Cash Benefits for Short-Term Sickness, 1948-74

by DANIEL N PRICE*

In 1974, income loss due to short-term non-workrelated disabilities totaled \$217 billion, and workers received cash benefits of \$79 billion to replace such losses The aggregate rate of income replacement has increased slouly over the years to the point where it now accounts for 36 percent of lost earnings

Much of the historical statistics published in this article has been revised to conform with new uage and employment data compiled by the Department of Commerce, changes in statistics on private insurance worker coverage available from the Health Insurance Association of America, and revised self-insurance benefits and premiums estimated by the Social Security Administration

CASH BENEFITS for short-term nonoccupational disability in 1974 amounted to \$7.9 billion, or 9.6 percent more than the total for the previous year The rise was reflected in all of the sick-pay components—individual insurance policies, group coverage under publicly operated cash sickness funds, private group cash sickness insurance and self-insurance, and sick leave—but was most pronounced under private group insurance plans

The \$20 billion paid through private group insurance included private insurance allowed under compulsory temporary disability insurance programs and voluntary self-insurance This amount was almost \$290 million, or 166 percent, above the 1973 level Self-insurance payments in the voluntary sector totaled \$78 million for the year-a figure almost triple what it would have been had major statistical revisions not been made this year but still the smallest component among the various types of benefits discussed here Payments under individual insurance policies amounted to \$851.0 million, and the publicly operated compulsory temporary disability insurance programs accounted for \$485.3 million of the total

Sick-leave payments totaled \$4.3 billion in 1974 and represented the major share of all benefits received For many workers, sick leave is a full replacement benefit but sickness insurance plans replace only part of income loss The sick-leave payments for government workers rose by only 48 percent during the year (to \$28 billion) compared with a 98-percent rise (to \$15 billion) recorded for sick-leave pay to workers in private industry

The amount of income lost due to sickness in 1974 rose at a more moderate rate (32 percent) than benefits Contributing factors were a declining sickness index (from 101 to 97) and a comparatively stable labor force covered by sickness benefit plans Because benefits rose more quickly than income loss, the benefit-loss ratios developed in this analysis showed an increase In particular, the large increase in private insurance benefits helped boost the benefit-loss ratio for private industry workers in areas outside jurisdictions with mandatory temporary disability insurance from 22 1 percent in 1973 to 24 3 percent in 1974

The estimated number of workers under formal plans providing cash benefits for short-term disability in 1974 was 494 million, or about twothirds of all those in wage and salary employment As has been the case for a number of years, however, less than half of the private industry workers in States without temporary disability insurance laws were under voluntary sick-leave or sickness insurance plans

MEASURING INCOME LOSS

Concepts

The estimates of income loss used in this series are designed to reflect the loss of current earnings during the first 6 months of a nonoccupational illness or injury, including income lost during the first 6 months of a long-term disability. The term income loss, as used in this article, refers to the value of potential as well as actual income. It includes, for example, earnings that would have been lost had they not been replaced under a sick-leave plan that continues wages and salaries during periods of illness or under another type

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of arrangement Payments under such plans are counted as benefits that offset the worker's potential wage loss

Employing this concept, the Social Security Administration has estimated that wage and salary workers in private industry lose an average of 70 workdays a year, Federal Government workers lose 80 days, State and local government employees, 75 days, and the self-employed, 70 days These averages have been modified annually, starting with 1959, to reflect trends in morbidity rates as reported by the Health Interview Survey of the Public Health Service The averages in this series have been higher than those derived from the Health Interview Survey The main reasons were that the survey excludes the noninstitutionalized population and the work loss experienced by individuals no longer currently employed ¹

In this article, as in a couple of earlier reports in the series, Health Interview Survey data for several years are presented for comparison As table 1 shows, the average number of days lost from work in 1974, as reported by the Health Interview Survey, was 50 for private industry workers, 51 for Federal employees, 52 for State and local government employees, and 43 for the self-employed During the period 1968-74, however, the Public Health Service has reported no consistent patterns of change by sex or class of worker

Other data from the Health Interview Survey showing patterns of work-loss days have been published ² A higher number of work-loss days annually per employed person has been noted for older workers than for younger ones, for workers in families with lower family income than for those with higher family income, for women than for men, and for blacks than foi whites These differences often reflect a variety of characteristics and underlying causes Women have higher work-loss rates than men overall, for example, but, among those aged 45 and older, the experience of women is similar to that of men The effect of child-bearing is no doubt reflected in the higher average work loss shown for women under age 45 Similarly, the difference in averages by race is probably much influenced by the higher prevalence of work-loss days associated with low family income, which is more commonly found among blacks than whites

Each year the Social Security Administration derives a rate of sickness from the data on average work-loss days for all currently employed workers (table 1) and other Health Interview Survey statistics used as trend indicators Expressed as an index with 1958 as the base of 100, the rate for 1974 has been computed as 97 As the following figures show, this is the second consecutive yearly decline

1970 1971 1972 1973 1974	101 105 101
1974	97

A recent estimate of all the costs of illness³ put the 1972 income loss attributable to the sickness of currently employed workers at \$176 billion That figure differs conceptually from the \$196 billion estimate in the revised series presented here, the former amount is lower because it excludes income loss for the first 6 months of disability for individuals no longer in the labor force Still, the degree of closeness between the two estimates is notable since they were computed by using considerably different approaches The Cooper-Rice estimate involves application of average earnings by age and sex to estimated work-loss years for those groups, but the approach followed in this article is to measure workloss and average earnings by using data on industry and class of worker

Trends

Short-term sickness resulted in an estimated income loss of about \$217 billion in 1974 (table 2) The lost earnings of wage and salary workers continued to account for more than 90 percent of the total, as has generally been the case since 1970 The loss suffered by the self-employed, 9

¹For a discussion of factors responsible for the differences in the two series, see Daniel N Price, "Cash Benefits for Short-Term Sickness, 1948-72," Social Security Bulletin, January 1974

⁵See Mary H Wilder and Alice N Pearson, *Disability* Days, United States, 1971, US Department of Health, Education, and Welfare, Public Health Service, June 1974

^a Barbara S Cooper and Dorothy P Rice, "The Economic Cost of Illness Revisited," Social Security Bulletin, February 1976

TABLE 1-Number of work-loss days per person for currently employed workers aged 17 and over, by type of employment and sex, 1968-74

