing business in these states may need to obtain coverage from private carriers under the US Longshore and Harbor Workers' Act; (2) some employers carry liability coverage which the state fund is not authorized to provide; and/or (3) some employers obtain excess compensation coverage from private carriers. South Carolina's State Accident Fund is not a competitive state fund. ல் ப

Utah Senate Bill 92, passed in 2017, repealed the statute creating the Workers' Compensation Fund (Utah's public state fund). The former-lead company of WCF is now known as WCF Mutual Insurance Company, and is a for-profit mutual insurance company. Though this did not become effective until January 1, 2018, AM Best data on Utah classified all 2017 Utah

premiums and losses under private insurance. WCF Mutual Insurance Company will remain the insurer of last resort in Utah until 2020. West Virginia completed the transition from monopolistic state fund to competitive insurance status on July 1, 2008.

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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 B for more information about federal programs.

Included in the Federal benefits total.

Source: National Academy of Social Insurance estimates are based on data received from state agencies, the U.S. Department of Labor, A.M. Best, and the National Council on Compensation Insurance. AM Best reported a negative number for Washington private carriers in 2020. We have left the column empty while we investigate the matter.

Table 9

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		Total]	Total Benefits (thousands)	nds)			Percent	Percent Change		Ranking
State	2016	2017	2018	2019	2020	2016-2018	2018-2020	2018-2020 2019-2020	2016-2020	(1=largest percent increase, 2016-2020)
Alabama	\$544,527	\$547,262	\$573,080	\$601,301	\$481,069	5.2	-16.1	-20.0	-11.7	35
Alaska	225,596	213,187	207,418	209,761	190,085	-8.1	-8.4	-9.4	-15.7	44
Arizona	752,605	745,626	748,630	757,240	681,648	-0.5	-8.9	-10.0	-9.4	31
Arkansas	207,016	215,191	201,900	208,083	178,890	-2.5	-11.4	-14.0	-13.6	39
California	12,171,519	12,208,537	12,325,000	12,420,595	11,864,608	1.3	-3.7	-4.5	-2.5	19
Colorado	800,569	813,093	776,053	833,137	787,007	-3.1	1.4	-5.5	-1.7	14
Connecticut	894,683	911,367	871,391	889,856	822,689	-2.6	-5.6	-7.5	-8.0	29
Delaware	224,704	220,856	211,309	193,229	191,528	-6.0	-9.4	6.0-	-14.8	41
District of Columbia	108,469	115,098	114,592	124,609	104,610	5.6	-8.7	-16.0	-3.6	22
Florida	3,652,790	3,795,286	3,716,512	3,712,157	3,446,293	1.7	-7.3	-7.2	-5.7	25
Georgia	1,364,084	1,368,182	1,440,979	1,418,390	1,327,371	5.6	-7.9	-6.4	-2.7	20
Hawaii	306,058	325,104	358,433	382,454	362,770	17.1	1.2	-5.1	18.5	1
Idaho	267,993	283,389	290,909	318,456	291,312	8.6	0.1	-8.5	8.7	5
Illinois	2,345,532	2,315,004	2,267,936	2,191,320	1,939,533	-3.3	-14.5	-11.5	-17.3	47
Indiana	577,333	596,096	578,219	605,579	579,939	0.2	0.3	-4.2	0.5	11
Iowa	659,981	649,010	662,697	622,620	569,276	0.4	-14.1	-8.6	-13.7	40
Kansas	422,801	421,453	408,751	430,606	390,800	-3.3	-4.4	-9.2	-7.6	28
Kentucky	637,169	607,531	637,672	600,963	556,503	0.1	-12.7	-7.4	-12.7	36
Louisiana	907,028	904,110	930,778	887,850	772,942	2.6	-17.0	-12.9	-14.8	42
Maine	254,880	270,739	273,092	262,513	236,176	7.1	-13.5	-10.0	-7.3	27
Maryland	969,821	828,132	947,441	922,084	811,375	-2.3	-14.4	-12.0	-16.3	45
Massachusetts	1,155,304	1,183,404	1,232,063	1,265,872	1,189,523	6.6	-3.5	-6.0	3.0	8
Michigan	955,311	918,169	910,169	899,152	793,823	-4.7	-12.8	-11.7	-16.9	46
Minnesota	1,031,255	1,017,459	1,053,994	1,065,968	1,038,109	2.2	-1.5	-2.6	0.7	10
Mississippi	305,690	318,053	303,692	305,159	298,549	-0.7	-1.7	-2.2	-2.3	17
Missouri	930,010	960,568	970,187	987,721	988,630	4.3	1.9	0.1	6.3	7
Montana	261,121	253,786	237,509	229,874	233,926	-9.0	-1.5	1.8	-10.4	33
Nebraska	311,868	310,172	321,274	322,977	307,901	3.0	-4.2	-4.7	-1.3	13

Nevada	357.854	355.609	394.208	403.631	392.621	10.2	-0.4	-2.7	9.7	4
New Hampshire	205,703	209,919	209,872	207,719	201,706	2.0	-3.9	-2.9	-1.9	15
New Jersey	2,368,065	2,392,623	2,437,858	2,473,114	2,239,633	2.9	-8.1	-9.4	-5.4	24
New Mexico	308,728	296,730	300,078	318,833	286,134	-2.8	-4.6	-10.3	-7.3	26
New York	6,009,913	6,183,619	6,312,691	6,216,441	5,879,351	5.0	-6.9	-5.4	-2.2	16
North Carolina	1,194,288	1,112,017	1,086,876	1,111,921	986,930	-9.0	-9.2	-11.2	-17.4	48
North Dakota	165,943	157,209	149,259	142,662	111,300	-10.1	-25.4	-22.0	-32.9	51
Ohio	2,014,964	1,881,596	1,861,136	1,829,972	1,616,395	-7.6	-13.2	-11.7	-19.8	50
Oklahoma	604,520	591,083	549,650	509,244	510,788	-9.1	-7.1	0.3	-15.5	43
Oregon	627,954	679,283	666,743	698,619	690,479	6.2	3.6	-1.2	10.0	œ
Pennsylvania	3,124,120	2,818,291	2,903,384	2,892,409	2,719,614	-7.1	-6.3	-6.0	-12.9	37
Rhode Island	149,470	148,366	147,008	156,045	144,474	-1.6	-1.7	-7.4	-3.3	21
South Carolina	910,292	717,397	978,515	978,785	1,044,819	7.5	6.8	6.7	14.8	2
South Dakota	104,578	98,036	107,078	116,995	105,663	2.4	-1.3	-9.7	1.0	6
Tennessee	639,650	627,404	598,524	610,598	570,001	-6.4	-4.8	-6.6	-10.9	34
Texas	1,474,421	1,423,828	1,538,543	1,518,459	1,340,946	4.3	-12.8	-11.7	-9.1	30
Utah	274,036	273,784	283,733	296,879	273,646	3.5	-3.6	-7.8	-0.1	12
Vermont	140,400	144,041	139,110	144,065	136,883	-0.9	-1.6	-5.0	-2.5	18
Virginia	953,241	976,997	948,959	931,010	765,545	-0.4	-19.3	-17.8	-19.7	49
Washington	2,437,100	2,464,769	2,537,809	2,616,283	2,621,657	4.1	3.3	0.2	7.6	6
West Virginia	419,863	405,431	423,169	396,957	363,590	0.8	-14.1	-8.4	-13.4	38
Wisconsin	1,169,240	1,167,630	1,210,484	1,222,573	1,054,357	3.5	-12.9	-13.8	-9.8	32
Wyoming	175,053	176,433	165,009	179,709	168,411	-5.7	2.1	-6.3	-3.8	23
Total Non-Federal	\$59,075,112	\$58,620,081	\$59,521,453	\$59,642,554	\$55,659,423	0.8	-6.5	-6.7	-5.8	
All Federal ^a	\$3,603,265	\$3,483,448	\$3,454,588	\$3,374,778	\$3,265,109	-4.1	-5.5	-3.2	-9.4	
Federal Employees ^b	\$2,890,670	\$2,780,499	\$2,756,361	\$2,678,006	\$2,598,019	-4.6	-5.7	-3.0	-10.1	
TOTAL	\$62,678,377	\$62,103,529	\$62,976,040	\$63,017,332	\$58,924,532	0.5	-6.4	-6.5	-6.0	
Notes: Benefits are calendar-year payments to injured workers and to providers of their medical care. Data sources for each state are described in detail in <i>Sources and Methods 2022</i> available at www.nasi.org.	dar-year payments îts as described in '	to injured workers Table 8	s and to providers o	of their medical ca	.re. Data sources for	each state are d	escribed in det	ail in <i>Sources i</i>	and Methods 202.	2 available at
a includes reactial benefits as described in Table 0. $\mathbf{F} = \mathbf{T} = \frac{1}{2} \cdot \frac{1}{$	115 as uccurrent	Idult o.								

Source: National Academy of Social Insurance estimates based on data from state agencies, A.M. Best, National Association of Insurance Commissioners, the U.S. Department of Labor, and the Social Security Administration. b Included in the federal benefits total.

jurisdictions. In the remaining four jurisdictions, increases ranged from 0.5 percentage points in Mississippi to 2.5 percentage points in Maine. Note that the share of medical benefits in a state can be high either because medical benefits are relatively high or because cash benefits are relatively low.

State Trends in Benefits Paid

Table 9 shows total workers' compensation benefits paid in each state in the years 2016 to 2020. In the year affected by the pandemic (2019-2020) benefits paid decreased in all but five jurisdictions. These decreases exceeded ten percent in 15 jurisdictions and reached as high as 22.0 percent in North Dakota and 20.0 percent in Alabama. Over the entire study period, benefits decreased in 40 jurisdictions, compared to 21 jurisdictions which experienced decreases from 2015 to 2019. North Dakota experienced the largest decrease in benefits between 2016 and 2020 (32.9%), followed by Ohio (19.8%), Virginia (19.7%), and North Carolina (17.4%). In total, 19 jurisdictions experienced decreases of at least 10 percent over the study period, compared to seven jurisdictions in last year's report.

Despite the pandemic, benefits increased in five states in 2020 relative to 2019, and in 11 states over the study period. The largest increases between 2016 and 2020 were in Hawaii (18.5%), South Carolina (14.8%), Oregon (10.0%), Nevada (9.7%), and Idaho (8.7%). South Carolina stands out from this group because benefits increased by 6.7 percent between 2019 and 2020, the largest increase of any state in the pandemic year. In the other four states benefits paid increased over the study period, despite a decrease from 2019 to 2020.

The within-state amounts of workers' compensation benefits paid vary from year to year for a number of reasons. Benefits change as within-state employment and wages change, although much of the impact occurs with a lag. Benefits are also affected by changes to a state's legal system for processing claims, such as changes in statutory rules, legal decisions, administrative processes, reporting requirements, and lags in recording results. Other factors that may explain within-state changes in benefits over time include: changes in the number of work-related injuries and illnesses, fluctuations in wage rates, changes in the mix of occupations/industries, changes in the costs and effectiveness of medical care (including changes to the medical fee schedule), changes to the indemnity benefit schedule, differences in the way stakeholders interact with the system over time (e.g., whether or not employees and/or employers have and exercise the right to choose a physician), changes in return-to-work and vocational rehabilitation efforts, and changes to coverage requirements (e.g., exclusions for small employers or agricultural employers).

Benefits Per \$100 of Covered Wages*

Much of the variation in benefit payments described above can be attributed to different changes in employment and wages across states. To control for changes, we construct a standardized measure of benefits, that is, benefits per \$100 of covered wages. Variations in the standardized measure of benefits capture interstate differences in the other factors described above (i.e., type and nature of injuries, quality of medical care, value of cash benefits, and investments in return-to-work).

We caution the reader that, because we cannot account for the factors described above, the data on standardized benefits (benefits paid per \$100 of covered wages) do not provide meaningful comparisons of the performance of state workers' compensation systems. For example, standardized benefits do not indicate the extent to which cash benefits compensate workers for their losses due to injury (i.e., benefit adequacy). Moreover, standardized benefits could be high or low in a given state for a number of reasons completely unrelated to the adequacy of benefits that injured workers receive.⁵² For example, if a

^{*} See the Word of Caution for 2020 Standardized Metrics on page ii regarding the standardized cost and benefit metrics in 2020.

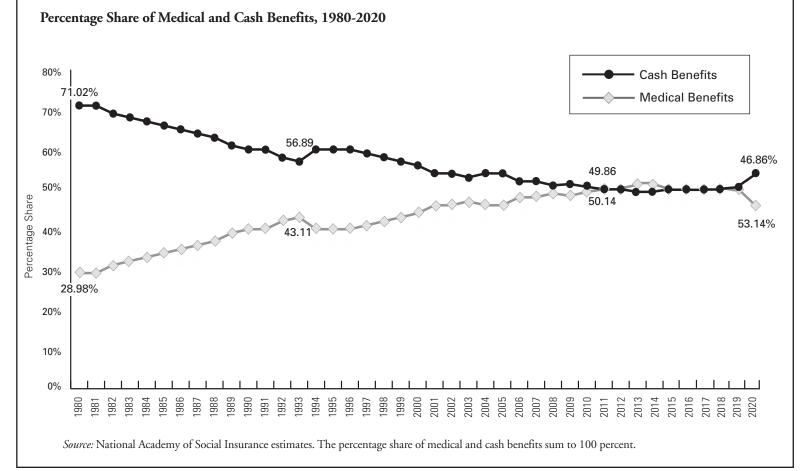
⁵² To provide meaningful comparisons of benefit adequacy, a study should, at the very least, compare the benefits that injured workers actually receive to the wages they lose because of their occupational injuries or diseases. Such wage-loss studies have been conducted in several states (e.g., California, New Mexico, Oregon, Wisconsin, and Michigan), but the data for estimating wage losses are not available for most states. (See, e.g., a May 2019 report on New York's Workers' Compensation system describing challenges to producing such a study for that state. Parrott and Martin 2019.) For benefit adequacy studies, see Hunt and Dillender (2017), Dworsky et al. (2016), Seabury et al. (2014), Boden et al. (2005), and Hunt (2004).

state has a disproportionate share of risky occupations (e.g., mining), and all else is held equal, standardized benefits will tend to be higher. If a state has high prices for medical care relative to the average wage rate, all else equal, standardized benefits will tend to be higher.

Table 10 shows trends in *medical benefits per \$100 of covered wages* in each state between 2016 and 2020. Nationally, medical benefits decreased by 24.8 percent over this five-year period compared to 16.8 percent from 2015-2019. Medical benefits per \$100 of covered wages decreased in every jurisdiction but Hawaii, with the largest percent decreases in Ohio (39.6%), Virginia (38.8%), and Delaware (37.2%). The largest declines in standardized medical benefits between 2019 and 2020 took place in Virginia (25.7%), Rhode Island (25.2%), and Ohio (23.3%). The only state that experienced an increase in standardized medical benefits over the study period is Hawaii (18.2%), while Oklahoma is the only state that did not experience a decrease from 2019-2020.

Table 11 shows trends in cash benefits per \$100 of covered wages in each state between 2016 and 2020. Nationally, cash benefits decreased by 14.4 percent over the five years covered in the report, exceeding the 14.0 percent decrease from 2015-2019. Fortyseven jurisdictions experienced decreases in standardized cash benefits over the study period, ranging from as large as 40.2 percent in North Dakota and 28.8 percent in Iowa, to as little as 0.9 percent in Nebraska and 1.6 percent in Oregon. However, only 33 jurisdictions experienced decreases in standardized cash benefits between 2019 and 2020, with the largest decreases in Alabama (25.9%) and Maine (17.2%). Four states experienced an increase in standardized cash benefits over the study period, and 18 states experienced an increase between 2019 and 2020. In terms of magnitude, the former group is led by Hawaii (12.2%), Nevada (11.6%), and Wyoming (6.1%), and the latter is led by South Carolina (13.9%), West Virginia (11.8%), and Alaska (10.4%).

Figure 3



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Norkers' Compensation Medical Benefits Paid per \$100 of Covered Wages and Five-Year Percent Change by State, 2016-2020	in Medical B	enefits Paid p	er \$100 of Co	wered Wages a	nd Five-Year	Percent Cha	inge by Stat	e, 2016-20	20	
		Medical Benefi	Medical Benefits (per \$100 covered wages)	rered wages)			Percent Change	nge		Ranking
State	2016	2017	2018	2019	2020	2016-2018	2018-2020	2019-2020	2016-2020	(1=largest percent increase, 2016-2020)
Alabama	\$0.49	\$0.46	\$0.49	\$0.47	\$0.37	0.8	-24.0	-20.1	-23.4	30
Alaska	0.91	0.87	0.85	0.85	0.71	-6.6	-15.9	-15.5	-21.5	23
Arizona	0.40	0.38	0.37	0.34	0.28	-9.4	-24.4	-18.3	-31.5	45
Arkansas	0.28	0.29	0.26	0.26	0.21	-9.0	-18.5	-20.4	-25.9	38
California	0.65	0.59	0.57	0.53	0.46	-12.7	-18.5	-12.3	-28.9	44
Colorado	0.33	0.32	0.29	0.29	0.26	-12.0	-10.7	-11.3	-21.4	22
Connecticut	0.36	0.37	0.34	0.35	0.31	-5.7	-9.5	-11.7	-14.7	8
Delaware	0.53	0.46	0.44	0.38	0.33	-17.7	-23.7	-12.3	-37.2	49
District of Columbia	0.08	0.10	0.07	0.07	0.05	-12.2	-25.8	-22.2	-34.9	46
Florida	0.67	0.66	0.61	0.57	0.49	-10.0	-19.1	-14.3	-27.2	41
Georgia	0.35	0.33	0.32	0.30	0.27	-8.8	-16.5	-10.1	-23.8	32
Hawaii	0.49	0.52	0.56	0.59	0.58	13.5	4.2	-2.1	18.2	-
Idaho	0.65	0.64	0.59	0.64	0.51	-8.2	-14.4	-20.0	-21.4	21
Illinois	0.32	0.30	0.30	0.29	0.24	-7.8	-19.7	-16.8	-26.0	39
Indiana	0.31	0.31	0.29	0.30	0.27	-6.8	-7.2	-9.4	-13.5	7
Iowa	0.52	0.50	0.52	0.50	0.43	-0.7	-16.7	-13.8	-17.3	10
Kansas	0.46	0.45	0.43	0.43	0.38	-6.4	-13.1	-13.0	-18.7	14
Kentucky	0.43	0.40	0.40	0.39	0.33	-7.3	-17.9	-15.2	-23.9	33
Louisiana	09.0	0.59	0.59	0.54	0.48	-0.7	-19.5	-11.2	-20.1	16
Maine	0.50	0.54	0.51	0.47	0.43	1.4	-14.4	-8.5	-13.2	6
Maryland	0.33	0.28	0.31	0.28	0.25	-6.4	-18.3	-12.0	-23.5	31
Massachusetts	0.17	0.16	0.16	0.16	0.13	-6.0	-17.4	-16.8	-22.3	27
Michigan	0.22	0.20	0.20	0.20	0.17	-10.1	-12.4	-11.0	-21.2	20
Minnesota	0.37	0.35	0.35	0.34	0.31	-5.9	-12.9	-8.8	-18.1	12

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Mississippi

Missouri

Nevada	0.32	0.30	0.28	0.27	0.25	-12.9	-10.0	-6.2	-21.6	24
New Hampshire	0.40	0.39	0.39	0.35	0.31	-3.6	-19.4	-9.6	-22.3	28
New Jersey	0.49	0.47	0.46	0.45	0.39	-6.4	-15.2	-14.2	-20.6	18
New Mexico	0.56	0.54	0.54	0.54	0.46	-4.4	-14.5	-13.9	-18.3	13
New York	0.33	0.32	0.30	0.28	0.26	-8.6	-14.3	-7.1	-21.7	25
North Carolina	0.29	0.26	0.23	0.23	0.19	-21.2	-18.6	-19.2	-35.9	48
North Dakota	0.46	0.43	0.40	0.37	0.30	-12.8	-26.0	-21.0	-35.4	47
Ohio	0.32	0.27	0.27	0.25	0.19	-15.7	-28.3	-23.3	-39.6	51
Oklahoma	0.46	0.47	0.40	0.36	0.36	-12.5	6.6-	0.0	-21.1	19
Oregon	0.37	0.39	0.36	0.36	0.31	-2.7	-13.5	-12.7	-15.8	6
Pennsylvania	0.50	0.44	0.44	0.41	0.37	-12.5	-14.8	-9.9	-25.5	36
Rhode Island	0.21	0.20	0.19	0.21	0.16	-10.5	-16.6	-25.2	-25.3	35
South Carolina	0.51	0.37	0.50	0.49	0.47	-1.7	-6.7	-5.1	-8.3	4
South Dakota	0.41	0.37	0.40	0.43	0.36	-0.3	-10.1	-15.4	-10.4	5
Tennessee	0.33	0.30	0.28	0.27	0.24	-14.1	-12.8	-9.9	-25.1	34
Texas	0.17	0.15	0.16	0.14	0.12	-5.9	-22.0	-15.4	-26.6	40
Utah	0.32	0.30	0.28	0.28	0.23	-9.6	-17.7	-17.3	-25.6	37
Vermont	0.54	0.55	0.51	0.52	0.45	-5.1	-12.8	-13.6	-17.3	11
Virginia	0.32	0.32	0.30	0.27	0.20	-9.1	-32.7	-25.7	-38.8	50
Washington	0.41	0.38	0.36	0.34	0.29	-13.0	-18.2	-14.7	-28.8	43
West Virginia	0.75	0.71	0.69	0.72	0.58	-7.5	-16.4	-19.5	-22.7	29
Wisconsin	0.72	0.69	0.70	0.68	0.57	-2.1	-18.5	-15.6	-20.3	17
Wyoming	1.22	1.18	1.02	1.05	0.98	-16.3	-4.1	-7.0	-19.7	15
Total Non-Federal	\$0.42	\$0.40	\$0.38	\$0.36	\$0.32	-9.1	-16.9	-12.8	-24.4	
Federal Employees ^a	\$0.48	\$0.46	0.40	\$0.39	\$0.34	-15.6	-16.0	-12.8	-29.1	
TOTAL ^b	\$0.42	\$0.40	\$0.38	\$0.37	\$0.32	-9.3	-17.0	-12.8	-24.8	
Notes: Benefits are payments in the calendar year to injured workers and to provi www.nasi.org. 2. Includes Federal Employee Commensation Act medical henefits from Table R1	s in the calendar y	rear to injured wo Act medical hene	orkers and to prov	iders of their medi 1	ical care. Data so	urce for each sta	te is described	in detail in <i>Sot</i>	wrces and Method	to providers of their medical care. Data source for each state is described in detail in <i>Sources and Methods 2022</i> available at Table R1
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Table 11 Workers' Compensation Cash Benefits per \$100 of Covered Wages and Five-Year Percent Change by State, 2016-2020	Cash Benefit	s per \$100 of	Covered Wage	es and Five-Y	ear Percent (Jhange by Sta	te, 2016-20	20		
		Cash Benefits (per		\$100 covered wages)			Percent Change	Change		Ranking
State	2016	2017	2018	2019	2020	2016-2018	2018-2020	2019-2020	2016-2020	 (1=largest percent increase, 2016-2020
Alabama	\$0.21	\$0.21	\$0.18	\$0.21	\$0.15	-12.5	-15.3	-25.9	-25.9	44
Alaska	0.47	0.45	0.40	0.36	0.40	-16.2	0.6	10.4	-15.7	24
Arizona	0.19	0.18	0.16	0.16	0.15	-17.0	-7.2	-6.5	-23.0	41
Arkansas	0.16	0.15	0.14	0.13	0.12	-9.8	-15.7	-9.2	-23.9	42
California	0.53	0.52	0.49	0.48	0.47	-7.6	-4.8	-2.5	-12.0	21
Colorado	0.27	0.24	0.22	0.22	0.21	-17.2	-4.0	-3.0	-20.5	34
Connecticut	0.46	0.46	0.43	0.42	0.40	-5.7	-6.9	-3.8	-12.2	22
Delaware	0.44	0.45	0.41	0.36	0.40	-6.8	-2.9	9.8	-9.5	15
District of Columbia	0.15	0.14	0.15	0.17	0.14	-0.6	-7.8	-15.5	-8.3	14
Florida	0.32	0.32	0.30	0.29	0.29	-6.7	-4.8	0.0	-11.1	19
Georgia	0.32	0.31	0.32	0.30	0.29	1.6	-11.3	-5.7	6.6-	16
Hawaii	0.58	0.57	0.60	0.60	0.65	4.7	7.1	6.9	12.2	1
Idaho	0.37	0.36	0.36	0.35	0.33	-1.3	-8.8	-5.1	6.6-	17
Illinois	0.40	0.38	0.35	0.32	0.30	-12.1	-14.7	-6.5	-25.1	43
Indiana	0.13	0.13	0.11	0.11	0.12	-11.6	4.7	6.4	-7.5	12
Iowa	0.46	0.43	0.41	0.35	0.33	-11.3	-19.7	-5.6	-28.8	50
Kansas	0.26	0.26	0.22	0.23	0.21	-14.3	-3.4	-7.5	-17.3	26
Kentucky	0.37	0.34	0.35	0.29	0.30	-4.3	-14.5	2.1	-18.2	27
Louisiana	0.47	0.46	0.44	0.42	0.38	-6.6	-13.4	-9.8	-19.1	30
Maine	0.54	0.53	0.52	0.47	0.39	-3.7	-25.9	-17.2	-28.7	49
Maryland	0.38	0.30	0.33	0.31	0.27	-11.5	-18.9	-14.4	-28.3	48
Massachusetts	0.33	0.32	0.32	0.31	0.30	-2.3	-6.0	-2.7	-8.2	13
Michigan	0.23	0.21	0.20	0.19	0.17	-13.6	-14.7	-9.4	-26.3	45
Minnesota	0.32	0.30	0.29	0.29	0.30	-7.4	4.4	3.9	-3.4	7
Mississippi	0.33	0.32	0.29	0.28	0.27	-10.2	-9.2	-5.2	-18.5	28
Missouri	0.34	0.34	0.32	0.30	0.32	-6.9	-0.6	4.1	-7.4	11
Montana	0.50	0.45	0.42	0.38	0.40	-16.4	-5.4	3.1	-20.9	36
Nebraska	0.28	0.28	0.27	0.26	0.27	-1.9	1.0	3.1	6.0-	5

Nevada	0.28	0.27	0.31	0.30	0.32	8.6	2.7	5.0	11.6	2
New Hampshire	0.20	0.20	0.18	0.20	0.19	-9.1	5.8	-0.7	-3.9	8
New Jersey	0.48	0.48	0.47	0.46	0.43	-1.3	-8.9	-6.2	-10.1	18
New Mexico	0.42	0.38	0.35	0.35	0.34	-18.0	-2.8	-3.7	-20.3	33
New York	0.65	0.63	0.63	0.60	0.58	-3.2	-8.2	-3.4	-11.2	20
North Carolina	0.33	0.29	0.28	0.26	0.24	-15.6	-14.5	-9.2	-27.9	47
North Dakota	0.39	0.35	0.31	0.27	0.23	-20.1	-25.2	-15.0	-40.2	51
Ohio	0.49	0.46	0.43	0.41	0.38	-13.5	-9.9	-5.7	-22.0	38
Oklahoma	0.47	0.41	0.37	0.33	0.34	-19.9	-8.4	4.1	-26.6	46
Oregon	0.33	0.33	0.30	0.30	0.33	-8.0	7.0	7.6	-1.6	6
Pennsylvania	0.57	0.49	0.48	0.46	0.45	-15.9	-5.9	-2.1	-20.9	35
Rhode Island	0.43	0.42	0.40	0.40	0.40	-5.8	0.0	0.9	-5.9	10
South Carolina	0.62	0.47	0.60	0.55	0.63	-2.0	4.5	13.9	2.4	4
South Dakota	0.23	0.21	0.20	0.21	0.18	-13.1	-10.5	-12.3	-22.2	39
Tennessee	0.17	0.16	0.14	0.14	0.13	-16.4	-7.6	-7.0	-22.8	40
Texas	0.12	0.12	0.12	0.11	0.10	-5.9	-11.2	-8.3	-16.4	25
Utah	0.14	0.13	0.13	0.12	0.11	-9.2	-13.4	-5.6	-21.4	37
Vermont	0.52	0.51	0.47	0.47	0.49	-8.8	3.5	4.7	-5.6	6
Virginia	0.18	0.18	0.17	0.16	0.15	-8.7	-11.6	-10.8	-19.3	31
Washington	0.91	0.86	0.81	0.78	0.78	-10.9	-3.5	0.6	-14.1	23
West Virginia	0.82	0.74	0.71	0.59	0.66	-12.9	-6.8	11.8	-18.9	29
Wisconsin	0.20	0.19	0.18	0.18	0.16	-11.7	-8.8	-10.3	-19.4	32
Wyoming	0.58	0.60	0.57	0.58	0.62	-2.6	9.0	6.3	6.1	3
Total Non-Federal	\$0.40	\$0.38	\$0.37	\$0.35	\$0.34	-7.9	-7.0	-3.1	-14.3	
Federal Employees ^a	\$0.85	\$0.82	\$0.78	\$0.77	\$0.73	-7.7	-7.4	-5.7	-14.5	
TOTAL	\$0.42	\$0.40	\$0.39	\$0.37	\$0.36	-8.0	-7.0	-3.1	-14.4	
Notes: Benefits are payments in the calendar year to injured workers and to providers www.nasi.org. a Includes Federal Employee Compensation Act compensation benefits from Table B1 b Includes federal (cash) benefits as described in Table 8.	the calendar year mpensation Act c as described in T	to injured worker ompensation ben åble 8.	s and to provider efits from Table F	to providers of their medical care. Data source for each state is described in detail in <i>Sources and Methods 2022</i> , available at om Table B1.	care. Data sour	ce for each state i	s described in c	letail in <i>Source</i>	s and Methods 20	22, available at

							Percer	Percent Change		Ranking
State	2016	2017	2018	2019	2020	2016-2018	2018-2020	2019-2020	2016-2020	$\sqrt{1}$ = latgest percent increase, 2016-2020)
Alabama	\$0.69	\$0.67	\$0.67	\$0.67	\$0.53	-3.2	-21.7	-21.9	-24.1	39
Alaska	1.38	1.32	1.25	1.21	1.11	6.6-	-10.6	-7.8	-19.5	25
Arizona	0.60	0.56	0.53	0.50	0.43	-11.9	-19.2	-14.6	-28.8	47
Arkansas	0.44	0.44	0.40	0.40	0.33	-9.3	-17.5	-16.7	-25.2	44
California	1.18	1.11	1.06	1.00	0.93	-10.4	-12.1	-7.6	-21.3	31
Colorado	0.59	0.57	0.51	0.51	0.47	-14.3	-7.8	-7.8	-21.0	29
Connecticut	0.82	0.83	0.78	0.77	0.72	-5.7	-8.1	-7.4	-13.3	13
Delaware	0.97	0.91	0.85	0.74	0.73	-12.7	-13.6	-1.5	-24.6	42
District of Columbia	0.24	0.24	0.23	0.24	0.20	-4.7	-13.7	-17.5	-17.7	21
Florida	0.99	0.98	0.91	0.86	0.78	-8.9	-14.4	-9.5	-22.0	33
Georgia	0.67	0.64	0.64	0.60	0.55	-3.8	-13.9	-7.9	-17.2	19
Hawaii	1.07	1.09	1.16	1.20	1.23	8.7	5.7	2.5	14.9	1
Idaho	1.01	1.00	0.96	0.98	0.84	-5.7	-12.2	-14.7	-17.2	20
Illinois	0.72	0.69	0.65	0.61	0.54	-10.2	-17.0	-11.4	-25.5	45
Indiana	0.44	0.44	0.41	0.41	0.39	-8.2	-3.8	-5.1	-11.7	10
Iowa	0.98	0.94	0.92	0.85	0.76	-5.7	-18.0	-10.4	-22.7	35
Kansas	0.72	0.71	0.66	0.67	0.59	-9.3	-9.8	-11.1	-18.2	22
Kentucky	0.80	0.74	0.75	0.68	0.63	-6.0	-16.3	-7.8	-21.3	32
Louisiana	1.07	1.05	1.04	0.96	0.86	-3.3	-16.9	-10.6	-19.6	26
Maine	1.04	1.06	1.03	0.94	0.82	-1.2	-20.3	-12.8	-21.2	30
Maryland	0.70	0.58	0.64	09.0	0.52	-9.1	-18.6	-13.3	-26.0	46
Massachusetts	0.50	0.48	0.48	0.47	0.43	-3.6	-9.7	-7.4	-12.9	12
Michigan	0.45	0.42	0.40	0.38	0.34	-11.9	-13.6	-10.2	-23.8	37
Minnesota	0.69	0.65	0.64	0.63	0.61	-6.6	-5.1	-2.9	-11.4	7
Mississippi	0.78	0.79	0.73	0.72	0.69	-5.3	-6.1	-3.9	-11.1	9
Missouri	0.79	0.78	0.76	0.75	0.73	-3.7	-3.4	-1.5	-7.0	4

Montana	1.49	1.39	1.25	1.15	1.12	-16.6	-10.2	-2.7	-25.1	43
Nebraska	0.77	0.74	0.74	0.71	0.66	-3.8	-11.1	-8.1	-14.5	14
Nevada	0.61	0.57	0.59	0.57	0.57	-2.8	-3.4	-0.3	-6.1	ŝ
New Hampshire	09.0	0.59	0.57	0.54	0.51	-5.4	-11.3	-6.4	-16.1	18
New Jersey	0.97	0.95	0.93	0.91	0.82	-3.9	-12.0	-10.2	-15.4	17
New Mexico	0.99	0.92	0.89	0.88	0.80	-10.2	-10.0	-9.9	-19.1	24
New York	0.98	0.96	0.93	0.88	0.84	-5.1	-10.2	-4.6	-14.8	16
North Carolina	0.62	0.55	0.51	0.49	0.42	-18.2	-16.3	-13.9	-31.6	49
North Dakota	0.85	0.78	0.71	0.65	0.53	-16.1	-25.6	-18.4	-37.6	51
Ohio	0.81	0.73	0.70	0.66	0.58	-14.4	-17.0	-12.5	-28.9	48
Oklahoma	0.92	0.88	0.77	0.69	0.70	-16.2	-9.2	2.0	-23.9	38
Oregon	0.71	0.72	0.67	0.66	0.64	-5.2	-4.1	-3.4	-9.1	Ś
Pennsylvania	1.07	0.92	0.91	0.87	0.82	-14.3	-10.1	-5.8	-23.0	36
Rhode Island	0.64	0.61	0.59	0.61	0.56	-7.4	-5.3	-8.1	-12.3	11
South Carolina	1.13	0.84	1.10	1.05	1.10	-1.9	-0.6	5.0	-2.4	2
South Dakota	0.64	0.58	0.61	0.64	0.54	-5.0	-10.2	-14.4	-14.7	15
Tennessee	0.50	0.47	0.42	0.41	0.38	-14.9	-11.0	-8.9	-24.3	40
Texas	0.29	0.27	0.27	0.26	0.22	-5.9	-17.4	-12.3	-22.2	34
Utah	0.46	0.43	0.41	0.40	0.34	-9.5	-16.4	-13.9	-24.3	41
Vermont	1.06	1.06	0.99	0.99	0.94	-6.9	-5.0	-4.9	-11.6	6
Virginia	0.51	0.50	0.46	0.43	0.35	-8.9	-25.1	-20.0	-31.8	50
Washington	1.32	1.24	1.17	1.12	1.08	-11.6	-8.0	-4.1	-18.7	23
West Virginia	1.57	1.45	1.41	1.31	1.24	-10.4	-11.5	-5.4	-20.7	28
Wisconsin	0.92	0.89	0.88	0.86	0.73	-4.2	-16.6	-14.5	-20.1	27
Wyoming	1.80	1.78	1.59	1.63	1.60	-11.9	0.5	-2.3	-11.4	8
Total Non-Federal	\$0.82	\$0.78	\$0.75	\$0.72	\$0.66	-8.5	-12.0	-8.0	-19.5	
Federal Employees ^a	\$1.32	\$1.23	\$1.18	\$1.12	\$1.04	-10.7	-11.9	-7.7	-21.4	
TOTAL ^b	\$0.84	\$0.80	\$0.77	\$0.74	\$0.68	-8.7	-12.0	-7.9	-19.6	
a Includes Federal Employee Compensation Act compensation benefits from Table B1. b Includes federal (cash) benefits as described in Table 8.	Compensation Ac fits as described in	t compensation l 1 Table 8.	benefits from Tab	le B1.						

