Workers' Compensation:

Benefits, Coverage, and Costs, **2000** New Estimates

June 2002 NATIONAL ACADEMY OF·SOCIAL INSURANCE

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This research report presents new data and does not make recommendations. It was prepared with the guidance of the Workers' Compensation Steering Committee and Study Panel on National Data on Workers' Compensation. In accordance with procedures of the Academy, it has been reviewed by a committee for the Board for completeness, accuracy, clarity, and objectivity.

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by

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with advice of the

Study Panel on National Data on Workers' Compensation

and the

Steering Committee on Workers' Compensation

June, 2002

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

Preface

Workers' compensation programs have undergone many changes in recent decades. Total benefits paid for medical care and cash benefits for injured workers rose dramatically during the 1980s, and then declined sharply during most of the 1990s. This report presents new data on developments in 2000.

Because workers compensation statutes are enacted and administered at the state level, it is difficult to get a complete picture of national developments. Until 1993, the only comprehensive national data on workers' compensation benefits and costs were produced by the U.S. Social Security Administration (SSA). For more than four decades, SSA's Office of Research, Evaluation, and Statistics filled part of the void in workers' compensation data by piecing together information from various sources to estimate the number of workers covered, and, for each state and nationally, the aggregate benefits paid. SSA discontinued the series in 1995 after publishing data for 1992-93.

The SSA data on workers' compensation were a valuable reference for employer groups, insurance organizations, unions, and researchers, who relied on them as the most comprehensive and objective information available. Users of the data turned to the National Academy of Social Insurance as a reliable and independent source to continue and improve upon the data series. The need to continue the series remains particularly urgent as workers' compensation programs are changing rapidly.

In February 1997, the Academy received start-up funding from The Robert Wood Johnson Foundation to launch a research initiative in workers' compensation with its first task to develop methods to continue the national data series. Additional funds have been secured from the Liberty Mutual Insurance Company, the Health Care Financing Administration, the Social Security Administration, the Workers' Compensation Research Institute, and the Labor Management Group. In addition, the National Council on Compensation Insurance provided access to important data for the project. Without support from these sources, continuing this vital data series would not have been possible.

To set its agenda and oversee its activities in workers' compensation, the Academy convened the Workers'

Compensation Steering Committee, listed on page iii. To provide technical expertise for the data report, it convened the Study Panel on National Data on Workers' Compensation, listed on page iv.

This is the fifth report the Academy has issued on workers' compensation national data. In December 1997, it published a report that extended the data series through 1995. That report was prepared by Jack Schmulowitz, a retired SSA analyst, who also provided the Academy with full documentation of the methods used to produce the estimates in that report. Subsequent reports published by the Academy through 2001 extended the data series through 1999. Those reports used the same basic methodology followed in prior reports but incorporated several significant innovations. In particular the Academy reports:

- Provide state level information separating medical and cash benefits;
- Place workers' compensation in context with other disability insurance programs;
- Compare the recent trends in the benefit spending for workers' compensation to those for Social Security disability insurance;
- Discuss the relative advantages and drawbacks of using different measures of benefits — in particular, calendar year paid benefits *vis a vis* accident year incurred losses;
- Estimate benefits paid under deductible provisions for individual states;
- Estimate coverage under workers' compensation programs at the state level;
- Present state-level estimates of the number of covered workers and total covered wages; and
- Report estimates of benefits relative to total wages in each state.

This report provides estimates for 2000, the most recent year for which data are available. In addition to continuing the improvements made in past reports, this report improves the methodology for estimates of medical benefits using previously unavailable data.

Finally, this report includes revisions to previously published estimates for 1997 through 1999. These

revised figures should be used in place of previously published data. Historical data displayed in the body of this report incorporate those revisions.

We are pleased that prior reports in this series have been used and cited by a large and diverse audience

of journalists, business and labor leaders, insurers, employee benefit specialists, federal and state policy makers, and researchers in universities, government, and private consulting firms. We consider this report series to be an evolving product. As we continue to extend the original data series, we will also expand and improve it. We welcome suggestions for further improvements and extensions.

This report benefited immeasurably from members of the Academy's Study Panel on National Data on Workers'

Compensation, who gave generously of their time and expertise in advising on data sources, data collection, plans for presentation, and in carefully reviewing the draft report. We would like to especially acknowledge two members of the Study Panel: Barry Llewellyn, Senior Divisional Executive and Actuary with the National Council on Compensation

Terry Thomason 1950-2002

Insurance, who provided the Academy with data and underwriting reports and his considerable expertise on many data issues; and Terry Thomason, Director of the Labor Research Center at the University of Rhode Island, for his extensive work assisting with the coverage estimates in this report. This report also

> benefited from helpful comments during Board review by Kate Kimpan, Patricia Owens, and Wayne Vroman.

In conclusion, the study panel notes with deep sadness the loss of one if its members, Terry Thomason, to an untimely death during the preparation of this report. Terry was a significant contributor to this report and to the entire field of workers' compensation and workplace safety. Terry was a kind and generous person and an intelligent and dedicated researcher, as well as a personal friend to

many of us. We dedicate this report to him. He will be sorely missed.

John F. Burton, Jr.

Chair, Steering Committee on Workers' Compensation Chair, Study Panel on National Data on Workers' Compensation



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Highlights

2000 Developments

With the strong economy in 2000, the number of workers covered by workers' compensation rose by 2.2 percent and the total wages of covered workers grew by 8.3 percent (Table 1). The proportion of wage and salary workers covered by workers compensation remained unchanged at about 97 percent.

Workers' compensation benefit payments for workers with job-related injuries or illnesses were \$45.9 billion in 2000. The benefits include payments for medical care for the ill or injured workers and cash wage-replacement payments to the workers or their surviving dependents. The 2000 payments were 6.4 percent higher than in 1999. When viewed relative to the total wages of covered workers, however, benefit payments declined in 2000 to 1.03 percent of covered payroll from 1.04 percent of payroll in 1999.

Employer costs for workers' compensation in 2000 were \$56.0 billion, an increase of 2.8 percent from 1999. Relative to total wages of covered workers, employer costs declined in 2000 to 1.25 percent of covered payroll from 1.32 percent of covered payroll in 1999. The decline in benefits and employer costs relative to covered payroll is due to the strong growth in wages in 2000.

Longer Trends

The year 2000 was the eighth year in a row that benefits relative to covered wages declined. It was the seventh consecutive year that employer costs declined relative to covered wages (Figure 1). Benefits as a percent of payroll peaked in 1992 at 1.68 percent. The drop to 1.03 percent of covered payroll in 2000 is a decline of about 38.7 percent. Employer costs fell 42.1 percent during this period, from 2.16 percent of covered payroll in 1993 to 1.25 percent of payroll in 2000.

While workers' compensation benefits and costs continued a long-term decline relative to covered wages, the absolute dollar amount of benefits and costs rose in 2000 for the third year in a row (Figure 2). The increases in the years 1998 through 2000 occurred after dollar benefits had fallen for five years (from 1993 through 1997) and employer costs had declined for four years (from 1994-1997).

This report revises and extends the data series published by the Academy in 2001, entitled *Workers' Compensation: Benefits, Coverage, and Costs, 1999 New Estimates and 1996-1998 Revisions.* It presents national data for 2000, including workers' compensation payments by state, by type of insurer, and for medical care and cash benefits separately. It also provides estimates for how many people are covered by workers' compensation and state-level estimates of the number of covered workers and total covered wages, as well as estimates of benefits relative to total wages in each state.

Table 1

	1999	2000	Percent Change
Covered workers (in millions)	123.8	126.6	2.2
Covered wages (in billions)	\$ 4,131	\$ 4,474	8.3
Workers' compensation benefits paid (in billions)	\$ 43.1	\$ 45.9	6.4
Employer costs for workers' compensation (in billions)	\$ 54.4	\$ 56.0	2.8
Benefits as a percent of covered wages	1.04 %	1.03 %	_
Employer costs as a percent of covered wages	1.32 %	1.25 %	_
Benefits per covered worker	\$ 348	\$ 363	4.1
Employer costs per covered worker	\$ 440	\$ 442	0.5

Workers' Compensation, 2000: Summary

Overview of Workers' Compensation

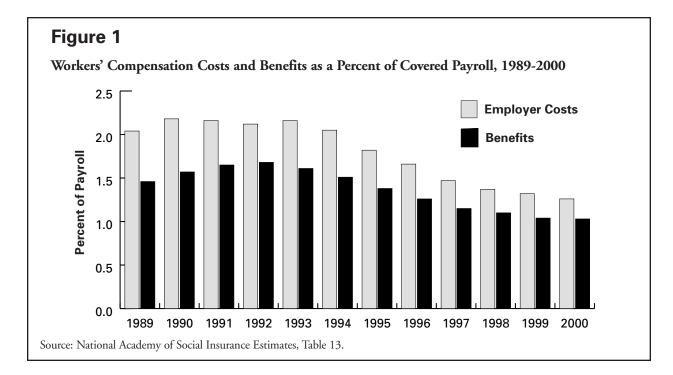
Workers' compensation programs provide benefits to workers who are injured on the job or who contract a work-related illness. Benefits include cash payments designed to partially replace lost wages for time spent away from work, as well as payments for medical care associated with work-related illness or injury. In case of a fatality, the worker's dependents receive survivor benefits.

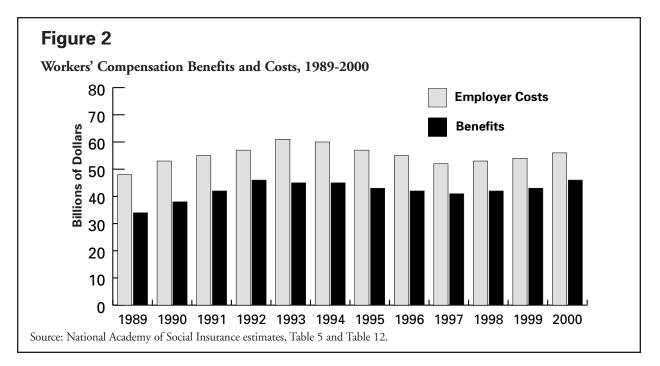
Workers' compensation was the first form of social insurance in the United States. The first workers' compensation law was enacted in 1908 to cover certain federal civilian workers. By 1920, all but seven states had enacted workers' compensation laws. Today, each of the 50 states and the District of Columbia has its own program. As of 2000, the latest year of data in this report, there are federal programs for federal employees, for coal miners with black lung disease, and for longshore and harbor workers.

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

Under the tort system, workers often did not recover damages and sometimes experienced delays or high costs when they did. While employers generally prevailed in court, they nonetheless were at risk for substantial and unpredictable losses if the workers' suits were successful. Furthermore, litigation between employers and workers created friction between the two groups. Consequently, both employers and employees favored legislation to insure that a worker who sustained an occupational injury or disease arising out of and in the course of employment would receive predictable compensation without delay, irrespective of who was at fault. As a quid pro quo, the employer's liability was limited. Under the exclusive remedy concept, the worker accepted workers' compensation as payment in full, without recourse to an additional tort suit. Employers are responsible for benefit payments as prescribed by workers' compensation laws, thereby ending their liability.

Workers' compensation programs are designed and administered by the states. They are mandated for most employers in every state except Texas, where employers may opt out of the program. Workers'





compensation programs vary across states in terms of who is allowed to provide insurance, which injuries or illnesses are compensable, and how benefit levels are determined. Generally, the state laws require employers to obtain insurance or prove they have the financial ability to carry their own risk (self-insure). Insurance can be purchased from commercial insurers in all but the five states that have exclusive state funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming). Nevada used to have an exclusive fund, but that was changed as of July 1, 1999. Twenty-six of the states that permit employers to purchase insurance from private carriers, also permit employers to purchase insurance from a publicly operated state fund (U.S. Department of Labor, 2001a). These funds are known as competitive state funds. South Carolina also has a state fund, which is mandatory for state agencies and available to city and county agencies, but not to private enterprises (American Association of State Compensation Insurance Funds, 1999). The 2000 data for state funds in this report include South Carolina, the 20 states with competitive state funds, and the five states with exclusive state funds in our 2000 data for state funds.

Self-insurance is used by some larger employers. Many states permit groups of employers in the same industry to insure through what is called group selfinsurance. In this report, group self-insurance is included with individual self-insurance. Two states - North Dakota and Wyoming - do not permit employers to self-insure.

Workers' compensation programs are financed almost exclusively by employers. The premiums paid by employers are based on their industry classification and the occupational classifications of their workers. Most large employers are also experiencerated, which results in higher premiums for employers whose past experience demonstrates that their workers are at greater risk of occupational injuries or disease than other workers in the same industry. State workers' compensation programs are unlike other social insurance programs in the United States - such as Social Security, Medicare, and unemployment insurance — in that they have no federal involvement in financing, administration, or mandatory minimum coverage standards (U.S. Department of Labor, 2001a, U.S. Department of Labor, 2001b, and Social Security Administration, 2001a). And unlike many private employer-sponsored benefits that receive favored treatment under federal taxes such as pensions and employee health insurance federal laws do not set standards for "qualified" plans or impose reporting requirements. In brief, there is no federal involvement with state workers' compensation programs, and thus no uniform federal reporting of states' experience.

While the federal government has no role in state programs, it administers the Federal Employees

Compensation Act (FECA), which covers civilian employees of the federal government, the Longshore and Harbor Workers' Compensation Act, which covers longshore, harbor, and other maritime workers, and the Federal Black Lung Program, which pays benefits to coal miners with black lung disease and their dependents and survivors (U.S. Department of Labor, 2001b). U.S. military personnel are covered by the federal veterans' compensation program, which provides cash benefits and medical care to veterans who sustained total or partial disabilities while on active duty. The veterans' compensation program is not included in the data in this report. Finally, railroad workers involved in interstate commerce and seamen in the U.S. Merchant Marines are not covered by a workers' compensation program. Instead, they have health insurance and short-term and longterm cash benefit plans that cover disabilities whether or not the conditions are work-related. In addition, under federal laws these workers retain the right to bring tort suits against their employers for negligence in the case of work-related injuries or illness (National Commission on State Workmen's Compensation Laws, 1973).

Covered Employment

In 2000, workers' compensation programs covered 126.6 million workers, which was 2.2 percent more than the 123.8 workers covered in 1999 (Table 2). Covered payroll in 2000 — that is total wages paid to covered workers — was \$4.5 trillion, an increase of 8.3 percent from 1999.

Every state except Texas mandates coverage under workers' compensation for most private employees (U.S. Department of Labor, 2001a). In Texas, coverage is voluntary, but employers not offering coverage are not protected from tort suits. An employee not covered by workers' compensation insurance is allowed to file suit claiming the employer is liable for his or her work-related injury or illness.

States that require coverage for most employees may exempt certain categories of workers, such as those in very small firms, certain agricultural workers, household workers, employees of charitable or religious organizations, or employees of some units of state and local government. Employers with fewer than three workers are exempt from workers' compensation coverage in Arkansas, Georgia, Michigan, New Mexico, North Carolina, Virginia, and Wisconsin. Employers with fewer than four workers are exempt in Florida, Maine, Rhode Island, and South Carolina. Those with fewer than five employees are exempt in Alabama, Mississippi, Missouri, and Tennessee.

The rules for agricultural workers vary considerably among states. In fifteen states coverage is completely voluntary. In twelve states it is compulsory. In other states, agricultural employers were exempted from coverage if they employed fewer than a minimum number of employees (ranging from three to ten), or if those employees earned less than a certain amount per year (generally \$1,200 to \$2,500) or the total days worked by all employees was below a certain threshold (for example, 400 days in Illinois). Other provisions include, but are not limited to, exempting "family farms" (Minnesota), seasonal or casual workers (Maine), and farms not using certain specified equipment (South Dakota).

The number of workers covered by workers compensation, both nationally and at the state level, must be estimated. As a baseline for estimating coverage, the National Academy of Social Insurance uses the num-

Table 2

Number of Workers Covered under Workers' Compensation Programs and Total Covered Wages, 1989-2000

Year	Workers (in millions)	Total Wages (in billions)
1989	103.9	\$ 2,347
1990	105.5	¢ 2,917 2,442
1991	103.7	2,553
1992	104.6	2,711
1993	106.5	2,810
1994	109.6	2,955
1995	112.4	3,132
1996	114.8	3,325
1997	117.6	3,574
1998	120.8	3,860
1999	123.8	4,131
2000	126.6	4,474

Table 3

Total Employment and Total Covered Workers by Program, 2000 (in thousands)

Total number of workers – Current Population Survey ^a	131,903
Wage and salary	123,128
Self-employed	8,674
Unpaid family workers	101
Number of covered jobs (wage and salary workers only)	
Unemployment insurance coverage ^b	129,883
Non-federal workers	127,012
Federal employees	2,871
Workers' compensation coverage ^c	126,600
Non-federal workers	123,729
Federal employees	2,871

a The Current Population Survey is a monthly survey of households that is used for official estimates of the size of the labor force, employment, and unemployment. Numbers reported here are annual averages of monthly estimates of the number of employed persons in the United States.

b Based on data compiled by state employment security agencies from reports filed by employers as part of their tax reporting for unemployment insurance. Annual averages of monthly data are released by the Employment and Training Administration of the U.S. Department of Labor in their ETA 202 report.

c Estimates in this report for non-federal workers are based on differences in state laws between unemployment insurance and workers' compensation coverage. See Appendix A. Coverage for federal employees is the same as that for unemployment insurance.