Period	Total ¹	Private wage and salary	Federal Govern- ment	State and local govern- ment	Self- employed	
	, <u> </u>		Total			
1968 1969 1970 - 1971 - 1972 1973 - 1974 -	5 4 5 2 5 4 5 1 5 3 5 4 4 9	5 4 5 2 5 5 5 2 5 4 5 3 5 0	88 86 81 53 75 57 51	54 51 45 55 50 62 52	5 0 4 6 5 1 3 9 4 4 5 2 4 3	
	Men					
1968 - 1969 - 1970 - 1971 - 1972 - 1973 - 1974 -	5 2 5 2 5 1 4 9 5 2 5 2 5 2 5 2 5 2 8	5 1 5 2 5 1 5 1 5 2 5 1 5 2 5 0 4 8	64 59 51 48 76 53 53	53 51 45 51 50 61 50 56	5 1 4 9 5 5 3 7 4 5 5 1 4 2	
	Women					
1968	59 52 59 55 55 55 58 51	60 52 63 55 57 58 53	78 81 82 61 73 66 48	58 52 46 59 49 63 49	43 37 357 49 42 54 54	

¹ Includes nonpaid workers Source National Center for Health Statistics Public Health Service, unpublished data from the Health Interview Study

percent of the total in 1974, covered a larger share in earlier years—as high as 21 percent in 1948

The 1974 loss from short-term sickness was above the level of income loss in 1973 by only 82 percent The two previous annual increases in income loss were much greater 76 percent in 1973 and 140 percent in 1972

The modest increase in 1974 was attributable primarily to a considerable reduction in morbidity that year as will as to the slowing of growth in employment among wage and salary workers that accompanied the economic downturn In 1974, full-time equivalent civilian employment reported by the Department of Commerce rose to slightly less than 74 million workers—only 15 percent above the 1973 total This growth compares with increases of 45 percent for 1973 and 31 percent for 1972

Another factor influencing growth of income loss due to sickness is the wage level Average annual full-time civilian earnings have risen by 6-7 percent each year since 1967 In 1974, average annual earnings went up by 7 6 percent to \$10,010 The effect of this somewhat greater-than-average rise in earnings on the estimated income loss was offset, however, by the small rise in employment and the drop in morbidity experience

PROTECTION AGAINST INCOME LOSS

Coverage

Protection against loss of earnings in periods of nonoccupational disability is provided in a number of ways For wage and salary workers in private industry, the most common method is through group or individual insurance policies sold by insurance companies that pay cash amounts during specified periods of disability Employers may also self-insure, providing either cash benefits or paid sick leave Some unions, union-management trust funds, fraternal societies, and mutual benefit associations also pay cash disability benefits These methods are not mutually exclusive Employers often use a paid-sickleave plan to supplement benefits under insurance plans, and workers may, as individuals, purchase insurance policies to supplement the protection provided through their jobs

This privately insured protection may be obtained through voluntary action by the employer or the employee, or—as in California, Hawaii, New Jersey, New York, and Puerto Rico—it may come about as the result of a law requiring compulsory temporary disability insurance. Some of the protection required by law in these jurisdictions (except Hawaii) may be provided by publicly operated funds. Under the other two compulsory programs—that of Rhode Island and the Federal program for railroad employees—all the mandatory protection comes from publicly operated funds, though private plans may supplement the government-paid benefits

Excluded here is protection afforded by groupcredit accident insurance⁴ and by informal sick leave or other informal employment-related plans Group-credit accident policies are not provided as part of an employment relationship, nor are they issued primarily for the benefit of the in-

⁴This type of insurance is issued through a lender or lending agency to cover payment of a loan or installment purchase if the insured becomes disabled

TABLE 2—Estimated			
short-term sickness,1 by	type of emplo	oyment	, 1948–74 °

			(
			Wage and	salary w	orkers		
Year	Total	In private employment [‡]			In pr employ		Self-em ployed
		Total	Covered by temporary disability insurance laws 4	Other ^s	Fed eral •	State and local 7	per- sons *
19.8 19.19	\$4 582 4 446 4 815 5,494 5,834 6 163 6 114 6,565 7 052 7,386 7 477 7,749 8 591 8,664 9,653 10,213 10,296 11,333 12,268 12 814	\$3,632 3 602 3 921 4 495 4 832 5,199 5 162 5,574 6 035 6,336 6,336 6,336 6,336 6,336 7 462 7 527 8,426 8 956 9 965 9 971 10 833 11,407	\$391 483 712 1,059 1 132 1 213 1,212 1 299 1,430 1,512 1 507 1,580 1,773 1,773 1,770 1 983 2,084 2 085 2 244 2 408 2,529	\$2 809 2,644 2 703 3,040 3 295 3,040 3 295 3,040 3 2,040 3 ,040 3	\$174 1900 201 229 229 2290 2290 2290 2290 22	\$258 285 305 334 369 401 437 470 518 570 628 654 760 813 925 1 009 1 039 1 039 1 ,162 1,275 1 312	\$950 843 895 999 1,002 964 952 991 1,002 1,002 1,002 1,002 1,002 1,002 1,002 1,005 1
1968 1969 - 1970 1971 1972 - 1973 1974	14 620 15 315 16,799 17,154 19 555 21 045 21,723	13 067 13 755 15 203 15 558 17 689 18 883 19 797	2 852 3,025 3 261 3 273 3,653 3 797 4 001	7 904 8 334 9,147 9 321 10,649 11,517 12,055	733 765 883 905 1,009 1,036 1,084	1 578 1 631 1 912 2,059 2 378 2 533 2,657	1,553 1 560 1 596 1,596 1,866 2 162 1,928

[In millions]

¹ Short term or temporary non work connected disability (lasting not more than 6 months) and the first 6 months of long term disability ³ Beginning 1960, data include Alaska and Hawaii Beginning 1985, data adjusted to reflect changes in sickness experience (average number of disa bility days), as reported in the Health Interview Survey of the Public Health Service

⁴ Annual payrols of wage and salary workers in private employment, multiplied by 7 (estimated average workdays lost per year due to short-term sickness) and divided by 255 (estimated workdays in year), Data for 1948-74 from unpublished advance tables in <u>Benchmark Revision of National</u>

1948-14 from unpublished advance tables in *Benchmark Revision of National Income and Product Accounts* (Department of Commerce) ⁴ Total annual payrolls of wage and salary workers in industries covered by temporary disability insurance laws in Rhode Island, California, New Jersey, and New York and in the railroad industry, multiplied by 7 and di vided by 255