Source National Academy of Social Insurance estimates.

On aggregate, declines in standardized medical benefits have outpaced declines in standardized cash benefits over the study period both in percentage terms and in absolute terms. They declined at similar rates between 2016 and 2019, but factors related to the pandemic—including the treatment of COVID-19 cases as indemnity-only by many states and the delay of medical care for elective procedures—led to a sharper decline in medical benefits and a less sharp decline of indemnity benefits in 2020. Figure 3 shows the downward trend that has taken place in both forms of benefits relative to wages over the past three decades.

Table 12 shows total benefits paid per \$100 of covered wages by state from 2016 through 2020. Nationally, benefits paid were \$0.68 per \$100 of covered wages in 2020, down \$0.16, or 19.6 percent, from 2016. Between 2016 and 2020, benefits per \$100 of covered wages decreased in all jurisdictions except Hawaii, where standardized benefits increased by \$0.16, or 14.9 percent. Thirty-five jurisdictions experienced decreases in standardized benefits of at least 15 percent compared to 25 in last year's report, and nine states experienced a decrease of 25 percent or more, two more than in last year's report.

The largest percent decreases in standardized benefits over the study period were in North Dakota (37.6%), Virginia (31.8%), and North Carolina (31.6%). Between 2019 and 2020, the largest decreases took place in Alabama (21.9%), Virginia (20.0%), and North Dakota (18.4%). The only increases took place in South Carolina (5.0%), Hawaii (2.5%), and Oklahoma (2.0%). In any given year, a state may experience a relatively large increase or decrease in standardized benefits that defies recent trends. Such large changes often are attributable, in part, to changes in the state's worker's compensation laws. This was especially true in 2020, as states scrambled to respond quickly to the new conditions brought about by the COVID-19 pandemic. Some recent legislative changes that are related to both shorter- and longer-term trends are described below.

Legislation and Ruleds Corresponding to Changes in Benefits

Over the past few years, there has been considerable legislative activity in the states related to COVID-19 and workers' compensation, specifically regarding the compensability of COVID-19 as an occupational illness. The most prevalent strategy was to develop a presumption of compensability for certain classes of workers, generally frontline or "essential" workers.⁵³ By the end of 2020, nine states had established a COVID-19 presumption through legislation, and an additional seven states established presumptions through regulatory activity.⁵⁴ There was wide variance in the scope, duration, and refutability of the presumption across states.⁵⁵

None of the states with presumptions stand out in terms of large changes in standardized benefits between 2019 and 2020. Data for 2021 and future years will provide more clarity as to the correlation between presumptions, coverage, and benefits. Several states that did not adopt new presumptions, in contrast, saw marked changes in trends. For example, standardized benefits in Alabama were stable between 2016 and 2019, and then fell by 21.9 percent in 2020. In this case, the likely driver is the strict burden of proof the state requires for employ-

⁵³ States developed various definitions that classified workers in jobs that provided critical services to the public. These most often included healthcare providers, public safety officers, first responders, grocery, retail, transportation, residential care providers, and other employees directly serving the public.

⁵⁴ The former group includes Alaska, California, Illinois, Minnesota, New Jersey, Utah, Vermont, Wisconsin, and Wyoming. The latter group includes Connecticut, Florida, Kentucky, Michigan, Missouri, New Hampshire, and New Mexico (Kersey, 2020).

⁵⁵ The Supreme Court made a ruling relevant to presumptions in *National Federation of Independent Business v. Department of Labor, Occupational Safety and Health Administration* 595 U.S. (2022). The Court ruled that OSHA exceeded its authority by mandating that employers with at least 100 employees require their workers to receive a COVID-19 vaccine or else wear a mask and be subject to weekly testing. On whether COVID-19 was/is an occupational hazard, the majority opinion noted that "Although COVID-19 is a risk that occurs in many workplaces, it is not an occupational hazard in most. COVID-19 can and does spread at home, in schools, during sporting events, and everywhere else that people gather. That kind of universal risk is no different from the day-to-day dangers that all face from crime, air pollution, or any number of communicable diseases." Significantly, the Court added "That is not to say OSHA lacks authority to regulate occupation-specific risks related to COVID-19. Where the virus poses a special danger because of the particular features of an employee's job or workplace, targeted regulations are plainly permissible." Moving forward, the case may be cited by business groups in opposition to states that continue to seek any broadly defined presumptions for an infectious disease.

ees to receive workers' compensation benefits for occupational diseases.⁵⁶ In addition, indemnity benefits were not paid for periods of quarantine in Alabama as they were in many other states.⁵⁷

North Dakota experienced the largest decrease in standardized benefits of any state over the study period, and the third largest decrease between 2019 and 2020. North Dakota Workforce Safety & Insurance, the state workers' compensation agency, established that COVID-19 cases in 2020 were not eligible for workers' compensation benefits.⁵⁸ However, benefits have steadily declined in North Dakota since 2013, likely in relation to legislative changes that affected both medical and indemnity benefits.⁵⁹

In recent reports, we have noted that changes to Hawaii's fee schedule enacted in 2013 and 2018 increased reimbursements for medical services, potentially driving increases in medical benefits in the state (NCLS, 2013 and Hawaii Disability Compensation Division, 2018). Between 2019 and 2020, however, Hawaii experienced a decline in standardized medical benefits of 2.1 percent, while its standardized cash benefits rose by 6.9 percent. This is likely related to the compensability of COVID-19 claims, which most often resulted in wage-replacement benefits with little or no medical benefits. Still, the fee schedule changes are likely the largest driver of standardized benefit changes in Hawaii, as standardized medical benefits rose by \$0.09 per \$100 of covered wages over the study period compared to \$0.07 growth in cash benefits per \$100.

Cash Benefits by Type of Claim

The National Council on Compensation Insurance (NCCI) provides data on the relative incidence (or frequency) of each type of disability claim (temporary total, permanent partial, permanent total, fatalities) as a proportion of the total number of cases receiving cash benefits and total benefits incurred (NCCIa, 2022). Data are reported for each state's "policy period," which may or may not correspond to a calendar year. Data are available for the 38 states in which NCCI is licensed. Figures 4a and 4b display the data for 1998 to 2018, the most recent year available.

Figure 4a shows the percentage of disability claims (claims involving cash benefits) attributed to each type. In 2018, temporary total disability (TTD) claims accounted for 64.9 percent of all indemnity claims, while permanent partial disability (PPD) claims accounted for 34.5 percent. Permanent total disability (PTD) and fatality claims are relatively rare, accounting for less than one percent of claims involving cash benefits (approximately 0.6% in every year from 2003 to 2018).

Figure 4b shows the percentage of total benefits attributed to each type of indemnity claim. Consistently, most workers' compensation benefits go to workers with permanent disability claims, of which permanent partial disability claims are the most common.⁶⁰ Only 37.4 percent of benefits incurred were paid to workers with TTD claims (the most common type of indemnity claim) in 2018, while 53.0 percent of benefits incurred were paid to

⁵⁶ Per Timberlake & League, P.C., a law firm operating in Alabama, "If a worker is exposed to COVID-19, it is unlikely he or she will receive workers' compensation benefits in Alabama because the mere possibility of an injury or occupational disease does not require the payment of benefits" (Timberlake & League, P.C., 2022). The matter is summarized well in a presentation by attorney Thomas S. Thorton III, which states "a disease has generally been defined as a serious disorder that has impaired the constitution or left in its wake some organic or chronic effort that has undermined an employee's general health. The Courts have likewise found that the term "disease" excludes temporary disorders that do not leave a chronic effect on the employee's health. That said, COVID-19 could satisfy the definition of disease if an employee dies" (Thorton, 2020). In other words, the often-temporary nature of COVID-19 likely excludes the possibility of workers' compensation benefits outside of cases of "long-COVID" or death.

⁵⁷ A blog by an Alabama workers' compensation attorney outlines the limitations on when an employee in the state may receive workers' compensation benefits during a quarantine period (Fish, 2020).

⁵⁸ Specifically, in response to the question "Are employees who contract COVID-19 eligible for workers' compensation benefits", they respond "No. Diseases to which the general public outside of employment are exposed are specifically excluded from workers' compensation coverage in North Dakota. COVID-19 fits into this exclusion. Even though it may be contended an employee contracted COVID-19 while working, the employee is not eligible for workers' compensation benefits for this type of illness." Certain presumptions were enacted in February 2021, so their effects do not appear in the 2020 data (ND WSI, 2021).

⁵⁹ In April 2013, the North Dakota legislature approved changes to the state's workers' compensation statute that include: disallowing pain as a sole factor to indicate increasing severity of a preexisting injury; increasing restrictions on benefits in cases of out-of-state filing or incarceration; reducing PPD ratings for some amputations; and allowing employers greater latitude in selecting among competing medical opinions (NCSL, 2013).

⁶⁰ The NCCI typically classifies workers' compensation claims into discrete types according to the most severe type of disability benefit

workers with PPD claims (much less common). PTD claims and fatalities tend to be expensive as the length of time for which benefits are paid far exceeds that of temporary claims, so they account for an outsized share of total benefits. In 2018, for example, while PTD and fatality claims represented only 0.6 percent of total indemnity claims, they accounted for 8.9 percent of benefits incurred.

Employer Costs for Workers' Compensation Data Sources for Estimating Employer Costs

This section describes the primary sources of data that we use to estimate employer costs for workers' compensation. The Academy's estimates of employer costs include: premiums and deductibles paid to private insurers and state funds; benefits and administrative costs paid by self-insured employers; and assessments paid to special funds (e.g., secondinjury funds). A detailed, state-by-state explanation of how the cost estimates are produced is provided in *Sources and Methods 2022: A Companion to Workers' Compensation Benefits, Costs, and Coverage, 2020*, available on the Academy's website. The primary sources of cost data are the state surveys, A.M. Best, and NCCI.

The Academy's methods for estimating employer costs vary according to the employer's source of workers' compensation coverage. For employers purchasing insurance from private carriers or state funds, the cost of workers' compensation in any year equals the sum of premiums paid in that year plus reimbursements paid to the insurer under deductible provisions.

For self-insured employers, workers' compensation costs include medical and cash benefits paid during the calendar year, plus the administrative costs of providing those benefits. Administrative costs include the direct costs of managing claims, as well as expenditures for litigation, cost containment (e.g., utilization review, treatment guidelines), taxes, licenses, and fees. Self-insured employers generally do not report the administrative costs of workers' compensation separately from the costs of administering other employee benefit programs, so the costs associated with administering workers' compensation must be estimated. The National Association of Insurance Commissioners reports the ratio of administrative costs to total benefits paid for private insurers who report to them (NAIC, 2022). To estimate administrative costs for self-insured employers, we assume that the ratio of administrative costs to total benefits paid is the same for self-insured employers as it is for the private insurers who report to NAIC.61

For the federal employee workers' compensation program, employer costs are benefits paid plus administrative costs, as reported by the U.S. Department of Labor (DOL, 2022a).

The Academy's estimates of employer costs also include estimates of assessments for special funds, second-injury funds, and guaranty funds. Employer payments to special funds or second-injury funds are estimated from the assessment rates a state applies either to premiums or losses (benefits paid). State assessment rates are provided either by state agencies or by NCCI. Assessments for guaranty funds are paid by insurers, so these costs are included in the premiums paid by employers.

The 2022 report continues to implement last year's improved method for estimating employer assessments. The methodological change, relative to prior years' reports, uses data from the NCCI Tax and Assessment Directory and state agencies to obtain better estimates of assessments paid by employers across the country (NCCI, 2022b).⁶² This improved

received. For example, a permanent partial disability beneficiary has typically received temporary disability benefits until the point of maximum medical improvement, but the entire cost of cash benefits for the claim is ascribed to permanent partial disability.

⁶¹ Private insurers face some cost factors, such as commissions, profit allowances, and taxes on premiums that self-insurers do not face. NAIC estimates of administrative costs are equal to the amount spent on direct defense and cost containment expenses plus taxes, licenses, and fees, divided by direct losses paid (for more detail see *Sources and Methods 2022*). NAIC's estimate of administrative costs is based on the experience of private insurers. Other reports have found higher administrative overhead costs as a percent of total premiums compared to those reported by NAIC (e.g., Neuhauser et al., 2010).

⁶² The average increase in total employer costs in a given year for 2015 through 2019 due to the methodological improvement is 3.1 percent. Broken down by private carriers, state funds, and self-insurers, the average increases in yearly costs between 2015 and 2019 are 2.3, 3.3, and 5.3 percent respectively, as many of the previously missed assessments were on self-insurers. The methodological change is further discussed in *Sources and Methods 2022*.

	Total	%	Private I	nsured ^a	State Fund	l Insured ^a	Self-Ins	sured ^a	Fede	ral ^b
Year	(millions)	Change	(millions)	% of total	(millions)	% of total	(millions)	% of total	(millions)	% of total
2000	62,439	7.6	36,913	59.1	12,673	20.3	9,232	14.8	3,620	5.8
2001	69,370	11.1	39,036	56.3	14,384	20.7	12,172	17.5	3,778	5.4
2002	76,288	10.0	42,611	55.9	14,490	19.0	15,289	20.0	3,898	5.1
2003	84,721	11.1	46,598	55.0	15,736	18.6	18,416	21.7	3,970	4.7
2004	88,651	4.6	48,758	55.0	16,079	18.1	19,742	22.3	4,073	4.6
2005	92,486	4.3	52,211	56.5	17,344	18.8	18,835	20.4	4,096	4.4
2006	90,046	-2.6	52,903	58.8	16,751	18.6	16,255	18.1	4,138	4.6
2007	89,051	-1.1	53,561	60.1	16,891	19.0	14,363	16.1	4,236	4.8
2008	82,969	-6.8	48,488	58.4	17,486	21.1	12,654	15.3	4,341	5.2
2009	76,107	-8.3	44,009	57.8	17,037	22.4	10,996	14.4	4,065	5.3
2010	74,931	-1.5	43,838	58.5	16,980	22.7	9,885	13.2	4,228	5.6
2011	81,260	8.4	47,747	58.8	18,338	22.6	10,729	13.2	4,447	5.5
2012	87,160	7.3	52,513	60.2	18,745	21.5	11,362	13.0	4,539	5.2
2013	91,822	5.3	56,362	61.4	18,354	20.0	12,502	13.6	4,604	5.0
2014	96,602	5.2	58,832	60.9	19,091	19.8	13,764	14.2	4,914	5.1
2015	99,208	2.7	60,834	61.3	19,211	19.4	13,731	13.8	5,432	5.5
2016	100,188	1.0	61,716	61.6	19,340	19.3	13,474	13.4	5,658	5.6
2017	100,751	0.6	62,277	61.8	19,557	19.4	12,667	12.6	6,250	6.2
2018	101,459	0.7	62,070	61.2	19,821	19.5	12,565	12.4	7,004	6.9
2019	100,316	-1.1	61,011	60.8	19,806	19.7	12,008	12.0	7,491	7.5
2020	92,951	-7.3	56,467	60.7	18,233	19.6	10,707	11.5	7,544	8.1

Table 13

a Costs for second injury funds and special funds are included in the totals. The costs for special funds are estimated from assessment rates, based on premiums and losses. Employee contributions to workers' compensation costs in New Mexico, Oregon, and Washington state are included in the totals from 2011 to 2020.

 Federal costs include costs to the Federal government under the Federal Employees' Compensation Act and employer costs associated with the Federal Black Lung Disability Trust Fund, and employer costs associated with the Longshore and Harbor Workers' Compensation Act. See Appendix B for more information about federal programs.

Sources: 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.

methodology is applied to all years beginning in 1999.

The fact that data on employer costs must be compiled from a variety of sources imposes some limitations on the report. First, there may be some direct workers' compensation costs not captured in the estimates. We may, for example, be missing some unreported expenditures, such as those for legal or case management services. Second, our estimates are limited to the monetary costs of work-related injuries and illnesses paid by employers. The estimates do not include the costs borne by employers who pay injured workers' full salaries during periods of light duty or other post-injury job accommodations. Some of this payment is a loss to the employer because of the reduced productivity of the worker(s) being accommodated. Finally, our estimates do not include the costs imposed on workers, families, and society in the form of pain and suffering, uncompensated lost wages, and unreimbursed medical costs. These costs are beyond the scope of this report.⁶³

National Estimates of Employer Costs

Table 13 shows employer costs for workers' compensation by type of coverage for 2000 through 2020. In 2020, total employer costs were \$93.0 billion, a decrease of 7.2 percent since 2016 and of 7.3 percent compared to 2019. In the past 20 years, only the 8.3 percent decrease between 2008 and 2009, at the height of the Great Recession, exceeds the decrease between 2019 and 2020.

In 2020, costs for employers insured through private carriers were 60.7 percent of total workers' compensation costs (\$56.5 billion); costs for self-insured employers were 19.6 percent (\$18.2 billion); costs for employers insured through state funds were 11.5 percent (\$10.7 billion); and costs for federal government programs were 8.1 percent (\$7.5 billion). Over the five-year study period (2016-2020), the share of costs paid by state funds decreased by 1.9 percentage points and the share paid by private insurers decreased by 0.9 percentage point. At the same time, the share paid by self-insured employers rose slightly, but the share paid by the federal government increased by 2.5 percentage points, in part because its costs remained stable between 2019 and 2020 while all other costs fell significantly.

Table 14 shows employer costs per \$100 of covered wages overall and disaggregated by federal/non-federal employment. When adjusted for the growth in employment and wages, the magnitude of the decrease in employer costs in recent years is even more striking. Between 2016 and 2020, standardized employer costs decreased by \$0.28 per \$100 of covered wages (20.7%), with most of the decrease (\$0.17) in the latter years. Standardized employer costs decreased by \$0.11, or 8.0 percent, between 2016 and 2018, and by \$0.17, or 13.8 percent, between 2018 and 2020. Among non-federal employers, costs per \$100 of covered wages decreased by \$0.30 (22.9%) over the study period. The largest one-year decline for non-federal employers took place in 2020, when standardized costs fell by \$0.11, or 9.4 percent.

State Estimates of Employer Costs*

Table 14 also reports estimates of employer costs for workers' compensation per \$100 of covered wages by state from 2016 to 2020. Costs are aggregated across all types of insurers (excluding the federal government) and across all industries. Consistent with the national trend, employer costs per \$100 of covered wages decreased in every jurisdiction over the study period, compared to 45 jurisdictions in the 2017 data report, and 50 (of 51) jurisdictions in the 2018 and 2019 data reports. North Dakota experienced the largest relative decrease in standardized costs (31.3%), followed by Washington (30.7%), Arizona (29.9%), and North Carolina (29.8%). Washington and Arizona experienced large increases in covered wages over the study period, which may help to explain the large decrease in standardized costs. Standardized costs decreased by more than 10 percent in every jurisdiction except Hawaii (less than 0.1%), Nevada (5.8%), and Missouri (9.3%). Between 2019 and 2020, the largest decreases in standardized costs occurred in Alabama (17.5%) and Kentucky (16.9%) compared to a median decrease of 9.5 percent. Only South Carolina experienced an increase in standardized costs in 2020, up 0.7 percent from 2019.

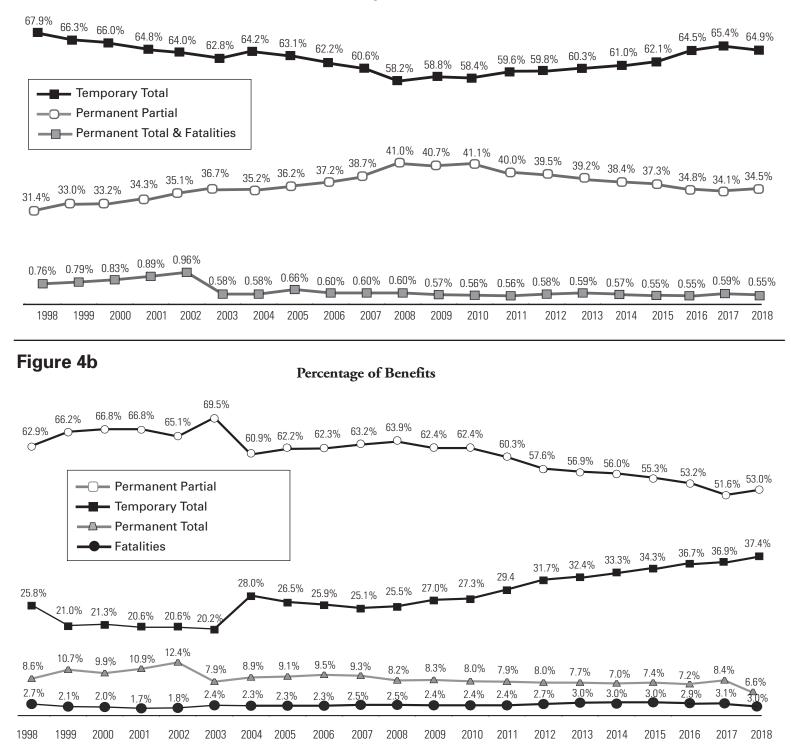
⁶³ We have, however, updated our estimates of workers' contributions to workers' compensation benefits. These contributions are included in cost estimates for three states – New Mexico, Oregon, and Washington.

^{*} See the the Word of Caution for 2020 Standardized Metrics on page 3 regarding the standardized cost and benefit metrics in 2020.

Figure 4a

Types of Disabilities in Workers' Compensation Cases with Cash Benefits, 1998-2018

Percentage of Cases



Notes: Cases classified as permanent partial include cases that are closed with lump sum settlements. Benefits paid in cases classified as permanent partial, permanent total and fatalites 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.* A breakdown of the percentage of cases under "Permanent Total & Fatalities" can be found in *Sources and Methods 2022* at nasi.org.

Source: NCCI 2000-2022, Annual Statistical Bulletin, Exhibits X and XII.

State 2016 Alabama \$1.03 Alabama \$1.03 Alaska 2.36 Arizona 0.95 Arizona 0.90 Arizona 0.90 Arizona 0.80 Dolorado 1.02 Colorado 1.45 Delaware 1.46 District of Columbia 0.48 Hawaii 1.45 Hawaii 1.45 Illinois 1.16 Illinois 1.54 Illinois 1.54 Indiana 0.82 Indiana 0.82 Indiana 0.82 Indiana 0.82 Indiana 1.54 Indiana 1.16 Indiana 1.16 Indiana 1.16	2017 \$0.99 \$0.99 2.23 0.88 0.88 0.88 0.77 1.89 0.77 1.89 0.97 1.47 0.49 1.47 0.49 1.53	2018 \$0.93 2.17 2.17 0.84 0.74 1.75 0.93 1.13 1.13 1.44 0.50 1.37 1.09	2019 \$0.95 1.96 0.78 0.70 1.61 0.86 1.10 1.29	2020 \$0.78 1.74 0.67 0.63 0.67 0.63 1.45 1.45 0.76 1.01 1.01 1.22 0.41	2016-2018 -10.2 -8.2 -12.1 -6.8 -13.5 -9.3 -10.6 -2.2	2018-2020 2018-2020 -15.7 -19.8 -20.3 -14.9 -17.3 -17.3		5	(1=largest percent increase, 2016-2020) 35 40 40
a of Columbia	\$0.99 2.23 0.88 0.88 0.77 1.89 0.97 1.89 0.97 1.47 0.49 1.53 1.53	\$0.93 2.17 0.84 0.74 1.75 0.93 1.13 1.44 0.50 1.37 1.09	\$0.95 1.96 0.78 0.70 0.70 1.61 0.86 1.10 1.29	\$0.78 1.74 0.67 0.63 1.45 0.76 0.76 1.01 1.01 1.22 0.41	-10.2 -8.2 -12.1 -6.8 -13.5 -9.3 -10.6 -2.2	-15.7 -19.8 -20.3 -14.9 -17.3 -17.7	-17.5 -11.2 -14.4 -9.5 -9.9 -11.6 -7.8 -5.6	-24.3 -26.3 -20.7 -20.7 -28.5	35 40 49
of Columbia	2.23 0.88 0.77 1.89 0.97 1.24 1.47 0.49 0.49 1.53 1.63	2.17 0.84 0.74 1.75 0.93 1.13 1.13 1.44 0.50 1.37 1.09	1.96 0.78 0.70 1.61 0.86 1.10 1.29	1.74 0.67 0.63 0.63 1.45 0.76 1.01 1.01 1.22 0.41	-8.2 -12.1 -6.8 -13.5 -9.3 -10.6 -2.2	-19.8 -20.3 -14.9 -17.3 -17.7	-11.2 -14.4 -9.5 -9.9 -11.6 -7.8 -5.6	-26.3 -29.9 -20.7 -28.5	40 49
of Columbia	0.88 0.77 1.89 1.89 0.97 1.24 1.47 0.49 1.53 1.53	0.84 0.74 1.75 0.93 1.13 1.13 1.44 0.50 1.37 1.09	0.78 0.70 1.61 0.86 1.10 1.29	0.67 0.63 1.45 0.76 1.01 1.01 1.22 0.41	-12.1 -6.8 -13.5 -9.3 -10.6 -2.2	-20.3 -14.9 -17.3 -17.7	-14.4 -9.5 -9.9 -11.6 -7.8 -5.6	-29.9 -20.7 -28.5	θУ
a a b c Columbia	0.77 1.89 0.97 1.24 1.47 0.49 1.53 1.63	0.74 1.75 0.93 1.13 1.44 0.50 1.37 1.09	0.70 1.61 0.86 1.10 1.29	0.63 1.45 0.76 1.01 1.22 1.22 0.41	-6.8 -13.5 -9.3 -10.6 -2.2	-14.9 -17.3 -17.7	-9.5 -9.9 -11.6 -7.8 -5.6	-20.7 -28.5	۲ <i>.</i>
a of Columbia a	1.89 0.97 1.24 1.47 0.49 1.53 1.09	1.75 0.93 1.13 1.44 0.50 1.37 1.09	1.61 0.86 1.10 1.29	1.45 0.76 1.01 1.22 0.41	-13.5 -9.3 -10.6 -2.2	-17.7 -17.7	-9.9 -11.6 -7.8 -5.6	-28.5	20
of Columbia of Columbia a	0.97 1.24 1.47 0.49 1.53 1.09	0.93 1.13 1.44 0.50 1.37 1.09	0.86 1.10 1.29	0.76 1.01 1.22 0.41	-9.3 -10.6 -2.2	-17.7	-11.6 -7.8 -5.6	150	46
e of Columbia y a	1.24 1.47 0.49 1.53 1.09	1.13 1.44 0.50 1.37 1.09	1.10 1.29	1.01 1.22 0.41	-10.6 -2.2	107	-7.8 -5.6	C.C2-	38
e of Columbia y	1.47 0.49 1.53 1.09	1.44 0.50 1.37 1.09	1.29	$1.22 \\ 0.41$	-2.2	-10./	-5.6	-20.1	19
of Columbia	0.49 1.53 1.09	0.50 1.37 1.09 1.70	0 10	0.41		-15.8		-17.7	14
a A	1.53 1.09	1.37 1.09 1.70	0.40		3.7	-17.9	-15.3	-14.9	6
a A	1.09	1.09	1.28	1.14	-5.8	-16.8	-11.1	-21.6	26
Sy 13	1 64	1.70	1.01	0.94	-1.2	-13.9	-6.9	-15.0	10
cy 3a	1.04		1.70	1.69	0.3	-0.4	-0.3	0.0	1
cy Ja	1.70	1.64	1.60	1.47	-4.0	-10.2	-8.1	-13.8	5
cy Ja	1.09	1.02	0.95	0.85	-12.4	-16.3	-9.8	-26.7	41
cy 1a	0.75	0.70	0.68	0.64	-14.1	-8.5	-5.9	-21.5	24
cy Ja	1.48	1.36	1.24	1.14	-11.5	-16.4	-8.4	-26.0	39
	1.07	1.00	0.99	0.89	-12.7	-10.7	-9.4	-22.1	29
	0.96	1.05	0.96	0.80	2.7	-24.0	-16.9	-21.9	28
	1.58	1.53	1.49	1.34	-4.3	-12.1	-9.5	-15.8	11
Maine 1.48	1.46	1.38	1.32	1.24	-6.6	-10.2	-6.0	-16.2	12
Maryland 1.08	0.93	0.99	0.92	0.81	-8.3	-18.1	-11.8	-24.9	36
Massachusetts 0.76	0.75	0.74	0.70	0.65	-3.4	-11.0	-6.5	-14.1	7
Michigan 0.81	0.74	0.71	0.66	0.61	-12.4	-13.0	-7.4	-23.8	32
Minnesota 1.18	1.09	1.02	1.00	0.98	-13.3	-4.3	-1.6	-17.1	13
Mississippi 1.30	1.27	1.22	1.19	1.11	-5.6	-9.0	-6.6	-14.1	9
Missouri 1.21	1.17	1.13	1.10	1.10	-7.2	-2.2	-0.2	-9.3	Э
Montana 2.18	2.06	1.89	1.77	1.64	-13.3	-13.4	-7.4	-25.0	37
Nebraska 1.25	1.20	1.16	1.09	1.02	-7.6	-11.8	-6.0	-18.5	15
Nevada 0.98	0.91	0.96	0.94	0.92	-2.6	-3.3	-2.0	-5.8	2