Source: National Academy of Social Insurance estimates based on U.S. Department of Labor, 2001c and U.S. Department of Labor, 2001f.

ber of workers covered by state unemployment insurance (UI) programs. Those data are collected nationally and are based on quarterly tax reports that employers submit to state employment security agencies. Almost all wage and salary workers (about 97-98 percent) are covered by unemployment insurance. The main exceptions are employees of very small farms and household employees who earn less than a threshold amount (U.S. Department of Labor, 1997).

In estimating coverage in 1993-1996, the number of workers covered by workers' compensation was estimated to be 97 percent of the total number of workers covered by the UI program who were not federal employees, plus the total number of federal workers. This figure was based on reports made by some states published in the Department of Labor's *State Workers' Compensation Administration Profiles*. It also was roughly comparable to estimates produced by the Bureau of Labor Statistics based on establishment surveys used to construct the Employment Cost Index.

For 1997-1999 in last year's report and 2000 in this report, workers' compensation coverage was estimated for each state by taking account of differences between UI and workers' compensation coverage rules in each state. This procedure, which is outlined in Appendix A, yields a national estimate of workers' compensation coverage that is very similar to the approximation used in prior years — or about 97.4 percent of the non-federal UI covered workforce, plus all federal employees (Table 3).

Table 3 compares workers' compensation coverage (and UI coverage) to the size of the total work force, as it is measured in the current population survey (CPS). In comparing the two sources, it is useful to recognize definitional differences. The UI numbers are counts of *jobs* that are filled by workers. The CPS

	Covered W	Vorkers (ir	Covered Workers (in thousands)	Percen	Percent Change	Covere	Covered Wages (in millions)	millions)	Percent	Percent Change
	1998	1999	2000	1998-99	1999-2000	1998	1999	2000	1998-99	1999-2000
Alabama	1,692	1,708	1,715	0.9	0.4	\$44,895	\$47,201	\$48,926	5.1	3.7
Alaska	250	252	259	0.8	2.6	8,256	8,382	8,856	1.5	5.7
Arizona	2,028	2,104	2,172	3.7	3.3	58,957	63,711	70,313	8.1	10.4
Arkansas	1,027	1,045	1,060	1.7	1.5	24,785	26,207	27,589	5.7	5.3
California	13,711	14,122	14,599	3.0	3.4	482,120	528,468	599,559	9.6	13.5
Colorado	1,977	2,051	2,132	3.8	3.9	63,161	69,591	78,692	10.2	13.1
Connecticut	1,602	1,630	1,651	1.7	1.3	65,507	69,550	75,132	6.2	8.0
Delaware	381	393	398	3.2	1.2	12,899	13,772	14,518	6.8	5.4
District of Columbia	414	431	454	4.3	5.2	18,650	20,622	22,539	10.6	9.3
Florida	6,331	6,522	6,728	3.0	3.2	175,960	187,011	203,852	6.3	9.0
Georgia	3,452	3,569	3,650	3.4	2.3	105,560	114,530	123,946	8.5	8.2
Hawaii	504	508	523	0.7	3.0	14,239	14,733	15,545	3.5	5.5
Idaho	513	530	550	3.1	3.8	12,586	13,620	15,054	8.2	10.5
Illinois	5,645	5,714	5,800	1.2	1.5	195,115	206,666	219,914	5.9	6.4
Indiana	2,777	2,828	2,853	1.8	6.0	80,392	84,470	88,017	5.1	4.2
Iowa	1,382	1,409	1,418	2.0	0.6	35,716	37,787	39,355	5.8	4.1
Kansas	1,242	1,257	1,270	1.2	1.0	32,982	34,920	36,942	5.9	5.8
Kentucky	1,640	1,679	1,708	2.4	1.7	43,426	46,306	48,820	6.6	5.4
Louisiana	1,805	1,812	1,832	0.4	1.1	48,110	48,844	50,546	1.5	3.5
Maine	545	560	577	2.8	2.9	13,883	14,856	15,715	7.0	5.8
Maryland	2,158	2,220	2,277	2.9	2.6	69,410	74,498	80,676	7.3	8.3
Massachusetts	3,046	3,109	3,191	2.1	2.6	114,739	125,163	141,343	9.1	12.9
Michigan	4,240	4,339	4,417	2.3	1.8	145,953	154,693	163,092	6.0	5.4

3.1	5.9	6.0	5.9	7.8	10.9	9.0	7.1	9.3	6.9	4.9	4.7	6.4	8.4	5.9	6.9	5.4	6.7	5.1	9.5	7.2	7.7	9.8	6.2	4.0	5.3	7.3	8.3	7.7	8.3	
4.5	5.4	4.9	6.5	9.4	6.8	6.7	4.0	6.4	8.3	4.9	4.9	4.0	6.4	5.5	5.6	6.2	19.1	5.7	11.0	6.6	6.6	8.7	10.5	3.1	6.1	6.1	7.2	1.7	7.0	
25,666	76,604	8,637	23,405	31,822	20,696	166,150	17,397	374,121	106,903	7,209	175,170	37,062	50,780	184,033	12,300	47,472	8,494	74,959	259,312	29,109	8,325	109,804	97,248	17,491	80,697	5,806	4,343,948	129,606	4,473,554	
24,897	72,312	8,147	22,101	29,526	18,663	152,386	16,245	342,392	99,989	6,871	167,351	34,825	46,851	173,798	11,508	45,042	7,962	71,335	236,876	27,143	7,726	100,047	91,575	16,815	76,618	5,410	4,010,966	120,380	4,131,346	
23,834	68,619	7,767	20,747	26,998	17,473	142,862	15,628	321,729	92,310	6,552	159,602	33,482	44,053	164,776	10,902	42,413	6,686	67,511	213,422	25,461	7,245	92,028	82,863	16,305	72,219	5,101	3,742,032	118,329	3,860,361	
-0.2	1.1	2.0	1.9	4.3	2.6	2.4	2.3	2.3	2.1	0.9	1.1	2.0	2.0	1.8	2.2	1.5	2.3	1.5	3.1	2.5	2.8	3.1	2.4	0.8	1.6	2.6	2.2	3.2	2.2	
1.9	1.6	1.9	2.0	5.8	2.7	3.0	1.3	2.6	2.7	1.4	1.4	1.2	1.6	1.8	2.0	2.4	13.9	1.9	6.2	2.6	2.7	2.9	2.0	0.3	2.2	2.1	2.6	0.0	2.5).
1,034	2,461	366	853	992	598	3,809	648	8,313	3,649	296	5,426	1,404	1,560	5,444	382	1,697	349	2,479	7,465	1,011	290	3,190	2,637	664	2,639	220	123,729	2,871	126,600	(see Appendix A
1,036	2,433	359	837	952	583	3,720	633	8,124	3,575	293	5,367	1,377	1,529	5,349	373	1,673	341	2,444	7,242	986	282	3,095	2,576	659	2,598	214	121,033	2,783	20,772 123,816 126,600	ce estimates
1,016	2,395	352	820	899	568	33,611	625	7,915	3,483	289	5,291	1,361	1,505	5,252	366	1,633	299	2,397	6,819	962	275	3,008	2,526	657	2,542	210	117,990	2,781	120,772	7 of Social Insuran
Mississippi	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	Non-federal total	Federal employees	TOTAL	Source: National Academy of Social Insurance estimates (see Appendix A)

Workers' Compensation: Benefits, Coverage, and Costs, 2000 New Estimates 7

Table 5

Year	Total	Private Carriers	State Funds	Self-Insured	Federal Programs	Percent Change in Total
1987	\$ 27,317	\$ 15,453	\$ 4,084	\$ 5,082	\$ 2,698	11.0
1988	30,703	17,512	4,687	5,744	2,760	12.4
1989	34,316	19,918	5,205	6,433	2,760	11.8
1990	38,238	22,222	5,873	7,249	2,893	11.4
1991	42,169	24,515	6,713	7,944	2,998	10.3
1992 ^a	45,668	25,280	7,506	9,724	3,158	8.3
1993 ^a	45,330	24,129	7,400	10,623	3,178	-0.7
1994 ^a	44,586	22,306	7,587	11,527	3,166	-1.6
1995 ^a	43,373	21,145	7,893	11,232	3,103	-2.7
1996 ^a	41,837	20,392	7,603	10,775	3,066	-3.5
1997 ^a	41,085	20,900	7,306	9,875	3,004	-1.8
1998 ^a	42,212	22,584	7,392	9,246	2,991	2.7
1999 ^a	43,148	23,621	7,227	9,310	2,989	2.2
2000 ^a	45,910	25,650	7,384	9,844	3,032	6.4

Workers' Compensation Benefits, by Type of Insurer, 1987-2000 (in millions)

a Includes estimated benefits paid under deductible provisions.

Sources: National Academy of Social Insurance estimates. Data on private carrier benefits and state fund benefits were purchased by special order from A.M. Best, a national data-collection organization for private insurance. Data were modified based on information from state agencies. Data on federal programs are from the United States Department of Labor, 2001b and Social Security Administration, 2001a. Data on self-insurance benefits are from state administrative records in states where those data are available. See Appendix E for methodology for imputing values for states not reporting information.

numbers are counts of *workers* who hold jobs. Thus, if a worker holds two jobs, he or she is counted as one worker in the CPS, but as two covered jobs in the UI data. The BLS estimates that about 5.6 percent of all persons in the labor force held more than one job in 2000 and therefore are counted more than once in the data on covered jobs (U.S. Department of Labor, 2001c). The estimates of workers' compensation coverage reported here refer to covered jobs.

Over the period 1999-2000, covered employment and wages grew in almost every state (Table 4). Because workers' compensation coverage rules did not change between 1999 and 2000, differences in growth rates among states generally reflect changes in their total employment and wages. States with above-average increases in both covered employment and covered wages in 2000 include the following twelve states: Arizona, California, Colorado, the District of Columbia, Florida, Idaho, Massachusetts, New Hampshire, New Jersey, New York, Texas, and Virginia. Twelve states had above average growth in covered employment, but not in covered wages — Alaska, Georgia, Hawaii, Maine, Maryland, Nevada, New Mexico, South Dakota, Utah, Vermont, Washington, and Wyoming — while only Oregon had above average growth in covered wages but not covered employment (Table 4).

Benefit Payments

Workers' compensation cash and medical benefits paid to workers increased for a third consecutive year in 2000 following a five-year decline that ended in 1997. Total benefits paid rose from \$43.1 billion in 1999 to \$45.9 billion in 2000, an increase of 6.4 percent (Table 5), the biggest single year percentage increase since 1992.

Table 6

						Percentage I	Distribution	1	
	Total					-			Self-
	Benefits		Priv	vate Carriers	S	tate Funds	Federal	Self-	Insured plus
Year	(in millions)	Total	All	Deductibles ^a	All	Deductibles ^a	Programs	Insured	Deductibles
1990	\$ 38,238	100.0	58.1	n/a	15.4	n/a	7.6	19.0	19.0
1991	42,169	100.0	58.1	n/a	15.9	n/a	7.1	18.8	18.8
1992	45,668	100.0	55.4	2.7	16.4	*	6.9	21.3	24.0
1993	45,330	100.0	53.2	4.4	16.3	*	7.0	23.4	27.9
1994	44,586	100.0	50.0	5.9	17.0	0.4	7.1	25.9	32.2
1995	43,373	100.0	48.8	7.1	18.2	0.7	7.2	25.9	33.7
1996	41,837	100.0	48.7	8.3	18.2	0.9	7.3	25.8	35.0
1997	41,085	100.0	50.9	7.1	17.8	1.2	7.3	24.0	32.3
1998	42,212	100.0	53.5	7.9	17.5	1.2	7.1	21.9	31.0
1999	43,148	100.0	54.7	7.6	16.8	1.2	6.9	21.6	30.4
2000	45,910	100.0	55.9	7.6	16.1	1.1	6.6	21.4	30.1

Total Amount and Percentage Distribution of Workers' Compensation Benefit Payments by Type of Insurer, 1990-2000

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

* Negligible

n/a Not available

Source: National Academy of Social Insurance estimates based on Tables 5 and 7

Benefit payments shown in Table 5 include benefits paid to all workers in a specified year, regardless of the year their injuries occurred or their illnesses began. This measure is known as *calendar year paid benefits*. Thus in 2000, \$45.9 billion in benefits were paid to all active workers' compensation cases, whether the workers receiving benefits were injured in 2000 or in a previous year.

Methodology

Because the federal government has no role in state workers' compensation programs and no national reporting system exists, estimates for national benefits must be developed from the sum of estimates made for each state and for the federallyadministered programs. These national estimates are based on reports from state and federal agencies and from private organizations, such as A.M. Best, a company that specializes in collecting insurance data and rating insurance companies, and the National Council on Compensation Insurance (NCCI), which assists carriers and insurance commissioners in most states in setting workers' compensation rates. Often information in various state reports is not in the exact form needed for this report and must be adjusted, based on further information obtained by direct consultation with state workers' compensation agencies. The first step in obtaining data is the distribution of a questionnaire to the state administrative agencies (see Appendix B). Even with questionnaire responses, estimates could not be obtained for some states. In those cases, values had to be imputed based on available data, including prior information from the state and other states' experience. Table C1 in Appendix C shows the categories of data the Academy was able to obtain from state agencies. A detailed state-by-state explanation of how the estimates in this report are produced is in Workers' Compensation: Sources and Methods on the Academy's website at www.nasi.org.

In the process of developing estimates for 2000, updated figures were obtained for a few states for benefit payments in 1996, 1997, 1998, and 1999. Based on this new information, data for 1996 through 1999 were revised. These revised figures are found in Appendix D and should be used in place of

previously published data. Historical data displayed in the body of this report incorporate those revisions.

Sources of Insurance Coverage

Private insurance carriers remain the primary provider of workers' compensation benefits. In 2000, they accounted for 55.9 percent of benefits paid (Table 6). The share of benefits paid by private carriers grew for the fourth straight year, reaching a share greater than any year since 1992. The share of benefits paid by self-insurers, the next largest provider, declined slightly from 21.6 percent in 1999 to 21.4 percent in 2000. Estimates for benefits paid by selfinsurers in states that did not report such information were imputed using the procedure explained in Appendix E.

The share of benefits paid by state funds declined to 16.1 percent in 2000, from 16.8 percent in 1999. In general, state funds are established by an act of legislature, have at least part of their board appointed by the governor, are usually exempt from federal taxes, and often serve as the insurer of last resort. However, not all state funds meet all of these criteria. In some

states, agencies within the state do not agree on the exact status of particular funds. Therefore, the Academy's expert panel decided to classify as state funds all funds that are members of the American Association of State Compensation Insurance Funds (AASCIF).

A development that has complicated the classification of benefits by type of insurer is the use of large deductibles. Under deductible policies, insurance carriers pay all of the workers' compensation benefits, but employers are responsible for reimbursing 100 percent of those benefits up to specified amounts to the carrier. The amount the employer is obligated to reimburse is called a deductible. Deductibles may be written into an insurance policy either on a per-injury basis or an aggregate basis, or a combination of a per-injury basis with an aggregate cap. States can vary in the maximum deductible they will allow. In return for accepting a policy with a deductible provision, employers pay lower premiums.

Prior to the 1990s, deductible policies were not common, but their popularity grew in the mid-1990s. In

Table 7

(in millions), 1992-2	000			
Year	Total	Private Carriers	State Funds	
1002	¢ 1.250	¢ 1 250	¢ *	

Estimated Employer-Paid Benefits under Deductible Provisions for Workers' Compensation,

Year	Total	Private Carriers	State Funds
1992	\$ 1,250	\$ 1,250	\$ *
1993	2,027	2,008	19
1994	2,834	2,645	189
1995	3,384	3,060	324
1996	3,859	3,492	367
1997	3,405	2,911	494
1998	3,820	3,329	491
1999	3,827	3,291	536
2000	3,995	3,499	496

* Negligible

Note: Data on deductible benefits were available from 17 states. Seven states do not allow policies with deductibles. For the other 26 states and the District of Columbia deductible benefits were estimated to be the same percentage of benefits as found in the 17 states in which independent estimates of the size of benefits paid under deductible provisions were available.

Source: National Academy of Social Insurance estimates based on interviews and data received from state agency and rating bureau staff.

1992, benefits under deductible provisions totaled \$1.3 billion, or about 2.7 percent of total benefits (Tables 6 and 7). By 1998, they had risen to \$3.8 billion, or 9.0 percent of total benefits. In 2000 deductibles totaled about \$4.0 billion, which was 8.7 percent of total benefits paid.

In Table 5, benefits reimbursed by employers under deductible provisions are included with private carrier or state fund benefits, depending on the type of insurer they use. Table 6 shows separately the proportion of total benefits that employers paid under deductible provisions with each type of insurance.

Employers who have policies with deductibles are, in effect, self-insuring up to the amount of the deductible. That is, they are bearing that portion of the financial risk. Thus, adding deductibles to selfinsured benefit payments shows the share of the total market where employers are assuming financial risk. This share of total benefit payments rose from 19.0 percent in 1990 to a high of 35.0 percent in 1996, and then gradually declined to 30.4 percent in 1999, and to 30.1 percent in 2000 (Table 6).