Difference between total loss for all wage workers in private employment

⁵ Difference between total loss for all wage workers in private employment and for those covered by temporary disability insurance laws ⁶ Federal civilian payrolls in the United States from US Civil Service Commission, multiplied by 8 (estimated average workdays lost per year due to short term sickness) and divided by 260 (scheduled workdays in year) ⁷ Annual wage and salary payrolls of State and local government employ-ees from Department of Commerce data (see footnote 3), multiplied by esti-mated average workdays lost per year due to short term sickness (for 19'8-66, 7 5 days for 1967 7 55 days, for 1968, 7 2 days and for 1969 to date, 7 0 days) and divided by 255 (estimated workdays in year) ⁸ Annual farm and nonfarm proprietors income from Department of Com-merce data (see footnote 3) multiplied by 7 (estimated income loss days per year due to short term sickness) and divided by 300 (estimated workdays in year)

sured Informal sick-leave protection is also excluded, since such arrangements for continuation of pay at the discretion of the employer are rarely specified publicly in advance It is therefore difficult to estimate either the number of workers who could actually receive payments of this nature when they are sick or the magnitude of such benefits

The extent of cash-benefit protection for shortterm disability has been stable for some time

Less than two-thirds (494 million) of the 772 million wage and salary workers in private industry and government employment were covered under some formal cash sickness plan at the end of 1974 About 34 million of those protected in that year were covered under insurance plans that generally provided partial wage replacement after a waiting period of 3-5 days This estimate includes those protected through mandatory as well as voluntary coverage and funded selfinsured plans as well as commercial insurance The remaining group with income protection during sickness is the almost 16 million workers in government and private industry whose primary benefits are through a sick-leave or wage continuation program⁵

A much higher proportion of public than private workers is protected under sick-pay plans When government workers are excluded, as in table 3, an estimated 369 million workers, or just short of three-fifths of all those employed in private industry, are covered The total number of workers under formal programs and the coverage rate went down slightly from 1973, in part because of the declining economy during that period

Voluntary protection — Table 3 shows the number of workers with income-maintenance protection against short-term sickness with revisions back to 1962 The revisions are attributable primarily to two sets of changes in the voluntary sector

First, in line with continuing efforts by the Social Security Administration to improve its estimates, new figures have been compiled on the number of workers with cash-sickness benefits under self-insured plans in private industry With 1972 data from the Department of Labor files on welfare plans and unpublished information from administrative agencies on the statutory temporary disability insurance programs, the number of workers under private self-insured plans in 1972 was revised upward to 27 million, from 11 million An estimated 17 million workers (excluding those protected under mandatory programs) had coverage in the voluntary sector

⁶For a discussion of the differing characteristics of the two major forms of protection, see Daniel N Price, "Income-Loss Protection Against Illness, 1948-67," Social Security Bulletin, January 1969

TABLE 3—Degree of income-loss protection against shortterm sickness for all employed wage and salary workers in private industry and for those not under temporary disability insurance laws, selected years 1954-74

		With prot	ection	
December	Total number (in thousands) ¹	Number (in thousands) ²	Percent of total	
	All w	age and salary wor	kers	
1954 - 1956 - 1960 - 1962 - 1964 - 1966 - 1968 - 1970 - 1971 - 1972 - 1973 - 1974 -		25 600 27,700 26 900 28,200 29 800 28 700 33 500 35 800 36,500 36,500 36,500 36,900 36,900		
1954 1956 - 1958 - 1960 - 1964 - 1966 - 1968 - 1970 - 1971 - 1973 - 1974 -	$\begin{array}{c} 31,400\\ 34,200\\ 33,600\\ 34,300\\ 35,900\\ 38,100\\ 41,000\\ 42,600\\ 43,300\\ 44,300\\ 46,500\\ 47,700\\ 47,700\\ 47,700\\ \end{array}$	15 000 16 400 16 000 16 800 17 400 19 300 20,600 21,200 21,200 22,600 22,200 22,800	47 8 48 0 47 0 49 0 48 5 42 0 42 0 42 0 42 0 42 0 45 3 47 8 46 3 46 3 45 7	

¹ Number in private industry For areas not under temporary disability insurance laws, total excludes railroad workers and is adjusted by ratio of private industry employees on nonagricultural payrolls in the States with temporary disability insurance laws to all such employees. Data from Bureau of Labor Statistics, Employment and Earnings and Monthly Report on the Labor Force Beginning with 1968, data not strictly comparable with that for earlier years Labor force information for 1968 and thereafter ex cludes those aged 14-15 and includes certain workers previously classified as self-employed

Self-employed ³ Estimated number of private-industry workers (1) with group accident and sickness insurance (except group credit insurance) (2) under paid sick-leave plans (3) under union and mutual association plans, and (4) under State-operated temporary disability insurance funds Beginning with 1964, group accident and sickness insurance coverage has been adjusted to exclude those with long term benefit policies that usually do not provide short term benefits Estimates of private protection based on data from Health Insurance Association of America and from State administrative agencies

Revised estimates tying into the last benchmark were also compiled back to 1962 (See the technical note, page 33, for the derivation of the new coverage figures)

The second factor affecting the data in table 3 was the revision of coverage statistics on commercial group insurance plans The Health Insurance Association of America (HIAA) provided revised information for the years 1963–73, raising the previous figures for some years but lowering them for other years

The net result of these improved estimates was an increase in the number of workers protected in private industry for each year starting with 1962, along with corresponding improvements in the coverage rates, which rose from less than 1 percentage point in 1962 to 3 percentage points in 1972 In 1974, 21.8 million workers, or almost 46 percent of those employed by private industry in nontemporary disability insurance areas were covered under sick-leave or insurance plans. The difference between the 46-percent rate of coverage in the voluntary sector and the 59-percent rate for private industry as a whole reflects the nearly universal coverage of private employees in jurisdictions with temporary disability insurance

Public programs -In California, Hawaii, New Jersey, New York, Puerto Rico, and Rhode Island, coverage is provided through a compulsory State temporary disability insurance law In the railroad industry, workers are protected under a Federal act More than four-fifths of the employees in the five States and Puerto Rico and all railroad workers are protected against wage loss by these laws The protection provided, like that under the unemployment insurance laws in these States, is extended mainly to employees in industrial and commercial firms California, Hawan, and Puerto Rico also cover hired farm workers Domestic workers and employees of governments and nonprofit organizations are generally not covered