New Jensey 1.58 1.51 1.49 1.43 1.28 5.6 -14.1 -10.3 -18.9 16 New Mexica ⁴ 1.46 1.40 1.35 1.32 1.34 -75 -15.6 -13.8 -21.9 27 New Mexica ⁴ 1.66 1.40 1.35 1.32 1.34 -12.9 -15.6 -13.8 -21.9 27 New Mexica ⁴ 1.65 0.97 0.97 0.94 0.82 0.75 -16.3 -10.5 -33.8 -34.0 33 New Motion 1.13 1.09 1.02 0.98 -0.66 -1.1 -1.23 -34 -33 -25 -44 Ohio 1.13 1.09 1.02 0.98 0.68 -0.1 -3.3 -3.3 -2.1	New Hampshire	1.12	1.06	1.00	0.90	0.82	-10.7	-18.4	-9.5	-27.2	42
	New Jersey	1.58	1.51	1.49	1.43	1.28	-5.6	-14.1	-10.3	-18.9	16
ork 1.64 1.59 1.54 1.44 1.29 6.1 -16.3 -10.5 -21.4 -18.0 -22.48 -22.48 Carolina 1.05 0.97 0.90 0.84 0.74 -14.4 -18.0 -12.3 -29.8 -29.8 Dakota 1.45 1.28 1.23 1.10 1.00 -12.3 -29.8 -29.8 -29.8 -29.8 -29.8 -29.8 -29.8 -29.8 -29.3 -29.8 -29.8 -29.8 -29.8 -29.8 -29.7 -29.8 -29.1 -29.7 -29.8 -29.1 -2	New Mexico ^a	1.46	1.40	1.35	1.32	1.14	-7.5	-15.6	-13.8	-21.9	27
Carolina 1.05 0.97 0.90 0.84 0.74 1.44 18.0 12.3 29.8 1 Dakota 1.45 1.28 1.25 1.14 1.00 14.2 20.0 12.5 31.3 29.8 73.3 29.8 73.3 29.8 73.3 29.8 73.3 29.40 12.3 13.1 12.3 13.1 13.1 12.3 13.1 20.6 9.1 8.8 -7.18 13.8 24.0 14.4 18.8 -24.0 14.9 14.7 13.8 13.6 13.1 10.0 12.3 13.4 24.0 14.4 14.8 -6.1 -14.2 -5.9 -19.4 14.8 -5.11 14.8 14.4 14.6 14.7 14.8 14.4 14.6 14.7 14.8 -5.11 14.4 14.8 -6.1 -14.2 -14.4 14.1 14.8 -14.4 14.7 14.8 14.4 14.8 -5.1 -5.1 -5.4 -11.1 -5.4.2 -5.1	New York	1.64	1.59	1.54	1.44	1.29	-6.1	-16.3	-10.5	-21.4	23
	North Carolina	1.05	0.97	06.0	0.84	0.74	-14.4	-18.0	-12.3	-29.8	48
0.94 0.82 0.75 0.75 0.68 -20.6 -9.1 -8.8 -27.8 -27.8 n 1.40 1.31 1.23 1.10 1.06 -12.3 -3.8 -24.0 -24.0 n 1.13 1.09 1.02 0.98 0.89 -10.0 -12.3 -3.8 -24.0 -21.1 obtain 1.47 1.38 1.36 1.26 1.14 1.08 1.06 0.97 -8.6 -9.7 -21.1 1.48 -24.0 -24.0 -24.0 -24.2 -14.8 -14.8 -24.2 -14.8 -24.7 -21.1 -14.8 -24.7 -21.1 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.6 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 -24.7 <	North Dakota	1.45	1.28	1.25	1.14	1.00	-14.2	-20.0	-12.5	-31.3	51
1.40 1.31 1.23 1.10 1.06 $1.2.3$ $1.3.3$ $2.4.0$ $2.4.0$ $1.1.3$ 1.09 1.02 0.98 0.89 -10.0 -12.3 8.7 21.1 1.47 1.38 1.38 1.26 1.19 -6.1 -14.2 -5.9 -19.4 1.14 1.08 1.04 1.06 0.7 -11.1 -14.2 -5.9 -19.4 -24.0 1.14 1.08 1.04 1.06 0.7 -5.9 -19.4 -14.2 -5.9 -19.4 1.14 1.16 1.12 1.04 0.92 -7.1 -11.6 -24.2 -21.1 0.90 0.88 0.74 0.65 -17.4 -12.9 -29.9 -29.4 0.76 0.74 0.65 -17.4 -12.9 -29.7 -21.9 0.80 0.81 0.74 0.65 -17.4 -12.9	Ohio	0.94	0.82	0.75	0.75	0.68	-20.6	-9.1	-8.8	-27.8	44
1.13 1.09 1.02 0.98 0.89 1.00 1.2 8.7 21.1 1.47 1.38 1.38 1.26 1.19 6.1 -4.2 5.9 -19.4 1.14 1.08 1.04 1.06 1.54 1.5 -6.8 -8.1 -14.8 1.74 1.11 1.16 1.66 1.54 1.5 -7.1 -14.2 -5.9 -19.4 1.74 1.15 1.12 1.16 1.54 1.57 -9.7 -11.1 0.90 0.85 0.78 0.71 0.64 -7.1 -18.4 -11.6 -24.2 0.90 0.85 0.78 0.71 0.64 -13.7 -11.4 -12.9 -19.6 -10.4 0.58 0.74 0.74 0.65 -12.9 -12.9 -23.4 -11.6 1.82 1.61 1.23 1.55 1.29 -12.9 <td>Oklahoma</td> <td>1.40</td> <td>1.31</td> <td>1.23</td> <td>1.10</td> <td>1.06</td> <td>-12.3</td> <td>-13.3</td> <td>-3.8</td> <td>-24.0</td> <td>33</td>	Oklahoma	1.40	1.31	1.23	1.10	1.06	-12.3	-13.3	-3.8	-24.0	33
1.47 1.38 1.26 1.10 6.1 -14.2 5.9 -19.4 $1.1.4$ 1.08 1.04 1.06 0.97 -8.5 -6.8 -8.1 -14.8 $1.1.4$ 1.08 1.04 1.06 1.54 1.5 -6.8 -8.1 -14.8 1.21 1.15 1.12 1.04 0.57 0.92 -6.8 -8.1 -14.8 0.90 0.85 0.74 0.52 -7.1 -18.4 -11.6 -24.2 0.58 0.54 0.55 0.74 0.65 -9.1 -12.9 -20.9 0.89 0.86 0.81 0.74 0.65 -9.1 -12.9 -20.9 1.82 1.70 1.61 1.49 1.34 1.20 -12.9 -23.4 0.76 0.74 0.76 0.73 -12.9 -19.6 -19.6 -19.6 -19.6 -19.6 -1	Oregon	1.13	1.09	1.02	0.98	0.89	-10.0	-12.3	-8.7	-21.1	22
1.14 1.08 1.04 1.06 0.97 -8.5 -6.8 -8.1 -14.8 a 1.74 1.41 1.66 1.54 1.5 -4.8 -6.6 0.7 -11.1 1.21 1.15 1.12 1.04 0.92 -7.1 -18.4 -11.6 -24.2 0.90 0.85 0.78 0.71 0.64 -13.5 -17.7 -9.7 -28.8 0.90 0.85 0.72 0.72 0.74 0.75 -20.7 -20.9 -22.7 0.76 0.75 0.74 0.76 0.76 -17.4 -12.9 -20.9 0.76 0.77 0.74 0.76 0.76 -13.7 -10.4 -23.4 0.76 0.74 0.70 0.61 -20.7 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6	Pennsylvania	1.47	1.38	1.38	1.26	1.19	-6.1	-14.2	-5.9	-19.4	17
a 1.74 1.41 1.66 1.54 1.56 0.7 11.1 1.21 1.15 1.12 1.04 0.92 -7.1 -18.4 -11.6 -24.2 0.90 0.85 0.78 0.71 0.02 -17.7 -9.7 -28.8 0.90 0.85 0.75 0.72 0.64 -13.5 -17.7 -9.7 -28.8 0.89 0.86 0.81 0.74 0.65 -9.1 -12.9 -20.9 0.76 0.74 0.74 0.65 -9.1 -12.9 -23.4 0.76 0.74 0.74 0.76 -12.9 -12.9 -23.4 0.76 0.74 0.70 0.61 -2.97 -12.9 -23.4 0.76 0.74 0.70 0.61 -2.97 -12.9 -29.7 0.76 0.75 0.74 0.70 0.61 -17.3 -12.6 <td>Rhode Island</td> <td>1.14</td> <td>1.08</td> <td>1.04</td> <td>1.06</td> <td>0.97</td> <td>-8.5</td> <td>-6.8</td> <td>-8.1</td> <td>-14.8</td> <td>8</td>	Rhode Island	1.14	1.08	1.04	1.06	0.97	-8.5	-6.8	-8.1	-14.8	8
1.21 1.15 1.12 1.04 0.92 -7.1 -18.4 -11.6 -24.2 > 0.90 0.85 0.78 0.71 0.64 -13.5 -17.7 -9.7 -28.8 > 0.58 0.54 0.55 0.52 0.64 -13.5 -17.7 -9.7 -28.8 > 0.89 0.86 0.81 0.74 0.65 -9.1 -20.9 -23.4 > 0.89 0.86 0.81 0.74 0.65 -9.1 -20.9 -23.4 > 0.70 0.74 0.70 0.61 -29.3 -12.6 -10.6 -13.6 -23.4 > -23.4 -23.4 -23.4 -23.4 -23.4 -23.4 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -19.6 -10.6 $-10.$	South Carolina	1.74	1.41	1.66	1.54	1.55	-4.8	-6.6	0.7	-11.1	4
0.90 0.85 0.78 0.71 0.64 -13.5 -17.7 -9.7 -28.8 0.58 0.54 0.55 0.52 0.46 -4.2 -17.4 -12.9 -20.9 0.89 0.86 0.81 0.74 0.65 -9.1 -20.5 -12.9 -20.9 0.89 0.86 0.81 0.74 0.76 0.72 -15.6 -10.4 -20.9 0.76 0.75 0.74 0.70 0.61 -2.9 -17.3 -12.6 -19.6 0.76 0.74 0.70 0.61 -2.9 -17.3 -12.6 -19.6 0.76 0.74 0.70 0.61 -2.9 -17.3 -12.6 -19.6 0.76 0.74 0.70 0.61 -2.9 -17.3 -12.6 -19.6 1.73 1.63 1.20 1.20 1.26 -10.6 -10.6 -19.6 <td>South Dakota</td> <td>1.21</td> <td>1.15</td> <td>1.12</td> <td>1.04</td> <td>0.92</td> <td>-7.1</td> <td>-18.4</td> <td>-11.6</td> <td>-24.2</td> <td>34</td>	South Dakota	1.21	1.15	1.12	1.04	0.92	-7.1	-18.4	-11.6	-24.2	34
0.58 0.54 0.55 0.52 0.46 -4.2 -17.4 -12.9 -20.9 -20.9 0.89 0.86 0.81 0.74 0.65 -9.1 -20.5 -12.9 -20.9 -27.7 1.82 1.70 1.65 1.55 1.39 -9.3 -15.6 -10.4 -23.4 0.76 0.75 0.74 0.70 0.61 -2.9 -17.3 -19.6 -19.6 1.73 1.61 1.49 1.34 1.20 -17.3 -12.6 -19.6 1.73 1.61 1.49 1.34 1.20 -17.3 -12.6 -19.6 1.63 1.53 1.52 1.49 1.28 -5.9 -5.16 -19.6 1.72 1.63 1.53 1.52 1.49 1.28 -11.4 -22.9 1.72 51.3 51.2 51.2 51.2 51.2 -21.2 <	Tennessee	0.90	0.85	0.78	0.71	0.64	-13.5	-17.7	-9.7	-28.8	47
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Texas	0.58	0.54	0.55	0.52	0.46	-4.2	-17.4	-12.9	-20.9	21
1.82 1.70 1.65 1.55 1.39 -9.3 -15.6 -10.4 -23.4 -23.4 0.76 0.75 0.74 0.70 0.61 -2.9 -17.3 -12.6 -19.6 1.73 1.61 1.49 1.34 1.20 -13.7 -19.6 -19.6 -19.6 1.63 1.53 1.52 1.49 1.28 -19.6 -10.8 -30.7 1.72 1.63 1.52 1.49 1.28 -6.9 -15.8 -13.9 -21.6 1.72 1.63 1.59 1.49 1.28 -6.9 -15.8 -13.9 -21.6 1.72 1.63 1.59 1.49 1.28 -7.3 -16.8 -11.4 -22.9 2.47 2.07 1.57 1.98 1.78 -7.3 -16.8 -11.4 -22.9 2.47 2.07 1.57 1.98 1.78 -16.8 -11.4 -22.9 2.47 5.129 $$1.12$ $$1.12$ $$1.16$ -10.0 -28.1 5^{c} $$1.31$ $$1.25$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 5^{c} $$1.31$ $$1.25$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 5^{c} $$1.31$ $$1.25$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 5^{c} $$1.31$ $$1.25$ $$1.17$ $$1.02$ -11.3 -7.3 -20.3 5^{c} <td>Utah</td> <td>0.89</td> <td>0.86</td> <td>0.81</td> <td>0.74</td> <td>0.65</td> <td>-9.1</td> <td>-20.5</td> <td>-12.9</td> <td>-27.7</td> <td>43</td>	Utah	0.89	0.86	0.81	0.74	0.65	-9.1	-20.5	-12.9	-27.7	43
0.76 0.75 0.74 0.70 0.61 -2.9 -17.3 -12.6 -19.6 1.73 1.61 1.49 1.34 1.20 -13.7 -19.6 -10.8 -30.7 1.63 1.53 1.52 1.49 1.28 -6.9 -15.8 -13.9 -21.6 1.72 1.63 1.59 1.49 1.32 -7.3 -16.8 -11.4 -22.9 2.47 2.07 1.57 1.98 1.78 -36.7 13.6 -10.0 -28.1 2.47 2.07 1.57 1.98 1.78 -36.7 13.6 -10.0 -28.1 6 $\$1.31$ $\$1.25$ $\$1.19$ $\$1.12$ $\$1.01$ -9.2 -15.1 -9.4 -22.9 \ast $\$1.39$ $\$1.21$ $\$1.22$ $\$1.01$ -9.2 -15.1 -9.4 -22.9 \ast $\$1.31$ $\$1.25$ $\$1.20$ $\$1.01$ -9.2 -15.1 -9.4 -22.9 \ast $\$1.32$ $\$1.29$ $\$1.24$ $\$1.17$ $\$1.02$ -11.3 -7.3 -20.3 \ast $\$1.32$ $\$1.29$ $\$1.17$ $\$1.07$ -8.0 -13.8 -20.7	Vermont	1.82	1.70	1.65	1.55	1.39	-9.3	-15.6	-10.4	-23.4	31
1.73 1.61 1.49 1.34 1.20 -19.6 -10.8 -30.7 30.7 1.63 1.53 1.52 1.49 1.28 -19.6 -10.8 -30.7 20.7 1.72 1.63 1.52 1.49 1.28 -5.9 -15.8 -13.9 -21.6 2.47 2.07 1.57 1.98 1.32 -7.3 -16.8 -11.4 -22.9 2.47 2.07 1.57 1.98 1.78 -36.7 13.6 -10.0 -28.1 5.131 $$1.25$ $$1.19$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 $$51.39$ $$1.31$ $$1.25$ $$1.20$ $$1.11$ -10.2 -11.3 -2.03 $$51.35$ $$1.29$ $$1.26$ $$1.17$ $$1.07$ -8.0 -13.8 -8.8 -20.7	Virginia	0.76	0.75	0.74	0.70	0.61	-2.9	-17.3	-12.6	-19.6	18
1.63 1.53 1.52 1.49 1.28 -6.9 -15.8 -13.9 -21.6 1.72 1.63 1.59 1.49 1.32 -7.3 -16.8 -11.4 -22.9 2.47 2.07 1.57 1.98 1.78 -36.7 13.6 -10.0 -28.1 $*$ $$1.31$ $$1.25$ $$1.19$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 $*$ $$1.39$ $$1.31$ $$1.25$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 $$$ $$1.39$ $$1.23$ $$1.26$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 $$$ $$1.39$ $$1.29$ $$1.26$ $$1.17$ $$1.07$ -11.3 -7.3 -20.3 $$$ $$1.35$ $$1.29$ $$1.24$ $$1.17$ $$1.07$ -8.0 -13.8 -8.8 -20.7	Washington ^b	1.73	1.61	1.49	1.34	1.20	-13.7	-19.6	-10.8	-30.7	50
1.72 1.63 1.59 1.49 1.32 -7.3 -16.8 -11.4 -22.9 -22.9 2.47 2.07 1.57 1.98 1.78 -36.7 13.6 -10.0 -28.1 $*$ $$1.31$ $$1.25$ $$1.19$ $$1.12$ $$1.01$ -9.2 -15.1 -9.4 -22.9 $*$ $$1.39$ $$1.31$ $$1.25$ $$1.12$ $$1.11$ -10.2 -15.1 -9.4 -22.9 $*$ $$1.39$ $$1.29$ $$1.26$ $$1.17$ $$1.07$ -11.3 -7.3 -20.3 $$1.35$ $$1.29$ $$1.24$ $$1.17$ $$1.07$ -8.0 -13.8 -8.8 -20.7	West Virginia	1.63	1.53	1.52	1.49	1.28	-6.9	-15.8	-13.9	-21.6	25
2.47 2.07 1.57 1.98 1.78 -36.7 13.6 -10.0 -28.1 * \$1.31 \$1.25 \$1.19 \$1.12 \$1.01 -9.2 -15.1 -9.4 -22.9 * \$1.39 \$1.31 \$1.25 \$1.20 \$1.11 -10.2 -11.3 -7.3 -20.3 \$ \$1.35 \$1.29 \$1.17 \$1.07 -13.8 -8.8 -20.7	Wisconsin	1.72	1.63	1.59	1.49	1.32	-7.3	-16.8	-11.4	-22.9	30
\$1.31 \$1.25 \$1.19 \$1.12 \$1.01 -9.2 -15.1 -9.4 \$c \$1.39 \$1.21 \$1.25 \$1.20 \$1.11 -10.2 -11.3 -7.3 \$1.35 \$1.29 \$1.24 \$1.17 \$1.07 -8.0 -13.8 -8.8	Wyoming	2.47	2.07	1.57	1.98	1.78	-36.7	13.6	-10.0	-28.1	45
mployces ^c \$1.39 \$1.21 \$1.25 \$1.20 \$1.11 -10.2 -11.3 -7.3 - \$1.35 \$1.29 \$1.24 \$1.17 \$1.07 -8.0 -13.8 -8.8 -8.8	Total Non-Federal	\$1.31	\$1.25	\$1.19	\$1.12	\$1.01	-9.2	-15.1	-9.4	-22.9	
\$1.35 \$1.29 \$1.24 \$1.17 \$1.07 -8.0 -13.8 -8.8	Federal Employees ^c	\$1.39	\$1.31		\$1.20	\$1.11	-10.2	-11.3	-7.3	-20.3	
	TOTAL	\$1.35	\$1.29	\$1.24	\$1.17	\$1.07	-8.0	-13.8	-8.8	-20.7	

a New Mexico, while the residual \$0.30 per employee fund an Uninsured Employers' Fund. Employees also pay \$2.00 each on the last day of each quarter toward funding the Workers' Compensation Ď TITLES INT cybc undir innus (or uneir equivalents) innus operate UCTICIALLY SLAI Administration.

In Washington state both employers and employees contribute to workers' compensation premiums. In 2020, employees contributed 26.7 percent of state fund premiums and 50 percent of self-insured employer cost-of-living-adjustment premiums. р.

Longshore and Harbor Workers' Compensation Act and the Black Lung Benefits Act. Consistent with Tables 10-12, data on all three programs is included in the "Total" row. See Appendices B and C The "Federal Employees" row depicts the total costs of the Federal Employees Compensation Act (Table B1) per \$100 of federal employee covered wages. In past reports we have included costs of the for more information about federal programs. J

Source: National Academy of Social Insurance estimates.

Legislation and Rules Corresponding to Changes in Employer Costs

The large decrease in costs in North Dakota is likely linked to 2013 legislative changes which affected both medical and indemnity benefits, as well as the non-compensability of COVID-19 claims in the state throughout 2020. (Refer to page 39 for details.)

Hawaii did not experience the large decrease in standardized costs between 2016 and 2020 that most other states did. Instead, costs per \$100 covered wages remained almost constant over the study period (decreasing by less than 0.1%). This outcome likely reflects, in part, increases in the fee schedule for medical services that were enacted in 2013 (NCSL, 2013) and in 2018 (Hawaii Disability Compensation Division, 2018). Indeed, Hawaii experienced the largest percentage increase in standardized benefits (14.9%) in the country between 2016 and 2020 (Table 12). These benefit increases, however, were fully offset by other factors that reduced employer costs in 2020, resulting in an aggregate net decrease over the study period. One such factor may be the high denial rates for COVID-19 claims in the state (Hofschneider, 2020). In future reports we hope to have a better sense of the degree to which legislative changes as a result of the COVID-19 pandemic affected employer costs.

Although there is considerable interstate variation in employer costs for workers' compensation per \$100 of covered wages, readers are cautioned against using the estimates in Table 14 to identify states with more or less favorable climates for employers or workers. The data on average costs by state do not mean that states with lower costs offer a more competitive environment for employers, because states differ in their mix of high-risk/low-risk industries. In short, higher risk industries pay higher premiums because benefits will be greater, irrespective of the jurisdiction where they are located. 64

This simple example demonstrates that a meaningful comparison of employer costs across states must control for variations in the proportions of employers in different insurance classifications (which are, in turn, based on the riskiness of industries and occupations) in each state. Such comparisons are beyond the scope of this report.⁶⁵

Furthermore, the cost data reported here likely do not capture the full impact of recent changes in laws that have altered the workers' compensation market within a state. Because the Academy reports costs paid in a particular year, regardless of injury date, a substantial portion of the cost data for 2020 consists of cash benefits paid for injuries that occurred in previous years, under legal regimes and economic conditions that may have been quite different from the current conditions in a state.

Benefits Paid Relative to Employer Costs

Table 15 reports ratios of workers' compensation standardized benefits paid to standardized employer costs, from 2000 through 2020.

The reader is cautioned that the ratios represent benefits and costs paid in a given year, but not necessarily for the same claims. The benefits measure includes payments for all injuries/illnesses that occurred in the given year as well as for some injuries and illnesses that occurred in prior years. The costs measure (premiums paid to insurers and state funds), on the other hand, includes projected future liabilities for injuries and illnesses that occurred in the given year. In other words, the costs and benefits paid in a given year are not tracking the full costs of a particular set of claims.⁶⁶

⁶⁴ Consider, for example, two industries: logging, for which the workers' compensation rate is \$40 per \$100 of wages, and banking, for which the rate is \$1 per \$100 of wages. Suppose State A has 80 percent of its employees in logging and 20 percent in banking, so average costs for workers' compensation are \$32.20 per \$100 of wages. State B has 20 of its employees in logging and 80 percent in Banking, so average employer costs for workers' compensation are \$8.20 per \$100 of wages. If Timber-R-Us moved from State A to State B to take advantage of the lower average costs of workers' compensation, it would not save on those costs. Rather, Timber-R-Us would continue to pay workers' compensation premiums of \$40 per \$100 of its wages.

⁶⁵ As noted below in the section on estimates of employer costs and in Appendix E, Oregon's biannual report does provide such comparisons.

⁶⁶ For employers covered by private insurers or state funds, costs are largely determined by premiums paid. However, in a given year, premiums paid by employers do not necessarily match benefits received by workers. Premiums in a given year pay for all compensable injuries that occur in the same year and for benefits paid (on the same injuries) in future years. On the other hand, the majority of cash benefits paid in any given year are for injuries that occurred in previous years (and are covered by the premiums paid in those

Table 15Workers' Compensation Benefits to Cost Ratios, 2000-2020

Year	Medical Benefits per \$100 Covered Wages	Cash Benefits per \$100 Covered Wages	Total Benefits per \$100 Covered Wages	Employer Costs per \$100 Covered Wages	Total Benefits per \$1 Employer Cost
2000	0.47	0.59	1.06	1.39	0.76
2001	0.50	0.60	1.10	1.51	0.73
2002	0.52	0.61	1.13	1.65	0.69
2003	0.55	0.61	1.16	1.80	0.65
2004	0.53	0.60	1.13	1.79	0.63
2005	0.51	0.58	1.09	1.77	0.62
2006	0.47	0.52	0.99	1.62	0.61
2007	0.46	0.50	0.96	1.52	0.63
2008	0.49	0.50	0.99	1.39	0.71
2009	0.50	0.53	1.03	1.34	0.77
2010	0.49	0.51	1.00	1.28	0.78
2011	0.51	0.50	1.01	1.34	0.76
2012	0.49	0.50	0.99	1.38	0.72
2013	0.47	0.46	0.93	1.34	0.69
2014	0.47	0.46	0.93	1.41	0.66
2015	0.44	0.43	0.87	1.38	0.63
2016	0.42	0.42	0.84	1.35	0.63
2017	0.40	0.40	0.80	1.29	0.62
2018	0.38	0.39	0.77	1.24	0.62
2019	0.37	0.37	0.74	1.17	0.63
2020	0.32	0.36	0.68	1.07	0.63

Notes: Notes: Benefits are calendar-year payments to injured workers and to providers of their medical care. Employer costs are calendar-year expenditures for workers' compensation insurance premiums, benefits paid under deductibles or self-insurance, and administrative costs.

Source: National Academy of Social Insurance estimates.

Employer costs for workers' compensation exceed benefits paid (i.e., the benefit/cost ratio is less than one) because a portion of employer costs goes to administrative expenses and to profits for workers' compensation insurers. In addition, employer premiums must account for future inflation in medical costs. That is, employers are paying up front for the costs of current claims that will extend to future years. Finally, the costs of workers' compensation insurance include a risk premium to compensate for the expected variation in costs from year to year.

same previous years). Premiums are influenced by a number of factors, including previous workers' compensation liability experience and insurers' past and anticipate investment returns on reserves set aside to cover future liabilities.

The benefits to cost ratio varies from year to year for a number of reasons, including: 1) the proportion of costs allotted to administrative expenses changes; 2) underwriting results for the workers' compensation industry (as measured by the overall operating ratio) change; 3) insurers use a larger (or smaller) portion of the returns on their investments (rather than premiums) to defray all or part of their workers' compensation costs; 4) the expected number/severity of workplace injuries increases or decreases; 5) the proportion of workplace injuries that result in reported and compensated claims changes; and 6) the time lag between adjustments in employer costs (premiums collected) and benefits paid varies.

As shown in Table 15, the ratio of standardized workers' compensation benefits to costs was 0.63 in 2020. In other words, \$0.63 of benefits were paid to injured workers for every dollar of employer costs. Over the 20-year period shown: the ratio decreased steadily between 2000 and 2006 (falling from 0.76 to 0.61), increased between 2007 and 2010 (from 0.63 to 0.78), and decreased again between 2011 and 2015 (from 0.76 to 0.63). The ratio has remained almost constant since then, experiencing marginal decreases through 2018 and marginal increases in 2019 and 2020. The increases in 2019 and 2020 have taken place despite 40-year lows in standardized benefits and costs because costs decreased at a faster rate than benefits in both years. The trends in benefits to cost ratios are typical of changes in workers' compensation benefits and costs in response to changes in the economy. In periods of recession (2007-2010), benefits decrease more slowly than employer premiums because benefits largely reflect injuries in prior years while premiums reflect expected future benefits for current injuries, so the benefit-cost ratio tends to increase. In periods of expansion (1999-2006, 2011-2015), the opposite tends to occur.

Underwriting Results

An alternate measure of the relationship between benefits paid to workers and costs to employers is the *incurred loss ratio (ILR).* The *ILR* measures losses incurred by insurers in a given year divided by net premiums paid by employers in that year. The numerator of the ratio (incurred losses) is the sum of benefits paid to workers injured in that year, plus reserves for future benefit payments for those injuries. In 1990, for example, the incurred loss ratio was 0.878, meaning that almost 88 percent of premiums paid would be used to cover losses for injuries occurring in 1990, and the remaining 12 percent cover insurer operating expenses and any profits to investors.

In contrast, the *benefits to cost ratio* (Table 15) measures benefits paid to workers in a given year divided by costs to employers in that year. Note that the benefits to cost ratio pertains to all employers (including those who purchase insurance from private carriers or state funds, and those who self-insure) while the ILR only pertains to employers who purchase insurance from private carriers.

Figure 5 provides data on the benefits to cost ratio and the incurred loss ratio for 1980 to 2020.⁶⁷

Between 1984-1992, the workers' compensation insurance market was unprofitable, that is, incurred losses and operating expenses exceeded insurers' receipts (premiums plus investment income) in every year.⁶⁸ As shown in Figure 5, the ILR was unusually high during those years. During this period, the insurance industry successfully pursued deregulation of the workers' compensation insurance market, which previously relied on administered pricing.⁶⁹, ⁷⁰ The profitability of the industry improved rapidly through the 1990s. The ILR reached a low of 57 percent in 1995, then increased steadily to 78.9 percent in 2001.

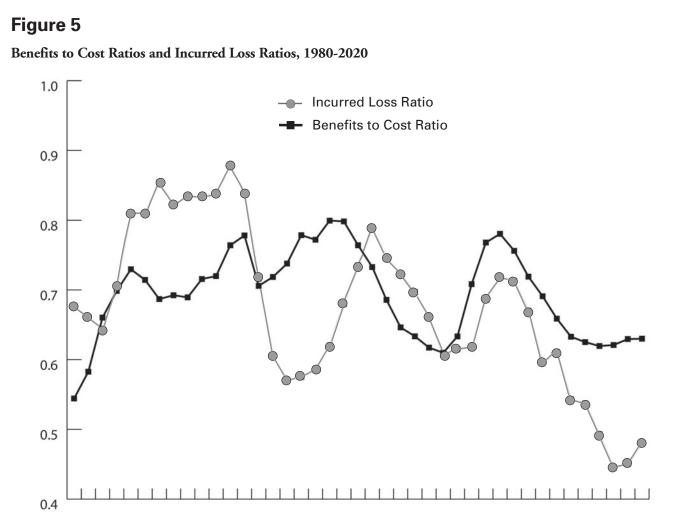
After a brief period of unprofitability in the early 2000s, the workers' compensation insurance industry was a stable source of profit through 2011 (Brandenburg et al., 2017). Since experiencing a loss in 2011, profit levels have increased dramatically.