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

In the late 1980s and early 1990s when workers' compensation benefits and costs rose rapidly, many states had administrative pricing systems that set the premium levels that insurance companies could charge, and often states limited the rate of increase in premium levels. As a result, premiums did not rise as fast as costs. Growing numbers of firms were not able to buy insurance because insurers did not want to sell them insurance with premium levels that were less than their expected costs.

Because states require that firms have insurance, they have ways for high-cost firms to buy it. In some states, the state fund insures all applicants. Some states use a *residual market* for high-risk employers and then require that insurers underwrite a share of the residual market as a condition for doing business in the state. During the late 1980s and early 1990s, some states set premiums in the residual market that did not recognize the higher cost associated with residual market employers. To cover the gap between premiums charged to employers in the residual market and their actual losses, residual market pools assessed fees on insurance companies based on the insurer's share of aggregate premiums written in the voluntary market in the state. (Similar fees generally were not assessed on self-insured employers in the state. And assessments could be reduced by lowering premiums through the use of high deductibles.) As costs rose during the late 1980s, more employers ended up in the residual market, residual market losses grew, and rising fees assessed on insurers drove up the price of premiums they charged employers who were not in the residual market.

The combination of rising costs and the structure of administered prices in the private insurance market encouraged employers to set up self-insured plans, which did not share in assessments to cover the cost of the residual market. Similarly, insurers and employers turned to hybrid plans that combine large deductibles with private insurance as a way to lower their aggregate premiums, and consequently, their share of assessments for the operating losses in the residual market (1990-1995).

The mid-1990s brought both a decline in workers' compensation benefits and costs, and an easing of pressure on insurance rates. Also, regulatory actions and reforms in rate setting for residual market policies allowed for more flexibility in pricing and thus reduced the size of the residual market. These amounted to approval of higher prices for the residual market than those that had previously been established based on statewide experience. In addition to allowing rate differentials, other reforms were instituted to make residual market rating systems more sensitive to market forces.

Declining workers' compensation benefits and costs in the mid-1990s combined with a vibrant economy and high financial market returns enabled insurance companies to earn more from invested premiums. This led to very high profits by historical standards in the workers' compensation insurance industry and to fierce underwriting competition. Insurance companies began offering multi-year guaranteed cost programs that locked in low premium rates for employers, thus greatly reducing the employers' cost and risk. The favorable offers made the purchase of insurance attractive to employers who otherwise would self-insure. Tax advantages inherent in the purchase of insurance also made it attractive — that is, employers can take an immediate tax deduction for premiums they pay for insurance, while when they self-insure, tax deductions accrue only later as they pay claims. These factors led to a shift away from self-insurance in favor of purchase of insurance during the mid-1990s.

The year 2000, however, marks the third straight year of increasing benefits and costs. During the latter part of the 1990s, combined operating ratios, which measure insurer losses relative to premiums taken, rose significantly and profits for companies writing workers' compensation insurance fell (NCCI, 2001a). This may suggest a hardening of the insurance market and a move back towards selfinsurance.

Medical Payments

The total share of state workers' compensation benefits that were for medical care rose from 43.3 percent in 1999 (Table D1) to 45.2 percent in 2000 (Table 9). The remaining state benefits — 54.8 percent of the total in 2000 - were cash payments to disabled workers or to the surviving families of deceased workers. The two federally administered programs — for federal employees under the FECA and for coal miners under the Black Lung program ----allocated a larger share to cash benefits and a smaller share for medical care than the state workers' compensation programs. Medical benefits were 26.1 percent of total payments for federal employees, and were 7.8 percent of total payments under the Black Lung program. One reason for the small share for medical benefits in the Black Lung program is that most Black Lung beneficiaries are widow(er)s and children of deceased coal miners, who are not eligible for medical benefits. In 2000, only 20.9 percent of beneficiaries were miners, the rest were dependents (U.S. Department of Labor, 2001b, Social Security Administration, 2001a).

The share of benefits for medical care increased steadily during the 1980s and into the early 1990s (Table 8). Some analysts believe that part of the rise in medical benefits was due to cost shifting between regular health insurance and workers' compensation. An incentive to shift costs existed because medical care not associated with workers' compensation was experiencing a rise in managed care during this period. Employees might have preferred workers' compensation medical care because it was typically feefor-service and had both no deductibles and more choices about the treating physician. Health care providers also had an incentive to put cases in the workers' compensation system because they would not have to operate within the restrictions of managed care plans.

In the 1990s, partially as a response to escalating costs, workers' compensation programs began adopting managed health care. This change in the system of medical care delivery is often credited for at least a portion of the decrease in medical benefits during the mid-1990s. The rising share of benefits for medical care in 1999 and 2000 may be partly due to adjustments made by providers to counterbalance the cost saving measures introduced by managed care. A number of studies of the impact of managed care on the growth of health care costs suggest that cost savings from the introduction of managed care are a one-time event and do not lead to a permanent reduction in cost growth (Chernew, et. al., 1998).

Among various state programs, the share of benefits for medical care varies widely. In 2000 the share of benefit spending for medical care ranged from under 40 percent — in Connecticut, the District of Columbia, Michigan, New York, Pennsylvania, Rhode Island, Washington, and West Virginia to over 60 percent in Alaska, Arizona, Indiana, South Dakota and Utah (Table 9). Many factors in a state can influence the relative share of benefits for medical care as opposed to cash wage-replacement or survivor benefits. Among them are:

- The industry mix in each state, which influences the types of illnesses and injuries that occur and thus the level of medical costs;
- Different compensability laws in each state, which determine which illnesses and injuries are covered and for what time period;
- Different levels of earnings replacement provided on the cash benefit side for each state, which, all else being equal, means states with more generous cash benefits have a lower share of benefits used for medical care; and
- Interstate differences in medical costs and medical practices, including the use of managed care, which can lead to different levels of medical expenditures in different states for the same types of illnesses and injuries.

Table 8 Workers' Compensation Cash and Medical Benefits Paida, 1960-2000 (in millions) Year Total Cash Medical Percent Medical 1960 \$ 1,295 \$ 860 \$ 435 33.6 1961 1,374 914 460 33.5 1962 1,489 994 495 33.2 1963 1,582 1,057 525 33.2 1,707 1964 1,142 565 33.1 1965 1,814 1,214 600 33.1 1966 2,000 1,320 680 34.0 1967 2,189 1,439 750 34.3 830 1968 2,376 1,546 34.9 1969 2,634 1,714 920 34.9 1970 2,921 1,871 1,050 35.9 1971 3,184 2,054 1,130 35.5 1972 3,507 2,257 1,250 35.6 1973 4,058 2,578 1,480 36.5 1974 4,826 3,066 1,760 36.5 1975 5,641 3,611 2,030 36.0 1976 6,603 4,223 2,380 36.0 1977 7,663 35.0 4,983 2,680 1978 8,773 5,793 2,980 34.0 1979 10,315 6,795 3,520 34.1 1980 11,879 7,932 3,947 33.2 1981 13,319 8,888 4,431 33.3 1982 14,740 9,682 5,058 34.3 1983 15,884 10,203 5,681 35.8 1984 18,044 11,620 6,424 35.6 1985 20,614 13,116 7,498 36.4 1986 23,031 14,389 8,642 37.5 1987 25,773 15,861 9,912 38.5 29,234 11,519 39.4 1988 17,715 1989 32,837 19,538 13,299 40.5 1990 36,804 21,737 15,067 40.9 1991 40,778 24,063 16,715 41.0 1992 43,264 25,134 18,130 41.9 1993 41,569 24,160 17,409 41.9 1994 43,391 26,307 17,084 39.4 16,631 39.3 1995 42,289 25,658 1996 40,682 24,222 16,460 40.5 1997 39,982 24,380 15,602 39.0 1998 41,177 24,954 16,222 39.4 1999 42,168 42.4 24,301 17,867 2000 44.3 44,978 25,048 19,930

a Data include federal employees but not the Black Lung Program.

Source: National Academy of Social Insurance estimates and Nelson, 1992.

		Private	State	Self-	Medical	Percent
State	Total	Carriers ^a	Funds	Insured ^b	Benefits	Medical
Alabama	\$ 529,189	\$ 304,964	۱ ج	224,225	\$ 295,425	55.9
Alaska	155,628	124,733	١	30,895	94,598	60.8
Arizona	481,520	221,036	190,147	70,337	289,456	60.5 ^c
Arkansas	187,825	127,434	ı	60,391	111,797	59.7c
California	8,949,070	5,273,661	1,146,339	2,529,070	4,072,954	45.8
Colorado	768,758	315,068	250,606	203,084	354,733	46.1 ^c
Connecticut	667,056	498,584	١	168,473	257,414	38.7 ^c
Delaware	100,251	80,685	ı	19,566	42,902	42.9d
District of Columbia	77,682	60,648	ı	17,035	25,720	33.2 ^c
Florida	2,272,859	1,729,765	١	543,093	1,228,025	54.2 ^c
Georgia	881,848	486,476	١	395,372	405,876	46.0 ^c
Hawaii	231,359	157,537	6,990	66,832	96,453	41.8
Idaho	167,664	71,266	84,266	12,132	94,074	56.1 ^c
Illinois	1,812,577	1,412,631	1	399,946	796,963	44.0 ^c
Indiana	550,394	419,695	ı	130,699	356,860	64.8 ^c
Iowa	328,854	266,927	N	61,927	161,891	49.3c
Kansas	341,505	246,390	١	95,114	183,575	54.1 ^c
Kentucky	516,360	322,211	21,605	172,544	275,514	53.7c
Louisiana	455,142	243,807	105,925	105,410	226,548	49.9c
Maine	252,283	110,266	52,426	89,591	104,371	42.9d
Maryland	1,194,629	921,002	163,510	110,117	511,901	42.9d
Massachusetts	666,455	577,209	١	89,246	218,897	42.9d
Michigan	1,574,467	909,278	ı	665,189	540,692	39.2 ^c
Minnesota	798,100	529,600	88,100	180,400	369,500	46.3
Mississippi	269,215	177,951	١	91,264	150,926	56.0 ^c
Missouri	525,553	437,763	50,127	37,663	255,076	48.2 ^c
Montana	150,269	61.442	64.230	24 598	20 343	57 4c
		1++(+>	くうじてく	1	し F C (/)	1:1

ompensation	the National Council on C	on data received from state agencies, the Department of Labor, A.M. Best, and the National Council on Compensation	tate agencies, the Departm		i Social Insurance estimates b	Source: National Academy of Social Insurance estimates based Insurance.
			re available.	up self-insurance. I, see Appendix F. states where medical data were available	uch perfection of ALM. Dest. Self-insurance includes individual self-insurers and group self-insurance. Medical percentages based on data provided by NCCI, see Appendix F. Medical percentage based on the weighted average of states where medi	b Self-insurance includes in c Medical percentages based d Medical percentage based
This results from tkers' compensa-	the private carrier category. /erage in their reports of wo	States with exclusive funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming) also have small amounts of benefits paid in the private carrier category. This results from two sources: companies with group policies that overlap states and the fact that some companies include excess workers' compensation coverage in their reports of workers' compensa- rion benefits to A.M. Best.	. Wyoming) also have small me companies include exce	shington, West Virginia, and ap states and the fact that sor	ls (Ohio, North Dakota, Wa vith group policies that overle	a States with exclusive funds two sources: companies wit rion benefits to A M Best.
43.6	20,002,500				45,909,689	TOTAL
7.8	72,390				931,946	Black Lung
26.1	548,596				2,099,613	Civilian employee
20.5	620.986	107(110()	110(107()	110(/10(/7	3.031.559	Federal
42.9d	19,887		45,424 7 384 044	933 25 740 810	46,357	Wyoming
59.0 ^c	414,678	47,857	ı	655,442	703,299	Wisconsin
29.6	219,052	122,788	615,581	2,679	741,049	West Virginia
35.2	525,987	332,669	1,147,139	19,262	1,499,070	Washington
47.90 52.40	54,6/1 270.50/	26,656	1	8/,/3/	114,393	Vermont
66.8 ^c	106,339	17,544	69,392	72,347	159,283	Utah
59.8c	1,165,390	162,449	204,035	1,582,644	1,949,128	Texas
51.2 ^c	300,684	129,306	•	459,169	588,475	Tennessee
61.2	46,694	13,090		63,363	76,453	South Dakota
44.9c	267,016	122,730	44.651	429,146	596,526	South Carolina
30.8c	37.623	10.043	53.151	58.223	122.316	Rhode Island
48.9c 38 1	201,518 903 314	31,909 563 857	158,660 154 560	222,142 1 660 173	412,710 2 378 501	Oregon Dennevilvania
46.0 ^c	191,852	58,781	100,753	257,945	417,478	Oklahoma
41.5	868,891	439,826	1,630,436	21,680	2,091,992	Ohio
42.9d	45,583	ı	85,284	483	85,767	North Dakota
44.4c	349,149	198,934	ı	589,435	788,369	North Carolina
29.9	925,576	641,937	839,136	1,346,945	2,828,018	New York
57.8c	78,879	46,431	11,570	78,829	136,830	New Mexico
42.9d	457,069	88,310	ı	978,232	1,066,542	New Jersey
53.8 ^c	90,357	36,729	ı	131,710	168,439	New Hampshire
46.7	131,473	55,922	ı	230,610	286,531	Nevada

For these reasons, the share of benefits accounted for by medical benefits is not, in and of itself, an informative measure of a state's workers' compensation performance. Changes in that share over time, however, can indicate trends within the workers' compensation system that are worth investigating. Some states were not able to report the portion of their total benefits that were for medical care. In those cases, medical benefits were estimated based on information from the NCCI and from other states. These cases are footnoted in Table 9. Further information about the methods for imputing medical benefits is in Appendix F.

Changes in State Benefits

On a national level, total benefits were 6.4 percent higher in 2000 than in 1999. Focusing only on the national growth figure, however, conceals a great deal of variation among the states. Table 10 shows annual changes in state benefit payments in 1997-2000. In some cases, estimation methods changed from one year to the next because states were not able to provide consistent information. In these cases, estimates were based on data provided by A.M. Best and on information from other states. Cases in which estimating methods changed from one year to the next are footnoted in Table 10.

In twelve jurisdictions, benefits declined between 1999 and 2000. The states with a decline include Alabama, Connecticut, the District of Columbia, Missouri, Nevada, New Hampshire, Oklahoma, Pennsylvania, South Dakota, Utah, Virginia, and Wyoming. On the other hand, fourteen states showed an increase in benefits that is at least five percentage points higher than the national average growth rate of 6.4 percent. Those states with increases more than five percentage points above the national average include Alaska, Arizona, Arkansas, California, Colorado, Iowa, Kentucky, Michigan, New Mexico, North Dakota, Rhode Island, South Carolina, Tennessee, Texas, and West Virgina.

Benefits vary within a state from year to year as a function of many factors, including:

- Changes in workers' compensation statutes which affect coverage or levels of benefits;
- Court rulings or changes in administrative procedures;

- Changes in the mix of occupations or industries, because jobs differ in their rates of injury and illness;
- Fluctuations in employment, because more people working means more people at risk of a job-related illness or injury;
- Changes in wage rates to which benefit levels are linked;
- Demographic changes, because different age cohorts have different illness or injury rates;
- Developments in the health care system that influence the cost of medical care;
- Fluctuations in the number and severity of injuries and illnesses for other reasons (for example, in a small state one industrial accident involving many workers in a particular year can show up as a noticeable increase in statewide benefit payments); and
- Changes in reporting procedures.

Because of the myriad of reasons behind changes in benefits — including reporting changes — caution should be used in interpreting any single year-to-year change in a particular state.

State Benefits Relative to Wages and Employment

One way to standardize state benefit payments to take account of states' differing sizes is to divide each state's benefits by the number of workers covered by the state's workers' compensation program. A second way is to divide total benefits by total wages of covered workers. The latter takes account of both the number of workers and prevailing wage level in the state. The benefits standardized as a percent of covered wages helps show whether large growth in benefits payments may be due to growth in the state's population of covered workers and covered payroll. Indeed, four states that had relatively large increases in benefits between 1999 and 2000 also experienced above-average increases in the number of covered workers and covered wages. When benefits are shown as a percent of covered wages, the growth rates are more modest. For example:

 Arizona benefits grew by 12.8 percent, but as a percent of covered wages, Arizona benefits rose by 2.2 percent;

- California benefits rose by 13.9 percent in 2000, but as a percent of California wages, benefits hardly grew at all (0.4 percent);
- Colorado benefits rose by 17.3 percent, but as a percent of Colorado wages, grew by 3.7 percent; and
- Texas benefits rose by 16.5 percent in 2000, but as a percent of covered wages, Texas benefits grew by 6.4 percent.