Many of those not protected by statutory programs in these jurisdictions, however, have disability insurance or sick leave provided by their employers Most State and local government workers and many employees of nonprofit firms are covered under such income-maintenance programs In all, 15 million—or more than 9 out of 10 of all wage and salary workers in these States —are eligible for some form of income maintenance when they are ill

PREMIUMS AND BENEFITS

Except for benefits paid through compulsory temporary disability insurance programs and in the form of Federal employee sick leave, most of the payment figures from 1962 onward have been revised The changed coverage estimates for self-insurance and voluntary private commercial insurance discussed above gave rise to corresponding changes in benefits and contributions In addi-

tion, private and State and local government sick-leave estimates were affected by revisions in earnings and employment data for 1948-73 resulting from the periodic review by the Department of Commerce of its National Income Accounts

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Private Insurance

Table 4 presents data on the insurance protection provided through private arrangements with nongovernmental agencies The table shows separately the dollar amounts of private insurance

[In millions]

		υ	nder volunt:	ary provisic:	15	Under	r public prov	7isicns
Үеаг	Total	Total	Group insurance •	Individual insurance *	Self insurance ¹	Total	Group insurance 1	Self insurance 4
				Prem	jums			
1948	\$558 9 603 6 685 3 804 7 874 0 1 026 0 1 074 1 1,133 9 1,206 3 1 346 9	\$545 8 564 8 609 4 660 9 718 2 839 5 896 0 955 1 1,029 2 1,129 7	\$162 2 177 8 225 6 269 4 286 2 321 5 340 1 386 2 418 3 453 7	\$350 0 355 0 360 0 405 4 494 8 534 2 547 8 591 2 654 4	\$33 6 32 0 23 8 25 5 26 6 23 2 26 6 23 7 21 7 21 1 19 7 21 6	\$13 1 38 8 75 9 143 8 155 8 186 5 178 1 178 8 177 1 217 2	\$12 7 31 9 58 3 102 9 112 8 136 2 129 8 128 3 128 5 157 9	\$0 4 6 9 17 6 40 9 43 0 50 3 48 3 50 5 48 6 59 3
1958 - - 1960 - - 1961 - - 1962 - - 1963 - - 1964 - - 1965 - - 1966 - - 1967 - -	$\begin{array}{c}1 \ 417 \ 9\\1,526 \ 4\\1,561 \ 9\\1,630 \ 5\\1 \ 695 \ 9\\1 \ 704 \ 3\\1,825 \ 1\\1,940 \ 9\\2 \ 153 \ 9\\2 \ 265 \ 8\end{array}$	$\begin{array}{c} 1,185 \\ 6\\ 1 \\ 293 \\ 6\\ 1,323 \\ 1\\ 1,375 \\ 2\\ 1,440 \\ 5\\ 1,459 \\ 9\\ 1,587 \\ 1\\ 1,682 \\ 5\\ 1\\ 873 \\ 8\\ 1,955 \\ 2\end{array}$	$\begin{array}{r} 449 \ 6\\ 484 \ 1\\ 516 \ 8\\ 516 \ 9\\ 556 \ 9\\ 560 \ 0\\ 620 \ 8\\ 710 \ 9\\ 810 \ 6\\ 853 \ 1\end{array}$	714 6 787 8 783 0 835 9 856 5 870 0 933 0 933 1 1 018 5 1,048 6	$\begin{array}{c} 21 \ 4 \\ 21 \ 7 \\ 23 \ 3 \\ 23 \ 3 \\ 27 \ 1 \\ 29 \ 9 \\ 33 \ 3 \\ 8 \ 5 \\ 44 \ 7 \\ 53 \ 5 \end{array}$	232 3 232 8 238 8 255 3 255 4 244 4 238 0 258 4 280 1 810 6	167 8 166 1 168 2 179 6 161 0 153 2 163 0 175 9 194 3	64 5 66 7 70 6 75 8 83 4 84 8 95 4 104 2 116 3
1968	2 727 7 3 076 7 3 308 6 3 583 7 3 918 7 4 240 8 4 618 1	2 385 7 2,677 3 2 891 2 3 140 9 3,419 4 3,718 6 4 101 0	1 131 8 1 304 6 1,512 7 1,597 3 1 853 8 1 942 0 2,119 4	1,198 0 1,304 5 1 299 7 1,454 2 1,459 0 1 671 0 1,871 0	55 9 68 2 78 8 89 4 106 6 105 6 110 6	342 0 399 4 417 4 442 8 499 3 522 2 517 1	209 2 243 9 249 6 262 5 279 2 286 0 270 6	132 8 155 5 167 8 180 3 220 1 236 2 246 5
	·	·		Benefit p	ayments			<u> </u>
1948 -	\$286 8 322 0 383 8 500 8 559 1 606 2 629 1 692 4 802 5 874 4	\$277 5 294 9 329 5 387 5 431 3 466 5 497 1 557 2 651 3 696 3	\$115 0 124 7 161 3 212 4 234 6 241 0 251 8 292 0 357 3 372 3	\$141 0 150 0 153 0 157 0 209 0 230 0 250 0 278 0 307 2	\$21 5 20 2 15 2 18 1 19 7 16 5 15 3 15 2 16 0 16 8	\$93 271 543 1278 1397 1320 1352 1512 1781	\$9 0 22 8 41 7 81 1 92 5 102 0 96 2 97 0 109 7 129 5	\$0 3 4 8 12 6 32 2 35 3 37 7 35 8 38 2 41 5 48 6
1958 - 1 0 - - 1 0 - - 1 0 1 0 - - 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} 909 \ 1 \\ 990 \ 1 \\ 1 \ 031 \ 2 \\ 1 \ 051 \ 6 \\ 1 \ 089 \ 2 \\ 1 \ 122 \ 6 \\ 1 \ 122 \ 6 \\ 1 \ 199 \ 6 \\ 1 \ 249 \ 7 \\ 1 \ 856 \ 1 \\ 1 \ 396 \ 7 \end{array}$	$\begin{array}{c} 725 \ 4\\ 800 \ 6\\ 835 \ 1\\ 850 \ 2\\ 884 \ 9\\ 924 \ 4\\ 1 \ 008 \ 2\\ 1,052 \ 1\\ 1,147 \ 7\\ 1,174 \ 3 \end{array}$	355 9 394 2 424 1 406 8 445 8 454 2 498 9 541 6 603 2 610 5	353 4 389 6 392 8 425 9 418 5 447 2 483 9 483 9 482 6 512 9 527 4	$\begin{array}{c} 16 \\ 16 \\ 8 \\ 18 \\ 2 \\ 17 \\ 5 \\ 20 \\ 8 \\ 23 \\ 0 \\ 25 \\ 4 \\ 27 \\ 9 \\ 31 \\ 6 \\ 36 \\ 4 \end{array}$	$\begin{array}{c} 183 & 7 \\ 189 & 5 \\ 196 & 1 \\ 201 & 4 \\ 204 & 3 \\ 191 & 4 \\ 197 & 6 \\ 208 & 4 \\ 222 & 4 \end{array}$	132 7 135 2 138 1 141 3 143 7 130 6 123 2 124 8 130 9 139 1	$\begin{array}{c} 51 \ 0 \\ 54 \ 3 \\ 60 \ 1 \\ 60 \ 6 \\ 67 \ 6 \\ 68 \ 2 \\ 72 \ 8 \\ 77 \ 5 \\ 83 \ 3 \end{array}$
1968	1,732 8 1 882 1 2 169 6 2,219 9 2,386 4 2,530 8 2 875 4	$\begin{array}{c} 1,481 & 1 \\ 1 & 600 & 9 \\ 1,862 & 4 \\ 1,909 & 5 \\ 2 & 057 & 9 \\ 2 & 177 & 8 \\ 2 & 493 & 8 \end{array}$	$\begin{array}{r} 832 & 9\\ 919 & 9\\ 1,113 & 6\\ 1 & 119 & 1\\ 1,219 & 3\\ 1,314 & 4\\ 1 & 565 & 3 \end{array}$	609 1 635 4 693 7 730 9 772 0 795 0 851 0	39 1 45 6 55 1 59 5 66 6 67 9 77 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	154 0 171 7 183 7 184 0 183 7 193 6 199 7	97 7 109 5 123 5 126 4 144 8 159 9 181 9