⁶⁷ The incurred loss ratio data in Figure 5 comes from Table 1 of Brandenburg et al. 2017 that was acquired by a private data request to Aaron Brandenburg and NAIC.

⁶⁸ The underwriting results discussed in this section are from Brandenburg et al. 2017.

⁶⁹ Under administered pricing, the "Rating bureaus [in each state] filed rates and rating plans on behalf of all insurers, which were required to adhere to their rates. Competition could only be achieved through service and "back end" dividend plans" (Treitel et al., 2000).

⁷⁰ Thomason, Schmidle, and Burton (2001, 42-43) provide this discussion of deregulation in the 1990s: "After the initial moves



Sources: Benefit/Cost is 100 X Total Benefits per \$1 Employer Cost in Table 15. Incurred Loss Ratio is in Table 1 of Brandenburg et al. 2017: *The Impact of Investment Income on Workers' Compensation Underwriting Results*. Updates to the date were provided by Aaron Brandenburg in 2021.

* Employer costs data in years prior to 1999 is not directly comparable to data for the years 1999-2020 due to the change in estimates of assessments.

The steep declines in the benefits to cost ratio and the ILR over that period—to near-record lows and record lows, respectively—reflect changes in the economy and workers' compensation statutes that have made the industry more profitable. 71

to deregulation in the early 1980s, the introduction of open competition slowed in the balance of the 1980s... Deregulation reemerged with vigor during the 1990s: open competition statutes became effective in 16 states between 1991 and January 1, 1995, and in an additional five states after that date. Deregulation in some of those states – especially those that adopted open compensation in the early 1990s when the industry was still experiencing losses – reflected support from the insurance industry, but deregulation in other states (most notably California [in 1995]...) was generally resisted by the industry."

⁷¹ The most comprehensive measure of underwriting results is the overall operating ratio (OOR), which is calculated as: total insurance company expenditures minus investment income divided by net premiums paid by employers in a given year. As discussed in Brandenburg et al. (2017), the lower the OOR, the more profitable the workers' compensation insurance industry. In 2011, the last year in which the industry experienced net losses, the OOR was 1.004 (\$100.40 per \$100 of net premiums), while in 2020 it was .779. The 2020 OOR represents a slight increase from its low point of .746 in 2018, and the second consecutive yearly increase. The decade-long decline in the OOR from 1.004 in 2011 to .779 in 2020 represents a substantial improvement in underwriting results. Indeed, each of the last four years is one of the four best underwriting results for the WC industry since the National Association of Insurance Commissioners' data series began in 1976.

Estimates of Employer Costs from Other Sources⁷²

The Academy's estimates compared to Bureau of Labor Statistics (BLS) estimates.

The BLS publishes a quarterly report on Employer Costs for Employee Compensation (DOL, 2020). Estimates are derived from a representative sample of establishments in the private sector, state and local governments. Costs are reported for five benefit categories (paid leave, supplemented pay, insurance, retirement and savings, and legally required benefits) per employee hour worked. Workers' compensation benefits are included within the legally required benefits category. The purpose of the BLS report is to provide average estimates of employer costs per hour worked, inclusive of wages, salaries, and employee benefits.⁷³

The purpose of the Academy's report is quite different. The BLS collects data on a broad range of employee benefits, while this Academy report focuses on workers' compensation. The Academy seeks to provide summary data on workers' compensation benefits paid to workers and costs borne by employers at the state and national levels. Our estimates of \$58.9 billion in benefits paid and \$93.0 billion in costs borne by employers in 2020 are the only data that answer questions about aggregate benefits and costs of workers' compensation in the United States.

The Academy's estimates compared to Oregon Rate Ranking estimates.

The Oregon Workers' Compensation Rate Ranking study (Oregon Department of Consumer and Business Services, 2021) also provides estimates of employer costs for workers' compensation. The study, conducted on a biennial basis by the state of Oregon, compares workers' compensation premium rates across states for a standardized set of occupational classifications. The standardization is designed to factor out differences in hazard mix (riskiness of industries) across states to provide a measure of interstate differences in costs for comparable risk distributions. The standardized rates are based on the Oregon mix of insurance classifications; hence the rankings might be somewhat different if they were standardized based on another state. (See the table in Appendix E.)

When comparing results of the Oregon study with our results, readers should be aware of differences in methodology. Interstate differences in employer costs that appear in the Academy data are influenced in part by the different risk profiles presented by each state's economy, as well as by variations in self-insurance across states. The Oregon study reports rates for a constant set of risk classifications across states and does not include self-insured employers.⁷⁴

Costs to Workers

In some states, a portion of the costs of workers' compensation are directly paid by workers, as discussed in more detail in Appendix C. In Washington, for example, workers contribute directly to the insurance premiums for workers' compensation through payroll deductions. In 2020, about 22.0 percent of the total costs of workers' compensation in Washington were paid directly by workers.⁷⁵ In some states, workers pay a portion of the costs for special workers' compensation funds. In Oregon, for example, workers pay into the Workers' Benefit Fund, which funds a benefit adjustment fund for long-term cases (PTD and death benefits) and return-to-work programs. New Mexico has a quarterly workers' compensation assessment for each employee that goes toward funding the Workers' Compensation Administration of New Mexico.⁷⁶ In terms of magnitude, the Washington assessments are by far the largest, making up 22.5 percent of total costs in 2020 compared to 1.4 percent and 3.4

⁷² The Association of Workers' Compensation Boards of Canada (AWCBC) produces the most analogous report of its Key Statistical Measures (KSMs) for workers' compensation programs in Canada. See: https://awcbc.org/en/statistics/#KSM.

⁷³ Burton (2015) uses data from the BLS survey to calculate employer costs for workers' compensation per \$100 of covered payroll and compares it with the Academy's national estimates. This series is derived from different methods of data collection compared to the Academy.

⁷⁴ Burton (2013) and Manley (2013) provide more extended discussions of the differences between the measures of employer costs from the Academy and Oregon studies.

⁷⁵ Employees contributed 26.6 percent of state fund premiums, accounting for 19.4 percent of total costs in the state. Employees also paid half of the cost-of-living adjustment premium for self-insurers in 2020, which accounted for 10.1 percent of self-insured work-ers' compensation costs and 2.6 percent of total costs.

⁷⁶ See footnote a to Table 14 for details about New Mexico's assessment.

percent for the New Mexico and Oregon assessments, respectively. Data in this report primarily covers the employer-paid portion of workers' compensation, but New Mexico, Oregon, and Washington explicitly require employee contributions and are thus included in our estimates.⁷⁷

In addition, workers bear considerable costs that are outside the workers' compensation system, such as the portion of lost wages that are not replaced by workers' compensation benefits. Most workers' compensation statutes provide for weekly benefits that are two-thirds of pre-injury wages. However, the statutes also include weekly maximum and minimum benefit amounts such that the mean replacement rate is less than the two-thirds nominal replacement rate.⁷⁸ In addition, many states impose limits on the duration of permanent partial disability benefits (so that benefits may cease while workers are still experiencing lost earnings from a workplace injury or illness). The limits on duration further reduce the real replacement rate of cash benefits.⁷⁹

Studies comparing lost earnings with workers' compensation benefits show that the proportion of lost earnings replaced by workers' compensation benefits is smaller than can be explained by statutory provisions purportedly making it more difficult to claim benefits for a host of substantive and procedural reasons. This suggests that conclusions drawn only from statutory provisions overestimate the extent of workers' injury-related lost earnings replaced by workers' compensation benefits (see footnotes 52, 78, and 79).

Workers also bear costs in the form of waiting periods. A waiting period is the time a worker must wait after experiencing a work-related injury before they can begin collecting cash benefits. All but three states (Hawaii, Rhode Island, and Oklahoma) have provisions to pay retroactive benefits to cover the waiting period for more serious (longer duration) lost-time injuries. In most states the retroactive period is between seven and 21 days (one to three weeks), but Alaska and New Mexico require workers to wait 28 days, and Nebraska's retroactive period is 42 days (see Appendix Table D). Waiting periods may result in lost wages or partial wage replacement if either 1) a worker is injured for fewer days than the waiting period and, thus, does not qualify for cash benefits, or 2) a worker is out of work for more days than the waiting period, but fewer days than the retroactive period. In these cases, the uncompensated time loss attributable to the waiting period constitutes a cost to the worker. The financial costs of uncompensated waiting periods are not routinely tracked or reported by individual states, however, and are therefore extremely difficult to collect and tabulate.

Some injured workers may incur costs because they have income that is not covered by workers' compensation at all. For example, workers holding multiple jobs may not be compensated for lost earnings from a second or subsequent job. Many states also have rules excluding certain types of income (e.g., overtime or shift differentials) from coverage. Other costs to workers may include losses of fringe benefits that occur during periods of injury-related work absence; loss of ability to contribute with housework/family care attributable to a work-related injury or illness; and loss of employer contributions to health insurance premiums (unless the worker is also on leave under the Family and Medical Leave Act, or the employer's insurance plan allows continued participation during periods of injury-related work absence). Refer to Leigh and Marcin (2012) for estimates of how the costs of work-related injuries are allocated among insurers, government payers, and injured workers.

Disputed claims are responsible for significant costs to injured workers (and employers). Workers often hire attorneys to represent them in claims disputes, whose fees can reduce the cash benefit received by 20 percent of more.

⁷⁷ See Appendix C for details on these programs. As mentioned in footnote 16, although workers in New Mexico, Oregon, and Washington are unique in that they observe a direct payroll reduction, all workers covered by workers' compensation "pay" for some portion of benefits and administration in the form of lower wages.

⁷⁸ A study assessing ten-year losses and replacement rates in five states find that rates were far below the two-thirds ideal, ranging from a high of 46% in New Mexico to a low of just 29% in Wisconsin, with the other three states, California (37%), Washington (41%), and Oregon (42%) in between (Reville et al., (2001).

⁷⁹ Seabury et al. (2014) estimated earnings losses for New Mexico workers' compensation claimants injured from 1994-2000. On average, workers lost 15% of earnings in the ten years after injury; workers' compensation replaced 16% of earnings losses for the average worker.

Table 16Fatal Occupational Injuries, 2000-2020

	Nu	mber of Fatal Injuries	Fata	l Injury Incidence Rates
Year	All	Wage & Salary Workers	All	Wage & Salary Workers
2000	5,915	4,731	4.3	3.7
2001 ^a	5,900	4,770	4.3	3.8
2002	5,534	4,481	4.0	3.5
2003	5,575	4,405	4.0	3.4
2004	5,764	4,587	4.1	3.5
2005	5,734	4,592	4.0	3.5
2006	5,840	4,808	4.2	3.6
2007 ^b	5,657	4,613	4.0	3.5
2008	5,214	4,183	3.7	3.2
2009	4,551	3,448	3.5	2.8
2010	4,690	3,651	3.6	3.0
2011	4,693	3,642	3.5	2.9
2012	4,628	3,571	3.4	2.8
2013	4,585	3,635	3.3	2.8
2014	4,821	3,728	3.4	2.8
2015	4,836	3,751	3.4	2.8
2016	5,190	4,098	3.6	3.0
2017	5,147	4,069	3.5	2.9
2018	5,250	4,178	3.5	2.9
2019	5,333	4,240	3.5	2.9
2020	4,764	3,864	3.4	2.9

Note. Wage & Salary workers includes individuals employed in private industry or government, but excludes individuals who are self-employed.

- a 2001 totals exclude fatalities from the September 11 terrorist attacks.
- b Prior to 2007, fatal injury rates represented the number of fatal occupational injuries per 100,000 employed workers. These rates measure the risk of fatal injury for those employed during a given period of time, regardless of hours worked. Starting in 2007, the BLS adopted a new methodology to calculate fatal injury rates based on the number of hours worked. Hours-based rates measure fatal injury risk based on the average employment and average hours worked during a given period of time. Specifically, the formula takes the total number of fatal injuries and divides it by the total number of hours worked. This figure is then multiplied by 200,000,000, the number of hours worked per year by 100,000 full-time workers with two weeks of leave. Hours-based fatal injury rates are considered more accurate and should not be directly compared to employment-based rates.

Source: U.S. Department of Labor (2021a).

Insured employers are represented by their insurance carrier in legal proceedings, although there are also unreimbursed costs to employers, such as reduced productivity related to injured workers' disability and the cost of time off work for managers and other witnesses to participate in hearings. Finally, a large portion of costs borne by workers are for work-related injuries and illnesses that never result in a successful workers' compensation claim. Occupational illnesses in particular are frequently uncompensated (see, e.g., Boden and Ozonoff, 2008; Fan et al., 2006; Rosenman et al., 2006; and Spieler, 2017).

Incidence of Workplace Injuries and Workers' Compensation Claims

Incidence of Work-Related Injuries

Fatal injuries. The BLS collects information for the National Census of Fatal Occupational Injuries on work-related injuries that result in a worker's death (DOL, 2021a). In 2020, there were 4,764 work-related fatalities, the lowest number since 2013, and a 10.7 percent decline from 2019 (Table 16). Controlling for employment, the fatality rate was also lower than in 2019, down 0.1 fatal occupational injuries per 100,000 employed workers to 3.4; just above the 20-year low of 3.3. Over the 20-year period from 2000-2020, total workplace fatalities declined by 19.5 percent, and the fatality rate declined by 20.9 percent.⁸⁰

As in the past, the leading cause of work-related fatalities in 2019 was transportation incidents, which accounted for over one third (37.3%) of all fatal injuries. Other leading causes of fatalities were: falls, slips, and trips (16.9%); contact with objects and equipment (15.0%); and violence and other injuries by persons or animals (14.8%). Within these broad categories, the subcategories that were the most common causes of workplace fatalities in 2020 were "roadway incidents involving motorized land vehicle" (21.8%), "intentional injury by person" (13.7%), "falls to lower level" (13.5%), "struck by object or equipment" (9.8%), and "exposure to other harmful substances" (9.4%). The Department of Labor provides more detail within each of these subcategories (DOL, 2021a).

Nonfatal injuries and illnesses. The BLS also collects information on reported nonfatal work-related injuries or illnesses from a sample survey of employers (Survey of Occupational Injuries and Illnesses, or the SOII). This is of special interest for 2020 to the degree that the survey captures COVID-19 cases. Specifically, the SOII results indicate that "total reported illness cases more than quadrupled to 544,600 cases, up from 127,200 cases in 2019" (DOL, 2021b). More broadly, the survey reported 2.65 million nonfatal workplace injuries and illnesses in private industry workplaces in 2020, almost half (1.18 million) of which involved days away from work (DOL 2021b). While the number of nonfatal workplace injuries and illnesses declined compared to 2019, the number of cases involving days away from work rose by 25 percent (Table 17).

The annual workplace fatality rate declined by about 20.9 percent between 2000 and 2020.

The incidence rate of reported injuries per 100 fulltime equivalent (FTE) workers controls for changes in employment levels to better measure trends in the injury rate. The rate of injury was 2.7 per 100 FTE in 2020 (Table 17). This continues the consistent, two-decade decline in the incidence of all reported nonfatal occupational injuries and illnesses, in spite of the pandemic. Between 2000 and 2020, the rate fell by more than half (55.7%), from 6.1 per 100 FTE workers, to 2.7 per 100 in 2020. And since 2002, after the Occupational Safety and Health Administration (OSHA) changed recordkeeping requirements, the incidence rate per 100 FTE workers has decreased 49.1 percent.⁸¹

The reader is cautioned that injury rates reported to the Bureau of Labor Statistics or extrapolated from workers' compensation claims data may not be wholly accurate because key stakeholders have incentives

⁸⁰ Prior to 2007, BLS fatal injury rates represented the number of fatal occupational injuries per 100,000 employed workers. Since then, the incidence rate accounts for the total number of hours worked by all employees during the calendar year. Incidence rates are reported on a full-time equivalent basis (one FTE worker is defined as 2,000 hours worked per year). Rates before and after 2007 are therefore not strictly comparable, and the 20.9 percent reduction is an approximation.

⁸¹ The break in the trend lines in 2002 represents a change in OSHA recordkeeping requirements in that year, indicating that the data before and after 2002 may not be strictly comparable.

Table 17

		Number of Cas (millions)	es		Incidence Ra (per 100 full-time v	
Year	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
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*	4.7	1.4	1.1	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
2009	3.3	1.0	0.7	3.6	1.1	0.8
2010	3.1	0.9	0.7	3.5	1.1	0.8
2011	3.0	0.9	0.6	3.4	1.0	0.7
2012	3.0	0.9	0.7	3.4	1.0	0.7
2013	3.0	0.9	0.7	3.3	1.0	0.7
2014	3.0	0.9	0.7	3.2	1.0	0.7
2015	2.9	0.9	0.7	3.0	0.9	0.7
2016	2.9	0.9	0.7	2.9	0.9	0.7
2017	2.8	0.9	0.7	2.8	0.9	0.7
2018	2.8	0.9	0.7	2.8	0.9	0.7
2019	2.8	0.9	0.7	2.8	0.9	0.7
2020	2.7	1.2	0.5	2.7	1.2	0.5

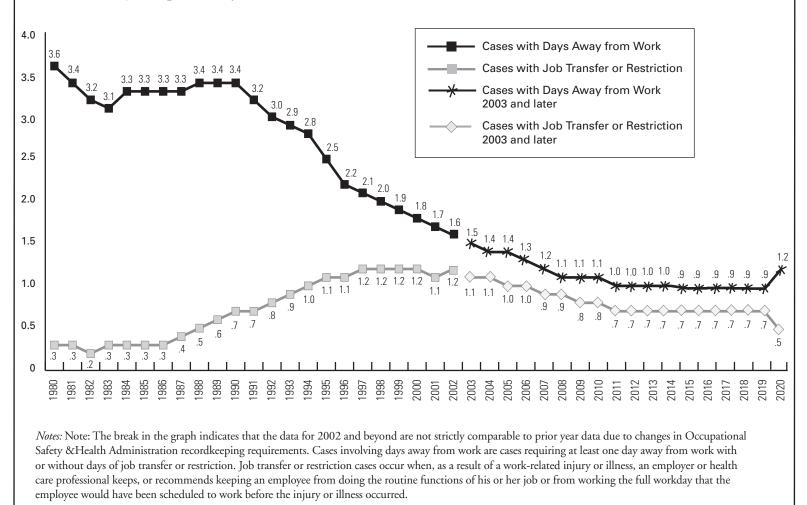
Non-Fatal Occupational Injuries and Illnesses Among Private Industry Employers, 2000-2020

Note: Data for 2002 and beyond are not strictly comparable to data from prior years because of changes in OSHA recordkeeping requirements.

Source: U.S. Department of Labor (2021b).

Figure 6

Private Industry Occupational Injuries and Illnesses: Incidence Rates, 1980-2020



Source: U.S. Department of Labor (2021b).

to under-report or over-report occupational injuries and illnesses.⁸² There is also evidence that changes in workers' compensation laws and procedures since 1990 have made it more difficult for workers to file claims, resulting in reductions in reported injury and claim rates (Ruser and Boden 2003, Guo and Burton 2010).

There are many reasons to suspect under-reporting of workplace injuries—especially those that might qualify for a workers' compensation claim—on the part of workers, employers, and/or medical providers. Workers may not report injuries for one or more of several reasons: they do not know that the injury is covered by workers' compensation; they believe that filing for benefits would be too timeconsuming, difficult, or stressful; they believe that the injury is something to be expected as part of their job; or they fear employer retaliation (Galizzi et al., 2010; Pransky et al., 1999; Strunin and Boden, 2004). Employers may fail to report injuries because: their recordkeeping is faulty; they want to maintain a superior safety record to protect their experience rating; or they are unaware that an injury is covered by workers' compensation (Azaroff et al., 2002; Lashuay and Harrison, 2006; and Wuellner and Phipps,

⁸² See Azaroff et al. (2002), Spieler and Burton (2012), and OSHA (2015) for reviews of studies on the reporting of work-related injuries and illnesses.

2018). Medical providers may fail to report injuries and illnesses that take time to develop, such as carpal tunnel syndrome, noise-induced hearing loss, and lung diseases like silicosis, because they are unaware of the workplace connection.⁸³

There are also incentives for workers and/or medical providers to over-report injuries or illnesses as workrelated. The 100 percent coverage of medical costs under workers' compensation creates incentives for both groups to identify a work-related cause when the etiology of an injury or illness is uncertain. Workers have incentives to report an injury as work-related because there are no deductibles or copayments for health care. They may also receive more generous cash benefits from workers' compensation than from a private disability plan or state unemployment insurance.

With respect to providers, there is evidence that softtissue conditions are more likely to be classified as work-related in states with higher workers' compensation physician reimbursement rates (Fomenko and Gruber, 2016). The trend towards capitated payment systems in health care also influences medical provider incentives. One study found that an increase in capitation payments under group health plans led to an increase in the number of soft-tissue conditions that were labeled work-related and paid by workers' compensation (Victor et al., 2015).

Injuries involving lost work time or work restrictions. Figure 5 and Table 17 show trends in the incidence of reported work-related injuries and illnesses among private-industry employees for cases involving either days away from work or injuryrelated job accommodations (job transfer or restrictions on work) (DOL, 2021b). These data also come from the BLS employer survey (DOL, 2020a).

Consistent with the long-term decline in incidence of fatal workplace injuries, the incidence of reported injuries or illnesses involving days away from work has also declined, down from 1.8 per 100 FTE workers in 2000 to 1.2 per 100 in 2020. Indeed, 2020 is the first year with a year-over-year increase in incidence rate, rising by 25 percent from 0.9 in 2019 (Table 17 and Figure 5). While the incidence rate of injuries or illnesses involving days away from work has declined steadily since 1999, the incidence of cases resulting in job transfers or work restrictions only began to fall more recently, around 2004-2005. The rate fell from 1.0 in 2005 to 0.7 by 2011, where it stayed steady until 2020, when it reached a new low of 0.5 per 100; a decline of one-half since 2005.

Some of the changes in the 1990s, when the incidence of reported injuries involving work absence was decreasing while the incidence of transfers/work restrictions was increasing, may reflect a greater focus on employer accommodations that enable injured workers to return to modified work until they are fully recovered and able to return to their pre-injury jobs. The declining incidence rate of cases with job transfer or restriction in recent years is not necessarily indicative of less focus on employer accommodations, because the overall incidence rate of cases with any days away from work is also declining. In fact, over time, the proportion of cases with job transfers or restrictions is rising as a share of total cases with either days away from work or with a job transfer or restriction. This suggests that workers today are more likely than they were in the past to benefit from employer accommodations.

In 2020, the most common reported nonfatal workplace injury and illness that resulted in days away from work in private industry was characterized as "other diseases due to viruses, not elsewhere classified" by the BLS, and served as a proxy for COVID-19 cases.⁸⁴ The SOII reported 390,020 cases under this category, or 33.2 percent of all cases with days away from work in 2020. A median of 13 days of work were missed for each of these cases. Among all private industry in 2020, 0.4 per 100 FTE, missed at least one day of work with COVID-19. This rate was nearly five-times higher in the health care and social assistance industry at 1.96 per 100 FTE. The other injuries that most commonly

⁸³ Studies have typically shown much less reporting of these types of conditions as work-related as is suggested by their prevalence in medical data (Stanbury et al., 1995; Biddle et al., 1998; Morse et al., 1998; Milton et al., 1998; DOL, 2008). According to a GAO report, some health care providers say that they have been pressured to provide less treatment than they believe is warranted in order to avoid the need to report an injury or illness as work-related (GAO, 2009).

⁸⁴ The BLS state "Estimates for this code are suppressed for most years due to low case counts that did not meet publication criteria. Therefore, calendar year 2020 estimates for Nature code 3299 directly reflect employer-reported COVID-19 cases that resulted in a day away from work" (DOL, 2022b).

resulted in days away from work in 2020 were: sprains, strains, and tears (22.7% of the total); soreness or pain (12.8%); and fractures (6.3%) (DOL, 2021b).

The major industry sectors with the highest incidence of injuries and illnesses involving days away from work in private industry were: health care and social assistance (3.0 per 100 FTE); transportation and warehousing (1.9 per 100 FTE); agriculture, forestry, fishing, and hunting (1.9); retail trade (1.1) and manufacturing (1.1). In terms of total number of cases with days away from work, the health care and social assistance industry had more than triple any other industry with 447,890. Manufacturing (135,900) and retail trade (125,560) had the second and third highest number of cases with days away from work, respectively (DOL, 2021b). Under the COVID-19-proxy category, 288,890 cases resulted in days away from work in the health care and social assistance industry-64.5 percent of the industry's total.

Incidence of Workers' Compensation Claims

The National Council on Compensation Insurance collects information on the number of workers' compensation claims paid by private carriers in 38 states (NCCI, 2022a).⁸⁵ The data, replicated in Table 18 for years 1998-2018 (the most recent year reported), show declining trends in the incidence (or frequency) of claims, in keeping with the declining trends in the incidence of work-related injuries reported by the BLS prior to 2020.

According to the NCCI data, the number of workers' compensation claims accepted by private insurers and certain competitive state funds declined by 56.8 percent between 1998 and 2018. The NCCI data indicate that the number of temporary total disability claims accepted declined by 54.1 percent between 1998 and 2018 (Tables 17 & 18).⁸⁶

Addendum

Alternative, Additional and Other Disability Benefits for Disabled Workers

The primary purpose of this report is to describe trends in workers' compensation benefits, costs, and coverage with respect to two key stakeholder groups: the injured workers who receive benefits (and in three states pay part of the costs of the program), and the employers who pay for most of the costs. As the exclusive remedy for work-related injury and death, workers' compensation is often the only insurance to compensate for lost wages or earning capacity and medical or rehabilitation expenses.

However, workers' compensation cash and medical benefits can be supplemented by other sources of income and medical care. Disability plans for injured workers may provide financial compensation, coverage for medical expenses, and other benefits to workers as well as to their dependents, and survivors.

The following section presents some of the alternative and additional benefits that may be available to injured workers and their families. Unless otherwise noted, the employer costs and worker benefits of these programs are not reflected in the main body of this report. The extent to which any of these benefits replace workers' compensation or provide additional coverage that may be stacked on, integrated into, or coordinated with workers' compensation varies greatly, as does the extent to which choosing one program over another shifts costs to or from one

⁸⁵ NCCI measures the frequency of lost time claims for injuries occurring in the accident year per \$1 million of earned premium in that year, adjusted by state for changes in average weekly wages.

⁸⁶ While the trends in private-sector injury or illness claims from the BLS and NCCI are similar over time, there are a number of reasons why they may differ. First, there are discrepancies in the classification of claims. In workers' compensation, there is generally a three-to-seven-day waiting period before a claim is recorded (and would be reported in NCCI data), whereas any case in which a worker misses at least one day away from work is classified as a "days away from work" (DAFW) case by OSHA and is reflected as such in BLS published data (Wiatrowski, 2014). Second, the BLS and NCCI over different jurisdictions – the BLS covers OSH recordable injuries and illnesses across the entire U.S., whereas NCCI only records workers' compensation claims for private insurers and competitive state funds in 38 jurisdictions. And even in these jurisdictions, NCCI does not record any workers' compensation claims that occurred at self-insured firms. Third, there is evidence that some employers do not comply with OSH recordkeeping or Survey of Occupational Injuries and Illness reporting instructions, leading to underreporting of workers' compensation-eligible claims in BLS data (Rappin et al., 2016).

Table 18

Workers' Compensation Claims Per 100,000 Insured Workers: Private Carriers in 38 Jurisdictions, 1998-2018

Policy Period	Total	Medical Only (MO)	MO as Percent of Total	Temporary Total (TTD)	TTD as Percent of Total	Permanent Partial (PPD)	PPD as Percent of Total
1998	6,474	5,035	77.8%	977	15.1%	452	7.0%
1999	6,446	5,047	78.3%	927	14.4%	461	7.2%
2000	6,003	4,685	78.0%	870	14.5%	437	7.3%
2001	5,510	4,277	77.6%	799	14.5%	423	7.7%
2002	5,239	4,036	77.0%	770	14.7%	422	8.1%
2003	4,901	3,747	76.5%	725	14.8%	423	8.6%
2004	4,728	3,635	76.9%	702	14.8%	385	8.1%
2005	4,571	3,514	76.9%	667	14.6%	383	8.4%
2006	4,376	3,351	76.6%	638	14.6%	381	8.7%
2007	4,076	3,107	76.2%	587	14.4%	375	9.2%
2008	3,615	2,730	75.5%	515	14.2%	363	10.0%
2009	3,452	2,659	77.0%	521	15.1%	357	10.3%
2010	3,492	2,621	75.1%	509	14.6%	358	10.3%
2011	3,412	2,566	75.2%	504	14.8%	338	9.9%
2012	3,277	2,464	75.2%	486	14.8%	321	9.8%
2013	3,208	2,405	75.0%	484	15.1%	315	9.8%
2014	3,083	2,313	75.0%	470	15.2%	296	9.6%
2015	2,951	2,220	75.2%	454	15.4%	273	9.3%
2016	2,874	2,164	75.3%	458	15.9%	247	8.6%
2017	2,871	2,162	75.3%	464	16.2%	242	8.4%
2018	2,796	2,106	75.3%	448	16.0%	238	8.5%
Percent change, 1998-2018	-56.8	-58.2		-54.1		-47.3	

Source: National Council of Compensation Insurance, 1997-2022, Exhibit XII, Annual Statistical Bulletin. The most recent data available is 2018.

or more parties. Full descriptions and analysis of these programs are beyond the scope of this report.

This addendum describes the major disability support programs that interact with workers' compensation, namely: temporary sick leave, shortand long-term disability benefits, Social Security Disability Insurance, and Medicare & Medicaid.

Alternative Disability Plans

Paid Sick Leave. Paid sick leave is a common form of wage replacement for short-term absences from work due to illnesses or injuries unrelated to work. 75 percent of all private-sector employees had access to some type of paid sick leave in 2020, provided either through their employer or a private short-term disability plan (DOL, 2020a). Sick leave typically pays 100 percent of wages for a number of days, depending on the worker's job tenure and hours worked. Unlike workers' compensation, paid sick leave provided by the employer or an employer-funded disability insurance plan is a taxable benefit and does not cover medical or rehabilitation expenses.

Paid sick leave may sometimes be utilized to cover work absences and resulting lost earnings associated with minor work-related injuries or during the waiting period (three to seven days) of their workers' compensation disability claims. Compared to filing a claim for workers' compensation temporary disability benefits, sick leave is administratively much easier for workers to access and employers to administer. For employers, the workers' compensation option has reporting requirements and may carry negative impacts on premium rates for workers' compensation. For workers, the decision to report and pursue a workers' compensation claim involves a lower wage replacement rate and a minimum three-day wage penalty (unless there is a provision to use paid sick leave).87 Although these factors may provide incentives for employers and injured workers to rely on paid sick leave rather than workers' compensation for wage replacements, evidence of cost-shifting is limited. One limitation of paid sick leave is that it applies to lost earnings.

Short-term disability benefits. Nine jurisdictions (California, Connecticut, Hawaii, Massachusetts, New Jersey, New York, Puerto Rico, Rhode Island, Washington, and Washington, D.C) have Temporary Disability Insurance (TDI) programs, also known as State Disability Insurance (SDI) or paid medical and family leave, that provide short- to medium-term disability benefits for employees (Ernst & Young). Another two (Colorado and Oregon) have passed legislation establishing programs but have not initiated the actual funding or payment of benefits (Williams, 2021; Dickinson & Rinehart, 2021; Oregon Employment Dept, 2021.). In these jurisdictions, SDI is a statutory program that provides partial wage replacement for workers taking time off to recover from a non-work-related injury or illness, or from pregnancy (Glynn et al, 2017).

Some private employers offer short-term disability insurance to their workers even in states in which such insurance is not required. Short term disability is available to approximately 42 percent of private industry workers (DOL, 2020a). Employers pay the full cost of the short-term disability insurance in most cases, but about 15 percent of workers with short-term disability plans are required to contribute to the plan. Typically, workers must have a specified amount of past employment or earnings to qualify for benefits, and benefits replace about half of the worker's prior earnings. In general, workers receiving workers' compensation benefits are not eligible to simultaneously receive these types of short-term disability benefits.