Similarly, in some states, the increase in total benefits was less than the growth in the state's covered workers and covered wages. Consequently, the state's benefits relative to covered wages declined in 2000. For example:

- In Delaware, total benefits grew by 3.5 percent, while benefits relative to wages declined slightly from 0.70 percent to 0.69 percent;
- In Kansas, aggregate benefits grew by 4.7 percent, while benefits relative to wages declined from 0.93 percent to 0.92 percent;
- In Massachusetts, aggregate benefits rose by 5.1 percent, while benefits relative to wages declined from 0.51 percent to 0.47 percent;
- In Minnesota, total benefits rose by 7.2 percent, while benefits relative to wages fell from 0.89 percent to 0.88 percent; and
- In Washington, benefits rose by 5.7 percent, but benefits relative to wages declined from 1.55 percent to 1.54 percent.

While benefit payments that are standardized relative to wages in a state provide a useful perspective for looking at changes within particular states over time, the data can be misleading and by themselves cannot be used to provide meaningful comparisons of the adequacy of benefits among states. In particular, comparisons across states do not necessarily reflect the relative adequacy or inadequacy of benefits that injured workers actually receive in different states. A state with relatively high payments per covered worker may in fact be paying relatively low benefits to injured workers relative to those workers' earnings losses; conversely, a state with relatively low benefits paid per covered worker may pay relatively high benefits compared to earnings losses. Similarly, these figures do not accurately portray the comparative cost to employers of the workers' compensation program in one state versus another. Some of the reasons for

the limited value of the data on benefits paid per worker for interstate comparisons of adequacy of benefits and for the lack of any value of the data for interstate comparisons of employers' costs of workers' compensation together with the caveats on the use of these data for either type of comparison, are set out below.

Caveats on comparing benefit adequacy across states

An appropriate study of adequacy would include an examination of the amount of benefits disabled workers actually receive and how the benefits compare to the wages that the workers actually lost because of their injuries or occupational diseases. Such data are not available on a consistent basis across states, primarily because most states have no information on the earnings losses due to workplace injuries or diseases. We do have data on benefits per worker and benefits relative to aggregate wages, but those measures could be high or low in a given state for a number of reasons unrelated to the adequacy of benefits that injured workers actually receive.

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

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

Third, states have different policies about how they pay permanent disabilities. Some pay benefits for life or until retirement age. Others limit benefits for permanent disabilities to a few years or to a specified dollar amount. Still others have policies that permit or encourage lump-sum settlements for permanent disabilities. Differences in these policies can have a major impact on the benefits a state actually pays in a given year, relative to the size of its total workforce or total covered wages.

						Percent Change	իսոտբ	
State	1997	1998	1999	2000	1997-1998	1998-1999	1999-2000	1997-2000
Alabama	\$ 530,230	\$ 615,316	\$ 596,233	\$ 529,189	16.0	-3.1	-11.2	-0.2
Alaska	130,045	128,576	137,630	155,628	-1.1	7.0	13.1	19.7
Arizona	427,885	393,907	426,739	481,520	-7.9	8.3	12.8	12.5
Arkansas	157,128	161,146	165,341	187,825	2.6	2.6	13.6	19.5
California	7,073,544	7,374,486	7,856,442	8,949,070	4.3	6.5	13.9	26.5
Colorado	675,008	709,535	655,446	768,758	5.1	-7.6	17.3	13.9
Connecticut	731,830	711,130	722,156	667,056	-2.8	1.6	-7.6	-8.9
Delaware	120,719	118,511	96,877	100,251	-1.8	-18.3	3.5	-17.0
District of Columbia	81,696	75,800	81,757	77,682	-7.2	7.9	-5.0	-4.9
Florida	2,374,287	2,207,984	2,079,830	2,272,859	-7.0	-5.8 ^a	9.3 ^a	-4.3 ^a
Georgia	713,955	808,533	813,754	881,848	13.2	.6 ^a	8.4	23.5
Hawaii	254,915	233,325	222,056	231,359	-8.5	-4.8	4.2	-9.2
Idaho	138,800	154,762	153,012	167,664	11.5	-1.1 ^a	9.6 ^a	20.8 ^a
Illinois	1,576,651	1,689,846	1,715,615	1,812,577	7.2	1.5	5.7	15.0
Indiana	437,797	482,029	520,621	550,394	10.1	8.0	5.7	25.7
Iowa	273,155	292,002	283,253	328,854	6.9 ^a	-3.0 ^a	16.1	20.4 ^a
Kansas	312,698	318,352	326,196	341,505	1.8	2.5	4.7	9.2
Kentucky	413,483	430,958	460,583	516,360	4.2 ^a	6.9	12.1	24.9 ^a
Louisiana	419,777	428,782	427,851	455,142	2.1 ^a	-0.2	6.4	8.4 ^a
Maine	271,307	246,169	249,195	252,283	-9.3	1.2	1.2 ^a	-7.0ª
Maryland	1,113,399	1,045,372	1,152,005	1,194,629	-6.1	10.2	3.7 ^a	7.3 ^a
Massachusetts	653,327	641,409	633,840	666,455	-1.8	-1.2	5.1 ^a	2.0 ^a
Michigan	1,332,222	1,366,963	1,392,806	1,574,467	2.6	1.9	13.0^{a}	18.2 ^a
Minnesota	738,100	732,300	744,600	798,100	-0.8	1.7	7.2	8.1
Mississippi	231, 340	234,700	253,532	269,215	1.5	8.0	6.2	16.4
Missouri	527,053	589,366	591,292	525,553	11.8	.3 ^a	-11.1a	3 ^a
Montana	157,367	170,715	144,856	150,269	8.5 ^a	-15.1 ^a	3.7 ^a	-4.5 ^a
Nebraska	184,673	181,945	173,149	179,988	-1.5	-4.8a	3.9	-2.5
Nevada	346,021	330.092	372.764	286.531	-4.6	170	-73 1a	-17 Ja
			10 11 10	- 2/22		14.1	1.07-	· · / · -

15.5 14.1 ^a	8.0	27.4	11.9	3.1	-23.7	-1.1	-3.7	24.9 ^a	29.9	3.5 ^a	36.0	41.5 ^a	24.9	30.8	1a	21.4	20.1	18.3 ^a	-31.9ª	12.6	0.9	10.5	-15.5	11.7	erefore, might be ?, and Costs, 2000	abor and the Social n A.M. Best include
8.0 16.8^{a}	1.6	11.3	11.4	3.6	-10.0	7.4	-2.6	12.1	16.6	-4.8 ^a	14.8	16.5 ^a	-11.8	10.4	-7.9	5.7	11.4	7.8ª	-34.8ª	6.7	1.4	4.5	-5.0	6.4	nge in benefits, th Benefits, Coverage	Department of L because data fron
3.4 0.3	3.6	-7.5	-5.4	-2.4	-10.8 ^a	-10.8	1.0	4.7	5.8	10.5	-1.0	12.0^{a}	22.9	9.0 ^a	-1.9a	8.3	5.7	4.9a	-4.5	2.5	0.0	2.7	-5.3	2.2	f the percent char rs' Compensation:	nefits paid by the are not included
3.4 -2.6	2.6	23.7	6.2	1.9	-5.0	3.2	-2.1	6.4^{a}	5.3	-1.5	19.7	8.5	15.3	8.7	10.6^{a}	6.1	2.1	4.6	9.4	2.9	-0.4	2.9	-6.1	2.7	estimates. Some o mpanion to Worke	sation Act and be Compensation Act
1,066,542 136.830	2.828.018	788,369	85,767	2,091,992	417,478	412,710	2,378,591	122,316	596,526	76,453	588,475	1,949,128	159,283	114,393	534,014	1,499,070	741,049	703,299	46,357	42,878,130	3,031,559	2,099,613	931,946	45,909,689	ars being compared for at least one component of the estimates. Some of the percent change in benefits, therefore, might be by state methodologies, see, <i>Sources and Methods: A Companion to Workers' Compensation: Benefits, Coverage, and Costs, 2000</i> x-nasi.org.	l Employees' Compen nd Harbor Workers' C
987,378 117,168	2.782.474	708,144	76,997	2,018,909	464,095	384,110	2,441,255	109,148	511,735	80,331	512,651	1,673,064	180,666	103,607	579,991	1,418,255	665,403	652,281	71,151	40,158,594	2,989,551	2,008,909	980,642	43,148,145	mpared for at least o thodologies, see, <i>Sou</i>	nts under the Federal nder the Longshore aı
924,696 116.819	2.686.247	765,817	81,403	2,068,878	520,181	430,521	2,418,072	104, 199	483,606	72,722	517,846	1,494,410	146,986	95,056	591,068	1,309,371	629,480	621,973	74,469	39,221,713	2,990,737	1,955,287	1,035,450	42,212,450	he two years being co l on state by state me ite at www.nasi.org.	ess and their depende program. Payments ur
923,460 119.893	2.618.320	619,021	76,617	2,030,046	547,355	417,222	2,471,021	97,926	459,377	73,862	432,662	1,377,393	127,492	87,488	534,350	1,234,495	616,790	594,463	68,068	38,081,128	3,003,751	1,900,953	1,102,798	41,084,879	1 methods between th hods. For more detai the Academy's webs	, deral civilian employe for the Black Lung p
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	Non-federal total	Federal ^b	Civilian employee	Black Lung	TOTAL	a There was a difference in methods between the two years being compared for at least one component of the estimates. Some of the percent change in benefits, therefore, might be due to the differing methods. For more detail on state by state methodologies, see, Sources and Methods: A Companion to Workers' Compensation: Benefits, Coverage, and Costs, 2000 New Estimates section of the Academy's website at www.nasi.org.	b Includes payments to federal civilian employees and their dependents under the Federal Employees' Compensation Act and benefits paid by the Department of Labor and the Social Security Administration for the Black Lung program. Payments under the Longshore and Harbor Workers' Compensation Act are not included because data from A.M. Best include these in state level data

						Percent Change	Change	
State	1997	1998	1999	2000	1997-1998	1998-1999	1999-2000	1997-2000
Alabama	1.25	1.37	1.26	1.08	9.9	-7.8	-14.4	-13.2
Alaska	1.64	1.56	1.64	1.76	-5.2	5.4	7.0	6.9
Arizona	0.81	0.67	0.67	0.68	-17.4a	$\dot{\omega}$	2.2	-15.3 ^a
Arkansas	0.68	0.65	0.63	0.68	-3.9ª	-3.0	7.9	.7а
California	1.60	1.53	1.49	1.49	-4.3 ^a	-2.8	4.	-6.7 ^a
Colorado	1.20	1.12	0.94	0.98	-6.2 ^a	-16.2	3.7	-18.4 ^a
Connecticut	1.20	1.09	1.04	0.89	-9.2	-4.4	-14.5	-25.8
Delaware	1.02	0.92	0.70	0.69	-9.8	-23.4	-1.8	-32.2
District of Columbia	0.47	0.41	0.40	0.34	-13.4 ^a	-2.5	-13.1	-26.6 ^a
Florida	1.48	1.25	1.11	1.11	-15.4	-11.4	.3 ^a	-24.8 ^a
Georgia	0.74	0.77	0.71	0.71	2.9	-7.2	.1	-4.5
Hawaii	1.83	1.64	1.51	1.49	-10.7	-8.0	-1.3	-18.9
Idaho	1.18	1.23	1.12	1.11	4.3^{a}	-8.6	9a	-5.5a
Illinois	0.87	0.87	0.83	0.82	<i>.</i>	-4.1	7	-5.1
Indiana	0.59	0.60	0.62	0.63	2.4	2.8	1.5	6.7
Iowa	0.82	0.82	0.75	0.84		-8.3 ^a	11.5	1.3^{a}
Kansas	1.02	0.97	0.93	0.92	-5.8 ^a	-3.2	-1.0	-9.8 ^a
Kentucky	1.02	0.99	0.99	1.06	-2.4a	.2 ^a	6.3	4.0^{a}
Louisiana	0.93	0.89	0.88	06.0	-4.6 ^a	-1.7a	2.8	-3.7a
Maine	2.09	1.77	1.68	1.61	-15.0	-5.4	-4.3 ^a	-23.0 ^a
Maryland	1.72	1.51	1.55	1.48	-12.6	2.7	-4.2ª	-14.1 ^a
Massachusetts	0.62	0.56	0.51	0.47	-9.6 ^a	-9.4	-6.9 ^a	-23.8 ^a
Michigan	0.98	0.94	06.0	0.97	-4.9	-3.9	7.2 ^a	-1.9a
Minnesota	1.02	0.93	0.89	0.88	-9.0	-4.9	6	-14.3
Mississippi	1.04	0.98	1.02	1.05	-5.3	3.4	3.0	6.
Missouri	0.82	0.86	0.82	0.69	5.1 ^a	-4.8	-16.1 ^a	-16.0 ^a
Montana	216		1 70	1 74		10.12	6 F C	10.22

Nevada	1.41	1.22	1.26	0.00	-13.1 ^a	3.3	-28.7 ^a	-36.0 ^a
New Hampshire	0.97	0.94	0.91	0.81	-3.4 ^a	-2.7	-10.8	-16.2 ^a
New Jersey	0.70	0.67	0.65	0.64	-4.1	-3.0	6	-7.9
New Mexico	0.81	0.75	0.72	0.79	-7.8	-3.5	9.1 ^a	-3.0 ^a
New York	0.88	0.83	0.81	0.76	-5.2	-2.7	-7.0	-14.2
North Carolina	0.67	0.77	0.66	0.69	14.3	-13.6	4.1	2.7
North Dakota	1.24	1.24	1.12	1.19	.0 ^a	-9.8	6.2	-4.2 ^a
Ohio	1.35	1.30	1.21	1.19	-4.2	-6.9	-1.0	-11.7
Oklahoma	1.76	1.55	1.33	1.13	-11.8	-14.2	-15.5	-36.1
Oregon	1.00	0.98	0.82	0.81	-2.7	-16.1	6	-19.0
Pennsylvania	1.60	1.47	1.40	1.29	-8.3	-4.3	-8.0	-19.2
Rhode Island	0.96	0.96	0.95	0.99	5 ^a	8 ^a	4.9	3.5 ^a
South Carolina	1.17	1.14	1.14	1.26	-2.4	4	10.6	7.5
South Dakota	1.07	1.09	1.01	0.90	1.6	-7.2	-10.8 ^a	-16.0 ^a
Tennessee	0.68	0.77	0.72	0.79	12.1	-6.3	9.2	14.7
Texas	0.71	0.70	0.71	0.75	-1.8	6.	6.4 ^a	5.4 ^a
Utah	0.54	0.58	0.67	0.55	6.9 ^a	15.3	-17.8	1.3^{a}
Vermont	1.29	1.31	1.34	1.37	1.8^{a}	2.2	2.5	6.6^{a}
Virginia	0.64	0.64	0.58	0.49	1.1	-9.7a	-16.1	-23.4
Washington	1.66	1.58	1.55	1.54	-4.8	-2.0	5	-7.2
West Virginia	3.93	3.86	3.96	4.24	-1.7	2.5	7.1	7.9
Wisconsin	0.88	0.86	0.85	0.87	-1.9ª	-1.1	2.4^{a}	7a
Wyoming	1.41	1.46	1.32	0.80	3.7	-9.9	-39.3 ^a	-43.3 ^a
TOTAL ^b	1.15	1.09	1.04	1.03	-4.9	-4.5	-1.8	-10.7
a There was a difference in methods between the two years being compared for at least one component of the estimates. Some of the percent change in benefits, therefore, might be due to the differing methods. For more detail on state by state methodologies, see, <i>Sources and Methods: A Companion to Workers' Compensation: Benefits, Coverage, and Costs, 2000 New</i>	methods between th For more detail on	ne two years being con state by state methode	mpared for at least or ologies, see, <i>Sources a</i>	ie component of thu nd Methods: A Comj	e estimates. Some c banion to Workers' (of the percent cha Compensation: Ben	nge in benefits, th æfits, Coverage, an	ierefore, might be due <i>id Costs, 2000 New</i>
<i>Estimates</i> section of the Academy's website at www.nasi.o	cademy's website at	www.nasi.org.						
b Includes federal benefits and wages.	and wages.							
Source: National Academy of Social Insurance estimates based on Tables 4 and 10.	f Social Insurance es	timates based on Tabl	les 4 and 10.					

Fourth, benefits actually paid in the year (which are the data reported here) will be influenced by injuries that occurred in prior years. A state with a disproportionately large number of injured workers who are being compensated for permanent disabilities that occurred in the past would appear to pay above average benefits, when, in fact, the actual benefits for recently injured workers may not be above average. Alternatively, a state with a long period of future benefit payments may appear to be below average on the basis of the current year's payments when in fact the ultimate benefits required to be paid for recent injuries may be above average.

Fifth, variations in state wages can lead to cross-state differences in benefits per covered worker. Wages in a state are influenced by the mix of industries and occupations in that state. Because the cash component of benefits paid is linked to wages, states with higher wages will tend to pay higher benefits, all else being equal. To some extent, this is controlled for when using benefits relative to covered payroll. However, because benefits are capped to not exceed a maximum dollar amount, states with many highlypaid workers could have lower benefits relative to covered payroll.

Sixth, the demographic composition of the workforce varies among states. Younger workers are more likely to experience injuries, but older workers are prone to certain chronic conditions that are relatively expensive.

Seventh, state economic activity can influence benefits per covered worker in other ways apart from differing wage rates. A state experiencing a recession will have fewer workers and fewer people working overtime. Furthermore, the reductions in hours worked will probably not be distributed evenly across industries or occupations. This will affect who is working, what they are earning, and the distribution of the type of injuries or illnesses occurring.