¹ Beginning 1960, data include Alaska and Hawaii ³ Data on premiums earned and losses incurred by commercial companies (including fraternal) as provided by the Health Insurance Association of America for the United States, by type of insurance benefits adjusted to include accidental death and dismemberment provisions in individual policies that insure against income loss to offset understatement arising from the omission of current short-term income loss insurance in automobile,

resident liability, life, and other policies For 1956-74, dividends deducted from earned premiums (2-3 percent for group 1 percent for individual) ³ Company and union management trust fund trade-union, and mutual benefit association plans Excludes unfunded plans included in table 5 ⁴ Company union, and union management plans under California, New Jersey, and New York laws, whether or not funded

written under voluntary arrangements and that written in compliance with State temporary disability insurance laws in California, New Jersey, and New York Benefits through self-insurance plans are also presented In States without compulsory laws, however, benefits paid through selfinsured, employer-administered plans that are unfunded are considered separately in table 6 (along with sick leave) and are excluded from table 4

More than \$4.6 billion was paid in premiums for cash sickness insurance in 1974 This amount represented a 9-percent rise from 1973, similar to the 8-9 percent annual increase of the past several years It should be noted that the 1973 data for voluntary insurance are somewhat lower than those previously recorded for the year, due to refinements in premiums and benefits reported by the HIAA for 1973, as well as for 1972 Premiums under voluntary provisions rose more than 10 percent in contrast to the slight decline from 1973 to 1974 in premiums paid through the public programs

Benefits paid through private insurance in 1974, totaling \$2.9 billion, were up 13.6 percent from the corresponding amount a year earlier This rate was at least double the annual growth in the previous 3 years, and was well above the growth in premium income Thus, in spite of a lower rate of sickness in 1974, inflation of wages and/or improved benefit scales pushed benefit payments up at an accelerated pace

Premiums and benefits under self-insured plans were higher for all the years 1962-73 than they were before revision Total benefits paid for 1973 under self-insured plans outside jurisdictions with mandatory temporary disability insurance programs were, for example, previously calculated at \$26.4 million The revised benefit payment for 1973 is now shown in table 4 at \$67.9 million The technical note (page 33) describes the sources and the procedures followed to produce these new data

Temporary Disability Insurance Benefits

Benefits paid for temporary disability under statutory programs in four States-California, New Jersey, New York, and Rhode Island-and the Federal statutory program for railroad emTABLE 5-Cash benefits under temporary disability insurance laws provided through private plans and through publicly operated funds, 1948-74 $^{\rm 1}$

[In millions]

		Type of i	nsurance arre	ngement
Year	Total	Private	Publicly	
		Group insurance	Self insurance *	operated funds 4
1948 1949 1950 1951 1953 1954 1955 1956 1957	\$66 4 89 2 117 4 2202 3 230 2 235 1 244 6 265 0 305 3	\$9 0 22 3 41 7 81 1 92 5 102 0 96 2 97 0 109 7 129 5	\$0 3 4 8 12 6 32 2 35 3 37 3 35 8 35 8 35 8 38 2 41 6 48 6	\$57 1 62 1 63 1 60 9 74 5 90 5 103 1 109 4 113 8 127 2
1958 1 1959 1 1960 1 1961 1 1962 1 1963 1 1964 1 1965 1 1966 1 1966 1 1967 1	325 1 353 2 396 2 396 3 416 3 442 2 455 8 466 6 481 6 507 1	129 3 132 7 135 2 138 1 141 3 143 7 130 6 123 2 124 8 130 9 139 1	\$0 0 51 0 54 3 60 1 60 6 67 6 68 2 72 8 72 8 77 5 83 3	127 2 141 4 163 7 172 1 195 2 212 0 243 9 264 4 269 1 273 2 284 7
1968 1969	571 9 654 9 717 8 721 3 740 5 799 3 866 9	154 0 171 7 183 7 184 0 183 7 193 6 199 7	97 7 109 5 123 5 126 4 144 8 159 9 181 9	320 2 373 7 410 6 410 9 412 0 445 9 485 3

¹ Programs under the Railroad Unemployment Insurance Act and the laws of Rhode Island, California, New Jersey (beginning 1949), and New York (beginning 1950) Data for Hawaii not available Excludes benefits in Puerto Rioo (\$6 6 million in 1974) for consistency with wage loss data in table I and elsewhere Excludes hospital benefits in California and hospital, surgi-cal, and medical benefits in New York ¹ Under the laws of California, New Jersey, and New York ² Employers may solf insure by observing certain stipulations of the law Includes some union plans whose provisions come under the law