There are also state and municipal short-term disability benefit programs for public employees (particularly for police and firefighters) that coordinate with workers' compensation programs.

Short-term disability (STD) plans typically pay a lower proportion of average earnings (40 to 60 percent vs. two-thirds of gross wages or 80% of spendable earnings that are typical in workers' compensation), but STD benefits are not limited by a statutory maximum weekly benefit but rather by the provisions of the STD policy. The proportion of benefits supported by employer contributions are taxable (i.e., benefits from temporary disability plans

⁸⁷ Workers' compensation typically replaces two-thirds of a worker's pre-injury wages before tax up to a maximum, but these benefits are not taxed. A useful wage-replacement comparison is workers' compensation benefits and post-tax wages.

Table 19

Dual Eligible Individuals: Social Security Disability Insurance (SSDI) Beneficiaries with Workers' Compensation (WC) or Public Disability Benefits (PDB), 2020

	То	tal	Wor	kers	Depen	dents
Type of Case	Number	Percent	Number	Percent	Number	Percent
All Disability Insurance Beneficiaries	9,618,387	100.0	8,151,016	100.0	1,467,371	100.0
Total Dual Eligibles	995,191	10.3	836,770	10.3	158,421	10.8
Currently Receiving SSDI and WC or PDB	486,283	5.1	410,839	5.0	75,444	5.1
SSDI Reduced by Cap	75,238	0.8	58,489	0.7	16,749	1.1
SSDI Not Reduced by Cap	321,243	3.3	275,379	3.4	45,864	3.1
Reverse Jurisdiction	36,530	0.4	30,833	0.4	5,697	0.4
Pending Decision on WC or PDB	53,272	0.6	46,138	0.6	7,134	0.5
SSDI Previously Offset by WC or PDI	3 508,908	5.3	425,931	5.2	82,977	5.7

Notes: Social Security disability benefits are offset against workers' compensation and certain other public disability benefits (PDB) in most states. In general, PDBs refer to disability benefits earned in state, local, or federal government employment that are not covered by Social Security. There are 15 states with reverse offset laws where SSDI is the first payer for some or all types of workers' compensation benefits. The states are Alaska, California, Colorado, Florida, Louisiana, Minnesota, Montana, Nevada, New Jersey, New York, North Dakota, Ohio, Oregon, Washington, and Wisconsin. California's reverse offset laws only apply to workers' compensation benefits paid through the Subsequent Injuries' Fund and Industrial Disability Leave. SSDI previously offset by WC or PDB consists of the entire universe of beneficiaries who are currently receiving SSDI benefits that at one point had their SSDI benefits offset by WC or PDB, but no longer do.

Source: Social Security Administration, Master Beneficiary Record, 100 percent data, and Social Security Administration Workers' Compensation and Public Disability Benefit file, 100 percent data (SSA, 2022).

fully paid for by the employer are fully taxable). Benefits from STD plans fully paid for by the employee with pre-tax dollars are also fully taxable in most states,⁸⁸ while benefits from group STD plans paid for by the employee with post-tax dollars and individually purchased STD plans are not taxable. The degree to which STD plans may be coordinated with workers' compensation is typically defined by the individual policy.

Long-term disability insurance. Long-term disability (LTD) insurance plans were offered to 34 percent of private-sector employees in 2020 (DOL, 2020a). Such coverage is most common among relatively high paying management, professional, and related

occupations. About 59 percent of workers in management and professional-related occupations had access to long-term disability plans as of 2020, compared to 32 percent of workers in sales and office occupations and 13 percent of workers in service occupations (DOL, 2020a). LTD insurance may be a fully employer paid insurance, group insurance fully paid by workers, or a shared cost. Long-term disability insurance is also sold in individual policies, typically to high-earning professionals. Individual policies are not included in the coverage statistics reported to the DOL.

Long-term disability benefits are usually paid after a waiting period of three to six months or after short-

⁸⁸ In California, for example, the state disability insurance program is paid for with pre-tax dollars, and benefits are not taxable except in cases involving overlap with unemployment insurance benefits (California Employment Development Department, 2022).

term disability benefits end. Long-term disability insurance is generally designed to replace 60 percent of earnings, although replacement rates of 50 or 66 percent are also common. Almost all long-term disability insurance is coordinated with Social Security Disability Insurance (SSDI) and workers' compensation. That is, private long-term disability benefits are reduced dollar-for-dollar by the amount of Social Security or workers' compensation benefits received. If Social Security benefits replace 40 percent of a worker's prior earnings, for example, a long-term disability benefit that replaces 60 percent of earnings would pay the balance (20%) to achieve a 60 percent wage replacement. The taxation status of LTD plans mirrors those of the STD plans described above. The Social Security benefit formula is progressive, meaning it replaces a larger share of lower income workers. Given the Social Security offset provision, this will make LTD less attractive to lower-wage workers (CBO, 2019).

Retirement benefits. Retirement benefits may also be available to workers who become disabled because of a work-related injury or illness. Retirement plans are funded by employee and employer contributions. They provide income based on either tenure, seniority, or salary at the time of retirement (Defined Benefit) or investment performance (Defined Contribution). Most defined-benefit pension plans have some disability provision; in these cases, benefits may be available at the time of disability or may continue to accrue until retirement age. Definedcontribution pension plans will often make funds in an employee's account available without penalty if the worker becomes disabled, but these plans do not have the insurance features of defined-benefit pensions or disability insurance.

Federal disability programs. Social Security Disability Insurance (SSDI) and Medicare & Medicaid provide cash and medical benefits, respectively, to workers who become disabled and unable to work prior to normal retirement age. These programs are funded by employee and employer contributions based on a percentage of earned income. SSDI benefits are available to workers with disabilities whether or not the disability results from a work-related injury, but the eligibility rules for SSDI differ from the rules for workers' compensation. For a small proportion of workers who are ineligible or excluded from workers' compensation coverage - those who are selfemployed or who are classified as independent contractors or "gig" workers, and workers in Texas and Wyoming whose employers choose not to cover them - SSDI effectively serves this role. However, this is true only for workers deemed by SSA to be totally and permanently disabled. SSDI benefits are taxable federally if the recipient's income exceeds a threshold amount (\$25,000 single. \$32,000 married joint filing). Most states do not tax SSDI, but 13 states (Colorado, Connecticut, Kansas, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Dakota, Rhode Island, Utah, Vermont, and West Virginia) tax SSDI benefits to varying degrees (Depersio, 2021).

Workers are eligible for workers' compensation benefits from their first day of employment, while eligibility for SSDI requires workers to have a history of contributions to the Social Security system.⁸⁹

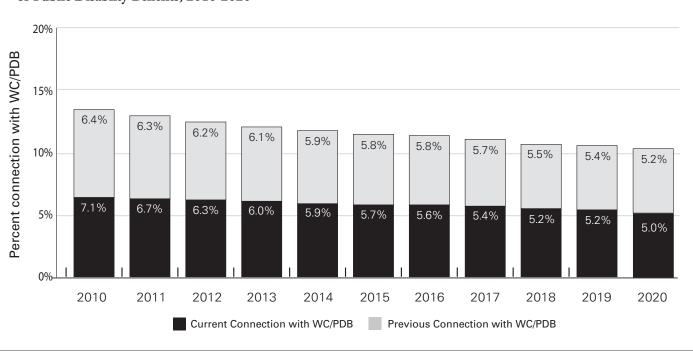
Workers' compensation cash benefits for temporary disability commence immediately following the injury and applicable three-to-seven-day waiting period (waiting periods are typically compensated for claims with durations that exceed a "retroactive period" of five to forty-one days), while SSDI benefits begin only after a five-month waiting period. Workers' compensation provides benefits for both short- and long-term disabilities and for partial as well as total disabilities. SSDI benefits are paid only to workers who have long-term impairments that preclude gainful employment that is suitable for the worker by virtue of his or her training and expertise.

Medicare pays health care costs for persons who receive SSDI benefits after an additional 24-month waiting period (or 29 months after the onset of disability). (Medicaid may pay workers if their income and assets meet requirements.) Medicare covers all medical conditions, but as described below, when the primary disability is work-related, workers' compensation is the required benefit provider.

Workers' compensation and SSDI dual beneficiaries. According to the Medicare Secondary Payer Act,

⁸⁹ To qualify for SSDI, individuals must meet two different earnings tests: 1) a recent work test, based on age at the time of disability; and 2) a duration of work test. Generally, workers must have earned at least 20 work credits in the ten years immediately before becoming disabled, although younger workers may qualify with fewer credits.

Figure 7



Proportion of Worker SSDI Beneficiaries with Connection to Workers' Compensation or Public Disabilty Benefits, 2010-2020

workers' compensation is the primary payer for illnesses and injuries covered under workers' compensation laws. Medicare is the secondary payer for medical costs after the workers' compensation payer's obligation is met.⁹⁰

If a worker becomes eligible for both SSDI and workers' compensation cash benefits, one or both programs will reduce benefits to ensure that the payments to beneficiaries do not exceed allowable limits based on the worker's past earnings.⁹¹ The Social Security Amendments of 1965 require that SSDI benefits be reduced (or "offset") such that the combined total of workers' compensation and SSDI benefits does not exceed 80 percent of the worker's prior earnings. The offset provision affects 35 states; 15 states that had established reverse-offset laws prior to the 1965 legislation received exemptions.⁹² In reverse-offset states, workers' compensation benefits are reduced (offset) by SSDI benefits (as opposed to the other way around).

⁹⁰ The interaction between workers' compensation and SSDI is complex. Studies have investigated the impact of changes to workers' compensation programs on SSDI outcomes using aggregate data and found mixed results (e.g. Guo and Burton, 2012; McInerneyand Simon, 2012). While the potential impact and magnitude of changes in workers' compensation on SSDI is unclear, studies using individual-level data have found evidence that work-related injuries are a significant source of disability later in life (e.g., Reville and Schoeni, 2004; O'Leary et al., 2012). Burton and Guo (2016) examine the relationship between SSDI and workers' compensation programs in detail and provide a number of policy options aimed to improve the interaction between the two.

⁹¹ The cap remains at 80 percent of the worker's average 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 SSDI and other public disability benefits 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. The portion of workers' compensation benefits that offset (reduce) SSDI benefits are subject to federal income tax (IRC section 86(d)(3)).

⁹² States with reverse offset laws for some or all types of workers' compensation benefits are: Alaska, California, Colorado, Florida, Louisiana, Minnesota, Montana, Nevada, New Jersey, New York, North Dakota, Ohio, Oregon, Washington, and Wisconsin.

Aspects of Various Disability Policies that Support Injured Workers

Program	Paid by	Pre or post tax dollars	Earnings replacement	Medical Expenses	Commencement/ Duration	Taxation of benefits	Included in NASI Costs and Benefits
Workers' Compensation	Employer	n/a	60% of gross to 85% of Net of pre-injury average earnings	Covered	Immediately following injury or after unwaived waiting period of 3 to 41 days. Typically continues as long as disability lasts.	Not taxable	Yes
Paid Sick Leave	Employer	n/a	100% regular wage or salary	Not covered	Immediately following injury. Typically limited to two weeks or extent of accumulated credits if allowed but practices vary widely	Taxable	No
Short Term Disability (STD)	Employer only	n/a	40-60% regular wage or salary	Not covered	Varies from immediately following absence or immediately following end of paid sick leave or a defined post initial absence period	Taxable	No
Short Term Disability (STD)	Employer Employee	n/a Pre-tax	40-60% regular wage or salary	Not covered	Varies from immediately following absence or immediately following end of paid sick leave or a defined post initial absence period	Taxable	No
Short Term Disability (STD)	Employer Employee	n/a Post-tax	40-60% regular wage or salary	Not covered	Varies from immediately following absence or immediately following end of paid sick leave or a defined post initial absence period	Employer-paid portion and employee-paid portion paid with pre-tax dollars are taxable	No
Long-term disability (LTD)	Similar to STD	Similar to STD	50% - 70% of regular wages	Not covered	Typically commences end of STD and, or depletion of Paid Sick Leave	Employer-paid portion and employee-paid portion paid with pre- tax dollars are taxable	No
State Disability Insurance	Employee Payroll tax	Post-tax dollars	60% - 70% of average earnings in previous 5 to 18 months	Not covered	Date of Injury to a maximum of 52 weeks	Not taxable unless a substitute for Unem- ployment Insurance	No
"Carve-outs" and parallel programs	Employer only	n/a	Typically, equivalent to workers' compensation	Covered	Equivalent to workers' compensation	Not taxable	[Not sure]
Social Security Disability Insurance For workers not covered by Workers' Compensation	Employer and worker or Worker only if self-employee	Pre-tax d	Subject to formula based on age, average earnings, years working, dependents; approx. 25-90% of average earnings	Not covered	Five months post on-set of disability that is going to last more than 12 months; payable to retire- ment age subject to reviews depending on expectation of improvement.	Part of taxable income so total taxable income may be taxed if above exempt thresholds.	No

Source: Terry Bogyo produced this table for the 2020 report. Citations for data points can be found throughout the addendum.

As of December 2020, about 8.2 million workers with disabilities and 1.5 million dependents received SSDI benefits (SSA, 2022). (Table 19) About 486,000 (5.1%) of these individuals were dual beneficiaries of workers' compensation or other public disability benefit (PDB) programs in 2020.⁹³ Of these, about 75,000 persons (0.8% of total beneficiaries; 15.5% of beneficiaries currently receiving SSDI and WC or PDB) had their scheduled SSDI benefits reduced because of the offset provision.

Between 2010 and 2020, the total number of disabled workers receiving SSDI benefits decreased by 0.6 percent. Since the number of SSDI beneficiaries peaked in 2014, there has been a nine percent decline as of 2020. Over the entire period, the proportion of workers with disabilities receiving SSDI benefits with a current connection to WC or other PDB programs fell by 2.2 percentage points to 5.0 percent of all SSDI recipients in 2020. The decline in the proportion of SSDI recipients with a current connection to WC or PDB is due to the large decline in the number of workers with a current connection to WC or PDB—down 29.3 percent over the ten-year period. The proportion of SSDI recipients with a previous connection to WC or PDB also declined between 2010 and 2020 due to an 18.8 percent decrease in the total number of beneficiaries with a previous connection to WC or PDB.

California's reverse offset laws apply only to workers' compensation benefits paid through the Subsequent Injuries Fund and Industrial Disability Leave. In addition, there are reverse offset rules for other types of public disability benefits in Hawaii, Illinois, New Jersey, and New York (SSA, 2018). Legislation in 1981 eliminated states' option to adopt reverse offset laws.

⁹³ In general, PDBs refer to disability benefits earned in state, local, or federal government employment that are not covered by Social Security.

Glossary

Accident Year: The year in which an injury occurred, or the year of onset or manifestation 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.)

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

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**.

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

Coal Mine Health and Safety Act: The Coal Mine Health and Safety Act (Public Law 91-173) 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.

Combined Ratio After Dividends: The combined ratio after policy holder dividends is a measure of the profitability of an insurer. The ratio equals the sum of losses, loss adjustment expenses, underwriting expenses, and dividends to policyholders, divided by net premiums. The ratio is expressed as a percent. (See: Overall Operating Ratio.)

Compromise and Release (C&R) Agreement: An agreement to settle a workers' compensation case. State laws vary as to the nature of these releases, but there are typically three elements to a C&R agreement: 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 fixed amount (commonly called a "lump sum" but which may or may not be paid to the claimant at once); and the release of the employer from further liability. Unless it was "full and final", the release may allow for reopening medical or indemnity payments under specific conditions.

Covered Employment: The Academy's coverage data include jobs in firms that are required to be covered by workers' compensation programs. A more inclusive measure of covered employment would also include jobs in firms that voluntarily elect coverage. A less inclusive measure of covered employment would exclude workers who are legally required to be covered by workers' compensation programs who actually are not covered.

Deductibles: Under deductible policies written by private carriers or state funds, the insurer is responsible for paying all 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.

Defense Base Act: The Defense Base Act (DBA-42 U.S.C. §§ 1651-54) is a federal law extending the Longshore and Harbor Workers' Compensation Act (33 U.S.C. §§ 901-50), passed in 1941 and amended later, to persons: (1) employed by private employers at U.S. defense bases overseas; (2) employed under a public work contract with the United States performed outside the U.S.; (3) employed under a contract with the United States, for work performed outside the U.S. 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.

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

Disability: A loss of functional capacity associated with a health condition.

Experience Rating: An insurance policy is experience rated if insurance premiums reflect the relative risk of loss of the insured. There are two levels of experience rating in workers' compensation. Manual rates (or pure premiums) are developed for each insurance classification (category of work) in a state based on previous benefit payments by all firms operating in that classification. Firm-level experience rating compares an employer's loss experience to the

average losses of other firms in the same insurance classification. An experience modification is developed and applied to the premium of firms which are large enough for the insured's experience to be a reliable indicator of benefit costs in the future.

FECA: The Federal Employees' Compensation Act (FECA) Public Law (103-3 or 5 U.S.C. §§ 8101-52), enacted in 1916, 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 45 U.S.C. § 51 et seq.), enacted in 1908, 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 statebased fund that assumes all or part of the liability for workers' compensation benefits provided to a worker when the employer or insurance carrier legally responsible for those 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. Both types are financed by assessments on insurers or self-insured employers, respectively.

Group Self-Insurance: A special form of self-insurance that is available to groups of employers, which is only available in a little over half of the states. This is similar to a mutual insurance company and, as such, is closely regulated.

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**.

Impairment: An impairment is an anatomical or functional abnormality or loss resulting from an injury or disease. The impairment can be physical or mental.

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. **Jones Act:** The Jones Act is Section 27 of the Merchant Marine Act (P.L. 66-261), passed in 1920, which extends the provision of the Federal Employers' Liability Act to qualifying sailors (individuals assigned to a vessel or fleet that operates in navigable waters, meaning waterways capable of being used for interstate or foreign commerce).

LHWCA: The Longshore and Harbor Workers' Compensation Act (LHWCA 33 U.S.C. §§ 901-50), enacted in 1927, requires employers to provide workers' compensation protection for longshore, harbor, and other maritime workers. See: Defense Base Act (DBA).

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

Losses: A flexible term that can be applied in several ways: Paid benefits, incurred benefits, fully developed benefits, and possibly including incurred but not reported benefits.

Manual Equivalent Premium (MEP): A firm's payroll multiplied by the approved rate for the firm's insurance classification code. The manual equivalent premium represents an employer's costs for workers' compensation without adjustment for schedule rating, deductible credits, or experience rating.

NAIC: The National Association of Insurance Commissioners (NAIC) is the national organization of chief insurance regulators in each state, the District of Columbia, and five U.S. territories. 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 collecting statistical information for pricing workers' compensation coverage in 38 states. For more information, visit **www.ncci.com**.

No-fault: A liability rule that, in workers' compensation, holds the employer fully liable for medical costs and compensation for injury-related work absences, without proof of negligence or culpability. **Overall Operating Ratio:** The combined ratio after dividends minus net investment gain/loss and other income, as a percent of net premium.

OSHA: The OSH Act created the Occupational Safety and Health Administration (OSHA) within the U.S. Department of Labor. OSHA is responsible for promulgating standards, inspecting workplaces for compliance, and prosecuting violations.

OSH Act: The Occupational Safety and Health Act (OSH Act Public Law 91-596) is a federal law enacted in 1970 that establishes and enforces workplace safety and health rules for nearly all private-sector employers.

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

Permanent Partial Disability (PPD): A disability that, although permanent, does not completely limit a person's ability to work. A statutory benefit award is paid for qualifying injuries.

Permanent Total Disability (PTD): A permanent disability that is deemed by law to preclude material levels of employment.

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.

Schedule Rating: A debit and credit plan that recognizes variations in the hazard-causing features of an individual risk.

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. The second injury fund pays costs associated with the prior condition to encourage employers to hire injured workers who want to return to work.

Self-insurance: Self-insurance is a state-regulated 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, which 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): 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.

U.S. Census County Business Patterns (CBP): County Business Patterns is an annual series that provides subnational economic data by industry. CBP basic data items are extracted from the Business Register (BR), a database of all known single and multi-establishment employer companies maintained and updated by the U.S. Census Bureau.

U.S. DOL: The U.S. Department of Labor administers a variety of federal labor laws including those that guarantee workers' rights to safe and healthy working conditions, a minimum hourly wage and overtime pay, freedom from employment discrimina-

tion, unemployment insurance, and other income support. For more information, visit **www.dol.gov**.

WC: Workers' compensation. A social insurance program established by statute that is mandatory for most employers, and that provides cash and medical benefits for covered work-related injuries and illnesses.

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.wcrinet.org**

Work-Related Injury/Illness: An injury or illness caused by activities related to 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.

Appendix A: Coverage Estimates

The basis for the NASI estimates of workers' compensation coverage is the number of jobs in each state which are covered by unemployment insurance (UI) (DOL, 2021c). Jobs which are not required to be covered by UI include: some farm and domestic jobs which pay less than a threshold amount; some state and local jobs (such as elected positions); jobs in some nonprofit organizations (such as religious organizations, for whom coverage is optional in some states); jobs held by self-employed persons or unpaid family workers; and railroad jobs (which are covered under a separate unemployment insurance program.) Railroad jobs are also covered under a separate workers' compensation program (see Appendix B).

All U.S. employers who are required to pay unemployment taxes must report quarterly data to their state employment security agencies regarding their jobs and wages 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. jobs which are covered by unemployment insurance (DOL, 2021c).

Key assumptions underlying the Academy's estimates of workers' compensation coverage, shown in Table A, are:

- (1) Jobs which are not reported as covered by UI are assumed not to be covered by workers' compensation.
- (2) Jobs which are reported to be covered by UI are assumed to be covered by workers' compensation as well, except in the following cases:
 - (a) Jobs in small firms (which are required to be covered by unemployment insurance in every state) are assumed to be not covered by workers' compensation if the state law

exempts small firms from mandatory workers' compensation coverage.

- (b) Jobs in agricultural industries (which may or may not be covered by UI) are assumed to be not covered by workers' compensation if the state law exempts agricultural employers from mandatory workers' compensation coverage.
- (c) Jobs in Texas, where workers' compensation coverage is elective for almost all employers, require a different calculation. For Texas, we base our coverage estimates on periodic surveys conducted by the Texas Department of Insurance Workers' Compensation Research and Evaluation Group (TDI, 2020).
- (d) Jobs in Wyoming, where only "extra hazardous" occupations are required to be covered, also require a different calculation. For Wyoming, we base our coverage on data from the Wyoming Department of Workforce Services (Wyoming Department of Workforce Services, 2018 & 2019).
- (3) All federal jobs are covered by workers' compensation, regardless of the state in which they are located.

Small Firm Exemptions

Private firms with fewer than three employees are exempt from mandatory workers' compensation coverage in five states: Arkansas, Georgia, New Mexico, North Carolina, and Virginia. Firms with fewer than four employees are exempt in two states: Florida and South Carolina. Firms with fewer than five employees are exempt from mandatory coverage in four states: Alabama, Mississippi, Missouri, and Tennessee.⁹⁴ The Academy assumes that jobs are not

⁹⁴ In previous reports we have reported Michigan, Oklahoma, West Virginia, and Wisconsin as having small business exemptions of 3, 5, 3, and 3 respectively. Further research has revealed that: in Michigan, "all private employers regularly employing one or more employees 35 hours or more per week for 13 weeks or longer during the preceding 52 weeks" must carry workers' compensation (Michigan.gov, 2020); in Oklahoma, the exemption applies only to employers who employ five or fewer of their relatives by blood or marriage (we assume this number to be negligible) (85A Okl. St. § 2(18)(b)(5); in West Virginia, employers with fewer than three "intermittent" employees who work fewer than 11 days in a quarter are exempt (we assume this number to be negligible) (W. Va. Code § 23-2-1); and in Wisconsin, employers with fewer than three employees who are "paid wages of \$500 or more in any calendar quarter" must have coverage (we assume the number of employers with one or two employees being paid less than \$500 in any quarter to be negligible) (Wis. Stat. § 102.04.1(b)2).

covered by workers' compensation if they are in a small firm that meets the specific exemption requirements in one of these states.

To estimate the number of jobs affected by the small firm exemptions, we use data from the U.S. Census Statistics of Small Businesses (SUSB). The SUSB is an annual data series that reports national and state-level employment by enterprise size and industry.⁹⁵ These data identify the number of jobs in firms with fewer than five employees.

For the four states with workers' compensation exemptions for firms with fewer than five employees, we directly apply the fraction of jobs in these small firms as reported by the SUSB to the number of UIcovered jobs to calculate the number of jobs affected by the exemption. In 2019 (the most recent year the data are available), these proportions were: Alabama, 4.1 percent; Mississippi, 4.4 percent; Missouri, 4.3 percent; and Tennessee, 3.4 percent (Census SUSB, 2021).

For the states that exempt firms with fewer than three or four workers, the SUSB proportions of jobs in small firms (fewer than five employees) must be adjusted downward to correspond to the workers' compensation cutoff in each state. We use national data on small firms from the U.S. Census Bureau (2005) to make the adjustments. The data indicate that, among those jobs reported to be in small firms by the SUSB (2021), 71.8 percent are in firms with fewer than four employees and 43.9 percent are in firms with fewer than three employees.

For the five states that exempt firms with fewer than three workers, the proportions of jobs in small firms were reported to be: Arkansas, 4.6 percent; Georgia, 4.4 percent; New Mexico, 4.9 percent; North Carolina, 4.4 percent; and Virginia, 4.3 percent (Census SUSB, 2021). These proportions are adjusted by a factor of 43.9 percent to estimate the proportion of jobs in exempt firms. For example, the proportion of Arkansas jobs in firms with fewer than three employees is estimated to be 2.0 percent (4.60% x 43.9%).

For the two states that exempt firms with fewer than four workers, the proportions of jobs in small firms were: Florida, 5.4 percent, and South Carolina, 4.1 percent. These proportions are adjusted by a factor of 71.8 percent to estimate the proportion of jobs in exempt firms. For South Carolina, the proportion of jobs in firms with fewer than four employees is estimated to be 3.0 percent (4.15% x 71.8%).

The adjusted ratios were applied to the total number of UI-covered jobs in each state to calculate the number of exempt jobs. In total, we estimate that 850,427 jobs were excluded from workers' compensation coverage in 2020 because of small-firm exemptions from mandatory coverage.

Agricultural Exemptions

We assume that agricultural jobs are excluded from workers' compensation coverage if they are in a state where agricultural jobs are exempt from mandatory coverage. Only 15 jurisdictions have no exemption for agricultural jobs: Alaska, Arizona, California, Connecticut, District of Columbia, Florida, Hawaii, Idaho, Massachusetts, New Hampshire, New Jersey, Ohio, Oregon, Washington and Wyoming.^{96,97} In states with agricultural exemptions, we identify the number of agricultural jobs using the Quarterly Census of Employment and Wages (DOL, 2021c).

⁹⁵ Through 2017, the Academy's report relied on the Census County Business Patterns (CBP) to estimate small firm employment. However, the CBP only measures employment at establishments, which refers to a single physical location where business is conducted. The SUSB publishes data on the number of establishments and the number of firms, which is a more appropriate measure for our purposes because workers' compensation coverage exemptions are based on the size of the firm, not the size of a particular establishment. The differences in employment between the SUSB and the CBP are small. Previous estimates were updated in 2018 using the SUSB for consistency.

⁹⁶ Washington also has an exemption for agricultural workers, but it is limited to some family members of family-owned operations. RCW 51.12.020 – employments excluded include "...Any child under eighteen years of age employed by his or her parents in agricultural activities on the family farm..."

⁹⁷ It recently came to our attention that, under Florida's Title XXXI 440.2 (17)(c)2, only farmers that employ "5 or fewer regular employees and that [employ] fewer than 12 other employees at one time for seasonal agricultural labor that is completed in less than 30 days, provided such seasonal employment does not exceed 45 days in the same calendar year" are exempt from workers' compensation coverage. We assume that this exempt group makes up a small minority of farmers in Florida and have thus removed their exemption in the data as of the 2019 report for 2019 and all prior years. Notably, under our prior methodology Florida had the largest number of exempt agricultural workers of any state. This number would have been 50,364 in 2019—11.4% of all exempt agricultural workers in the country.

The Quarterly Census provides estimates of total employment by state and industry using North American Industry Classification System (NAICS) codes. We estimate that 389,963 jobs were excluded from workers' compensation in 2020 because of state agricultural exemptions.

Texas

In Texas, where workers' compensation coverage is elective for almost all employers, the Academy's estimate of coverage is based on periodic surveys conducted by the Texas Department of Insurance Workers' Compensation Research and Evaluation Group (TDI, 2020). Their most recent survey estimated that 81 percent of private-sector jobs were covered by workers' compensation in 2020. We applied this ratio to all UI-covered jobs in Texas (other than federal government jobs, which were not included in the Texas surveys) to determine the total number of jobs covered by workers' compensation. In 2020, we estimate that 2.25 million jobs in Texas were not covered by workers' compensation.

Wyoming

In Wyoming, where employers of "extra hazardous" occupations must provide coverage and other employers must opt-in if they are to provide coverage, the Academy's estimate of coverage is based on data in the 2017 and 2018 Workplace Safety & Occupational Injury and Illness Annual Impact Report (Wyoming Department of Workforce Services, 2018 & 2019). The data in the corresponding 2019 report is not comparable, and reports have not been issued for 2020 or 2021. The data in the 2017 report indicate that 75.4 percent of all employees are covered, and that in the 2018 report indicates 90.0 percent coverage. With no better data provided, we average these two figures to estimate 82.7 percent of total jobs in Wyoming to be covered by workers'

compensation each year. In 2020, we estimate that forty-four thousand jobs were not covered by workers' compensation.

Employed Workforce Coverage Estimates

The workers' compensation coverage estimates described above are an estimate of the proportion of UI-covered jobs that are also covered by workers' compensation. However, there are a number of jobs that are not covered by either UI or workers' compensation. To develop an estimate of the proportion of all jobs in the economy that are covered by workers' compensation, not just UI-covered jobs, we rely on data from the Current Population Survey (CPS). The CPS reports total employment in the country which was 147.806 million in 2020 (DOL, 2021d). However, the CPS is a household survey that questions individuals about their employment, and provides an estimate of the total number of employed workers. The Quarterly Census of Employment and Wages (QCEW), on the other hand, is an employer-based survey that tracks jobs.

Some individuals have multiple jobs, so comparing the number of workers' compensation covered jobs to the total number of employed workers in the population may overestimate the overall workers' compensation coverage rate. To improve this estimate, we used the Integrated Public Use Microdata Series of the CPS (IPUMS-CPS, 2021) to identify the distribution of employed individuals with one, two, three, four or more jobs. Using that distribution of multiple jobholders, combined with the number of employed workers and multiple jobholders, we expanded total employment to develop an estimate of the total number of jobs in the economy.^{98,99} This measure allowed us to calculate the percentage of total jobs among the employed workforce that are

⁹⁸ We start by subtracting the number of multiple jobholders from total employment as reported by the CPS to get the number of workers with only one job (DOL, 2021d). Next, we use data from the Integrated Public Use Microdata Series of the CPS (IPUMS-CPS, 2021) to identify the distribution of multiple jobholders based on whether they have two, three, or four or more jobs. Using this distribution, we expand the number of multiple jobholders to get the total number of jobs held by multiple jobholders. Using this approach, we calculate total jobs as: Total Jobs = (Total Employment – Multiple Jobholders) + Multiple Jobholders*[(2*% Two Jobs) + (3*% Three Jobs) + (4*% Four or More Jobs)].

This approach differs slightly from what was used in the 2015 data report and prior years. That measure was calculated using total employment from the CPS, expanded by the distribution of multiple jobholders as: Total Jobs = Total Employment*[(% One Job) + (2*% Two Jobs) + (3*% Three Jobs) + (4*% Four or More Jobs)]. The key difference in our updated approach is that we use the total number of multiple jobholders as reported by the CPS, instead of only relying on the distribution of jobholders as reported in the IPUMS to estimate the number of multiple jobholders. The differences between the two approaches are small. The approach we use now minimizes the impact of weighting estimates to achieve population level totals. All of the estimates in Table A.2 have been updated to reflect the method change.