Eighth, variations among states in both the price of medical care services and the variations in use of services and practice patterns will have an impact on the amount of medical benefits paid.

Finally, in-migration or out-migration in a state will affect benefits per covered worker. For example, a state that is paying a large number of permanently disabled workers from past years would have rising benefits relative to its total work force if it experienced substantial out-migration, but could have declining benefits per worker if it experienced substantial in-migration. Yet the benefits actually received by permanently injured workers in that state may not have changed.

Caveats on comparing employer costs across states.

An employer's costs for workers' compensation in different states would best be compared by knowing the premiums that comparable employers are charged in each state. These premiums would be affected by the employer's insurance classification and its own experience with past injury rates and the severity of injuries its workers sustained. Data on aggregate benefits per worker, or relative to total wages in the state, do not provide this information, for the following reasons.

Factors Influencing Differences in Benefits Paid in Different States

Industrial and occupational mix – Injury rates and the types of injuries and illnesses that occur are heavily influenced by the types of jobs in a state.

Wage rates – Benefits are linked to wage rates which vary across states based not only on labor market conditions but other factors influencing the cost of living.

State economic conditions – The number of workers, how much they are working, and the economy they face affect who is at risk for injuries and illnesses and the likelihood of these conditions being reported.

State differences in medical care – Differences in the price of medical care services and the nature of the health care delivery system can have an impact on medical benefits.

Policy parameters – Each state has its own workers' compensation statutes, case law, and administrative procedures that affect both compensability and the amount of benefits paid to successful claimants. First, a company in a high-risk industry would not necessarily experience lower costs if it moved to a state with predominantly low-risk industries, since the migrating company will remain in the same insurance classification.

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

Third, as shown in Table 12, the employers' costs of workers' compensation nationally exceed the benefits

paid to workers because of factors such as administrative costs and profits (or losses) of private carriers. The relationship of employers' costs relative to workers' benefits varies among states because of various factors, such as the extent of competition in the workers' compensation insurance market.

In brief, state-level benefits paid per worker or relative to total wages in the state are a way to standardize aggregate benefit payments between large and small states. However, much more refined data and analyses are needed to assess the adequacy of benefits that individual workers receive, or the costs that particular employers would incur in different states.

Employer Costs

Employer costs for workers' compensation in 2000 were \$56.0 billion, which was 2.8 percent higher than in 1999 (Table 12). This was the third year in a row that costs increased in nominal terms. When measured per \$100 of covered payroll, however, employer costs declined between 1999 and 2000 from \$1.32 to \$1.25 (Table 13).

Table 12

Employer Costs for Workers'	Compensation by Type of Insurer	, 1987-2000 (in millions)
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	Total	Private Carriers	State Funds	Self- Insured	Federal Programs	Percent Change in Total
1987	\$ 38,095	\$ 25,448	\$ 5,515	\$ 5,404	\$ 1,728	
1988	43,284	28,538	6,660	6,175	1,911	13.6
1989	47,955	31,853	7,231	6,915	1,956	10.8
1990	53,123	35,054	8,003	7,910	2,156	10.8
1991	55,216	35,713	8,698	8,677	2,128	3.9
1992	57,394	34,539	9,608	10,794	2,454	3.9
1993	60,820	35,596	10,902	11,791	2,530	6.0
1994	60,475	33,997	11,235	12,795	2,490	-0.6
1995	57,054	31,554	10,512	12,467	2,556	-5.7
1996	55,293	30,453	10,190	12,049	2,601	-3.1
1997	52,480	29,450	9,486	10,961	2,582	-5.1
1998	52,851	30,100	9,828	10,263	2,660	0.7
1999	54,433	30,827	10,600	10,334	2,672	3.0
2000	55,958	32,562	9,780	10,927	2,689	2.8

Source: National Academy of Social Insurance estimates. 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 U.S. Department of Labor and the Social Security Administration. Self-insured costs are based on information from the National Association of Insurance Commissioners.

Table 13

Year	Costs per Covered Employee	Costs per \$100 of Payroll	Benefits per Covered Employee	Benefits per \$100 of Payroll	Benefits per \$1 in Cost
1989	\$ 462	\$ 2.04	\$ 330	\$ 1.46	\$.72
1990	504	2.18	362	1.57	0.72
1991	532	2.16	407	1.65	0.76
1992	549	2.12	437	1.68	0.80
1993	571	2.16	426	1.61	0.75
1994	552	2.05	407	1.51	0.74
1995	508	1.82	386	1.38	0.76
1996	482	1.66	364	1.26	0.76
1997	446	1.47	349	1.15	0.78
1998	438	1.37	350	1.09	0.80
1999	440	1.32	348	1.04	0.79
2000	442	1.25	363	1.03	0.82

Workers' Compensation Benefit and Cost Ratios, 1989-2000

Total costs to employers who purchase insurance from private carriers and state funds consist of premium payments plus the payments made under deductible provisions. For self-insured employers, the costs include benefit payments and administrative costs. Because self-insured employers often do not separately record administrative costs for workers' compensation, their administrative costs must be estimated. They are assumed to be the same share of benefits as administrative costs for other insurers. This percentage, which amounts to 11 percent of paid benefits, is based on the ratio of administrative costs to total benefits as reported by private insurers to the National Association of Insurance Commissioners (NAIC, 1998). This ratio is based on direct loss adjustment expenses and a portion of their expense for taxes, licenses, and fees.

For federal employees, employer costs are benefits paid plus administrative costs (U.S. Department of Labor, 2001b). For the Black Lung program, employer costs are the revenues from the excise tax on coal.

According to these estimates, the cost of employers insuring through private carriers was \$32.6 billion in 2000, or approximately 58.2 percent of total costs.

Self-insurers accounted for 19.5 percent of total employer costs; state funds represented 17.5 percent of costs, and federal programs 4.8 percent.

Trends in Benefit and Cost Ratios

Table 13 shows the trend during the 1990s in benefits paid and employer costs per covered worker and per \$100 of covered payroll. Benefits per \$100 of covered payroll declined for the eighth consecutive year in 2000 to \$1.03. This level is about 39.4 percent lower than the 1992 peak year, when benefits were \$1.68 per \$100 of covered payroll. Benefits per covered worker were \$363 in 2000, but both costs and benefits per covered employee actually increased for the first time since 1993. Employer costs per \$100 of covered payroll declined slightly in 2000 to \$1.25 from \$1.32 in 1999.

The ratio of total benefits paid to total employer costs in 2000 rose slightly to 82 percent. The difference between employer costs and benefits paid to workers is composed of administrative costs and insurance carrier profits or losses.

Table 14

Year	Number of	Number of Cases (in millions)		Incidence Rate ^a		
	All Cases	Cases with Days Away from Work	All Cases	Cases with Days Away from Work		
1987	6.0	2.5	8.3	3.4		
1988	6.4	2.6	8.6	3.5		
1989	6.6	2.6	8.6	3.4		
1990	6.8	2.6	8.8	3.4		
1991	6.3	2.6	8.4	3.2		
1992 ^b	6.8	2.3	8.9	3.0		
1993 ^b	6.7	2.3	8.5	2.9		
1994 ^b	6.8	2.2	8.4	2.8		
1995 ^b	6.6	2.0	8.1	2.5		
1996 ^b	6.2	1.9	7.4	2.2		
1997 ^b	6.1	1.8	7.1	2.1		
1998 ^b	5.9	1.7	6.7	2.0		
1999 ^b	5.7	1.7	6.3	1.9		
2000 ^b	5.7	1.7	6.1	1.8		

Private Industry Occupational Injury and Illness: Total Cases and Incidence Rates, 1987-2000

^a The incidence rate is the number of cases per 100 full-time workers.

^b Data for these years exclude fatal work-related injuries and illnesses.

Source: U.S. Department of Labor, 2001d.

Work Injuries, Occupational Illness, and Fatalities

While national data are not available on the number of people receiving workers' compensation benefits, the Bureau of Labor Statistics (BLS) collects information about work-related injuries and illnesses that occur in private sector workplaces. The Survey of Occupational Injuries and Illnesses is a joint federal/state program in which employer reports are collected from a sample of about 165,000 private industry establishments and processed by state agencies in cooperation with the BLS. The annual survey classifies three degrees of severity of workplace injuries or newly-diagnosed illnesses: (1) those requiring recuperation away from work beyond the day the incident occurred, or days away from work," cases; (2) those involving "restricted work activity only," which means that, while the worker did not miss work, he or she was not able to perform all normal job tasks for some period of time; and (3) other less severe cases that do not involve either restricted activity or lost work days.

Trend in Total Injury Rates

The number of injuries and illnesses for all levels of severity combined held steady in 2000 at 5.7 million (Table 14). The *incidence rate* for these conditions measures the number of new occurrences per 100 full-time workers during the year. The incidence rate for all levels of severity combined was 6.1 cases per 100 workers in 2000. The rate has declined steadily since 1992, when it was 8.9 cases per 100 workers.

The incidence of injuries and illnesses is influenced by the industrial mix of the workforce because workers in different industries have widely different injury

Table 15

Number	of Fatal	Occupational	Injuries,
1992-200	00		

1992	6,217
1993	6,331
1994	6,632
1995	6,275
1996	6,112
1997	6,238
1998	6,026
1999	6,023
2000	5,915

rates. For example, in 2000 the occupational injury and illness rates per 100 workers in various manufacturing industries were 13.7 in transportation equipment, 12.1 in lumber and wood products, and 12.6 in primary metals. On the other hand, in service and sales industries, examples of injury rates per 100 workers were 5.0 for auto repair, services, and parking, 3.2 for educational services and 0.7 for legal services (U.S. Department of Labor, 2001d).

It is also possible that some of the decline in injury rates is an indirect result of tighter eligibility standards for workers' compensation. Fewer cases being reported to the workers' compensation system could result in fewer injuries reported to the Department of Labor.

Severity of Injuries

In considering the kinds of workplace injuries that might involve workers' compensation cash benefits, one would focus on cases that involved days away from work. They numbered 1.7 million in 2000 and have remained unchanged since 1998. Before 1998, injuries involving days away from work had declined for five years. The incidence rate for these more severe injuries also declined, from 3.0 per 100 workers in 1992 to 1.7 per 100 workers in 2000. One study found that the long-term decline in injuries that involve days away from work has been accompanied by an increase in restricted activity days. Both increased job safety and faster return to work of injured workers may account for that trend (Ruser, 1999).

The types of conditions that involved days away from work in 1999 were, in order of frequency: sprains, strains, and tears; bruises or contusions; cuts and lacerations; fractures; burns from heat and scalds; carpal tunnel syndrome; tendonitis; chemical burns; and amputations. The median duration of time away from work beyond the day of injury was 6 days. In about 29 percent of cases with lost work days, the worker missed 1-2 days of work, while in about 26 percent of cases the worker missed more than 20 days of work (U.S. Department of Labor, 2001e).

In considering how the number of occupational injuries and illnesses reported to the BLS might compare with cases that involve workers' compensation cash benefit payments, it is useful to recognize that most workers' compensation programs have a waiting period — typically 3-7 days of work loss before cash benefits will be paid. In 21 states and the District of Columbia, the waiting period is 3 days. In 23 other states it is 7 days, and for the remaining 6 states the waiting period is 4-6 days. Generally, if lost work time is of long duration — say, at least 14 to 21 days — the worker is retroactively paid for the waiting period. Of the 1.7 million cases in 1999 in which workers missed work, about 30 percent would not have met a three-day waiting period and about 50 percent would not have met a six-day waiting period for workers' compensation cash benefits (U.S. Department of Labor, 2001d), although their medical expenses could have been paid by workers' compensation. These data suggest that if BLS estimates of occupational injuries and illnesses that involve lost work days are a proxy for workers' compensation cases, then a significant portion would be "medical only" cases because the lost-work time was shorter than the waiting period for workers' compensation cash benefits.

Finally, if the BLS survey data are considered a proxy for workers' compensation cases, it is useful to note categories of workers who are not represented in the survey. Excluded from the survey are employees of small farms (with fewer than 11 employees) and all public sector employees. Local, state and federal government employees account for about 14.5 percent of wage and salary workers in the United States in 1999 — about 12.2 percent work for state and local governments and 2.3 percent are federal employees (U.S. Department of Labor Statistics, 2001f).

Fatalities

The number of fatal occupational injuries in 2000 fell from 6,023 to 5,915, about 5.2 percent below the 1997 level of 6,238, and the lowest count since the Census of Fatal Occupational Injuries was first conducted by the Bureau of Labor Statistics in 1992 (Table 15). Unlike the Survey of Occupational Injuries, the census of fatalities includes public employees and the self-employed, as well as private sector employees. It is the most complete count of fatal work injuries available because it uses diverse state and federal sources to identify, verify, and profile fatal work injuries. These fatalities include only deaths caused by injuries and not deaths caused by long-term occupational diseases.

Transportation incidents continued as the leading cause of on-the-job fatalities during 1999, accounting for 2,573 deaths, or 43.5 percent of the total. Violent acts — homicides, suicides, and animal attacks — were the second leading cause of on-the-job deaths, accounting for 15.8 percent of all fatalities. The third most common cause of on-the-job deaths was falls, which caused 735 deaths in 2000 (U.S. Department of Labor, 2001g).

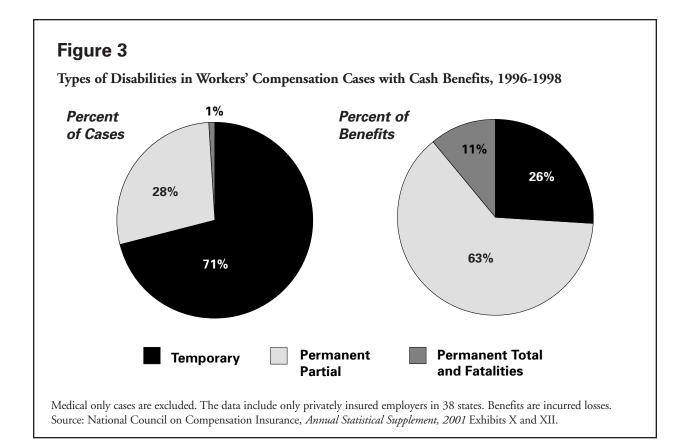
Types of Disabilities Paid by Workers' Compensation

The duration and amount of workers' compensation benefits vary depending on the severity of the worker's disability. Most workers' compensation cases do not lead to lost work time greater than the waiting period for cash benefits. In these cases, only medical benefits are paid. These "medical only" cases are quite common. Because they involve relatively minor injuries, however, these cases represent a small share of benefit payments, according to data provided by the NCCI. These data, which include only privately insured employers in 38 states and are for policy years spanning 1996-1998, show that "medical only" cases accounted for 76 percent of workers' compensation cases, but only 6.2 percent of all benefits paid (NCCI, 2001a). Therefore, the cases that involved cash wage-replacement benefits accounted for 24 percent of cases and 94 percent of benefits paid (for cash and medical care combined).

Cash benefits are categorized according to the duration and severity of the worker's disability. When workers' lost time exceeds the waiting period, they receive temporary total disability benefits while their injuries are healing. In most cases they recover and return to work and benefits end. In some cases, they return to work prior to the date they reach maximum medical improvement and thus have reduced responsibilities and an accompanying lower salary. In those cases, they receive temporary partial disability benefits. Temporary disabilities are the most common type of cases that involve cash wage-replacement benefits. They account for 71 percent of such cases, and 26 percent of benefits paid (Figure 3).

After the date of maximum medical improvement, if a disability is severe enough, the worker receives permanent total disability benefits (PTD). In some states, there are certain injuries that are presumed to be permanently and totally disabling, for example the loss of both eyes or both arms. In some states, workers can receive PTD benefits if an illness or injury is deemed significant enough to preclude any gainful employment. In certain states, these determinations are made taking into consideration geographical, educational, and economic factors. An injured person might be able to do some sort of work, but given his or her education, experience, and the opportunities where he or she lives, no employment may be possible. Very few workers' compensation cases are found to have permanent total disabilities. Even when combined with fatalities, permanent total disabilities account for less than 1 percent of all cases that involve wage-replacement benefits, but together they accounted for 11 percent of benefit spending in such cases — about three quarters for PTD and the rest for fatalities.

The most contentious category of benefits is permanent partial disability benefits. These benefits are paid to workers with consequences of their injuries or disease that continue after the date of maximum medical improvement. In these instances, the disability is considered permanent but not severe enough to preclude work. The systems for determining benefits in these cases are very complex and vary significantly across jurisdictions. Some states provide benefits based on an impairment rating scheme. The level of impairment, often expressed as a percent of total disability, is used to determine the benefit amount. Some states provide benefits based on the loss of earning capacity. They use impairment ratings with



modifications based on vocational factors, such as the workers' education, job experience, and age. Other states use a system that attempts to compensate workers for actual lost wages. Permanent partial disabilities account for 28 percent of cases that involve any cash payments and for the major share of benefit spending in such cases, 63 percent.

Comparing Workers' Compensation with Other Disability Benefit Programs

Workers' compensation programs are often discussed in isolation from other disability programs, even though some people are simultaneously recipients of benefits from more than one program. Total workers' compensation payments are considerably larger than other employment-based disability benefits except for Social Security Disability Insurance and Medicare.