Includes some union plans whose provisions come under the law 4 Includes State-operated plans in Rhode Island, California, and New Jer sey, the State Insurance Fund and the special fund for the disabled unem-ployed in New York, and the railroad program

ployees totaled \$867 million in 1974 (table 5) 6 The 85-percent increase in temporary disability insurance benefits between 1973 and 1974 was due largely to the growth of payments by public carriers and by private self-insurers Among the three benefit components shown in table 5, selfinsurers can be seen to have increased their share of the total over the years (from 15 percent to 21 percent in the period 1964-74) while private commercial insurance payments have declined (from 27 percent to 23 percent in the same span) and the publicly operated funds have continued to account for about the same share (56 percent in 1974, compared with 58 percent in 1964)

The share of national wage loss represented by the jurisdictions with temporary disability in-

⁶Data for Hawaii were not available and data for Puerto Rico were excluded in order to ensure consistency with work-loss statistics appearing elsewhere in this article

surance laws (adjusted to exclude the loss protected by sick leave) has declined slightly over the years from a high of 28 percent in the early 1960's to 26 percent in 1974 The benefit relationship, however, has been far more variable, depending on changes in statutory coverage and benefit provisions and on the effects (in areas without such laws) of economic fluctuations on growth in voluntary insurance coverage Benefits paid under the temporary disability insurance laws accounted for as much as 46 percent of insurance benefit payments for short-term sickness nationally in 1963, but the proportion has fallen irregularly since then to the 1974 level of 35 percent

State legislative activity relating to disability insurance laws was moderate in 1974, as it had been previously Probably the most significant changes affecting aggregate benefits paid were the increases in maximum weekly amounts that became effective during 1974 from \$75 to \$95 in New York and from \$105 to \$119 in California The latter State also raised its taxable wage base (to \$9,000), as did New Jersey (to \$4,800, effective in 1975) In January 1976, New Jersey joined Hawaii in providing for automatic increases in the taxable wage base under its temporary disability insurance program

Paid Sick Leave

Sick-leave payments in 1974 totaled \$4.3 billion, 6.4 percent above the 1973 level (table 6) The growth in such payments continued to be greater in private industry (9.8 percent) than in government (4.8 percent), as had also been true during the previous 2 years Patterns have been changing in the two sectors From 1950–60, total sick leave rose 162 percent in Federal and State and local government and 122 percent in private industry, from 1960–70, such payments increased by 167 percent in both sectors, and since 1970, private industry sick-leave pay has gone up 41 percent, while government benefits have risen 29 percent

The major difference between the private and government sectors in the growth of sick-leave benefit payments occurred between 1950 and 1952, when government sick-leave pay rose 44 percent while private industry benefits rose 21 percent This pattern reflected, among other factors, an accelerated growth in Federal employment during the period associated with the Korean Conflict Since then, however, the growth of State and local government sick leave has been much greater than that for Federal workers, a reflection of fast-growing employment and improved sickleave provisions in the former sector

In terms of the total amount paid, sick-leave plans in the public sector continue to dominate this type of income-loss protection against shortterm disability Practically all Federal workers are entitled to sick leave, and it has been estimated that 90 percent of all full-time State and local government employees have this protection In 1974, 65 percent of all sick-leave benefits was accounted for by government workers

Income-loss protection provided entirely through sick leave (that is, exclusive sick leave) totaled \$3.5 billion in 1974 and covered about 75 percent of the wage-loss incurred (table 7) Exclusive sick leave is more prevalent among government workers than among those in private industry Though government workers accounted for only about two-thirds of all paid sick leave in 1974, four-fifths of the total paid out in exclusive sick-leave benefits went to these workers The difference is attributable to the fact that most government workers are covered by exclusive sickleave programs Among workers in industry and commerce, however, paid sick leave as a supplement to other forms of group disability protection is more common. On the basis of the Bureau of Labor Statistics (BLS) labor-market studies for selected communities, it is estimated that 60 percent of those private employees covered by paid sick-leave plans in 1974 were also covered on their jobs by other sick-pay programs

Summary of Protection

Total sickness benefits paid by group and individual insurance, self-insurance, and sick-leave plans reached almost \$7 9 billion in 1974 (table 8) The high rate of inflation reflected in wage increases was largely responsible for the 96-percent growth in benefit payments from the 1973 amount This rate of growth was somewhat higher than that recorded generally in the series—a rate exceeded, for example, in just 3 of the last 10 years The increase in 1974 was as little as 4 8 percent

TABLE 6 -- Estimated value of formal paid sick leave in private industry and in Federal, State, and local government employment, 1948-74 1

[In millions]

1		Workers	in private i	ndustry 1	Gov	ernment wo	kers
Year	Total	Total	Not covered by temporary disability insurance laws	Covered by temporary disability insurance laws ¹	Total	, Federal 4	State and local *
1949 1949 1950 1951 1952 1953 1954 1955 1957	\$418 464 495 591 670 716 745 818 889 956	\$158 164 180 201 218 235 245 273 299 330	\$146 149 156 166 181 196 205 228 248 275	\$12 16 24 35 37 38 40 45 50 55	\$259 300 315 390 453 482 500 545 591 627	\$148 173 172 221 154 262 252 269 280 290	\$111 127 143 169 199 220 248 176 311 337
1958	1,043 1 082 1 226 1 314 1 475 1 631 1 637 1 830 2,008 2 211	346 359 400 420 472 526 505 566 619 680	290 301 334 352 394 439 424 475 519 572	57 58 66 79 87 91 91 100 109	696 724 826 894 1 003 1 105 1 133 1,264 1 389 1 531	315 348 376 414 450 445 488 523 569	381 408 478 518 589 655 677 776 860 962
1968 1969 1970 1971 1971 1972 1973 1974	2 570 2,805 3 268 3,408 3,408 4 081 4,344	803 930 1 066 1,097 1 290 1 369 1 503	676 786 903 931 1,094 1,169 1,285	128 144 163 165 196 200 218	1 767 1 874 2 202 2,311 2 618 2,712 2 \$41	643 668 786 814 898 885 906	1 124 1,206 1,416 1 497 1 720 1 827 1,935

¹ Beginning 1960, data include Alaska and Hawaii Beginning 1959, data adjusted to reflect changes in sickness experience (average number of disa bility days), as reported in the Health Interview Survey of the Public Health Eervice