⁹⁹ The BLS reports that 4.5 percent of the U.S. employed workforce held more than one job in 2020 (DOL, 2021d).

	Inemication Incurrence	(I II) Corrected Toboa	Woulzand, Company	Worlzare' Commanion (W/C) Evamptions		
			WOLKERS COMPENSAL		WC.	WC as a
	Total	Farm Firms	Small Firm ^b	Agriculture ^c	Covered Jobs	Percent of UI
State	(1)	(2)	(3)	(4)	(9)	(乙)
Alabama	1,853,159	1,541,819	62,486	5,210	1,785,463	96.3
Alaska	282,007	223,967	١	١	282,007	100.0
Arizona	2,764,796	2,423,607	1	١	2,764,796	100.0
Arkansas	1,153,425	974,824	19,723	7,242	1,126,460	97.7
California	16,118,551	13,779,107	ı	١	16,118,551	100.0
Colorado	2,547,548	2,165,308	ı	16,536	2,531,012	99.4
Connecticut	1,526,181	1,327,998	l	١	1,526,181	100.0
Delaware	420,702	363,178	١	1,062	419,640	7.66
District of Columbia	528,850	487,415	١	١	528,850	100.0
Florida	8,298,360	7,339,156	286,954	١	8,011,406	96.5
Georgia	4,200,563	3,650,429	70,141	14,075	4,116,347	98.0
Hawaii	525,054	437,608	1	1	525,054	100.0
Idaho	734,487	610,827	ı	١	734,487	100.0
Illinois	5,488,285	4,807,874	١	14,636	5,473,649	99.7
Indiana	2,878,132	2,522,487	ı	13,629	2,864,503	99.5
Iowa	1,457,616	1,225,537	ı	17,055	1,440,561	98.8
Kansas	1,302,596	1,079,867	1	11,450	1,291,146	99.1
Kentucky	1,757,218	1,506,752	١	5,227	1,751,991	7.00
Louisiana	1,747,857	1,475,534	ı	4,289	1,743,568	99.8
Maine	567,317	484,886	١	4,471	562,846	99.2
Maryland	2,364,173	2,027,866	1	4,852	2,359,321	99.8
Massachusetts	3,277,215	2,899,900	١	١	3,277,215	100.0
Michigan	3,914,618	3,402,743	t	24,571	3,890,047	99.4
Minnesota	2,672,546	2,320,272	ı	19,006	2,653,540	99.3
Mississippi	1,063,562	854,927	37,962	6,007	1,019,593	95.9

Nebraska $930,446$ $777,381$ $-$ Nevada $1,244,861$ $1,107,171$ $-$ Nevada $1,244,861$ $1,107,171$ $-$ New Hampshite $616,337$ $541,489$ $-$ New Jersey $3,701,108$ $3,198,091$ $-$ New Jersey $3,701,108$ $3,198,091$ $-$ New Mexico $751,632$ $600,927$ $12,918$ New York $8,465,181$ $7,183,942$ $69,763$ New York $8,465,181$ $7,183,942$ $69,763$ North Dakota $386,488$ $322,399$ $69,763$ North Dakota $386,488$ $322,399$ $69,763$ North Dakota $386,488$ $322,399$ $69,763$ Ohio $5,042,170$ $4,404,078$ $69,763$ Ohio $5,042,170$ $4,404,078$ $69,763$ Ohio $5,042,170$ $4,404,078$ $69,763$ Ohio $1,499,062$ $1,222,746$ $69,763$ Oregon $1,807,067$ $1,537,705$ $69,763$ Oregon $1,807,067$ $1,537,705$ $69,763$ Oregon $1,991,460$ $1,671,920$ $69,764$ Oregon $1,991,460$ $1,671,920$ $49,794$ Ennsylvania $5,387,416$ $4,808,441$ $60,616$ North Dakota $1,991,460$ $1,671,920$ $49,794$ South Dakota $1,991,460$ $1,671,920$ $69,764$ South Carolina $1,991,460$ $1,671,920$ $69,794$ Ennsylvania $5,864,184$ $2,496,259$ $69,794$ <			917,690 1,240,505 616,337 1 3,701,108 1 730,315 8,441,790 4,156,846 382,525 5,042,170 1,491,119 1,491,119 1,491,119 1,491,119 1,807,067 1 1,807,067 1 1,936,332 432,124	98.6 99.7 100.0 97.2 99.0 99.0 100.0 99.6 99.6 99.8
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010,040	۰	840	615,806	9.66
Wisconsin 2,699,424 2,341,788 -	- 23,756		2,675,668	99.1
Wyoming ^e 253,191 194,895 -	1	1	209,389	82.7
Total Non-Federal 136,180,789 117,138,655 850,427	850,427 389,963		132,644,012	97.4
Federal Employees 2,927,916		2;	2,927,916 1	100.0
TOTAL 139,108,705 117,138,655 850,427	850,427 389,963		135,571,928	97.5

Data on employees at small firms came from the U.S. Census Bureau (2005; 2021). þ.

Data on agricultural workers came from the Quarterly Census of Employment and Wages (DOL, 2021c) ы Ч

In 2020 there were 2,253,000 workers not covered by workers' compensation in Texas as a result of employers not opting into coverage. Data on workers not covered by workers' compensation in Texas came from the Texas Department of Insurance (TDI, 2020).

In 2020 there were 47,000 workers not covered by workers' compensation in Wyoming. Data on the percent of uncovered workers in Wyoming comes from the Wyoming Department of Workforce Services (Wyoming Department of Workforce Services, 2018 and 2019). j.

Source: National Academy of Social Insurance estimates.

Table A.2

Workers' Compensation Coverage as a Percent of the Employed Workforce, 2010-2020 National Averages

Year	Total Employment ^a (thousands)	Total Jobs ^b (thousands)	WC Covered Jobs ^c (thousands)	WC % Coverage of Total Jobs	WC % Coverage of Total Employment
	(1)	(2)	(3)	(4) = (3) / (2)	(5) = (3) / (1)
2010	139,077	146,640	124,871	85.2%	89.8%
2011	139,885	147,468	126,290	85.6%	90.3%
2012	142,475	150,110	128,348	85.5%	90.1%
2013	143,941	151,680	130,570	86.1%	90.7%
2014	146,319	154,218	133,074	86.3%	90.9%
2015	148,845	156,887	136,008	86.7%	91.4%
2016	151,436	159,785	138,468	86.7%	91.4%
2017	153,335	161,743	140,424	86.8%	91.6%
2018	155,759	164,392	142,635	86.8%	91.6%
2019	157,530	166,464	144,414	86.8%	91.7%
2020	147,806	155,239	135,572	87.3%	91.7%

a. Data on total employment as reported in the Current Population Survey (IPUMS-CPS, 2021).

b. Total Jobs are estimated by multiplying total employment by the proportional distribution of single- and muliplejobholders. Data on the proportional distribution of single- and multiple-jobholders processed from the Integrated Public Use Microdata Series-CPS (IPUMS-CPS, 2021).

c. Workers' Compensation Covered Jobs from Table A and previous editions of this report.

Source: National Academy of Social Insurance estimates.

covered by workers' compensation using a consistent unit of measure in the numerator and denominator: jobs.

As Table A.2 shows, workers' compensation covered 87.3 percent of the total jobs in the economy in 2020, up 0.5 percentage points from 2019. This marks the first year-over-year change in total job coverage exceeding 0.1 percent since 2015, when

coverage increased 0.4 percentage points relative to 2014. Between 2016 and 2020, total employment and total jobs decreased by 1.9 and 2.8 percent respectively, while workers' compensation covered jobs also decreased by 1.9 percent. The number of multiple-job holders as reported by the CPS decreased to 6.7 million in 2020, down 16.9 percent from 2019(DOL, 2021d).

Appendix B: Federal Programs

Various federal programs compensate certain categories of workers and their dependents for work-related injuries or illnesses. The standard approach in this report has been to include in the national totals of workers' compensation data those federally administered programs that are financed by employers and are not included in the data reported by the states. The standard approach, however, excludes programs that cover private sector or public sector workers and are financed by general federal revenues. Henceforth the "standard approach" will be referred to as Scope I. For estimates of the total costs of workers' compensation to the United States, including those financed by federal or state general revenues, please see the Scope II and Scope III data in Appendix C: Alternative Measures of Workers' Compensation Benefits and Costs.

One difficulty with the data on the costs of federal programs is the relative incomparability to state program cost data. For the state data, cost estimates for employers who purchase insurance from private carriers and state-funds are based on a given year's premiums, which include estimates of the benefits that will be paid for injuries that occur during the year plus a loading factor that covers the carriers'

underwriting expenses and other administrative expenses. For state data on the costs for self-insuring employers, costs are the sum of benefits paid in the year plus a loading factor added by the Academy in a procedure described on page 40. For most Federal programs, there are no data comparable to the state data on premiums, which includes both benefits and administrative costs. Most cost estimates in the following tables are based on benefits paid to workers in each year plus the administrative costs for that program to the extent such data are available. To this extent the data in this Appendix are not perfectly comparable to much of the cost data in the body of the report. Federal program data on costs are comparable to state program data on employers that self-insure since the estimates of costs represent benefits paid plus administrative costs. Details on specific federal programs are provided below.

Federal Programs Included in the Academy Scope I Estimates

Federal Employees

The Federal Employees' Compensation Act of 1916 (FECA) provided the first comprehensive workers' compensation program for federal civilian employ-

Table B.1

Federal Employees' Compensation Act, Benefits and Costs, 2016-2020 (in thousands)

	2016	2017	2018	2019	2020
Benefits					
Compensation Benefits	1,860,675	1,841,930	1,835,333	1,834,405	1,818,785
Medical Benefits	1,029,995	938,569	921,028	843,601	779,234
Total Benefits	2,890,670	2,780,499	2,756,361	2,678,006	2,598,019
Administrative Costs					
Direct Administrative Costs	161,130	167,752	171,852	175,036	181,529
Indirect Administrative Costs ^a	8,765	7,113	9,746	9,747	8,630
Total Administrative Costs	169,895	174,865	181,598	184,783	190,159
Costs borne by Federal Agencies ^b	9 3,051,800	2,948,251	2,928,213	2,853,042	2,779,548
Costs borne by General Revenues	s ^c 8,765	7,113	9,746	9,747	8,630

a Includes legal and investigative support from the Office of the Solicitor and the Office of the Inspector General.

b Includes "Total Benefits" and "Direct Administrative Costs".

c Includes "Indirect Administrative Costs".

Source: U.S. Department of Labor (2022).

ees. In 2020, total FECA benefits were approximately \$2.6 billion (Table B1). Thirty percent of benefits were for medical care, down six percentage points since 2016. The share of benefits for medical care is lower in the FECA program than in most state workers' compensation systems because federal cash benefits, particularly for higher-wage workers, replace a larger share of pre-injury wages than do most state programs.¹⁰⁰ Total administrative costs for the FECA program were \$190 million in calendar year 2020, or 7.3 percent of total benefits paid (DOL, 2022). The benefits and direct administrative costs of the FECA program are included in the national totals in Scope I. Indirect administrative costs are included in Appendix C.

Table B.2

Longshore and Harbor Workers' Compensation Act (LHWCA), Benefits, Costs, and Death Claims,^a 2016-2020 (in thousands)

	2016	2017	2018	2019	2020
Benefits					
Insurance Carriers ^a	881,492	865,913	739,257	696,626	671,379
Self-Insured Employers	416,151	406,888	414,077	424,283	404,819
LHWCA Special Fund	109,643	107,117	102,612	99,518	99,230
DCCA Special Fund ^b	6,856	6,117	6,864	6,411	6,000
Defense Base Act ^{a,c}	673,083	669,667	562,021	521,749	514,641
Total Benefits	2,087,225	2,055,701	1,824,830	1,748,587	1,696,069
dministrative Costs					
General Revenue	12,423	12,636	12,643	12,740	12,731
Special Funds	2,166	2,165	2,164	2,172	2,174
Indirect Administrative Costs ^d	915	842	949	889	1,080
Total Administrative Costs	15,503	15,642	15,756	15,801	15,985
Employer Assessments					
LHWCA Special Fund Assessment	112,000	114,000	106,000	91,500	102,000
DCCA Special Fund Assessment ^b	8,000	6,000	7,000	5,000	6,000
Total Employer Assessments	120,000	120,000	113,000	96,500	108,000
Costs borne by Private Employers ^e	2,207,225	2,175,701	1,937,830	1,845,087	1,804,069
Costs borne by General Revenues ^f	13,337	13,477	13,592	13,629	13,811

a Includes benefit costs for cases under the Defense Base Act (DBA) and other extensions to the LHWCA.

b The District of Columbia Workmen's Compensation Act Special Fund is an extension of the LHWCA to provide workers' compensation benefits in certain employments in the District of Columbia.

c Civilian overseas deaths in 2014 totaled 146; 2015 totaled 100; 2016 totaled 88; 2017 totaled 103; and 2018 totaled 74.

d Includes legal and investigative support from the Office of the Solicitor and the Office of the Inspector General. These are not employer costs but are provided through general revenue appropriations.

e Equal to sum of "Insurance Carriers", "Self-Insured Employers", "Defense Base Act", 'LHWCA Special Fund Assessment", and "DCCA Special Fund Assessment". Does not include special fund administrative costs as they are financed by the employer assessments. Special fund benefits in each year are funded by prior years' assessments.

f Includes administrative costs paid out of general revenues, and indirect administrative costs.

Source: U.S. Department of Labor (2022).

100 Statutory wage-replacement rates replace, on average, about two-thirds of a workers' pre-injury gross wage subject to minimum and

FECA financing is similar to the financing of workers' compensation in the private sector in that costs charged to each federal agency reflect benefits paid to the employees of that agency. In this regard the employer is paying for the benefits (as opposed to general revenues directly).

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 was enacted in 1927 in response to a U.S. Supreme Court decision holding that the Constitution prohibits states from extending workers' compensation coverage to maritime employees who are injured while working over navigable waters. The LHWCA excludes coverage of the master or crew of a vessel. In 1941, the Defense Base Act (DBA) extended the LHWCA to require coverage for other types of workers who fall outside the jurisdiction of state workers' compensation programs, such as employees working on overseas military bases, and persons working overseas for private contractors of the United States. Other extensions of the Act have required coverage for special groups of workers, such as workers on offshore drilling rigs.

Private employers cover workers protected by the LHWCA by purchasing private insurance or selfinsuring. The Division of Longshore and Harbor Workers' Compensation also administers two special funds. The first pays certain types of claims authorized under the LHWCA (e.g., for second injuries, or in cases where an employer and their workers' compensation carrier are insolvent or out of business). The special fund is underwritten by annual assessments on employers. The second, the District of Columbia Compensation Act (DCCA) Special Fund, pays benefits to DC government employees who filed claims for injuries prior to July 26, 1982, when the District of Columbia Workers' Compensation Act was enacted. As such, all benefits paid by the DCCA special fund today are for injuries prior to that date (CRS, 2021).

The Academy's data series on benefits of workers' compensation allocate part of the benefits paid

under the LHWCA to the states where the companies operate, and part to federal programs. Benefits paid by private carriers under the LHWCA are not identified separately in the information provided by A.M. Best or the state agencies, so these benefits appear in Scope I in the state data. Benefits paid by private employers who self-insure under the LHWCA, and benefits paid from the LHWCA special fund, are not reported by the states or A.M. Best. Consequently, these benefits are included in Scope I in the federal data.

As shown in Table B2, employers paid \$102 million to the LHWCA special fund in 2020, which helped cover benefit payments of \$99 million. Direct and indirect administrative costs to the federal government totaled approximately \$13.8 million. The administrative costs of the two special funds, about \$2.2 million in 2020, are financed by assessments on private employers.

Coal Miners with Black Lung Disease

The Black Lung Benefits Act, enacted in 1969, provides compensation for coal miners with pneumoconiosis (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 all 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 Scope I. Benefits under Part C are paid directly by the responsible mine operator or insurer, or otherwise from the federal Black Lung Disability Trust Fund.

Table B3 shows benefits paid under both parts of the black lung program from 2016 through 2020. Total benefits in 2020 were \$214 million, of which \$56.8 million was paid under Part B and \$157.0 million under Part C. Part C benefits included \$32.4 million for medical care (21% of Part C benefits paid). Medical benefits are a relatively small share of black lung benefits because many of the recipients of bene-

weekly maximum benefits, which vary by state. For FECA covered workers, "compensation is generally paid at the rate of two-thirds of the salary if the employee has no dependents, and three-fourths of the salary if one or more dependents are claimed" (DOL Employment Standards Administration).

Table B.3

Black Lung Benefits Act, Benefits and Costs, 2016-2020 (in thousands)

	2016	2017	2018	2019	2020
Benefits					
Part B Compensation	98,651	82,646	72,297	63,477	56,838
Part C Compensation	143,212	136,508	129,674	126,664	124,621
Part C Medical Benefits	36,733	46,320	45,000	39,896	32,421
Total Benefits	278,596	265,474	246,972	230,037	213,880
Costs of Past Benefits					
Interest Payments on Past Advances ^a	1,335,288	2,015,732	2,890,135	3,785,000	3,939,000
Bond Payments ^b	523,262	545,554	449,888	117,929	119,175
Total Current Costs of Past Benefits	1,858,550	2,561,286	3,340,022	3,902,929	4,058,175
Administrative Costs					
Part B (SSA)	4,964	5,093	5,040	4,924	4,763
Part C (DOL)	33,236	35,472	35,590	35,785	36,517
Indirect Administrative Costs ^C	29,430	30,608	30,681	30,955	31,699
Total Administrative Costs	67,630	71,172	71,311	71,664	72,979
Employer Assessments					
Coal Tax Paid by Employers	436,889	417,628	342,443	237,848	297,585
Deferred Costs					
Trust Fund Advances from U.S. Treasury ^d	1,003,750	1,438,750	1,892,500	1,983,150	2,292,225
Costs borne by Private Employers ^e	436,889	417,628	342,443	237,848	297,585
Costs borne by General Revenues ^f	1,136,795	1,557,097	2,000,518	2,082,507	2,385,525
Costs borne by the Black Lung Trust Fund $^{ m g}$	2,071,731	2,779,585	3,550,287	4,105,274	4,251,734

a The amount shown is the repayment of one-year obligations of the Trust Fund, which include the previous year's advances from the U.S. Treasury and applicable interest due on those advances, as required under the EESA.

b Repayment of bond principal and interest on principal debt as required by the Trust Fund debt restructuring portion of the EESA.

c 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 Office of Administrative Law Judges (OALJ) and the Benefits Review Board (BRB). OALJ and BRB costs are not included for any other program but cannot be separately identified for Coal Mine Workers' Compensation.

d Advance of funds required when Trust Fund expenses exceed tax revenues received in a given year. Under the Emergency Economic Stabilization Act of 2008 (EESA), total Trust Fund debt (cumulative advances) at the end of 2008 was converted to zero coupon bonds that are repayable to the U.S. Treasury on an annual basis.

e Equal to "Coal Tax Paid by Employers".

f Includes Part B Compensation, Part B (SSA) Administrative Costs, Indirect Administrative Costs, and Trust Fund Advances from the U.S. Treasury.

g Includes Part C Compensation, Part C Medical Benefits, Interest Payments on Past Advances, Bond Payments, and Part C (DOL) Administrative Costs.

Source: U.S. Department of Labor (2022).

Table B.4

Benefits and Costs of the Energy Employees Occupational Illness Compensation Program Act: Parts B and E 2016-2020 (in thousands)

Benefits Part B Medical Benefits ⁴ 487,618 569,060 678,134 763,192 796,34 Compensation Benefits 293,228 277,294 258,389 263,879 250,44 Part E ^b Medical Benefits ^c 77,005 85,793 90,726 116,038 146,92 Compensation Benefits 326,351 278,859 335,859 357,166 393,92 Total Benefits 1,184,202 1,211,006 1,363,109 1,500,276 1,587,5 Administrative Costs Part B Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Part B Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^d 54,319 58,014 57,540 71,560 71,57						
Part B Medical Benefitsa487,618569,060 $678,134$ $763,192$ $796,31$ Compensation Benefits $293,228$ $277,294$ $258,389$ $263,879$ $250,44$ Part EbMedical Benefitsc $77,005$ $85,793$ $90,726$ $116,038$ $146,92$ Compensation Benefits $326,351$ $278,859$ $335,859$ $357,166$ $393,92$ Total Benefits $1,184,202$ $1,211,006$ $1,363,109$ $1,500,276$ $1,587,52$ Administrative CostsPart B Direct Administrative Costsd $54,319$ $58,014$ $55,540$ $53,823$ $56,192$ Indirect Administrative Costsd $68,499$ $70,142$ $71,466$ $71,560$ $71,572$ Indirect Administrative Costsd $124,373$ $129,892$ $129,004$ $127,560$ $129,792$		2016	2017	2018	2019	2020
Medical Benefitsa487,618569,060 $678,134$ $763,192$ $796,34$ Compensation Benefits293,228277,294258,389263,879250,44Part EbMedical Benefitsc77,00585,79390,726116,038146,92Compensation Benefits326,351278,859335,859357,166393,92Total Benefits1,184,2021,211,0061,363,1091,500,2761,587,52Administrative CostsPart BDirect Administrative Costsa54,31958,01455,54053,82356,192Indirect Administrative Costsd54,31958,01455,54053,82356,1921,322Part EDirect Administrative Costsd68,49970,14271,46671,56071,572Indirect Administrative Costs530522657750700Total Administrative Costs124,373129,892129,004127,560129,792	Benefits					
Compensation Benefits293,228277,294258,389263,879250,44Part EbMedical Benefits293,228277,294258,389263,879250,44Medical Benefits77,00585,79390,726116,038146,92Compensation Benefits326,351278,859335,859357,166393,92Total Benefits1,184,2021,211,0061,363,1091,500,2761,587,55Administrative CostsPart BDirect Administrative Costs ^d 54,31958,01455,54053,82356,19Indirect Administrative Costs ^d 54,31958,01455,5401,4271,322Part EDirect Administrative Costs ^d 68,49970,14271,46671,56071,57Indirect Administrative Costs530522657750700Total Administrative Costs124,373129,892129,004127,560129,79	Part B					
Part EbMedical Benefits ^C 77,00585,79390,726116,038146,92Compensation Benefits326,351278,859335,859357,166393,92Total Benefits1,184,2021,211,0061,363,1091,500,2761,587,52Administrative CostsPart BDirect Administrative Costs ^d 54,31958,01455,54053,82356,19Indirect Administrative Costs ^d 54,31958,0141,2151,3401,4271,322Part EDirect Administrative Costs ^d 68,49970,14271,46671,56071,577Indirect Administrative Costs ^e 530522657750700Total Administrative Costs124,373129,892129,004127,560129,74	Medical Benefits ^a	487,618	569,060	678,134	763,192	796,307
Compensation Benefits 326,351 278,859 335,859 357,166 393,92 Total Benefits 1,184,202 1,211,006 1,363,109 1,500,276 1,587,5 Administrative Costs Part B Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^d 54,319 58,014 55,540 1,427 1,322 Part B Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^d 124,373 129,892 129,004 127,560 129,79		293,228	277,294	258,389	263,879	250,409
Total Benefits 1,184,202 1,211,006 1,363,109 1,500,276 1,587,5 Administrative Costs Part B Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^d 68,499 70,142 1,340 1,427 1,322 Part E Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,577 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	Medical Benefits ^C	77,005	85,793	90,726	116,038	146,928
Administrative Costs Part B Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^e 1,024 1,215 1,340 1,427 1,322 Part E Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,74	Compensation Benefits	326,351	278,859	335,859	357,166	393,939
Part B Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^e 1,024 1,215 1,340 1,427 1,322 Part E Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	-	1,184,202	1,211,006	1,363,109	1,500,276	1,587,582
Direct Administrative Costs ^d 54,319 58,014 55,540 53,823 56,19 Indirect Administrative Costs ^e 1,024 1,215 1,340 1,427 1,322 Part E Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	Administrative Costs					
Indirect Administrative Costs ^e 1,024 1,215 1,340 1,427 1,322 Part E Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79						
Part E Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	Direct Administrative Costs ^d	54,319	58,014	55,540	53,823	56,195
Direct Administrative Costs ^d 68,499 70,142 71,466 71,560 71,57 Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	Indirect Administrative Costs ^e	1,024	1,215	1,340	1,427	1,322
Indirect Administrative Costs ^e 530 522 657 750 700 Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	Part E					
Total Administrative Costs 124,373 129,892 129,004 127,560 129,79	Direct Administrative Costs ^d	68,499	70,142	71,466	71,560	71,577
	Indirect Administrative Costs ^e	530	522	657	750	700
Total Costs (Benefits and Admin Costs) 1,308,574 1,340,897 1,492,112 1,627,836 1,717,336	Total Administrative Costs	124,373	129,892	129,004	127,560	129,794
	Total Costs (Benefits and Admin Costs)	1,308,574	1,340,897	1,492,112	1,627,836	1,717,376

a Medical payments made for claimants eligible under Part B only and claimants eligible under both Part B and Part E.

b The Energy Part E benefit program was established in October 2004.

c Medical payments made for claimants eligible under Part E only.

d Part B costs for 2002-2008 include funding for the Department of Health and Human Services/National Institute for Occupational Safety and Health's (DHHS/NIOSH) conduct of dose reconstructions and special exposure cohort determinations. 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. Beginning in 2009, these costs are a direct appropriation to DHHS/NIOSH. Part B costs for 2009-18 include funding for an Ombudsman position. For 2009, these costs were \$0.1 million; 2010, \$0.4 million; 2011, \$0.2 million; 2012, \$0.3 million; 2013, \$0.5 million; 2014, \$0.6 million; and 2015, \$0.6 million; 2016, \$0.7 million; 2017, \$0.8 million; 2018, \$0.7 million; 2019, \$0.7 million; 2020, \$0.5 million; 2007, \$0.7 million; 2008, \$0.8 million; 2019, \$0.8 million; 2011, \$0.8 million; 2011, \$0.8 million; 2012, \$0.8 million; 2013, \$0.5 million; 2013, \$0.5 million; 2007, \$0.7 million; 2008, \$0.8 million; 2009, \$0.8 million; 2010, \$0.5 million; 2011, \$0.8 million; 2012, \$0.8 million; 2013, \$0.5 million; 2007, \$0.7 million; 2008, \$0.8 million; 2010, \$0.7 million; 2011, \$0.8 million; 2012, \$0.8 million; 2013, \$0.5 million; 2014, \$0.8 million; 2015, \$0.7 million; 2009, \$0.8 million; 2017, \$0.9 million; 2011, \$0.8 million; 2012, \$0.8 million; 2013, \$0.8 million; 2014, \$0.8 million; 2015, \$0.7 million; 2016, \$0.7 million; 2017, \$0.9 million; 2018, \$0.9 million; 2019, \$0.8 million; 2013, \$0.8 million; 2014, \$0.8 million; 2015, \$0.7 million; 2016, \$0.7 million; 2017, \$0.9 million; 2018, \$0.9 million; 2019, \$0.8 million; 2

e Includes legal and investigative support from the Office of the Solicitor and the Office of the Inspector General.

Source: U.S. Department of Labor (2022).

fits are deceased coal miners' dependents, whose medical care is not covered by the program.

Table B3 also shows accounting data for the Black Lung Trust Fund, and federal costs for administering the program. In 2020, direct administrative costs for Part C were \$36.5 million. Together with benefit payments of \$157.0 million, expenditures under Part C were \$193.5 million. Employers paid \$297.6 million into the trust fund in 2020, but payments on past debt, totaling \$4.1 billion in 2020, far exceeded the extra revenues.

To the extent that treasury loans to the Trust Fund are funded by general revenues, "Trust Fund Advances from the U.S. Treasury" are included under "Costs borne by General Revenues". A recent Government Accountability Office testimony stated that "under federal law the Trust Fund borrows from Treasury's general fund when necessary to cover its expenditures. Federal law does not limit the amount the Trust Fund may borrow from Treasury's general fund—and hence from the taxpayer—as needed to cover its relevant expenditures" (GAO, 2019). Assuming the borrowed money is paid back, these advances will not represent costs against general revenues in the long-run, though the aforementioned GAO testimony is not optimistic about the Trust Fund's financial future under current law. The financial state of the Trust Fund may be further worsened by recent increases in rates of both black lung disease and the most severe cases of black lung among coal miners (Boden, 2022). As the coal tax and Treasury advances provide income which allows the Trust Fund to cover its obligations, it is not appropriate to add any of the three latter items in the table.

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 B3 and are not included anywhere in the report.

Federal Programs Included in Academy Scope II Estimates

Energy Employees

Part B of the Energy Employees Occupational Illness Compensation Program Act (EEOICPA) provides workers' compensation benefits to civilian workers (and/or their survivors), who become ill as a result of exposure to radiation, beryllium, or silica, in the production or testing of nuclear weapons and other materials. The program pays medical benefits for the treatment of covered conditions, and lump sum cash payments of up to \$150,000 for eligible workers.

Part E of the EEOICPA provides compensation for employees of Department of Energy contractors and for uranium miners, millers, and ore transporters who become injured on the job. Workers (or their qualifying survivors) are eligible for cash awards of up to \$250,000. Wage loss, medical, and survivor benefits are also provided under certain conditions.

Table B4 provides information on benefits and costs of both Parts B and E of the EEOICPA for 2016-

Table B.5

Section 4 Radiation Exposure Compensation Act, Benefits Approved and Costs, 2016-2020 (in thousands)

· · ·					
	2016	2017	2018	2019	2020
Total Benefits Approved ^a	70,673	60,280	60,262	62,078	60,752
Total Administrative Costs ^{b,c}	2,436	2,077	2,077	2,139	2,094
Total Costs (Benefits and Admin Costs)	73,109	62,357	62,339	64,217	62,845

a Only Section 4 (downwinders and on-site) are shown here as "the National Defense Authorization Act for FY 2005 contained language requiring the Energy Employees Occupational Illness Compensation Fund to pay uranium workers – uranium miners, millers, and ore transporters". (US DoJ RECA Trust Fund FY 2020 Budget & Performance Plan) Section 5 beneficiaries are thus captured in Table B4.

b RECA "established monetary compensation for individuals who contracted specified diseases in three defined population", and is thus very striaghtforward to administer. As of March 2019, the program was "administered by a staff of five attorneys, eight claims examiners, and eight contractors within the Constitutional and Specialized Torts Section of the Civil Division's Torts Branch."

c A job posting in August of 2020 by the U.S. Department of Justice Civil Division for a trial attorney position indicates a salary between \$86,335 and \$157,709 per year. Glassdoor indicates average salaries in August of 2020 of \$80,555 and \$44,500 for a Department of Labor claims examiner and a Department of Justice paralegal specialist, respectively. Using the average salary for the trial attorney position (\$122,022) and the figures from Glassdoor then multiplying by the staff numbers in note "b" yields administrative salary costs of \$1,610,550. This figure is divided by 1.028154 to account for inflation between July 2018 and July 2020 (BLS CPI Inflation Calculator). Finally, we multiply the resulting figure by 1.2, assuming an additional 30% of administrative costs beyond salary costs. This method is used to estimate administrative costs in 2018. An equal portion of administrative costs is assumed for 2014-2017.

Source: U.S. Department of Justice (2022).

2020. In 2020, total benefits paid under Part B were \$1.04 billion, of which \$250.4 million (23.9%) were paid as compensation benefits (DOL, 2022). Part E benefits in 2020 were \$540.9 million, of which \$393.9 million (72.8%) were compensation. Benefits under both Parts B and E are financed by general federal revenues and are not included in our national totals. Benefits and costs associated with Part B and Part E are included in Scope II and Scope III in Appendix C.

Workers Exposed to Radiation

The Radiation Exposure Compensation Act of 1990 provides lump sum 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 testing or during employment in underground uranium mines. The lump sum payments are specified by law and range from \$50,000 to \$100,000. Table B5 shows annual approved benefits under the Radiation Exposure Compensation Act (RECA) from 2016 through 2020. The \$60.8 million in benefits approved in 2020 represents a 2.2 percent from 2019 and a decrease of 14 percent over the five-year study period (DOJ, 2021). The program is financed with federal general revenues and is not included in national totals in this report. Benefits and costs associated with RECA are included in Scope II and Scope III in Appendix C.