Other Disability Benefits

Sick leave is the most common form of wagereplacement for short-term absences from work due to illness or injury. Benefits typically pay 100 percent of wages for a few weeks. About 53 percent of private sector employees were covered by formal sick leave policies in 1999 (U.S. Department of Labor, 2001h). They include 63 percent of full-time employees and 19 percent of part-time employees.

In five states, short-term disability insurance is mandated by the state governments through Temporary Disability Insurance (TDI) programs. These states - California, Hawaii, New Jersey, New York, and Rhode Island — administer these programs through a state fund or private insurance. These programs restrict eligibility for benefits if the person receives workers' compensation. The state programs generally pay benefits that replace half the worker's lost earnings, subject to minimum and maximum weekly benefits. Most programs pay benefits for up to 26 weeks, although California pays for up to 52 weeks. These programs paid \$2.9 billion in benefits in 1998 (Table 16). About 22.5 million workers — approximately 17 percent of workers covered by unemployment insurance — are covered under these state TDI programs, and about half of those workers reside in California (Social Security Administration, 2001a).

Table 16

Disability Benefit Expenditures by Public Programs (in billions)

Social Security Disability	
Insurance (DI), 2000 (a)	\$ 56.8
Disabled workers	49.8
Dependents	5.1
Medicare for DI	
beneficiaries, 2000 ^a	\$ 28.7
Workers' Compensation, 2000	\$ 45.9
Cash benefits	25.9
Medical and hospital	20.0
State Temporary Disability	
Insurance, 1998	\$ 2.9

a Includes benefits for disabled workers under age 65. At age 65 disabled worker benefits shift to retirement benefits.

Sources: Workers' compensation amounts are National Academy of Social Insurance estimates. Data on Social Security Disability Insurance and Temporary Disability Insurance are from Social Security Administration, 2001a. Medicare data are from the Centers for Medicare and Medicaid Services.

Workers in other states may have short-term disability insurance (STDI) that is provided and financed, at least in part, by employers. Benefits usually last for up to 26 weeks and typically replace about half of the worker's prior earnings, though some pay as much as 70 percent. About 36 percent of private sector employees were covered by short-term disability insurance in 1999 (U.S. Department of Labor, 2001h).

Taking TDI, sick leave, and private STDI together, about 70 percent of private sector workers have some coverage for short-term disability. They include 26 percent who have only sick leave, 20 percent who have only TDI or STDI, and 24 percent who have both (Mashaw and Reno, 1996a, p. 100). Thus, these data suggest that about 30 percent of private sector workers do not have any formal provisions through their employers for wage replacement during temporary absence from work due to sickness or disability, other than workers' compensation.

Private, employment-based long-term disability insurance (LTDI) that is financed, at least partially, by employers covers about 25 percent of private sector employees. Such coverage is most common among professionals. About 48 percent of professionals, 26 percent of clerical and sales workers, and only 15 percent of blue-collar and service workers had LTDI in 1999 (U.S. Department of Labor, 2001h).

LTDI benefits are usually paid after a waiting period of three to six months, or after STDI benefits are exhausted. LTDI is generally designed to replace 60 percent of earnings, although replacement rates of 50 percent and 66 percent are also common. Almost all LTDI is coordinated with Social Security disability insurance (DI), such that LTDI benefits are reduced dollar for dollar by DI benefits. For example, if DI paid a benefit replacing 40 percent of the worker's prior earnings, LTDI would pay the balance to achieve a 60 percent replacement. LTDI is also sold in individual policies, typically to high-earning professionals. Such individual policies are not included in these data.

Social Security Disability Insurance

Workers' compensation is second in size (DI) only to the federal Social Security disability insurance program and the accompanying Medicare program in providing cash and medical benefits to disabled workers.

While DI and workers' compensation are the nation's two largest work-based disability benefit programs, the focuses of the two programs are quite different. DI is paid only to workers who experience severe, long-term impairments that preclude any gainful work. By law, it is paid only to workers who are unable to engage in any substantial gainful activity by reason of a medically determinable physical or mental impairment that is expected to last a year or result in death. The impairment has to be of such severity that the worker is not only unable to do his or her prior work, but is unable to do any substantial gainful work that exists in the national economy. DI also has a five month waiting period after the onset of disability before benefits begin. Many DI beneficiaries have impairments associated with aging. The prevalence of DI benefit receipt rises sharply at older ages, from less than 1 percent of the youngest insured workers to about 15 percent of insured workers age 60-64 (Reno and Eichner, 2000). Relatively few DI beneficiaries return to work. Typically, people leave the DI benefit rolls because they die or they reach age 65 and shift to Social Security retirement benefits. Only about 1.5 percent leave because they recover or return to work (Mashaw and Reno, 1996a).

Eligibility for workers' compensation is narrower than eligibility for DI in that it covers only injuries or diseases that are caused on the job. But coverage under workers' compensation programs has greater depth, in that it includes the full range of severity of work-related conditions — from relatively minor, temporary conditions to career-ending injuries or death. Also, workers are eligible for workers' compensation benefits from the moment of employment, while workers are only eligible for DI after working a number of years.

Workers' compensation payments were \$25.8 billion for wage replacement and \$19.7 billion for medical care in 2000. DI paid \$56.8 billion in wage replacement benefits to disabled workers and their dependents and Medicare paid \$28.7 billion for medical and hospital care to those workers. Thus, aggregate workers' compensation cash payments were about half of the size of DI payments, while workers' compensation medical benefits were about two-thirds of the size of Medicare reimbursements for disabled workers receiving DI (Table 16).

The smaller relative size of medical benefits available through Medicare is due, at least in part, to the fact that Medicare is available to DI beneficiaries only after a two-year waiting period. Also, the Medicare benefits package is less comprehensive than in workers' compensation programs because it does not cover prescription medications and it has beneficiary cost sharing in the form of deductibles, co-payments for covered services, and premium payments.

Coordination between workers' compensation and DI

Some people with severe, long-term disabilities stemming from an occupational illness or injury may become eligible for both workers' compensation and DI. In that case, however, benefits from one of the two programs are capped so as to avoid excessive payments relative to the workers' past earnings. The Social Security amendments of 1965 required that Social Security disability benefits be capped, so that the combined total of workers' compensation and DI benefits would not exceed 80 percent of the workers' prior earnings.¹ States, however, were allowed to establish reverse offset laws, whereby workers' compensation payments were capped instead of reducing the DI benefits. The option of enacting such reverse offset laws was eliminated in the Budget Reconciliation Act of 1981, but the sixteen states that already had such laws were allowed to keep them.²

As of March 2001 about 6.5 million disabled workers and their dependents received DI benefits (Table 17). About 497,000 of these individuals (or 7.6 percent), had some connection to workers' compensation. They include about 122,000 people who have their DI benefits capped under the workers' compensation offset. Another 207,000 DI beneficiaries received workers' compensation, but the combined benefits were not high enough to be affected by the cap. An additional 42,000 people received workers' compensation but resided in reverse offset states, where any benefit reduction would affect workers' compensation, rather than DI benefits. Finally, about 126,000 DI beneficiaries indicated to SSA that their disabilities were job-related, but their status with regard to workers' compensation was undecided or unknown.

Long-term trends in disability insurance and workers' compensation

Incidence data show the number of people entering the DI benefit rolls relative to the size of the insured population. The incidence rate — the number of persons entering the benefit rolls per 1,000 insured

¹ The current cap remains 80 percent of the worker's average indexed earnings before disability. However, in the relatively few cases where DI benefits, alone, for the worker and dependents amount to more than the 80 percent of prior earnings, the benefits are not reduced below the DI amount.

² States with reverse offset laws are California, Colorado, Florida, Hawaii, Illinois, Louisiana, Minnesota, Montana, Nevada, New Jersey, New York, North Dakota, Ohio, Oregon, Washington, and Wisconsin.

Table 17

Social Security Disability Insurance Beneficiaries with Workers' Compensation Involver	nent,
March 2001	

Type of Case	Number	Percent
Total disability insurance (DI) beneficiaries	6,525,510	100.0
Total with some connection to workers' compensation	496,949	7.6
Receiving workers' compensation — total	370,766	5.7
Resides in reverse offset state	42,235	0.6
DI benefits subject to workers' compensation offset	328,531	5.0
DI reduced due to offset cap	121,526	1.9
DI not affected by cap	207,005	3.2
Pending ^a	126,183	1.9

a Pending refers to cases where DI beneficiaries have indicated that they are in the process of applying for workers' compensation or that their disability resulted from an injury on the job.

Source: Social Security Administration, 2001c.

workers — fluctuated widely over the last 25 years; it ranged from an all-time high of 7.2 in 1975, to an all-time low of 3.3 in 1982, then leveled off and rose slightly to between 3.7 and 4.0 in the last half of the 1980s (Mashaw and Reno, 1996b). It rose again in the early 1990s, peaked in 1992 at 5.4, and declined slightly since then (Social Security Administration, 2001b). The incidence rate in 2000 was 4.7. The sharp shifts in the 1970s and early 1980s reflect changes in Social Security law and administrative policy, as well as the effects of economic conditions. Other things being equal, the number of severely disabled workers who apply and qualify for DI benefits tends to rise during economic downturns.

The effect of changes in DI incidence rates (and past changes in DI policy) on total program benefit costs relative to payroll is illustrated in Figure 4. It shows aggregate DI benefit payments as a percent of total payroll subject to Social Security taxes. Benefit payments grew rapidly in the early 1970s (due to higher incidence and legislated benefit increases), then declined through the late 1980s, as various policy changes that limited DI benefits and tightened eligibility criteria took effect. From 1990 to 1996 DI benefits again rose as benefit claims and allowances increased, particularly during the recession of 1990-1991. In 1997 and 1998, DI benefits declined slightly as a percent of payroll, from 1.48 in 1996 to 1.43 in 1998. From 1998 through 2000, DI benefits have remained steady at 1.43 percent of payroll (SSA, 2001b).

Figure 4 also illustrates the long-term trend in aggregate workers' compensation payments as a percent of payroll covered under that program. By these measures, workers' compensation benefits were less than DI benefits during the 1970s, but grew steadily throughout the 1970s and surpassed DI in the mid 1980s. When DI benefit costs flattened out during the mid-1980s, workers' compensation payments continued to grow at a rapid rate. When workers' compensation payments declined from 1992 to 1996, DI benefit as a share of payroll continued to inch upward. In 1997 and 1998, both programs show a decline in benefits as a percent of payroll, although this decline leveled for DI while continuing through 2000 for workers' compensation.

While the two programs serve somewhat different populations, the opposite trends in workers' compensation and Social Security disability benefits during many years since the mid-1970s raise the question of whether retrenchments in one program increase demands placed on the other, and vice-versa. The substitutability of DI and workers' compensation for workers with severe, long-term disabilities that are, at least arguably, work-related, or might be exacerbated by the demands of work, has received little attention by researchers and is not well understood (Burton and Spieler, 2001) When comparing the two programs, however, it is important to keep in mind that workers' compensation includes both cash and medical benefits. The medical benefits provided to DI recipients comes through Medicare, which is a separate program.

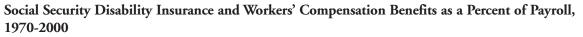
Incurred Losses Data

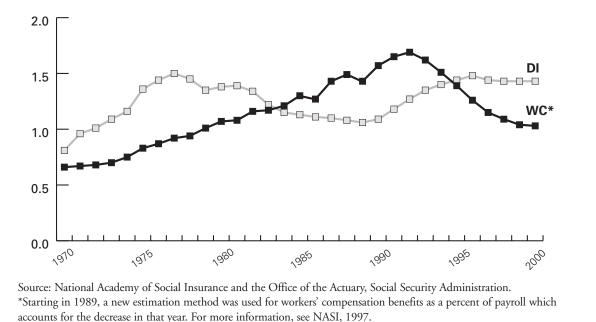
The data presented thus far in this report involve benefits measured as the amounts paid to recipients in a calendar year regardless of the year in which the workers' injuries occurred. This measure, called calendar year paid benefits, is the standard measure of all benefits paid by the government or the private sector (Table 18). A different measure of workers' compensation benefits is accident year incurred losses, which measures benefits incurred for injuries that occurred in a particular year, regardless of the year in which the benefits are paid. (The terms losses and benefits are used interchangeably because benefits to the workers are losses to the insurer.) Incurred losses include not only losses paid to date but also liabilities for future benefits. This means that accident year incurred losses in 1999 equal payments in 1999

to all workers injured in 1999 plus an estimate of all future benefits these particular recipients will receive. Both measures, calendar year paid benefits and accident year incurred losses, reveal important information.

Rate-making agencies, such as state rating bureaus and the National Council on Compensation Insurance, which provides advisory rate-making and statistical services in 33 states, rely primarily on accident year (or policy year) estimates of ultimate benefits rather than calendar year paid benefits (see Thomason, Schmidle, and Burton, Appendix C, 2001 for explication of these concepts). When an employer purchases coverage for a particular policy year, the premiums cover benefits for all injuries and illnesses that occur during that time. Those injuries, however, will result not just in payments made that year but in future years, as well. Total benefits paid in any one year are made to workers who were injured in different years — maybe a long time ago when statutory benefits were much different. Workers paid in a given year may have been covered under different policies. For that reason, accident year incurred losses are considered more sensitive at picking up changes in the trend of benefits owed to newly injured workers and in capturing responses to







recent changes in policy or insurance providers. Thus, for example, if a state reduced the benefit level applied to new injuries, then the expectation would be that benefit payments would decrease. The policy change will show up immediately in accident year incurred losses, but its influence on calendar year paid benefits will be diluted because that measure will include payments made to cases that began before the new benefit levels were adopted.

One problem with using accident year incurred losses is that it takes many years before the data for any particular year are complete. Estimates are generated for the stream of future benefits, but these estimates need to be updated annually. NCCI updates accident year incurred losses for 16 years before the data for a particular year are considered final. The size of the revisions, of course, tends to lessen over time. According to the 2001 edition of NCCI's *Annual Statistical Bulletin*, the first revision of accident year incurred losses in 1993 (made in 1995 and referred to as the second report, the initial estimate being the first report) increased the estimate of those losses by 24.1 percent. In 1996, the estimate for accident year incurred losses in 1993 was further revised upwards by 6.3 percent. The following year, the revision was 3.0 percent higher still. The long time frame for revisions complicates the use of accident year incurred losses as an indicator or responses to recent developments by adding a degree of uncertainty. However, the average adjustment from the third report to the ultimate payout is less than 10 percent.

Another problem with accident year incurred losses is that data for self-insurers and some state funds are not typically reported in this form. Consequently, the figures shown in Table 18 are primarily for private carrier losses. Another problem with accidentyear data is that they are not directly comparable to data on other social insurance programs.

Table 18 displays the percent change in calendar year paid benefits and accident year incurred losses. The data on incurred losses pick up the turnaround in the trend in the 1990s for benefit payments earlier than the calendar year paid data. Calendar year paid

Table 18

	Accident year	Calendar year benefits paid	
Year	Billions of dollars	Percent change ^b	Percent change ^c
1994	\$ 9.9	n.a.	n.a.
1995	8.8	-11.1	-2.7
1996	9.3	5.9	-3.5
1997	10.1	8.4	-1.8
1998	11.0	9.0	2.7
1999	11.7	6.1	2.2
2000	12.2	4.3	6.4
Cumulative r	percent change 1994 to 200	00 23.02	3.0

Comparison of Percent Change in Accident Year Incurred Losses (Selected States) with Percent Change in Calendar Year Benefits Paid (All States), 1994-2000

a These data are for states reported in the Annual Statistical Supplement of the National Council on Compensation Insurance. They include Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Mexico, North Carolina, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Utah, Vermont, Virginia, and Wisconsin.

b As of December 31, 2001. As noted in the text, they will be revised in subsequent years.

c See Table 5. Note these are for benefits in all states.

Source: National Council of Compensation Insurance, 2001b.

benefits did not increase until 1998, and then by only 2.8 percent. Accident year incurred losses started increasing in 1996.³

Reasons for the Trend in Workers' Compensation Benefits and Costs

Because controlled studies of private initiatives, combined with a cataloguing of changes in laws, regulations, and administrative procedures, are not currently available, the Academy's Study Panel does not fully understand the causes of the decline in workers' compensation benefits in the 1990s and their recent turnaround.

The Study Panel believes, nevertheless, that several likely factors are behind the decline in the 1990s, many of which occurred in response to the rising costs of workers' compensation programs in the 1980s and early 1990s. These factors are: fewer accidents, improvements in the operation of workers' compensation programs, the active management of medical treatment to reduce the length of disability, a reduction in the generosity of those programs for workers who qualify for benefits, and a tightening of eligibility rules for the program.

³ As noted in Table 18, the accident year incurred data is based only on a subset of states and so the percentage change is not directly comparable to the percentage change for calendar year paid data as reported in Table 5.

Glossary

AASCIF – American Association of State Compensation Insurance Funds, for more information visit www.aascif.org

Accident year – the year in which an injury occurred, or the year of onset of an illness. Accident year benefits refer to the benefits associated with all injuries and illnesses occurring in that year, regardless of the year they were actually paid.