* Sum of estimated value of formal paid sick leave for employees with (1) ³ Sum of estimated value of formal paid sick leave for employees with (1) sick leave but no other group protection and (2) sick-leave supplemental to group insurance or other forms of group protection, including publicly operated funds Under each category, number of employees was adapted from Health Insurance Council, Annual Survey of Accident and Health Coverage in the United States, 19/8-64, after reducing estimates of exclusive sick leave coverage in early years by a third to allow for exclusion of informal paid sick leave coverage in early years by a third to allow for exclusion of informal paid sick leave coverage reported in the united states in the united states of formal paid sick leave coverage reported for nance and onforces in the coverage laws. Later year estimates based on nationwide projection of formal paid sick leave coverage reported for nance and office workers in the community wave surveys of the Eureau states and onformal paid sick leave coverage in the repletion of formal paid sick leave coverage in the survey of the Eureau states and office workers in the community wave surveys of the Eureau states and office surveys of the Eureau states and office surveys of the Eureau states and ender the workers in the community wave surveys of the Eureau states and ender surveys of the Eureau states and ender the survey of the Eureau states and ender the surveys ender the surveys and the surveys ender the s based on nationwide projection of formal paid sick leave coverage reported for plant and office workers in the community wage surveys of the Bureau of Labor Statistics Assumes that workers in private industry receive an average of 4 days of paid sick leave a year, excluding other protection, and 3 2 days when they have other group protection Daily wages obtained by dividing average annual earnings per full time private employee as reported in table 67 in The National Income and Product Accounts of the United States, 1989-74, Statistical Tables (to be published), and in the annual Survey of

for government sick-leave payments and as high as 16.6 percent for payments under private insurance and self-insurance Each of the forms of cash sickness payments rose at a faster rate than it had in the previous year

Table 8 also highlights the fact that sick leave accounts for the major part of all short-term disability benefits In 1974, government and private sick leave combined paid 55 percent of all such benefits, if only the benefits under group protection are taken into account, the share for government and private sick leave is 62 percent This benefit pattern exists even though the large majority of workers are protected for cash sickCurrent Business National Income Issue (Department of Commerce), by

225 (estimated valuat income lesse (Department of Commerce), by 225 (estimated workdays in a year) ³ Assumes that some workers entitled to cash benefits under temporary disability insurance laws have sick leave in addition to their benefits under the laws, but only to the extent needed to bring up to 80 percent the re-placement of their potential wage loss

⁴ Based on studies showing that Federal employees use paid sick leave of 7 days on the average for noncocupational sickness equivalent to 3 percent of payroll Payroll data derived by multiplying number of paid civilian full time employees in all branches of the Federal Government in the United

full time employees in all branches of the Federal Government in the United States, by their mean earnings, as reported in Pay Structure of the Federal Civil Service, Annual Report (U S Civil Service Commission) Practically all full time employees are covered by paid sick leave protection $\stackrel{4}{}$ Assumes that number of State and local government employees covered by formal sick leave plans has increased gradually from 65 percent of the total number of state and local government employees rowerkers covered by such plans received on the average paid sick leave ranging from 5 2 days in 19 8 to 6 1 in 1974 Number of full time employees from Public Employment, Annual Reports (Bureau of the Census) Daily wages obtained by dividing average annual earnings per full time State and local employee as reported in Department of Commerce data (see footnote 2), by 255 (estimated workdays in a year) mated workdays in a year)

ness benefits by insurance plans rather than by sick leave, because sick leave is generally a fullwage-replacement benefit The share of all sickness benefits provided by each type of protection has been rather stable over the past 26 years, except for the decline in payments under individual insurance policies from almost 19 percent of the total in 1948 to 11 percent in 1974

MEASURING THE EXTENT OF PROTECTION

Examining benefits in relation to the income loss they replace offers a useful way of evaluating the effectiveness of programs providing cash bene

 TABLE 7 — Estimated value of formal paid sick leave in relation to income loss due to short-term sickness among workers covered by exclusive formal sick-leave plans, 1948-74

[Amounts	in millions]	
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Year	Income loss	Value of sick leave under exclusive plans	Ratio (percent) of sick leave to income loss
19.8 1950 1951 1951 1952 1953 1954 1955 1956 1957 1958 1959 1950	\$569 605 608 808 808 850 879 958 1 030 1,113 1 211 1,213 1 394	\$378 417 434 509 578 614 636 694 778 804 879 910 1,038	66 4 68 9 67 9 70 1 71 5 72 2 72 4 72 4 72 4 72 4 72 6 72 6 72 6 72 6 72 6 72 6 72 5 72 6 72 5 72 6
1951 1952 1963 1964 1905 1966 1967 1968 1969 1970 1971 1972 1974	1 495 1 667 1 8 1 1 8 5 2 057 2 252 2 463 2 816 3 625 4,227 4 462 4 682	1,121 1 254 1 485 1 401 1,566 1 711 1 882 2 178 2,320 2 603 2 812 3 2 0 3 376 3 530	75 2 75 2 75 9 76 9 76 1 76 0 76 3 76 3 76 3 77 6 76 7 76 7 76 7 75 4

³ Sick leave plans that do not supplement any other form of group protection, including publicly operated plans

fits during sickness Tables 9 through 11 provide data with which to measure this relationship

Overall, compensation was received for an estimated 36.2 percent of the 1974 income loss from short-term sickness—the highest ratio ever achieved in the series One factor that may account for the rise of more than 2 percentage points over the 1973 figure (34.1 percent) was the economic decline that cost many workers their jobs Typically, workers with low seniority or in marginal jobs, and hence with fewer fringe benefits like accident and sickness insurance or sick leave, are the most likely to be laid off when unemployment first begins to rise

The 17-percent replacement rate for 1948 given in table 9 has more than doubled over the years a rise traceable to the establishment of mandatory benefit programs in 1949 and 1950, new plans for groups of workers in private and government employment, and improvements in benefit levels The \$13.9-billion income loss not protected in 1974 should be recognized as including the earnings of workers not covered under any incomereplacement plan as well as earnings lost during

TABLE 8 — Benefits provided	as protection against income	loss, summary data, 1948-74

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[In millions]