Table B.6

Federal Veterans' Compensation, Benefits and Costs, 2016-2020 (in thousands)

		2016	2017	2018	2019	2020
Recipients						
Veterans Less than 30 Percent Disa	bled ^a	1,727	1,731	1,735	1,726	1,700
Veterans 30 Percent Disabled or M	ore	2,728	2,917	3,109	3,287	3,454
Total Recipients		4,455	4,648	4,844	5,013	5,154
Benefits						
Disability Compensation Benefits	67,35	52,772	73,350,268	80,812,210	88,170,569	94,984,594
Survivors DIC Benefits ^b	6,42	25,000	6,690,000	7,035,000	7,380,000	7,720,000
Total Benefits	73,77	77,772	80,040,268	87,847,210	95,550,569	102,704,594
Administrative Costs						
Direct Administrative Costs ^c	1,85	55,028	2,187,997	2,342,942	2,068,797	2,081,996
Indirect Administrative Costs ^d	1,10	03,927	1,193,515	1,310,558	1,329,387	1,327,818
Total Administrative Costs	2,95	58,955	3,381,513	3,653,500	3,398,184	3,409,814
Total Costs (Benefits + Admin Costs)	76,73	36,727	83,421,781	91,500,710	98,948,753	106,114,408

a Does not receive dependency benefit.

b Dependency and Indemnity Compensation and Death Compensation.

c These figures come from the "General Operating Expenses" line of the VA Agency Financial Report, and are

multiplied according to the portion of total VBA benefits accounted for by Veterans' Comp and Survivors DIC benefits.
d These figures come from the "Indirect Administrative Program Costs" line of the VA Agency Financial Report, and are multiplied according to the portion of total VA program costs accounted for by the VBA, and then according to the portion of total VBA benefits accounted for by Veterans' Comp and Survivors DIC benefits.

Source: U.S. Department of Veterans Affairs (2021 and 2022).

Federal Programs Included in Academy Scope III Estimates

Veterans of Military Service

U.S. military personnel are covered by the Federal Veterans' Compensation Program of the Department of Veterans Affairs. The program provides cash benefits to veterans who sustain total or partial disabilities while on active duty. This program includes four sub-categories under which benefits may be paid: Disability Compensation, Dependency and Indemnity Compensation (DIC), Special Monthly Compensation (SMC), and Claims Based on Special Circumstances (VA, 2018). For the purposes of this report, we only discuss the former two options, which more closely mirror the types of benefit payments under state workers' compensation programs.

Table B6 shows the number of recipients, and the value of cash benefits paid, and estimates of administrative costs for 2016 through 2020. In 2020, 5.15 million veterans were receiving monthly compensation payments for service-connected disabilities. Of this group, 67.0 percent had a disability rating of 30 percent or more. Due to its large number of beneficiaries, the inclusion of a high proportion of serious injuries, and the provision of medical care through an entirely separate health care system, Veterans' Compensation data is included only in Scope III of the data estimates in Appendix C.

Federal Programs Not Included in Academy Estimates

Railroad Employees and Merchant Mariners

Federal laws specify employee benefits for railroad workers involved in interstate commerce, and for merchant mariners. These programs provide health insurance as well as short- and long-term cash benefits for ill or injured workers whether or not their conditions are work-related. The benefits are not exclusively workers' compensation benefits and are not included in our national totals. Under federal laws, these workers also retain the right to bring tort suits against their employers if the worker believes a work-related injury or illness was caused by employer negligence (Williams and Barth, 1973).

Appendix C: Three Measures of Workers' Compensation Benefits, Costs, and Coverage¹⁰¹

Summary

Three measures of the scope of workers' compensation programs in the United States are examined in this Appendix. Each has its merits and limitations.

The **Standard Approach** represents the measures of benefits and costs of the workers' compensation programs that are paid directly by employers and employees. This approach is the only measure of workers' compensation programs that has been used in previous versions of the Academy report and in the main text of this year's edition. The Standard Approach will continue to be the primary measure of the workers' compensation that will be used in subsequent years in order to maintain continuity of the Academy data. In 2020, the Standard Approach indicates that the workers' compensation system paid \$58.927 billion in benefits to workers and that costs totaled \$92.951 billion.

The **Augmented Approach** represents a measure of benefits and costs of the workers' compensation that adds those workers' compensation programs that are paid from general revenues of states or the Federal government. The additional benefits provide a more comprehensive measure of the assistance provided to workers disabled at the workplace by workers' compensation programs as well as a better accounting of the costs to society (including taxpayers) of the costs of the programs. A drawback of the Augmented Approach is that considerable effort is required to collect the data. In 2020, the Augmented Approach accounted for an additional \$1.705 billion to the benefits paid to workers and an additional \$4.266 billion to total costs.

The **Expansive Approach** adds the benefits and costs of the Federal Veterans' Compensation Program, which provides benefits to veterans who "are disabled by injury or disease incurred in or aggravated during active military service." This program arguably is not a workers' compensation program. However, the Academy Report on Workers' Compensation Benefits, Costs, and Coverage has included the Veterans Program in its list of Federal Programs in the Appendix since the 2003 edition. In 2020, the Expansive Approach accounted for an additional \$102.705 billion to the benefits and \$106.114 billion to the costs of programs for persons disabled in their occupations.

Introduction to Three Measures of the Scope of Workers' Compensation Programs

Three measures of the scope of workers' compensation programs in the United States are examined in this Appendix. The Appendix will also explore which benefits and costs associated with work-related injuries and diseases should be included in or excluded from the Academy's data.

Scope I—Standard: workers' compensation programs for civilian workers prescribed by state or federal laws that are *paid directly by employers or workers*. This **standard approach** has been used (with minor exceptions discussed below) in previous editions of *Workers' Compensation: Benefits, Costs, and Coverage* published by the National Academy of Social Insurance. The standard approach is also used in all tables, figures, and text in the 2020 data report except for Appendix C.

Scope II—Augmented: Scope I plus workers' compensation programs for civilian workers prescribed by state or federal government laws *paid from general revenues of state or federal governments*. This **augmented approach** is introduced in this Appendix.

Scope III—Expansive: Scope II plus workers' compensation programs for *veterans* prescribed by state or federal government laws that are paid directly by employers, workers or from general revenues of state or federal governments.¹⁰² This **expansive approach** is also introduced in this Appendix.

¹⁰¹ This new expanded version of Appendix C was developed jointly by John Burton and Griffin Murphy in August 2020. Appendix C in its current form was included for the first time in the 2018 data report on workers' compensation published by the Academy.

¹⁰² Veterans are technically "civilians", so they may receive benefits from veterans' compensation programs in addition to from programs under the Standard and/or Augmented scopes depending on their circumstances.

Definition of Workers' Compensation Programs

Workers' compensation programs are no-fault statutory programs that (a) provide medical and/or cash benefits to current or former workers who receive benefits because they have an impairment and/or disability caused by a work-related injury or disease, or (b) provide cash benefits or other benefits to survivors of workers who died as a result of a work-related injury or disease. Significant components of this definition have this meaning:

- An *impairment* is an anatomic or functional abnormality or loss resulting from an injury or disease. The impairment can be physical or mental.¹⁰³
- A *disability* is a loss of earning capacity and/or an actual loss of earnings.¹⁰⁴
- Work-related means the worker meets the compensability requirements in the jurisdiction's workers' compensation statute¹⁰⁵
- The workers' compensation program also includes these definitions:
 - the worker is entitled to workers' compensation benefits even if he or she is negligent
 - the worker is entitled to workers' compensation benefits even if the employer is not negligent
 - workers' compensation is the worker's exclusive remedy against the employer even if the employer is negligent

Which Programs Should be Included in NASI Measures of Workers' Compensation Benefits, Costs, and Coverage

Scope I—Standard

Workers' compensation programs for civilian workers prescribed by state or federal laws that are paid directly by employers or workers.

In most states, the direct costs of the workers' compensation programs are paid by employers who either purchase insurance from private carriers or state funds or self-insure and thus pay the costs directly. In three states, however, a portion of the direct costs of workers' compensation is paid by employees.

States in Which Costs Are Paid by Employees. New Mexico applies a per-capita assessment based on employment on the last day of the quarter. Since 2004, the quarterly workers' compensation fee has been \$4.30 per covered worker, which is split between employers and employees. The employers' share is \$2.30 per covered worker, and the employees' share is \$2.00. Most of the total fee (\$2.00 from employers and \$2.00 from employees) is now used primarily to fund the operation of the New Mexico Workers' Compensation Administration. (Funds from General Revenue previously paid for these administrative costs.) The additional \$0.30 per covered worker is paid by employers to fund the Workers' Compensation Uninsured Employers Fund.

Oregon assesses employers and employees for the Workers' Benefit Fund, which pays monthly cost-ofliving increases for workers. Between April of 2014 and 2016, the Oregon Workers Benefit Fund Assessment was 3.3 cents per hour worked – employers paid 1.65 cents and workers paid 1.65 cents per hour. In 2017 and 2018, the assessment

¹⁰³ The National Commission on State Workmen's Compensation Laws (National Commission, 1972, 137) defines impairment as "an anatomic or functional abnormality or loss."

¹⁰⁴ The National Commission (1972,137) defines disability as "loss of actual earnings or earning capacity as a consequence of impairment."

¹⁰⁵ Compensability rules vary among jurisdictions. Larson and Robinson (§ 1.1 (Desk ed. 2017) indicate that in the typical act "an employee is automatically entitled to certain benefits whenever the employee suffers 'a personal injury by accident arising out of or in the course of employment' or an occupational disease" (Larson and Robinson, 2017).

fell to 2.8 cents per hour worked—1.4 cents per hour for each party. The assessment fell once again in 2019 to 2.4 cents per hour worked, and in 2020 to 2.2 cents per hour worked.

Washington state employees pay part of the workers' compensation premium costs through payroll deductions. These deductions go toward state fund medical benefits and cost-of-living adjustments for the Supplemental Pension Fund. In 2020, employees contributed 26.7 percent of state fund premiums and paid half of the cost-of-living adjustment premium for the aforementioned fund.

Treatment of the Costs Paid by Employees in Academy Reports. Prior to the 2019 Academy Report, costs paid by workers in Washington were included as costs of the program, but the costs paid by workers in New Mexico and Oregon were not included.¹⁰⁶ There are four reasons why all payments by workers to a workers' compensation program should be included as costs of the program, as is the case for the 2018 and 2019 data reports:

- (1) To provide results that are consistent across all states.
- (2) To provide a more accurate measure of the costs of workers' compensation programs.
- (3) To ensure that the data for both benefits and costs are accurate for workers in New Mexico and Oregon. Prior to 2019, the benefits received by injured workers who paid for part of the costs of workers' compensation in New Mexico and Oregon were included in the Academy data for those states but the costs were

not, and it is misleading to include the benefits but not the costs.

(4)To recognize the distinction between the nominal incidence of the costs of a program and the actual incidence. The nominal incidence for employees is the assessments, fees, or payroll deductions paid by employees in New Mexico, Oregon, and Washington. In other states, workers' compensation is nominally free for employees, as there are no explicit taxes or payroll reductions to fund the program. In all cases, the actual incidence of the program is the nominal incidence plus any reduction in wages that is the result of being covered by a workers' compensation program. As such, although the employees in these three states face different nominal costs, these costs should not be distinguished from "employer costs" in any strict sense.107

Data on Costs Paid by Employees. Based on these four reasons, the Academy will now include employee contributions in all tables, figures, and analysis in the annual reports on *Workers' Compensation: Benefits, Costs, and Coverage.*¹⁰⁸ The amounts for the last five years are shown in Table C.1.

The importance of the employee costs relative to the total costs of the program varies substantially among the three states. In New Mexico, the \$5.8 million of costs paid by employees represented 1.4 percent of the total costs of \$408.3 million in 2020. In Oregon, the \$32.8 million of employee costs represented 3.4 percent of the total costs of \$928.5 million for the workers' compensation program in 2020. In Washington, the employee contributions

¹⁰⁶ McLaren, Baldwin, and Boden (2018) a note in *Table 13. Workers' Compensation Cost by Type of Insurer, 1996-2016* indicates that "Employee contributions to workers' compensation costs in Washington state are included in the total from 2011 to 2016."

¹⁰⁷ Most labor economists understand that employers bear the nominal incidence of workers' compensation insurance because the premiums are paid by those employers. However, these economists assert that a substantial portion of the actual cost of workers' compensation is paid by workers in the form of wages that are lower than the workers would have received in the absence of workers' compensation. While the degree of cost shifting to workers may have changed to some degree since the 1990s, the consensus remains that it is invalid and misleading to assess who pays for the costs of the program by focusing solely on the nominal share paid by employers.

A review of the theory and empirical findings by Chelius and Burton (1994, 26) reached this conclusion: "*a substantial portion of workers' compensation costs (and even, according to some estimates, all of the costs) are shifted onto workers.* [emphasis in original]" Leigh et al. (2000, 178-79)) provide another survey of the incidence of the costs of workers compensation. They noted a lack of consensus among economists but offered this "suggestion" for the incidence of workers' compensation costs: employers 40 percent; consumers 20 percent; and workers 40 percent.

¹⁰⁸ Employee costs in these states are included in Tables 13 and 14. In Table 13, costs are allocated by using the ratios of privately insured benefits, state fund insured benefits, and self-insured benefits to total benefits.

Table C.1

Employee Costs, Employer Costs, and Benefits for States in which Employees Directly Pay for a Portion of the Workers' Compensation Program, 2016–2020

(Millions of Dollars)

	2016	2017	2018	2019	2020
New Mexico					
Employee Costs	6.0	6.1	6.2	6.3	5.8
Employer Costs	449.7	444.4	450.4	469.3	402.4
Employee Costs as a					
percent of Total Costs	1.3%	1.3%	1.4%	1.3%	1.4%
Total Costs	455.8	450.5	456.5	475.6	408.3
Benefits	308.7	296.7	300.1	318.8	286.1
Oregon					
Employee Costs	48.4	42.1	43.0	37.6	32.8
Employer Costs	958.4	985.3	971.7	991.3	928.5
Employee Costs as a					
percent of Total Costs	4.8%	4.1%	4.2%	3.7%	3.4%
Total Costs	1,006.8	1,027.4	1,014.7	1,028.9	961.3
Benefits	628.0	679.3	666.7	698.6	690.5
Washington					
Employee Costs	667.6	681.0	706.9	699.5	655.8
Employer Costs	2,515.6	2,507.0	2,527.6	2,432.4	2,264.5
Employee Costs as a					
percent of Total Costs	21.0%	21.4%	21.9%	22.3%	22.5%
Total Costs	3,183.2	3,188.0	3,234.5	3,131.9	2,920.4
Benefits	2,437.1	2,464.8	2,537.8	2,616.3	2,621.7
Total					
Employee Costs	722.1	729.2	756.1	743.4	694.5
Employer Costs	3,923.7	3,936.7	3,949.7	3,893.0	3,595.5
Total Costs	4,645.8	4,665.9	4,705.7	4,636.5	4,290.0
Benefits	3,373.8	3,440.8	3,504.6	3,633.7	3,598.3

Sources: New Mexico Workers' Compensation Administration Economic Research & Policy Bureau; Oregon Department of Consumer and Business Services; and Washington State Department of Labor & Industries.

were a much more important share of program costs than in the two other states. The costs paid by employees of \$655.8 million represented 22.5 percent of the total costs of \$2,920.4 million in Washington in 2020. The employee contribution in the three states of \$694.5 million represent only 0.7% of the national total. Nonetheless, the inclusion of the costs paid by employees provides a more accurate measure of the magnitude of the program.

Scope II—Augmented:

Workers' compensation programs for civilian workers prescribed by state or federal Laws that are paid directly by employers or workers or from general revenues of a state or federal government.

Previous Coverage of Workers' Compensation Programs in the Academy Report. Previous Coverage of Workers' Compensation Programs in the Academy Report. Data reports prior to the 2018 report (published in 2020) restricted the data on benefits, costs, and coverage to those workers' compensation programs for which the costs are paid by employers or workers in the form of (1) insurance premiums to private or public insurers, (2) direct payment by employers of benefits to workers or to health care providers, and (3) payments by workers in the form of assessments or a portion of the insurance premiums. (This represents the Standard Approach.)

The 2020 Academy Report (pp. 5-6) provides additional information on the scope of the report:

Consistent with previous editions of this report, the current report uses a *standard approach* to [determine] which workers' compensation programs to include in the estimates in all tables, figures, and the main text:

The standard approach includes workers' compensation programs prescribed by state or federal laws that are paid directly by employers or workers. The scope of this approach includes all state workers' compensation programs plus the Federal Employees' Compensation Act (FECA), which provides benefits to federal civilian employees, the portion of the Longshore and Harbor Workers Act (LHWCA) paid by employers, which provides protection to longshore, harbor, and other maritime workers, and the portion of the Black Lung Benefits Act financed by employers, which provides compensation to coal miners with black lung disease.

Analysis of the Previous Coverage of Workers'

Compensation Programs. The previous procedure used by the Academy (the Standard Approach) only considers the coverage, benefits, and costs of workers'

compensation programs that are financed by employers or workers. The exclusion of programs that are not financed by employers or workers underestimates the full extent of coverage, benefits, and costs of workers' compensation programs in the United States. Accurately measured, workers' compensation programs provide more benefits to disabled workers and their survivors than the \$62.0 billion reported by NASI for 2017 (2019 Academy *Report*: Table 1). And while, according to the 2019 Academy Report (Table 1), the costs to employers of workers' compensation in 2017 were \$97.4 billion, the total costs to the economy include not just costs directly paid by employers and workers, but the costs of the workers' compensation program paid from general revenues, which are in turn are paid for by taxes on employers and individuals. This means that past Academy reports understated both benefits and costs.

The Scope II—Augmented version of coverage includes the costs of workers' compensation programs (or portions of programs) that are funded by general revenues, and any benefits associated with the general revenue funding. This approach excludes payments under the Federal Veterans' Compensation Program due to its unique structure and magnitude relative to other workers' compensation-like programs. (The inclusion of the benefits and costs of the Federal Veterans' Compensation Program in Scope III—Expansive is discussed in the next subsection.)

Which federal programs are already included in the current coverage of workers' compensation data by relying on Scope I coverage?

- The Federal Employees Compensation Act (FECA)
 - Total benefits and direct administrative costs
- The Longshore and Harbor Workers' Compensation Act (LHWCA)
 - Total benefits and special fund administrative costs
- The Black Lung Benefits Act
 - Part C benefits, costs of past benefits, and Part C administrative costs

Which federal or state programs (or portions of programs) are added to the current coverage of workers' compensation programs by adopting Scope II—Augmented coverage?

The additional Federal programs (or portions of programs) shown in Table C.2 include:

- The Federal Employees Compensation Act (FECA)
 - Indirect administrative costs
- The Longshore and Harbor Workers' Compensation Act (LHWCA)
 - Administrative costs paid by general revenues and indirect administrative costs
- The Black Lung Benefits Act paid from general revenue
 - Part B benefits, Part B administrative costs, indirect administrative costs, and advances from the U.S. Treasury
- The Energy Employees Occupational Illness Compensation Act (EEIOCPA)
- The Radiation Exposure Compensation Act (RECA) of 1990

In addition to these Federal programs, which are funded at least in part by general revenues, Table C.2 also includes limited information on state workers' compensation programs for which benefits and/or costs are financed from general revenue and thus fall within the Scope II—Augmented definition of coverage. However, the sole state program which relies on general revenues and for which there is available data is Rhode Island. Further research is needed regarding the extent to which other state programs are general revenue financed.

The results in Table C.2 show that the additional costs associated with the Augmented Approach (Scope II) increased from \$2.646 billion in 2016 to \$4.266 billion in 2020, or by 61 percent. Over the same period, the total amount of benefits added by the Augmented Approach increased from \$1.354 billion to \$1.705 billion, which represents a 26 percent increase.

The information in Table C.3 helps to assess the difference in costs and benefits associated with the augmented approach (Table C.2), versus the standard approach. The Scope I—Standard entries in Table C.3 are the data included in the Tables and Figures in the 2020 data report. Table C.3 also includes the totals from Table C.2 showing the amounts of benefits and costs added by Scope II—Augmented.

The Standard Approach indicates that the costs of workers' compensation programs in 2020 were \$93.0 billion. The additional costs associated with the Augmented Approach were \$4.3 billion, which represents a 4.6 percent increase in costs. The combined costs of the Scope I—Standard and Scope II—Augmented measures are \$97.2 billion.

The Standard Approach indicates that the benefits provided by workers' compensation in 2020 were \$58.9 billion. The additional benefits associated with the Augmented Approach were \$1.7 billion, which represents a 2.9 percent increase in benefits. The combined benefits of the Scope I and Scope II measures in 2020 are \$60.6 billion.

Scope III—Expansive:

Workers' compensation programs for civilian workers and veterans prescribed by state or federal Laws that are paid directly by employers or workers or from general revenues of a state or the federal government

Scope III—Expansive is the most inclusive measure of the costs and benefits of workers' compensation programs because it adds data on the Federal Veterans' Compensation Program to the programs included in Scope II. The data on the detailed information on the Federal Veterans' Compensation Program are included in Appendix Table B.6. The data in Table C.4 pertain to the benefits paid to veterans "who are disabled by injury or disease incurred in or aggravated during active military service."

The results in Table C.4 show that the costs of the Federal Veterans' Compensation Program increased from \$76.7 billion in 2016 to \$106.1 billion in 2020, which is a 38.3 percent increase over five years. The benefits paid to disabled veterans

Table C.2

Costs of Workers' Compensation Programs Paid from General Revenue and Benefits Associated with those Payments: The Augmented Approach

(Millions of Dollars)

	2016	2017	2018	2019	2020
ederal Programs ^a					
FECA					
Costs	9	7	10	10	9
LHWCA					
Costs	13	13	14	14	14
Black Lung					
Costs	1,137	1,557	2,001	2,083	2,386
Benefits	99	83	72	63	57
EEIOCPA					
Costs	1,309	1,341	1,492	1,628	1,717
Benefits	1,184	1,211	1,363	1,500	1,588
Radiation					
Costs	71	60	60	62	61
Benefits	71	60	60	62	61
tate Programs ^b					
Alaska					
Costs				6	5
Oregon					
Costs	97	84	86	75	66
Rhode Island					
Costs	20	18	18	18	18
Total of					
Utal UI					
lugmented					
lugmented	2,646	3,074	3,670	3,886	4,266

a See Appendix B for more information on federal programs.

b Contact did not indicate whether revenue was used for specific purposes. We assume it is used for program administration.

Sources: U.S. Department of Labor (2021); U.S. Department of Justice (2020); and Rhode Island Department of Labor and Training.

increased from \$73.8 billion in 2016 to \$102.7 billion in 2020, which is an increase of 39.2 percent over the five-year period.

How significant are the costs and benefits associated with the Expanded Approach shown in Table C.4? The information included in Table C.5 helps answer that question. The Scope I—Standard entries in Table C.5 are the data included in the Tables and

Table C.3

Costs and Benefits of Workers' Compensation Programs in Scope I (Standard Approach) and Scope II (Augmented Approach)

(Millions of Dollars)

	2016	2017	2018	2019	2020
Scope I					
Costs	100,188	100,751	101,459	100,316	92,951
Benefits	62,678	62,108	62,976	63,017	58,927
Additional Costs and					
Benefits in Scope II					
Costs	2,646	3,074	3,670	3,886	4,266
Benefits	1,354	1,354	1,496	1,626	1,705
Scopes I and II, Cumula	tive				
Costs	102,834	103,825	105,129	104,201	97,217
Benefits	64,032	63,462	64,472	64,643	60,632

Figures in the 2022 Academy Report. Table C.5 also includes the totals from Table C.3 showing the cumulative amounts of benefits and costs associated with Scope I—Standard and Scope II—Augmented.

The cumulative amount of the Standard Approach and the Augmented Approach indicates that the costs of workers' compensation programs in 2020 were \$97.2 billion. The additional costs associated with the Expanded Approach, which includes the Federal Veterans' Compensation Program, were \$106.1 billion, a 109.1 percent increase relative to when those costs are excluded. In 2020, the Expanded Approach costs totaled \$203.3 billion. The cumulative amount of the Standard Approach and the Augmented Approach indicates that the benefits paid by workers' compensation programs in 2020 were \$60.6 billion. The additional benefits associated with the Expanded Approach were \$102.7 billion, which represents a 169.4 percent increase in benefits due to the inclusion of the Federal Veterans' Compensation Program. In 2020, the Expanded Approach benefits totaled \$163.3 billion.

Public and private programs that should not be included in the report's measures of benefits, costs, and coverage

Several programs that provide cash or medical benefits to disabled workers, their dependents, or their survivors are not included in the Academy's data because these programs do not comply with the definition of workers' compensation programs presented in this Appendix.

Public Programs

Several public programs that provide cash and/or medical benefits should continue to be excluded from Academy's reports because they do not meet the Academy's definition of workers' compensation:

- The benefits and costs of the Social Security Disability Insurance Program. This program does not meet the definition of a workers' compensation program because the benefits are not restricted to workers disabled by a work-related injury or disease.
- The benefits and costs of Temporary Disability Insurance Programs available in several states. These programs do not meet the definition of a workers' compensation program since benefits

Table C.4	1 110 10	.• 1	D					
Costs and Benefits of the Federal Veterans' Compensation Program (Millions of Dollars)								
	2016	2017	2018	2019	2020			
Costs	76,737	83,422	91,501	98,949	106,114			
Benefits	73,778	80,040	87,847	95,551	102,705			

are not restricted to workers disabled by a work-related injury or disease.

- The cash benefits, medical care, or damages received by disabled workers under the Federal Employers' Liability Act of 1908 (FELA), which applies to interstate railroad workers disabled on the job. The Act *inter alia* allows workers to sue their employers for negligence in industrial accidents.¹⁰⁹
- The cash benefits, medical care, and damages received by disabled workers under the Jones Act of 1920, which allows merchant seamen to sue their employers for negligence under statutory provisions similar to the FELA.¹¹⁰
- The benefits provided by the September 11th Victim Compensation Fund (VCF). The benefits are not limited to workers but are also available to "certain persons who lived, worked, or were near the World Trade Center on September 11, 2001." (Szymendera 2019, 2).

Programs Provided by Employers and Other Remedies

Employee benefits plans other than workers' compensation that provide cash or medical benefits to workers with disabilities should not be included as a cost of workers' compensation since the plans are not based on a statute and/or are provided to workers whether or not their disabilities are work-related. These employee benefit plans include:

 Paid sick leave, as described on page 59 in the Addendum of the 2022 Academy Report.

- Long-term disability benefits, as described on pages 60-61 of the Addendum to the 2022 Academy Report.
- Retirement benefits, as described on page 61 of the Addendum to the 2022 Academy Report.
- The damages received by workers in tort suits against employers or third parties because of negligence or other criteria for recovery (such as intentional injury). Tort suits do not meet the definition of a workers' compensation program, since the recoveries are not based on a statutory remedy and/or because the recoveries require the employer to be negligent.

Benefits and costs associated with work-related injuries and diseases that should be included in Scope I of the Academy data based on the previous analysis

Benefits and Costs that Should Continue to be Included in Scope I of the Academy Report

- All benefits and costs used to prepare the tables in the Academy's *2022 Report.*
- The benefits and costs of all special funds within the workers' compensation system should be included as benefits and costs of the program. These funds include Second Injury Funds, Guaranty Funds, Uninsured Employer Funds, Benefit Adjustment funds for long-term

¹⁰⁹ The discussion of the Federal Employers' Liability Act of 1908 (FELA) is based on Williams and Barth (1973, 50-52).

¹¹⁰ The discussion of the Jones Act of 1920 is based on Williams and Barth (1973, 52)

Table C.5

Costs and Benefits of Workers' Compensation Programs in Scope I (Standard Approach), in Scope II (Augmented Approach), and Scope III (Expanded Approach) (Millions of Dollars)

	2016	2017	2018	2019	2020
Scope I					
Costs	100,188	100,751	101,459	100,316	92,951
Benefits	62,678	62,108	62,976	63,017	58,927
Scopes I and II,					
Cumulative					
Costs	102,834	103,825	105,129	104,201	97,217
Benefits	64,032	63,462	64,472	64,643	60,632
Additional Costs and					
Benefits in Scope III					
Costs	76,737	83,422	91,501	98,949	106,114
Benefits	73,778	80,040	87,847	95,551	102,705
Scopes I, II, and					
III, Cumulative					
Costs	179,571	187,247	196,630	203,150	203,331
Benefits	137,810	143,502	152,319	160,194	163,337

beneficiaries, Occupational Disease Funds, and Return-to-work funds, among others.¹¹¹

Direct payments by workers to a workers' compensation program should be included as costs of the program. As previously discussed, the payments by workers in New Mexico, Oregon, and Washington were included the Standard Approach beginning with the 2019 Academy Report on 2017 data.

Benefits and Costs that Should be Added to Scope I—Standard of the Academy Report (To the Extent these Benefits and Costs are not Already Included)

 The expenses incurred by state or federal agencies that administer workers' compensation programs should be included as a cost of the programs. These expenses should include all items in an agency's budget, including interest payments. In some states, the agencies' costs are included as assessments on premiums charged by carriers and/or in assessments on self-insuring employers. In some state or federal programs, some or all of these administrative costs are paid from general revenues. All of these costs of administering the program should be included.

Medical rehabilitation or vocational rehabilitation benefits that are a component of a state's workers' compensation program should be included as a benefit and a cost of the state's workers' compensation programs. However, vocational rehabilitation benefits for persons

¹¹¹ A compilation of the various types of special funds then in existence and of the variety of financing mechanisms for the funds is provided by Larson and Burton (1985, 117-57).

with disabilities provided by the federal-state Vocational Rehabilitation (VR) Program should not be considered benefits or costs of the workers' compensation program, since these benefits are provided to many persons for whom the source of disability is not work-related.

Expenditures for the prevention of injuries or diseases are already included in the Academy's estimates of the costs of workers' compensation if they are included in the premiums paid to workers' compensation carriers. The costs of workers' compensation should also include safety and health programs if the expenditures are included in the budgets of workers' compensation agencies. However, expenditures for the prevention of injuries or diseases should be excluded from the Academy estimates of the costs of workers' compensation if they are made by separate state or federal agencies, such as the Occupational Safety and Health Administration (OSHA). Expenditures for the prevention of injury or diseases should also be excluded from Academy estimates of the costs of workers' compensation if they are incurred by employers or workers but not included in workers' compensation premiums paid by employers or in payments by workers to the program. These excluded expenditures are important to improving workplace safety and health, but as a practical matter are beyond the scope of this report.

Benefits and costs that should continue to be excluded from the Academy report

The losses to workers of earnings (including wages or other employer-provided benefits) as a result of work-related injuries or diseases that are not compensated by workers' compensation programs should be excluded. The measurement of these losses is a legitimate and important subject for researchers and policy makers but is beyond the scope of the Academy reports. These losses include:

- Lost earnings that are not compensated because not all employers and employees are covered by workers' compensation programs
- Lost earnings that are not compensated because not all work-related injuries and diseases meet the compensability rules of workers' compensation programs

- Lost earnings during the temporary disability period that are not compensated because of waiting periods, maximum weekly benefits, replacement rates of less than less than 100 percent, or duration limits on temporary disability benefits.
- Lost earnings during the permanent disability periods that are not compensated because of maximum weekly benefits, replacement rates of less than 100 percent, or duration limits on permanent partial and permanent total disability benefits.
- Earnings losses of deceased workers that are not considered in determining death benefits because of maximum weekly benefits, replacement rates of less than 100 percent, or duration limits on survivors' benefits.
- The risk premiums in the wages received by workers for performing jobs with risks of injury or disease should not be included as benefits for workers or as costs for employers. The risk premiums are a legitimate and important subject for researchers and policy makers but are beyond the scope of this report.
- Employee benefits which go toward attorney's fees. The level of attorneys' fees is a legitimate and important subject for researchers and policy makers but is beyond scope of this report.
- Potential losses in workers' compensation cases that are settled with compromise and release (C&R) agreements, in which the workers and the employer (or insurance carrier) agree on a compromise on the amount of the benefits, the benefits are paid in a lump sum, and the employer is absolved of additional liability for the injury. These benefits should be captured in our state questionnaires under "compromise lump sum settlements", though any losses associated with the present value of a settlement potentially being lower than that of the claim which is settled are not discussed. There have been several studies of the effect of C&R agreements, which perhaps should be mentioned in the text of the Academy of annual report, but research on this topic is complicated and beyond the capability of the Academy.