BLS – Bureau of Labor Statistics, for more information visit www.bls.gov

Calendar year benefits – benefits paid to workers in a given year, regardless of when the injury or illness occurred.

Combined operating ratio – the ratio of underwriting results to premiums. Basically, it is the ratio of payments made by insurers to premiums collected. It does not, however, take into account income that insurers receive from investing their reserves.

Covered employment – jobs that are covered by workers' compensation programs.

CPS - Current Population Survey, for more information visit www.bls.census.gov/cps

FECA –Federal Employees' Compensation Act

Incurred losses – losses paid to date plus liabilities for future benefits.

LTDI – long-term disability insurance

Loss adjustment expenses – salaries and fees paid to adjusters, as well as other expenses incurred from adjusting claims.

Losses - benefits paid by insurers

Managed Care – Managed care health plans typically have two common features: payment for services based on a per capita rate, and a primary care doctor who serves as the gatekeeper and referral source for a medical care organization or group of professionals. Because payments are not made on a fee-for-service basis, the managed care plan assumes the financial risk for the population it serves, and has an incentive to provide care as efficiently as possible.

NAIC – National Association of Insurance Commissioners, for more information visit www.naic.org NCCI – National Council on Compensation Insurance, for more information visit www.ncci.com

Permanent partial disability, PPD – a disability that although permanent does not completely limit a person's ability to work.

Permanent total disability, PTD – a permanent disability that precludes all work.

Residual Market – (or assigned risk pool) the mechanism used to provide insurance for employers who are unable to purchase insurance in the private market. This is arranged differently in different states. Sometimes a state fund is the "insurer of last resort." Sometimes there is a separate pool that is financed by assessments of private insurers.

SSA – Social Security Administration, for more information visit www.ssa.gov

SSDI or DI – Social Security Disability Insurance

STDI – short-term disability insurance that is offered by employers.

TDI – temporary disability insurance which is required by state law in five states.

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 precludes all work, but for a limited amount of time.

Underwriting expenses – commissions, brokerage expenses, general expenses, taxes, licenses, and fees.

Underwriting results – the sum of losses, loss adjustment expenses, and underwriting expenses.

Unemployment Insurance, UI – federal-state program that provides cash benefits to workers who lose their jobs through no fault of their own.

USDOL – United States Department of Labor, for more information visit www.dol.gov

WC - workers' compensation

Work related injury-illness – An injury or illness that arises out of and in the course of employment. The definition of a work-related injury that is compensable under a state's workers' compensation program can be quite complex and varies across states.

Appendix A Methdology for Coverage Estimates

The estimate of the workforce covered by workers' compensation in the United States was constructed by aggregating individual state estimates. The starting point for each state estimate was the number of workers covered by unemployment insurance (UI) who were not federal employees. These figures were then adjusted based on differences in UI and workers' compensation coverage laws across states. The following adjustments were made to the totals of UI coverage:

- Subtraction of workers employed by small employers in states where small employers are not required to provide workers' compensation coverage.⁴ Fifteen states have exemptions for private sector non-agricultural employers who operate small firms, ranging from sizes of under three to under five. Census data provided information for each state on the number of workers employed in firms with fewer than five employees. National data from the Social Security Administration on the distribution of workers by firm size was used to adjust those numbers for states with numerical exemptions that were less than five.
- Subtraction of agricultural workers for whom coverage was not mandatory. We assumed that all agricultural workers in a state who were not mandated by law to receive coverage were not covered. In some states, that was all agricultural workers. In other states, coverage depended on the number of farm workers, their hours worked and/or the amount paid by their employers. Using the *Census of Agriculture-State Data*, adjustments were made for each state whose workers' compensation coverage rules differed from their UI coverage rules.
- Subtraction of state and local government employees for whom coverage was not mandatory. In contrast to agricultural workers, we assumed that workers for whom coverage is not mandatory are covered. However, some states exempt certain occupations (e.g., police officers and fire fighters, which are sometimes covered by other programs) or functions (e.g., higher education), and we assumed their workers were not covered. Estimates of the effect of exclusions of state and local government workers were based on data from the latest Census of Governments. The estimates of the percentage of workers covered by the workers' compensation program using the Census of Government data was then multiplied by the number of state and local government workers covered by the UI program to estimate the number workers to be subtracted from UI coverage to obtain workers' compensation coverage.

The only state treated differently was Texas because it is the only state where coverage is elective. Employers in that state can choose to purchase workers' compensation insurance coverage or not. If they do not, then they are not protected from tort suit liability for occupational injuries and illnesses in the same way as covered employers are protected. Coverage in Texas was based on a 1995 survey of employers conducted by the Texas Workers Compensation Research Center and data from BLS. Coverage for Texas was estimated to be about 80 percent of the workforce.

⁴ The Unemployment Insurance program does not have exemptions for small employers.

Appendix B Data Questionnaire

Г

A C A D E M Y DF•SOCIAL INSURANCE	Project on National Data for Workers' Co Annual Data Survey		
Your Name:	State:		
State Agency:			
Phone:	Fax: E-mail:		
Calendar Ye Please provid payments made	ear Paid Data le the information requested below for calendar year 2000. <i>Calend</i> <i>le that year, regardless of accident year and regardless of whether the case w</i> t benefits paid, not incurred.	lar year paid data ;	refer to all
	does not collect the data that enable you to fill out this questionr rmation you may have pertaining to benefit payments in 2000.	naire, please send	us any
			ts made in Year 2000
Medical Paymer	r Payments made by SELF INSURERS (group and individual) nts (including Vocational Rehabiliation)		
Medical Paymen Cash Payments	r Payments made by PRIVATE CARRIERS (if state permits private carrients (including Vocational Rehabiliation)	-	-3-25
Do these am	sounts include deductibles? nuch?	🛛 yes	🗆 no
Medical Payments	r Payments made by STATE FUNDS (if state has competitive or exclusive ints (including Vocational Rehabiliation)		1 Pacific
Total Do these am If so, how n	ounts include deductibles?	🗆 yes	on D
(# not included in Medical Paym Cash Payment	r Payments made by SECOND INJURY or other SPECIAL FUNDS any other payouts) ments (including Vocational Rehabilitation) ts		
(Should equal the Medical Paym Cash Payment	EAR TOTAL WORKERS' COMPENSATION BENEFITS PAID sum of Items #1-4) tents (including Vocational Rehabilitation) ts		

Appendix C Data Availability

Surveys were sent to all state agencies and rating bureaus to request information. Some agencies and rating bureaus were able to provide annual reports; others replied to direct requests for data. Table C1 displays what information was received from each state. In addition, A.M. Best provided data on private carriers in all states and state funds in 18 states. NCCI also provided extensive data on medical benefits.

Table C1

Workers' Compensation Data Provided by States for 2000^a Shaded areas correspond with provided data

State		Cal	endar Year Paid		
	Private Carriers	State Funds	Self-Insureds	Deductibles	Medical
Alabama		N/A		Note 1	
Alaska		N/A		N/A	
Arizona					
Arkansas		N/A			
California					
Colorado	Note 4	Note 4			
Connecticut		N/A		Note 1	
Delaware		N/A	Note 2		
D.C.		N/A			
Florida		N/A			
Georgia		N/A			
Hawaii				N/A	
Idaho	Note 4	Note 4			
Illinois		N/A			
Indiana		N/A			
Iowa		N/A			
Kansas		N/A		Note 1	
Kentucky					
Louisiana					
Maine		Note 1			
Maryland					
Massachusetts		N/A		Note 1	
Michigan		N/A		Note 1	
Minnesota					
Mississippi		N/A		Note 1	
Missouri		1011		110001	
Montana					
Nebraska		N/A			
Nevada		1011			
New Hampshire		N/A			
New Jersey		N/A		Note 1	
New Mexico		1,711		Note 1	
New York			Note 3	1,000 1	
North Carolina		N/A	1.000 0		
North Dakota	N/A	1,,11	N/A		
Ohio	N/A			N/A	
Oklahoma					
Oregon					
Oregon Pennsylvania					
Rhode Island					
South Carolina				Note 1	
South Dakota		N/A			
Tennessee		N/A			
Texas		1,,11	Note 3		
Utah			1.000 0	Note 1	
Vermont		N/A		1,010 1	
Virginia		N/A			
Washington	N/A	1 1/1 1		N/A	
West Virginia	N/A			N/A	
Wisconsin	1 1/1 1	N/A		N/A	
Wyoming	N/A	Note 5	N/A	N/A	

^a Data were provided by state workers' compensation agencies, insurance rating boards, departments of labor, and industrial commissions. Note 4: Computed by adding information provided by the state N/A: Not applicable.

Note 3: Based on data on the percent of claims filed by self-insurers. agency to figures from A.M. Best.

Note 1: Data were not directly available but could be computed by subtracting various components from total benefit figures provided. Note 2: Computed from information provided on premiums.

Note 5: Based on the ratio of 1999 private carrier benefits to 2000 private carrier benefits.

Appendix D Revised Data for 1996-1999

The revised data in this Appendix should be used in place of previously published data. Historical data

displayed in the body of this report incorporate these revisions.

Table D1

Revised Workers' Compensation Benefits by Type of Insurer and Medical Benefits, by State, 1999 (in thousands)

State	Total	Private Carriers ^a	State Funds	Self- Insured ^b	Medical Benefits	Percent Medica
Alabama	\$ 596,233	\$ 320,786	\$-	\$ 275,447	\$ 309,392	51.9
Alaska	137,630	108,604	-	29,026	73,456	53.4
Arizona	426,739	190,879	174,299	61,561	150,021	35.2 ^c
Arkansas	165,341	110,330	-	55,011	71,097	43.0 ^d
California	7,856,442	4,611,639	1,002,435	2,242,368	3,506,531	44.6
Colorado	655,446	329,255	180,885	145,307	325,943	49.7 ^c
Connecticut	722,156	553,612	-	168,544	196,079	27.2c
Delaware	96,877	78,001	-	18,876	41,657	43.0 ^d
District of Columbia	81,757	63,959	-	17,798	35,155	43.0 ^d
Florida	2,079,830	1,668,092	-	411,738	1,277,633	61.4
Georgia	813,754	448,912	-	364,842	486,313	59.8
Hawaii	222,056	150,817	5,232	66,007	91,036	40.9
Idaho	153,012	64,075	77,865	11,072	73,977	48.3
Illinois	1,715,615	1,350,063	-	365,552	827,930	48.3 ^c
Indiana	520,621	390,136	-	130,485	342,922	65.9 ^c
Iowa	283,253	235,368	-	47,885	159,420	56.3 ^c
Kansas	326,196	236,753	-	89,443	113,239	34.7
Kentucky	460,583	279,581	20,357	160,645	245,066	53.2
Louisiana	427,851	206,889	101,288	119,674	183,976	43.0 ^d
Maine	249,195	106,289	48,034	94,872	93,550	37.7
Maryland	1,152,005	888,141	157,676	106,188	486,146	42.2
Massachusetts	633,840	515,852	-	117,988	202,341	31.9
Michigan	1,392,806	760,306	-	632,500	413,859	29.7
Minnesota	744,600	479,400	88,100	177,100	315,700	42.4
Mississippi	253,532	162,808	-	90,724	132,971	52.4
Missouri	591,292	504,652	43,223	43,418	362,749	59.5
Montana	144,856	53,058	60,774	31,025	62,288	43.0 ^d
Nebraska	173,149	131,579	-	41,570	86,079	49.7
Nevada	372,764	12,997	272,541	87,227	129,269	34.7
New Hampshire	170,347	133,923	-	36,424	88,512	52.0 ^c
New Jersey	987,378	937,022	-	50,356	424,573	43.0 ^d
New Mexico	117,168	60,348	12,036	44,784	65,857	56.2
New York	2,782,474	1,314,422	836,453	631,599	835,726	30.0
North Carolina	708,144	533,236	-	174,907	326,836	46.2 ^c
North Dakota	76,997	427	76,570	-	36,201	47.0
Ohio	2,018,909	18,090	1,571,004	429,815	803,669	39.8
Oklahoma	464,095	260,785	105,294	98,015	221,041	47.6 ^c
Oregon	384,110	202,220	145,285	36,605	183,332	47.7
Pennsylvania Rhada Island	2,441,255	1,692,089	176,004	573,162	867,097	35.5
Rhode Island	109,148	54,777	43,275	11,096	25,210	23.1 48.4 ^c
South Carolina South Dakota	511,735	358,012	37,100	116,623	247,866	
Tennessee	80,331	69,408 403,693	-	10,923 108,958	38,915 264 134	48.4 51.5 ^c
Texas	512,651 1,673,064	1,348,892	184,732	139,441	264,134 719,417	43.0d
Utah	1,0/ 9,004	67,297	67,987	45,382	125,577	43.0 ⁻⁴ 69.5
Vermont	103,607	78,409	0/,90/	25,198	51,056	49.3 ^c
Virginia	579,991	440,091	-	139,900	213,502	36.8
Washington	1,418,255	20,873	1,117,017	280,365	475,492	33.5
West Virginia	665,403	3,894	552,302	109,207	176,139	26.5
Wisconsin	652,281	609,039		43,242	342,874	52.6 ^c
Wyoming	71,151	1,432	69,719	13,272	45,068	63.3
Total non-federal	40,158,594	23,621,214	7,227,486	9,309,893	17,300,433	43.3
Federal	2,989,551	23,021,217	7,227,100	7,507,075	568,406	19.0
Civilian employee	2,008,909				492,835	24.5
Black Lung	980,642				75,571	7.7
Total	43,148,145				17,868,839	41.4

- a States with exclusive funds (Ohio, North Dakota, Washington, West Virginia, and Wyoming) also have small amounts of benefits paid in the private carrier category. This results from two sources: companies with group policies that overlap states and the fact that some companies include excess workers' compensation coverage in their reports of workers' compensation benefits to A.M. Best.
- b Self-insurance includes individual self-insurers and group self-insurance.
- c Imputed based on regression analysis using data from states where the percentage was known. The independent variables used in the regression were the percent of private carrier incurred losses that is attributed to medical benefits, the percent of the market insured by private carriers, and the presence of a state fund.
- d For these states, the data used for the imputation procedure were unavailable, so the percentage of benefits for medical care was estimated to be the weighted average of the percentages in the states reporting such a percentage.

Source: National Academy of Social Insurance estimates based on data received from state agencies, the Department of Labor, A.M. Best, and the National Council on Compensation Insurance.

Table D2

Revised Workers' Compensation Benefits by Type of Insurer and Medical Benefits, by State, 1998 (in thousands)

State	Total	Private Carriers ^a	State Funds	Self-Insureds ^b	Percent Medica
Alabama	\$ 615,316	\$ 354,986	\$	\$ 260,329	47.4
Alaska	128,576	92,311	-	36,265	50.0
Arizona	393,907	173,878	151,564	68,465	44.6 ^c
Arkansas	161,146	111,829	_	49,317	47.0 ^c
California	7,374,486	4,235,017	923,153	2,216,316	43.1
Colorado	709,535	290,223	319,867	99,445	36.3
Connecticut	711,130	557,233	-	153,897	29.8 ^c
Delaware	118,511	80,942		37,569	39.4 ^d
District of Columbia	75,800	67,438	_	8,362	25.0 ^c
Florida	2,207,984	1,787,123	-	420,861	58.5
		446,032	_	362,501	38.2 ^c
Georgia Hawaii	808,533 233,325	165,247	1,661	66,417	38.2 ^c
nawan Idaho			76,416		40.8 ^c
	154,762	66,618	/6,416	11,729	
Illinois	1,689,846	1,313,011	_	376,834	29.5 ^c
Indiana	482,029	388,733	-	93,296	56.9
Iowa	292,002	243,701	-	48,302	34.0
Kansas	318,352	227,042	-	91,310	34.6 ^c
Kentucky	430,958	270,145	21,149	139,665	56.7
Louisiana	428,782	217,678	104,045	107,059	43.7
Maine	246,169	110,698	48,833	86,637	40.9
Maryland	1,045,372	797,398	156,945	91,029	40.7
Massachusetts	641,409	496,997	_	144,412	32.1
Michigan	1,366,963	726,779	_	640,184	28.3
Minnesota	732,300	465,900	94,600	171,800	41.8
Mississippi	234,700	149,920	_	84,780	56.1
Missouri	589,366	383,797	44,833	160,736	38.1 ^c
Montana	170,715	48,944	95,947	25,823	47.0
Nebraska	181,945	144,140	-	37,805	44.3
Nevada	330,092	9,058	241,260	79,773	36.3 ^d
New Hampshire	163,885	126,885	241,200	37,000	46.3 ^c
	954,696		_		40.5 39.4 ^d
New Jersey		883,733	10.71 /	70,963	59.5
New Mexico	116,819	60,435	12,714	43,670	
New York	2,686,247	1,125,494	950,996	609,756	33.1
North Carolina	765,817	530,712	-	235,105	35.4 ^c
North Dakota	81,403	249	81,155	_	46.0
Ohio	2,068,878	19,780	1,616,286	432,812	39.4
Oklahoma	520,181	267,409	149,069	103,703	35.8 ^c
Oregon	430,521	221,916	145,135	63,470	48.0
Pennsylvania	2,418,072	1,646,492	201,653	569,927	34.5
Rhode Island	104,199	61,179	41,053	1,968	33.1 ^c
South Carolina	483,606	327,891	42,510	113,205	30.3
South Dakota	72,722	60,320	-	12,403	54.5
Tennessee	517,846	400,809	_	117,036	45.9 ^c
Texas	1,494,410	1,216,966	167,664	109,779	39.4 ^d
Utah	146,986	68,323	62,331	16,332	67.2
Vermont	95,056	74,999		20,057	39.7
Virginia	591,068	466,916	_	124,153	48.7 ^c
Washington	1,309,371	15,708	1,042,955	250,709	33.5
West Virginia	629,480	2,401	525,751	101,329	28.5
		580,740	<i>1 (),(2)</i>		48.2 ^c
Wisconsin	621,973		72 200	41,233	
Wyoming	74,469	2,181	72,288	0.245.525	63.6
Total non-federal	39,221,713	22,584,357	7,391,831	9,245,525	40.1
Federal	2,990,737				18.7
Civilian employee	1,955,287				
Black Lung	1,035,450				

- a States with exclusive funds (Ohio, Nevada, North Dakota, Washington, West Virginia, and Wyoming) also have small amounts of benefits paid in the private carrier category. This results from two sources: companies with group policies that overlap states and the fact that some companies include excess workers' compensation coverage in their reports of workers' compensation benefits to A.M. Best.
- b Self-insureds include individual self-insurers and group self-insurance.
- c Imputed based on regression analysis using data from states where the percentage was known. The independent variables used in the regression were the percent of private carrier incurred losses that is attributed to medical benefits, the percent of market insured private carriers, and the presence of a state fund.
- d For these states, the data used for the imputation procedure were unavailable, so the percentage of benefits for medical care was estimated to be the weighted average of the percentages in the states reporting such a percentage.

Source: National Academy of Social Insurance estimates based on data received from state agencies, the Department of Labor, A.M. Best and the National Council of Compensation Insurance.

Table D3

Revised Workers' Compensation Benefits by Type of Insurer and Medical Benefits, by State, 1997 (in thousands)

State	Total	Private Carriers ^a	State Funds	Self-Insureds ^b	Percent Medica
Alabama	\$ 530,230	\$ 265,486	\$	\$ 264,744	52.2
Alaska	130,045	95,991	-	34,054	46.2
Arizona	427,885	168,790	187,681	71,414	51.1 ^c
Arkansas	157,128	109,041	-	48,087	52.2 ^c
California	7,073,544	3,880,762	892,926	2,299,857	42.2
Colorado	675,008	269,136	311,267	94,606	41.5
Connecticut	731,830	578,273	-	153,556	33.0 ^c
Delaware	120,719	70,587	-	50,133	39.1 ^d
District of Columbia	81,696	72,683	-	9,013	34.9 ^c
Florida	2,374,287	1,359,841	-	1,014,446	58.4
Georgia	713,955	393,857	_	320,098	40.5 ^c
Hawaii	254,915	186,255	80	68,550	39.5
Idaho	138,800	60,109	68,173	10,519	39.7 ^c
Illinois	1,576,651	1,225,059	_	351,592	31.3 ^c
Indiana	437,797	353,062	_	84,735	57.1 ^c
Iowa	273,155	227,988	-	45,167	36.0 ^c
Kansas	312,698	213,537	_	99,161	31.2
Kentucky	413,483	258,187	21,813	133,483	62.6
Louisiana	419,777	194,706	92,670	132,401	41.0 ^c
Maine	271,307	122,502	44,591	104,214	33.0
Maryland	1,113,399	835,959	187,458	89,982	42.8
Massachusetts	653,327	502,180	-	151,147	28.5
Michigan	1,332,222	688,948	_	643,275	28.8
Minnesota	738,100	464,900	105,000	168,200	40.8
Mississippi	231,340	130,058		101,282	55.5
Missouri	527,053	342,598	40,713	143,742	37.7 ^c
Montana	157,367	40,461	91,925	24,981	43.7
Nebraska	184,673	137,350	-	47,323	58.1
Nevada	346,021	5,164	257,235	83,623	33.0
New Hampshire	155,397	114,397		41,000	42.0 ^c
New Jersey	923,460	854,819	_	68,641	39.1 ^d
New Mexico	119,893	56,248	13,185	50,460	49.8
New York	2,618,320	1,167,535	856,447	594,338	33.3
North Carolina	619,021	428,982	8)0,44/	190,039	36.7
North Dakota	76,617	250	76,367	190,039	50.1
Ohio				426.059	35.9
Oklahoma	2,030,046 547,355	18,330 232,773	1,575,658 205,461	436,058 109,120	37.3 ^c
			144,492	64,551	46.1
Oregon	417,222	208,179			
Pennsylvania	2,471,021	1,625,886	239,538	605,597	32.2 48.6 ^c
Rhode Island	97,926	51,405	40,285	6,235	
South Carolina	459,377	309,676	38,660	111,041	31.3
South Dakota	73,862	62,033	-	11,828	57.6
Tennessee	432,662	334,878	-	97,784	39.5°
Texas	1,377,393	1,063,960	193,761	119,673	39.2 ^d
Utah	127,492	55,066	58,260	14,166	67.5
Vermont	87,488	69,028	-	18,460	43.2
Virginia	534,350	422,119	-	112,231	33.5
Washington	1,234,495	12,032	986,285	236,178	31.3
West Virginia	616,790	2,729	509,115	104,946	29.3
Wisconsin	594,463	555,054	-	39,409	46.0 ^c
Wyoming	68,068	1,310	66,758	_	61.9
Total non-federal	38,081,128	20,900,158	7,305,803	9,875,168	39.8
Federal	3,003,751				18.2
Civilian employee					
Black Lung	1,102,798				
T . 1	41.00/ 070				20.2
Total	41,084,879				38.2

- a States with exclusive funds (Ohio, Nevada, North Dakota, Washington, West Virginia, and Wyoming) also have small amounts of benefits paid in the private carrier category. This results from two sources: companies with group policies that overlap states and the fact that some companies include excess workers' compensation coverage in their reports of workers' compensation benefits to A.M. Best.
- b Self-insureds include individual self-insurers and group self-insurance.
- c Imputed based on regression analysis using data from states where the percentage was known. The independent variables used in the regression were the percent of private carrier incurred losses that is attributed to medical benefits, the percent of market insured private carriers, and the presence of a state fund.
- d For these states, the data used for the imputation procedure were unavailable, so the percentage of benefits for medical care was estimated to be the weighted average of the percentages in the states reporting such a percentage.

Source: National Academy of Social Insurance estimates based on data received from state agencies, the Department of Labor, A.M. Best and the National Council of Compensation Insurance.

Table D4

Revised Workers' Compensation Benefits by Type of Insurer and Medical Benefits, by State, 1996 (in thousands)

State	Total	Private Carriers ^a	State Funds	Self-Insureds ^b	Percent Medica
Alabama	\$ 525,073	\$ 249,912	\$	\$ 275,161	55.4
Alaska	121,597	95,917	-	25,680	51.6
Arizona	458,593	183,082	207,712	67,800	45.8 ^c
Arkansas	160,328	114,009	-	46,319	29.2
California	6,829,656	3,641,478	1,020,389	2,167,789	42.2
Colorado	679,270	249,918	309,223	120,130	36.6 ^c
Connecticut	672,241	418,864	_	253,377	42.5 ^c
Delaware	121,154	75,961	-	45,193	40.9 ^d
District of Columbia	89,945	74,260	-	15,685	35.3
Florida	2,706,603	1,272,966	-	1,433,637	58.8
Georgia	821,952	434,690	-	387,262	44.5 ^c
Hawaii	288,495	214,580	-	73,915	37.6
Idaho	189,575	115,509	61,941	12,125	44.7
Illinois	1,643,487	1,247,092	-	396,395	39.0 ^c
Indiana	409,901	355,923	_	53,978	51.0 ^c
Iowa	260,628	221,453	-	39,175	41.4 ^c
Kansas	269,507	184,801	_	84,706	47.1 ^c
Kentucky	506,771	344,373	10,088	152,310	64.5
Louisiana	557,131	218,177	92,515	246,439	53.4
Maine	314,116	193,387	-	120,729	31.5
Maryland	1,037,957	747,845	195,897	94,215	46.0
Massachusetts	700,375	533,125	-	167,250	26.9
Michigan	1,346,409	679,216	_	667,193	30.3
Minnesota	739,500	459,100	114,700	165,700	39.1
Mississippi	224,341	124,787	-	99,554	55.6
Missouri	618,911	369,050	30,930	218,931	42.7c
Montana	149,540	43,664	83,639	22,238	42.3
Nebraska	198,923	155,531	-	43,392	57.9
Nevada	382,873	979	289,193	92,701	33.6
New Hampshire	188,262	147,570		40,692	43.7 ^c
New Jersey	930,724	844,118	_	86,606	57.0
New Mexico	151,299	66,598	15,247	69,454	53.7
New York	2,558,704	1,062,164	922,921	573,619	33.7
North Carolina	500,506	337,403	922,921	163,103	38.8
North Dakota			=	105,105	44.4
Ohio	66,819	19	66,800 1,696,316	42(059	34.3
Ohio Oklahoma	2,146,314	13,940		436,058	40.6 ^c
	645,329	227,610	226,611	191,108	
Oregon	445,505	218,555	149,765	77,185	44.3
Pennsylvania	2,533,788	1,657,816	264,293	611,679	31.1
Rhode Island	135,520	61,619	37,292	36,609	24.3
South Carolina	371,724	224,915	34,500	112,309	40.4 ^c
South Dakota	82,063	68,540	-	13,523	50.1
Fennessee	433,034	389,326	-	43,708	42.4 ^c
Texas	1,259,647	851,827	258,247	149,573	40.9 ^d
Utah	224,146	123,062	61,420	39,664	46.9 ^c
Vermont	74,271	68,984	-	5,287	43.1
Virginia	560,309	431,045	-	129,264	27.6
Washington	1,192,926	14,214	958,204	220,508	32.8
West Virginia	523,803	5,551	423,727	94,525	26.9
Wisconsin	647,520	555,572	-	91,948	46.9 ^c
Wyoming	73,592	2,283	71,309	-	58.8
Total non-federal	38,770,657	20,392,377	7,602,879	10,775,401	41.2
Federal	3,065,904				18.6
Civilian employee	1,911,682				24.9
Black Lung	1,154,222				8.2
Total	41,836,561				39.6

- a States with exclusive funds (Ohio, Nevada, North Dakota, Washington, West Virginia, and Wyoming) also have small amounts of benefits paid in the private carrier category. This results from two sources: companies with group policies that overlap states and the fact that some companies include excess workers' compensation coverage in their reports of workers' compensation benefits to A.M. Best.
- b Self-insureds include individual self-insurers and group self-insurance.
- c Imputed based on regression analysis using data from states where the percentage was known. The independent variables used in the regression were the percent of private carrier incurred losses that is attributed to medical benefits, the percent of market insured private carriers, and the presence of a state fund.
- d For these states, the data used for the imputation procedure were unavailable, so the percentage of benefits for medical care was estimated to be the weighted average of the percentages in the states reporting such a percentage.

Source: National Academy of Social Insurance estimates based on data received from state agencies, the Department of Labor, A.M. Best and the National Council of Compensation Insurance.

Appendix E Self-Insurer Benefits Estimation

This report uses a methodology that incorporates recent data to estimate self-insurance benefits in states that were not able to provide recent information. That methodology is as follows:

1) Estimate total covered payroll for all states. This procedure is outlined in Appendix A.

elf-Insurer Regression R	esults, 2000
Variable	
Intercept	0.37
	1.97
PSI	-1.16
	1.58
PSI squared	2.06
	1.85
R-squared	0.45
n	28

- 2) Collect total payroll of workers insured by private carriers or state funds. This information is available for the majority of states from the NCCI.
- 3) Using (1) and (2), generate an estimate of the percent of benefits provided by self-insurers. The percentage of payroll of covered insurers is [(1)-(2)]/(1). Since reliable information on benefits per payroll for self-insurers is not available, we assumed that the percent of payroll for self-insurers was the percent of benefits provided by self-insurers. Some information suggests, however, that benefits per payroll are lower for self-insurers, so this is probably an overestimate of benefits paid.
- 4) Determine the relationship between the estimate in (3) with the percentage of benefits provided by self-insurers as reported by state agencies with recent information. Using the subset of states with recent data on self-insurer benefits, the percentage of benefits provided by self-insurers was regressed on the estimates obtained by using the method in (3). Regression results from three specifications are reported in Table E1.
- 5) The percentage of benefits provided by selfinsurers was imputed for states without recent information from state agencies using these regression results.

Appendix F Medical Benefits Estimation

Due to the availability of new data provided by NCCI, this year's report has a new procedure for estimating the percent of benefits in each state that were medical benefits rather than cash benefits.

NCCI provided data showing the breakdown between medical and cash benefits payments paid by accident year as of 1999 and as of 2000. For example, for accident year 2000 in Alabama (as of the end of 2000), medical benefits paid were \$14.5 million. That is, \$14.5 million of medical benefits went to workers in the year 2000 that had an injury or illness beginning in 2000. Workers injured in prior years also received medical benefits. However, accident vear data for 1999 as of the end of 2000 includes all payments to workers injured in 1999, including those made in 1999 and 2000. In order to obtain medical payments made to these workers in 2000, it is necessary to subtract accident year medical payments as of 1999 from accident year medical payments as of 2000.

Summing up \$14.5 and \$35.6 million, gives a total of \$50.1 million of medical benefits paid to workers injured or taken ill in either 1999 or 2000. Repeating this procedure for all previous accident years leads to a total amount of medical benefits paid in 2000. Comparing this to a total amount of cash benefits obtained via the same procedure yields a percent of payments that are medical. This percentage was used for all states where data from NCCI were available and state administrative data were incomplete. Since NCCI only has data on private carriers and state funds, other data were used to make an adjustment for self-insurers. Ten states provided data showing a breakdown of benefits between medical and cash payments for all types of insurers (Alabama, Arkansas, Georgia, Maine, Michigan, Mississippi, Montana, Oregon, New Mexico, and South Dakota).

For these ten states, the agency data for employers who did not self-insure indicated that 51.6 percent of benefits were accounted for by medical benefits. The state agency data for these ten states indicated that 51.06 percent of total benefits were accounted for by medical benefits for self-insuring employers. The average difference in the percent medical between self-insurers and non-self insurers was 0.54 percentage points. Therefore, in states where the percent medical was not available for self-insurers but was available for those employers purchasing workers' compensation insurance, the percent of benefits that were medical was assumed to be 0.54 percentage points lower for self-insurers.

NCCI does not keep data for every state. When NCCI data were not available for a particular state, the percentage of benefits for medical payments according to that state's administrative data were used. When administrative data were also not available, a weighted average of "percent medical" for states where estimates were available was used. This procedure was used for seven states.

Table F1							
Medical Benefits Paid (millions of \$)							
Alabama	Medical Payments as of 12/31/2000	Medical Payments as of 12/31/1999	Medical Benefits Paid in 2000				
Accident Year 2000	\$14.5	0	14.5				
Accident Year 1999	50.6	15.0	35.6				

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Social Insurance for Survivors: Family Benefits from Social Security and Workers' Compensation



Daniel Mont, Virginia Reno, and Catherine Hill

The terrorist attack of September 11th, 2001 draws attention to two long-standing social insurance programs that pay



cash benefits to families when a breadwinner dies. Workers' compensation pays benefits if a worker is killed at work. Social Security pays families whether or not the worker's death is workrelated. Although neither program

is best known for its life insurance component, both can provide substantial income to surviving families.

This tragedy highlights important differences between Social Security which pools risk across the nation --and workers' compensation — which puts financial risk on individual employers and their insurers. For Social Security, the impact of the September 11th tragedy will not be large, because the number of new applicants represents a small fraction of the total number of new claims. State-based workers' compensation programs, however, are more vulnerable to catastrophic events. State workers' compensation programs vary in eligibility standards and benefit levels. New York is one of the few states that reduce a widow(er)'s benefit if she or he also receives Social Security. New York also has a relatively low cap on weekly benefits. In the decades since Social Security and workers' compensation began, health insurance coverage has become increasingly important for financial security. Although various federal and state programs are available, maintaining a secure connection to group health insurance can be problematic when a breadwinner dies. Neither

Social Security nor workers' compensation programs offer assistance in this area.

March 2002, Social Security Brief No. 12

Workers' Compensation and Older Workers

John F. Burton, Jr. and Emily Spieler After rising sharply in the 1980s, workers' compensation costs and benefits declined during the 1990s. The recent decline may reflect, in part, a decline in the availability and adequacy of these benefits. Workers in the second half of their work lives are particularly likely to be affected by these changes. Although workers' compensation continues to compensate workers for acute shortterm injuries, the availability of benefits for permanent disabilities associated with aging appears to be declining in many states. This trend is likely to shift benefit costs to other social and private insur-ance. To the extent that other programs do not replace earnings lost due to permanent disability, these costs are shifted to workers and their families.

April 2001, Health and Income Security Brief No. 3

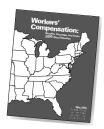
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