The loss of tax revenues to federal, state, and local governments because workers' compensation benefits are not taxable. There are costs to the governments in the loss of tax revenue, and there are benefits to workers because the benefits replace a higher percentage of lost wages than if benefits were taxable. The tax-free status of workers' compensation benefits is also probably advantageous to employers because the benefits are more adequate than taxable benefits would be, thus reducing the pressures on state legislatures to increase cash benefits. However, the effect of workers' compensation benefits not being taxable is beyond the scope of this report.

Appendix D: Workers' Compensation under State Laws

Table D identifies the parameters that determine workers' compensation benefits under the current laws in each jurisdiction.

The benefit parameters defined in this table include the following:

- The waiting period before a worker becomes eligible for cash benefits.
- The retroactive period when a worker becomes eligible for compensation for the waiting period.
- The minimum and maximum weekly benefit payments for temporary total disability.

- The maximum duration of temporary total disability benefits.
- The maximum weekly benefit and benefit limitations for permanent partial disability.
- The maximum weekly benefit and benefit limitations for permanent total disability.
- The maximum weekly benefit and benefit limitations for death benefits.

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Death Benefits (DB)	Statutory Limit for Dependency Benefits	500 weeks	12 years ^c	Noned	\$225,875; benefit in excess payable from Death and PD Trust Fund; stop at 18 for children, or 25 for full-time students	\$320,000 Spouse plus Children ^g	Noned	None	None	None
Death Be	Max Weekly Benefit ^a	\$920	\$1,298	\$1,258	\$736	\$1,299	\$1,159	\$1,373	Spouse = \$748 With Children = \$897	\$1,554
Permanent Partial Disability (PPD)	Max Benefit for "Unscheduled Injuries"	300 weeks	No unscheduled PPD	None unless rearranged by Industrial Commission	450 weeks	anon	400 weeks ^I h	520 weeks plus healing period	300 weeks	500 weeks; may petition for additional 167 weeks
Permanent Par	Max Weekly Benefit	\$920	% of impairment x \$177k, paid in lump sum ^b	\$1,258	\$552	4	\$337 for scheduled injuries; \$1,159 unscheduled	\$1,373	\$748	\$1,554
	Limit to Monetary PTD Benefits	None	None	None	None	None	213,819	None	None	None
sability (PTD)	Max Duration (Weeks)	300	N	oN	Q	N	No	N	°N N	2
Permanent Total Disability (PTD)	Max Weekly Benefit	\$920	\$1,298	\$1,258	\$736	\$1,299	\$1,159	\$1,373	\$748	\$1,554
Реп	Basis of PTD Calculation	66 2/3% PIWW	80% of spendable earnings	66 2/3% AMW	66 2/3% PIWW	66 2/3 of AWW	66 2/3% of AWW	75% (of after-tax income)	66 2/3% AWW	66 2/3% PIWW
lity (TTD)	Max Duration (Weeks)	Duration of TTD disability	Until medically stable	Duration of TTD disability	450 weeks	104 weeks ^e	Duration of TTD disability	Duration of TTD disability	Duration of TTD disability	Duration of TTD disability
ws as of 2021 Temporary Total Disability (TTD)	Max Weekly Benefit	\$920	\$1,298	\$1,258	\$736	\$1,299	\$1,159	\$1,373	\$748	\$1,554
ce Laws as o Tempor	Min Weekly Benefit	\$253	\$286	n/a	\$20	\$195	\$364	\$275 or 75% of AWW	\$249	\$388
tion Sta	Retro- active Period	21 days	28 days	14 days	14 days	14 days	14 days	7 days	7 days	14 days
Workers' Compensation State Laws as of 2021 Waiting Period Temporary Total	Waiting Period	3 days, TTD only	3 days, for income benefits only	7 days	7 days	3 days	3 days	3 days	3 days	3 days
Workers	State	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	District of Columbia

\$150,000	\$270,000 for surviving spouse with no dependents; 400 weeks or until age 65 if spouse remarries	312 weeks	500 weeks	\$500,000 or 25 years ^d	\$390,000 or 500 weeks d	Noned	\$300,000	None	None
\$1,011 ^j	\$675	Spouse = \$683 With Children = \$91	Spouse = \$367 With Children = \$489	\$1,614	\$780	\$1,864	\$687	Spouse = \$504 With Children = \$757	\$705
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 weeks	312 weeks	500 weeks	500 weeks	\$390,000	500 weeks	415 weeks; functional impairment only = \$75,000, all other cases = \$130,000	425 weeks if rating is 50% or less; 520 wks if over 50%; limited to qualification for normal old age Social Security	520 weeks
069\$	\$675	\$911	\$448	\$872	\$780	\$1,715	\$687	\$757	\$705
None	None	None	None	None	\$390,000	None	\$155,000	None	None
Age 75 ¹	400	°Z	°Z	N	500 weeks ^L	Q	2	2	Q
\$1,011	\$675	\$911	\$734	\$1,614	\$780	\$1,864	\$687	\$1,010	\$705
66 2/3% PIWW	66 2/3% PIWW	66 2/3% PIWW	67% of AWW	66 2/3% AWW	66 2/3% AWW	80% (of spendable earnings)	66 2/3% AWW	66 2/3% AWW	66 2/3% PIWW
260 weeks, for other injuries 6 months	400 weeks unless catastrophic injury	Duration of TTD disability	Duration of TTD disability. Benefit continues in recovery period.	Duration of TTD disability	500 weeks $^{\mathrm{L}}$	Duration of TTD disability	Duration of TTD disability	Duration of TTD disability, injuries & diseases after 7/14/18, award terminates upon age 70	Duration of TTD disability
\$1,011	\$675	\$911	\$734	\$1,614	\$780	\$1,864	\$687	\$1,010	\$705
\$20	θ Ο	\$228	\$122	Varies w/ dependency ^K	\$50	35% SAWW; \$326	\$458	\$184	\$188
21 days	21 days	None	14 days	14 days	21 days	14 days	21 con- secutive days	14 days	14 days
7 days	7 days	3 days, TTD only	5 days	3 days, TTD only	7 days	3 days; no waiting period for PPD	7 days	7 days	7 days
Florida	Georgia	Hawaii	Idaho	Illinois	Indiana	lowa	Kansas	Kentucky	Louisiana

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Waiting Period Temporary Total Disability (TTD) Waiting Period Temporary Total Disability (TTD) State Waiting Retro- Period Min Max. Retro- Reduct Basis Maine 7 days ^{III} 14 days None \$1,112 \$20 weeks ^{III} Basis Maryland 3 days, TTD After 14 \$50 \$1,050 Duration of TTD 66 20% Maryland 3 days, TTD After 14 \$50 \$1,050 Duration of TTD 66 20% Maryland 3 days, TTD After 14 \$50 \$1,060 Duration of TTD 66 20% Michigan 7 days 14 days \$271 \$1,083 Duration of TTD 66 20% Michigan 7 days 14 days \$271 \$1,488 156 weeks 66 20% Michigan 7 days 14 days \$271 \$1,488 156 weeks 60% (of si Michigan 7 days 14 days \$211 \$1,650 Duration of TTD 66 20% Michigan 7 days 14 days \$2	Table D continued Workers' Compensation State Laws as of 2019 (implemented at various points)	(S						
Waiting Period Retro- scrive Period Min Benefit Max Weekly Benefit Max Weekly Benefit Max Weekly Benefit Max Weekly Benefit Max Weekly Benefit Max Benefit Max Weekly Benefit Max Benefit Mate Benefit Max Bene	ity (TTD)	Permanent Total Disability (PTD)	isability (PTD)		Permanent Par	Permanent Partial Disability (PPD	Death]	Death Benefits (DB)
7 days ^{TIT} 14 days None \$1,112 520 weeks ^{TI} 3 days, TTD After 14 \$50 \$1,050 Duration of TTD 3 days, TTD After 14 \$50 \$1,050 Duration of TTD 3 days, TTD days 20% SAWW; \$1,650 Duration of TTD 6 days 21 days 20% SAWW; \$1,488 156 weeks 7 days 14 days \$2298 \$1,1674 90 days after 7 days 14 days \$271 \$1,083 Duration of TTD 8 3 days 10 days \$130 or \$1,1674 90 days after a 3 days 10 days \$130 or \$1,1674 90 days after a 3 days 10 days \$167 90 days after a 3 days 10 days \$5,000 \$1,000 \$1,000 a 3 days 10 days \$1,003 \$1,000 \$1,000 a 3 days 10 days \$1,004 \$1,000 \$1,000 \$1,000 a 3 days 14 days \$25 \$5,23 450 weeks \$1,00	Max Basis of Duration PTD (Weeks) Calculation	Max Weekly Benefit	Max Duration (Weeks)	Limit to Monetary PTD Benefits	Max Weekly Benefit	Max Benefit for "Unscheduled Injuries"	Max Weekly Benefit ^a	Statutory Limit for Dependency Benefits
3 days, TTD After 14 \$50 \$1,050 Duration of TTD only days 21 days 20% SAWW; \$1,488 156 weeks 5 days 21 days 20% SAWW; \$1,488 156 weeks isability 7 days 21 days 20% SAWW; \$1,600 Duration of TTD disability 7 days 14 days \$271 \$1,083 Duration of TTD disability a 3 days 10 days \$130 or \$1,1674 90 days after MMI or atter end a 3 days 10 days \$130 or \$1,1674 90 days after increating, up ine worker's \$1,1674 90 days after increating, up whichever of retraining, up is less 10 days \$255 \$523 450 weeks 3630 stifty up of adys 14 days \$255 \$523 450 weeks 360 weeks	520 weeks ^{II} 66 2/3% AWW; 80% after-tax AWW injuries prior to 1/13	% \$1 ,112 3	2	None	\$1,112	None	\$1,112; \$899 from 1/13-12/19; \$800 from 1/93-12/12	500 weeks
5 days 21 days 20% SAWW; \$1,488 156 weeks 7 days 14 days \$221 \$1,488 156 weeks 7 days 14 days \$271 \$1,083 Duration of TTD 7 days 14 days \$271 \$1,083 Duration of TTD 8 3 days 10 days \$130 or \$1,1674 90 days after 9 actual wage, the worker's \$1,1674 90 days after 10 days after 1 8 \$10 days \$10 days \$10 days \$10 days after 10 days after 1 5 days 10 days \$10 days \$10 days after 10 days after 1 5 days 14 days \$255 \$523 450 weeks 1 5 days 14 days \$341 \$1,012 400 weeks 1 90 days after 14 days \$523 450 weeks 160 weeks 1 5 days 14 days \$343 1012 400 weeks 170 weeks 1 90 days after \$1,012 \$1,012 400 weeks 170 weeks 170 weeks 170 weeks	Duration of TTD 66 2/3% PIWW disability	\$1,050	Ø	None	\$788	None	\$1,050	144 months ^o
7 days 14 days \$271 \$1,083 Duration of TTD disability a 3 days 10 days \$130 or \$1,1679 90 days after a 3 days 10 days \$130 or \$1,1679 90 days after in exclual wage, whichever worker's %1,1679 90 days after actual wage, whichever of retraining, up whichever sctual wage, is less of retraining, up in 5 days ^T 14 days \$25 \$523 450 weeks of adys of 32 21 days None \$849 Disability until hours, or more ^S or more ^S or more ^S or more ^S	156 weeks 60% AWW	\$1,488	260	None	\$1,488	None	SAWW at time of death; \$1,488	250 weeks; time limit does not apply to children ^d
a 3 days 10 days \$130 or \$1,1674 90 days after after and the worker's the worker's actual wage, actual of 130 is less MMI or after and of fertaining, up weeks oi 5 days ^T 14 days \$25 \$523 450 weeks oi 5 days ^T 14 days \$41 \$1,012 400 weeks 3 days 14 days \$41 \$1,012 400 weeks whichever 5 days or 32 21 days 0 Disability until hours, or more ^s	Duration of TTD 80% (of spendable disability earnings)	e \$1,083	800 weeksP	None	\$975	None	\$975	500 weeks; time limit does not apply to children
bi 5 days ^T 14 days \$25 \$523 450 weeks 3 days 14 days \$41 \$1,012 400 weeks 4 days or 32 21 days None \$849 Disability until hours, or more ^S whichever are identified and	90 days after 66 2/3% PIWW MMI or after end of retraining, up to a total of 130 weeks	\$1,1679	Until age 72 or 5 years after injury, whichever is later	None	\$1,1679	\$540,800	\$1,1679	Benefits end after 10 years or 10 years after the last child is no longer depen- dent, minimum payable is \$60,000
3 days 14 days \$41 \$1,012 400 weeks 4 days or 32 21 days None \$849 Disability until hours hours, whichever or more ^S MM, restrictions	450 weeks 66 2/3% AWW	\$523	450	\$235,422	\$523	450 weeks	\$523	450 weeks or \$222,516
4 days or 32 21 days None \$849 Disability until hours hours, or more ^s MMI, restrictions whichever are identified and	400 weeks 66 2/3% PIWW	\$1,012	No	None	\$1,012	400 weeks	\$1,012	Noned
is less job analyses are approved, or return to work	Disability until 66 2/3% PIWW MMI, restrictions are identified and lob analyses are approved, or return to work	\$849	Until injured worker qualifies for normal old age Social Security benefit	None	\$424	400 weeks	\$849	benefits cease to spouse at 500 weeks or upon remarriage but continue to any other beneficiaries
Nebraska 7 days 42 days \$49 \$914 Until MMI or 66 2/3% Rebraska 7 days \$49 \$914 Until MMI or 66 2/3%	Until MMI or 66 2/3% PIWW return to work	\$914	NO	None	\$914	300 weeks	\$914	None
Nevada 5 days ^t 5 days ^t None \$935 Duration of 66 2/3% TTD disability	Duration of 66 2/3% PIWW TTD disability	\$935	9	Per maximum compensation limit and formula	\$935	Benefits paid for 5 years or to age 70, whichever is later	\$935	None

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None	Lifetime with exceptions	700 weeks ^d	Noned	500 weeks	\$300,000 ^d	Noned	Noned	None	None	None, but ceases upon remarriage if no dependent children
\$1,686	\$96\$	\$883	\$967	\$1,102	\$1,292	\$1,1019	Spouse = \$629 With Children = \$899	Spouse = \$729 With Children = \$1,458	\$1,130	\$1,304
350 weeks for a whole person award	600 weeks	\$557,872 if dis- ability rating > 80%; \$398,480 if < 80%	525 weeks if loss of earning capacity greater than 95%	\$20,000	1500 weeks	225 weeks	350 weeks	None	500 weeks	312 weeks, extendable ff injury causes material obstacle to employment
\$1,686	\$969	\$883	296\$	\$1,102	\$362	\$340	\$350	\$ 1,454W	\$1,130	\$1,304
None	None	None	None	None	None	None	None	None	None	None
N	600 weeks	2	°N N	500 weeks ^v	Until injured worker qualifies for normal old age Social Security benefit	°Z	15 years or upon reaching Social Security retirement age, whichever is longer	Lifetime plus bene- fits to surviving spouse and children	Disability up to 500 weeks	8
\$1,686	\$963	\$883	\$967	\$1,102	\$1,292	\$1019; \$679 if getting Social Security Retirement	66 88 8	\$1,454W	\$1,130	\$1,304
90% of after-tax AWW	70% PIWW	66 2/3% PIWW	66 2/3% PIWW	66 2/3% PIWW	66 2/3% PIWW	72% PIWW for the first 12 weeks; 66 2/3% thereafter	70% AWW	66 2/3% PIWW	66 2/3%	75% (of spendable income)
Duration of TTD disability	400 weeks	Disability rating of 80% or higher = 700 weeks; lower than 80% = 500 weeks	Duration of TTD disability	Duration of TTD disability	104 weeks or MMI 260 weeks	Duration of TTD disability	104 weeks, with additional 52 weeks if consequential injury found	Duration of TTD disability	Duration of TDD disability subject to conversion to partial benefits at 104 weeks ^X	Duration of TTD disability
\$1,686	\$969	\$883	\$967	\$1,102	\$1,292	\$1019; \$679 if getting Social Security Retirement	\$629	\$1,454	\$1,130	\$1,304, up to 80% AWW
\$337 ^u	\$258	\$36	\$100	\$30	\$620	\$340	None	Not less than \$50 or 90% AWW; which- ever is less	90% AWW If AWW is \$628 or less	None
14 days or more	7 days	28 days	14 days	21 days	5 days	14 days	None	14 days	14 days	No payment for waiting period days
3 days	7 days	7 days	7 days, wage replacement benefits only	7 days	5 days	7 days	3 days, TTD only	3 days	7 days	3 days
New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island

Table D continued

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	Waiting Period	Period	Tempora	Temporary Total Disability (TTD)	ility (TTD)	Perm	anent Total D	Permanent Total Disability (PTD)		Permanent Partia	Permanent Partial Disability (PPD)	Death]	Death Benefits (DB)
State	Waiting Period	Retro- active Period	Min Weekly Benefit	Max Weekly Benefit	Max Duration (Weeks)	Basis of PTD Calculation	Max Weekly Benefit	Max Duration (Weeks)	Limit to Monetary PTD Benefits	Max Weekly Benefit	Max Benefit for "Unscheduled Injuries"	Max Weekly Benefit ^a	Statutory Limit for Dependency Benefits
South Carolina	7 days	14 days	\$75 if wages are >\$75; otherwise, comp rate is equal to wages	\$903	Up to 500 weeks	66 2/3% PIWW	£06\$	500 weeks ^y	\$451,700	\$602	340 weeks	£06\$	500 weeks
South Dakota	t 7 consecutive days, TTD only	7 days	\$415	\$829	Duration of TTD disability	66 2/3% PIWW	\$829	N	None	\$829	312 weeks	Spouse = \$829 With Children = \$829 + \$50 per child	Noned
Tennessee	7 days	14 days	\$149	\$1,093	450 weeks	66 2/3% PIWW	\$994	Until eligible for Social Security retirement	None	\$994	450 weeks	\$994	None, but ceases upon remarriage if no dependent children
Texas	7 days	14 days	\$151	\$1,007	104 weeks	TTD 70% AWW; PTD 75%; PPD 70%	\$1,007	N	None	\$705	401 weeks	\$1,007	Noned
Utah	3 days	14 days	\$45	\$954	312 weeks	66 2/3% AWW at time of injury not to exceed 85% of the SAWW	\$954	No ^z	None	\$636	312 weeks	\$954	None; if spouse remarries, receives 52 weeks compensation in lump sum
Vermont	3 days TTD; 8 days PTD; no waiting period for medical benefits	10 days, TTD only	\$514	\$1,542	Duration of disability; insurer must review after 2 years	66 2/3% PIWW	\$1,542	Ŷ	None	\$1,542	405 weeks for non-spinal; 550 weeks spinal	\$1,542	None ^{aa}
Virginia	7 days	21 days	\$284	\$1,137	500 weeks	66 2/3% PIWW	\$1,137	No	None	\$1,137	500 weeks	\$1,195	500 weeks
Washington	The 3 days immediately following the DOI	14 calendar days im- mediately following the DOI	Varies with depen- dents ^a b	\$1,608	Duration of TTD disability	60% to 75% (depending on marital status and number of children)	\$1,608	None	None	\$1,608	\$205,485	\$1,608	Noned (exceptions for duty related law enforcement and fire fighter deaths)

66 2/3% PIWW \$885 Payable until None \$606 None, benefits age 70, for all PTD awards granted on or after 07/1/2003	66 2/3% PIWW \$1,094 No None \$362 1,000 weeks, not to exceed 4 times the average annual earnings of deceased worker	66 2/3% PIMW \$946; 1/21 Paid for 80 None \$641 None 2x the 100 months or SAMW months then months then SAMW + can apply for SAMW + can apply for or SAMW benefit becomes extended PTD s550 per benefits at 1/3rd s750 per benefits at 1/3rd and extended PTD must be entended PTD standed and attended annually annually annually annually annually annually annually	Ber both "Sponse Only" and "Sponse plus Children" unless otherwise moted. Unless daimant is in a reemployment training program, in which case PPI benefits can be paid at the weekly TTD rates. Unless daimant is in a reemployment training program, in which case PPI benefits can be paid at the weekly TTD rates. Unless daimant is in a reemployment training program, in which case PPI benefits can be paid at the weekly TTD rates. Use often payals to workower cases: 12 years strate effect date, unless at time of each widower cases are of any age while they are attending high school. There are some limited exceptions where benefits can be paid for 240 weeks. Exe California Labor Code Section 4658. Amount my be higher based on Labor Code 4703.5. Core 3: years following determination of PTD for an accident date on or after an employer eaches age 70. Core 4: years following determination of PTD for an accident date on or after an employer eaches age 70. Core 5: Section 4658. Core 6: Section 4658. Core 5: Section 4658. C	consecutive calendar days. Unless the worker waives the retroactive bayment and receives sick leave benefit from the employer instead.
104 weeks	Duration of TTD disability	24 months or in extraordinary circumstances may extend beyond to provide a reasonable recooperation period	For both "Spouse Only" and "Spouse plus Children" unless otherwise noted. Unless claimant is in a reemployment training program, in which case PPI benefits can be Benefit payable to widower ceases 12 years after death date, unless at time of death widow 19 or older and is wholly dependent upon the deceased employee and incapable of self-sur years of vocational school, trade school, or college; and persons of any age while they are at Two-year lump sum upon remarriage by surviving spouse. There are some limited exceptions where benefits can be paid for 240 weeks. See California Labor Code Section 4658. Amount may be higher based on Labor Code 4703.5. Or at 5 years following determination of PTD for an accident date on or after an employe Benefits can extend beyond age 75 if the individual does not qualify for Social Security be benefits. Spouse also entitled to tuition benefit at vocational technical center or community college. Illinois—Minimum TTD rate and PPD rate if not amputation of a body member or enuc dependents. In all cases, claimant receives rate based on actual wages if less than statutory 1 After 500 weeks, additional benefits are payable from second injury fund in 150-week inct Does not apply to firefighters. 520 weeks under \$213. No durational limit under \$212. 144 months or on the date of what would have been the 70th birthday of the deceased em 800 weeks conclusive payment with factual determination therefatet. 102% of SAWW.	ceives sick leave benef
\$885	\$1,094	\$946; 1/21 (updated quarterly)	For both "Spouse Only" and "Spouse plus Children" unless otherwis Unless claimant is in a reemployment training program, in which cas Benefit payable to widower ceases 12 years after death date, unless at 19 or older and is wholly dependent upon the deceased employee an years of vocational school, trade school, or college; and persons of an Two-year lump sum upon remarriage by surviving spouse. There are some limited exceptions where benefits can be paid for 24(See California Labor Code Section 4658. Amount may be higher based on Labor Code 4703.5. Or at 5 years following determination of PTD for an accident date o Benefits can extend beyond age 75 if the individual does not qualify benefits. Spouse also entitled to tuition benefit at vocational technical center o Illinois—Minimum TTD rate and PPD rate if not amputation of a dependents. In all cases, claimant receives rate based on actual wages After 500 weeks, additional benefits are payable from second injury f Does not apply to firefighters. 520 weeks under §213. No durational limit under §212. 144 months or on the date of what would have been the 70th birthd 800 weeks conclusive payment with factual determination therefater. 102% of SAWW.	ayment and rec
\$193	50	SAMW (\$283.80 1/21), or capped at 100% AMW	For both "Spouse Only" and "Spouse plus Children" u Unless claimant is in a reemployment training program Benefit payable to widower ceases 12 years after death 19 or older and is wholly dependent upon the decease years of vocational school, trade school, or college; and Two-year lump sum upon remarriage by surviving spo There are some limited exceptions where benefits can See California Labor Code Section 4658. Amount may be higher based on Labor Code 4703.5. Or at 5 years following determination of PTD for an 6 Benefits can extend beyond age 75 if the individual do benefits. Spouse also entitled to tuition benefit at vocational tec Illinois—Minimum TTD rate and PPD rate if not arr dependents. In all cases, claimant receives rate based on After 500 weeks, additional benefits are payable from 3 Does not apply to firefighters. 520 weeks under \$213. No durational limit under \$2 144 months or on the date of what would have been t 800 weeks conclusive payment with factual determina 102% of SAWW.	e retroactive p
7 con- secutive days	7 non- consecu- tive days	9 days	se Only" and to widower is wholly de nal school, tr sum upon rt limited exce abor Code 5 abor code 5 a	ndar days. er waives the
3 days	3 days	3 days	For both "Spouse Only" and " Unless claimant is in a reemple Benefit payable to widower ce 19 or older and is wholly depe years of vocational school, trac Two-year lump sum upon rem There are some limited except See California Labor Code Sec Amount may be higher based Or at 5 years following determ Benefits can extend beyond ag benefits. Spouse also entitled to tuition Illinois—Minimum TTD rate dependents. In all cases, claim After 500 weeks, additional be Does not apply to firefighters. 520 weeks under \$213. No du 144 months or on the date of 800 weeks conclusive paymen 102% of SAWW.	consecutive calendar days. Unless the worker waives
West Virginia	Wisconsin	Wyoming	a For b Unl b Unl 19 c b Unl 19 c b Ben b See b Ben b Do b Do b Do b Do b Do b Do c D Do c D D D c D D D D c D D D D D D D D D D	con s Unl

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- u If AWW is 30 percent or less of SAWW, employee is compensated at rate equal to their AWW, but not to exceed 90 percent of employee's after-tax earnings.
- v And extended by commission if employee has sustained a total loss of wage-earning capacity.
- w If the worker returns to work, the workers' wages plus PTD may not exceed the workers' wage at injury.
- Disability under PA laws means loss of earning power. PA law allows employer/insurer 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.
- y Except for paraplegic, quadrpalegic, or brain damage benefits for life.
- z PTD benefits are awarded for life, but PTD status may be reexamined by submitting employee to reasonable medical evaluations, rehabilitation & retraining efforts, disclosure of Federal Income Tax returns.
- aa There is no statutory limit but after minimum of 330 weeks spousal benefits end at age 62 when eligible for Social Security, or with remarriage.
- ab \$43.19 if DOI prior to 7/08. If DOI after 7/08, 15% of the statewide SAMW+\$10 for spouse+\$10 for each dependent up to 5 dependents, capped at 100% gross wages.

PIWW	Pre-injury Weekly wage
PIMW	Pre-injury Monthly wage
AWW	Average weekly wage
NWW	Net weekly wage
SAWW	State-wide average weekly wage
SAMW	State-wide average monthly wage
AMW	Average Monthly wage

Sources: U.S. Chamber of Commerce (2021); Alaska Department of Labor and Workforce Development; Colorado Division of Workers' Compensation; Delaware Department of Labor; Kentucky Department of Workers' Claims; Louisiana Department of Labor; Massachusetts Labor and Workforce Department; Minnesota Labor and Industry; New York Workers' Compensation Board; North Dakota Workforce Safety & Insurance; Ohio Bureau of Workers' Compensation; South Dakota Department of Labor and Regulation; Washington Department of Labor and Industries; Wyoming Department of Workforce Services

Appendix E: Comparing the NASI and Oregon Workers' Compensation Reports

Information on state workers' compensation costs can be compiled from a variety of sources, using various methods that are tailored to specific uses. There is no single method that is appropriate to all uses. Appendix E compares the sources and methods used to prepare two of the most widely known publications that relate to employer cost across states, done by NASI and the State of Oregon. It is important to note that neither study is designed to evaluate the effectiveness or efficiency of state systems, an analysis that would require a very different approach.

Title/type of report	National Academy of Social Insurance, Workers' Compensation Benefits, Costs, and Coverage	Oregon Dept. of Consumer and Business Services, <i>Oregon Workers' Compensation</i> <i>Premium Rate Ranking</i>
Purpose of study	Provides information on annual worker's compensation benefits, costs, and coverage that SSA provided until 1995, at both the national and state levels, so that researchers, policymakers, others can assess trends etc.	To compare Oregon's worker's compensation premium rates with those of other states, initially because the state had one of the highest rates in the US. Results are reported to the Oregon legislature as a performance measure on the relative costs of doing business and are used similarly by other states and business organizations.
Data/ information provided	As per the title, provides data on national- and state-level worker's compensation benefits, costs, and coverage	"Compares average manual rates, rates for expected claim costs plus factors for insurer expense and profit"
Frequency of Publication	Annual since 1997	Biannual (every other year) since 1986
Data source(s)	State agency surveys, A.M. Best, NCCI, estimates based on these and on state public reports	State rate-making data from NCCI and other rating agencies, and state insurance regulators.
50 states and DC	Yes	Yes
In which ways are data comparable across states?	For every state, the report provides benefits, costs, and coverage (and benefits and costs standardized to per \$100 of wages)	Comparable based on Oregon's industry mix; uses NCCI classification codes to establish constant set of risk classifications for each state.*
Caveats in interpreting the data	This report aggregates costs to employers and benefits paid to employees and medical care providers. It does not include any adjustment for industrial mix across states, so it is impossible to know whether a state with lower costs is safer due to industrial mix, safer due to better safety practices within industries, more efficient in providing benefits, or poses greater barriers for injured workers to access workers' compensation benefits. With no standardization of differences in injury risk across states, assessing the impact of a state's laws on benefit and cost levels is difficult and not comparable across states.	This report compares base insurance rates between states for the same industries. It is impossible to know whether a state with lower rates has employers with better safety practices, is more efficient in providing benefits, or sets up greater barriers for injured workers to access workers' compensation benefits. Self-insured employers are not included, and benefits are beyond the scope of the study.

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* In states that do not use the NCCI classification system, the report uses classes similar to the NCCI classes.

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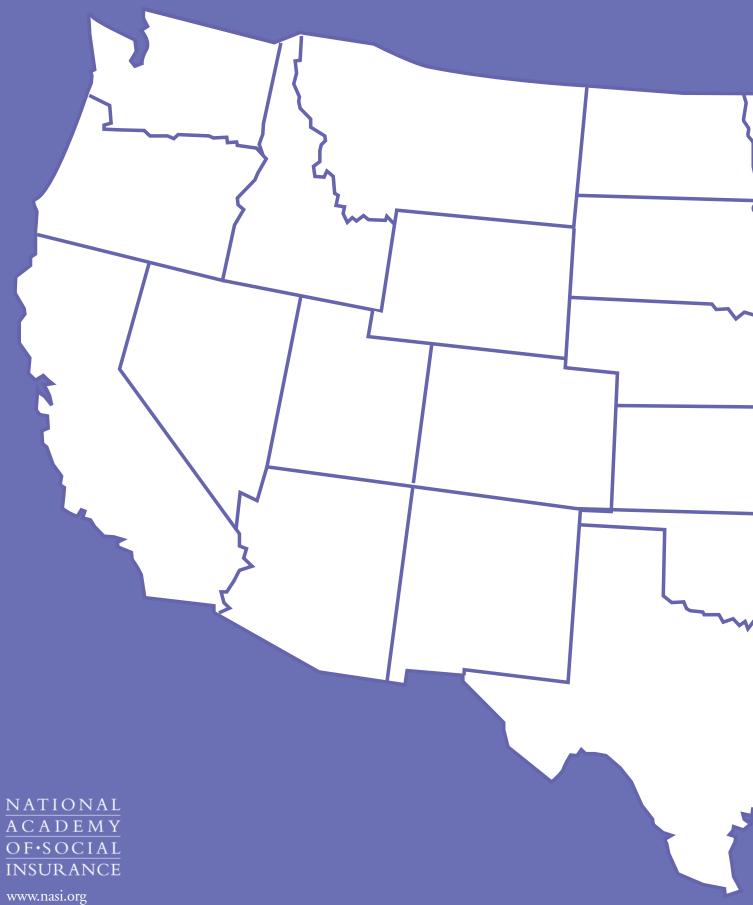
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