		Benefits provided through individual insurance	Group benefits provided as protection against wage and salary loss								
			Total 1	Workers in private employment							
Year ,	Total 1			Total	Private cash sickness insurance and self insurance ¹	Publicly operated cash sickness funds	Sick leave	Sick leave for government employees			
1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1960	\$761 4 8 8 2 911 8 1,152 9 1 303 9 1 412 7 1,477 6 1 619 6 1 805 7 2 093 2 2,236 3 2,429 6	\$141 0 150 0 153 0 157 0 209 0 230 0 250 0 278 0 307 2 353 4 389 6 392 8	\$620 4 698 2 788 8 995 9 1,120 9 1 203 7 1 217 6 1,369 6 1 527 7 1 650 7 1 739 8 1 846 7 2 036 8	\$361 3 398 3 473 7 605 8 674 1 722 4 747 3 821 9 936 9 1 024 3 1 043 5 1,122 9 1,210 6	\$145 8 172 0 230 8 343 8 382 1 397 2 399 1 442 4 521 5 567 2 555 7 600 5 638 4	\$57 1 62 1 63 1 60 9 74 5 90 5 103 1 109 4 113 8 127 2 141 4 163 7 172 1	\$158 4 164 2 179 8 201 1 217 5 234 7 2 5 1 273 1 298 6 J29 9 346 4 358 7 400 1	\$259 1 299 9 315 1 452 8 481 3 500 3 544 7 590 8 628 4 666 3 723 8 826 2			
1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974	$\begin{array}{c} 2 \ 560 \ 7 \\ 2 \ 776 \ 3 \\ 2 \ 997 \ 3 \\ 3 \ 101 \ 3 \\ 3 \ 349 \ 0 \\ 3 \ 636 \ 8 \\ 3 \ 892 \ 6 \\ 4 \ 622 \ 9 \\ 5 \ 848 \ 0 \\ 6 \ 5848 \ 0 \\ 6 \ 038 \ 5 \\ 6 \ 706 \ 4 \\ 7 \ 167 \ 8 \\ 7 \ 855 \ 0 \\ \end{array}$	$\begin{array}{c} 425 \ 9 \\ 418 \ 5 \\ 447 \ 2 \\ 483 \ 9 \\ 482 \ 6 \\ 512 \ 9 \\ 527 \ 4 \\ 609 \ 1 \\ 635 \ 4 \\ 693 \ 7 \\ 730 \ 9 \\ 772 \ 0 \\ 795 \ 0 \\ 851 \ 0 \end{array}$	$\begin{array}{c} 2 \ 1.34 \ 8 \\ 2 \ 357 \ 8 \\ 2 \ 550 \ 1 \\ 2, 617 \ 4 \\ 2 \ 866 \ 4 \\ 3 \ 123 \ 9 \\ 3, 365 \ 2 \\ 4, 013 \ 8 \\ 4, 425 \ 2 \\ 5 \ 151 \ 3 \\ 5 \ 307 \ 6 \\ 5 \ 934 \ 4 \\ 6, 372 \ 8 \\ 7, 004 \ 0 \end{array}$	$\begin{array}{c} 1 \ 241 \ 0 \\ 1,355 \ 0 \\ 1,444 \ 9 \\ 1,484 \ 8 \\ 1 \ 602 \ 3 \\ 1,735 \ 1 \\ 1,834 \ 4 \\ 2,216 \ 9 \\ 2 \ 550 \ 7 \\ 2 \ 952 \ 7 \\ 2 \ 956 \ 7 \\ 3 \ 316 \ 5 \\ 3 \ 550 \ 9 \\ 4,012 \ 6 \end{array}$	$\begin{array}{c} 625 & 7\\ 670 & 7\\ 675 & 4\\ 715 & 7\\ 767 & 1\\ 843 & 2\\ 869 & 3\\ 1,123 & 7\\ 1 & 246 & 7\\ 1 & 475 & 9\\ 1,489 & 0\\ 1 & 614 & 4\\ 1,735 & 8\\ 2,024 & 4\\ \end{array}$	$\begin{array}{c} 195 \ 2\\ 212 \ 0\\ 243 \ 9\\ 264 \ 4\\ 269 \ 4\\ 1\\ 273 \ 2\\ 284 \ 7\\ 320 \ 2\\ 373 \ 7\\ 410 \ 9\\ 412 \ 0\\ 4412 \ 9\\ 485 \ 3\\ \end{array}$	$\begin{array}{c} 420 \ 1 \\ 472 \ 3 \\ 525 \ 6 \\ 501 \ 7 \\ 566 \ 1 \\ 618 \ 7 \\ 780 \ 4 \\ 803 \ 0 \\ 9^{\circ}0 \ 3 \\ 1 \ 066 \ 0 \\ 1 \ 095 \ 8 \\ 1,290 \ 1 \\ 1 \ 369 \ 2 \\ 1 \ 502 \ 9 \end{array}$	893 8 1 002 8 1 105 2 1 132 6 1 244 1 1 388 8 1,766 9 1,874 5 2 201 8 2 310 9 2 617 9 2 711 9 2,811 4			

¹ Beginning 1973, includes benefits for the sixth month of disability payable under the old age, survivors, and disability insurance program (not shown separately) Includes a small but undetermined amount of group disability insurance benefits pad to government workers and to self-employed persons through farm, trade, or professional associations

	Incom	e loss and pro	Income	Net cost		
Year	Income loss 1	Protection pro vided 23	Protection as percent of loss	loss not protected	of pro viding insurance 4	
1948 1949 1950 1951 1952 1953 1954 1955 1956 1956 1957	\$4,582 4,445 4 816 5 494 5 834 6,163 6 114 6 565 7 052 7,386	\$761 848 942 1,153 1 304 1 413 1,478 1,620 1,806 1 958	$\begin{array}{c} 16 \ 6 \\ 19 \ 1 \\ 19 \ 6 \\ 21 \ 0 \\ 22 \ 4 \\ 22 \ 9 \\ 24 \ 2 \\ 24 \ 7 \\ 25 \ 6 \\ 26 \ 5 \end{array}$	\$3,821 3 597 3,874 4,341 4 530 4 750 4 636 4 945 5,246 5 428	\$277 287 307 311 822 428 453 453 453 450 413 482	
1958 - - 1959 - - 1960 - - 1961 - - 1962 - - 1963 - - 1965 - - 1964 - - 1965 - - 1966 - - 1967 - -	7,477 7 749 8 591 8,664 9 653 10 213 10 296 11 333 12 268 12,844	2 093 2 236 2,430 2 561 2 776 3 101 3 349 3,637 3,893	28 0 28 9 28 3 29 6 28 8 29 8 30 1 29 8 29 6 30 3	5 384 5 513 6,161 6 103 6 877 7,216 7,195 7 984 8,631 8,951	519 548 542 592 621 597 642 708 815 887	
1968 1969 - 1970 1971 - 1972 - 1973 - 1974	14 620 15 315 16 799 17 154 19 555 21 045 21,723	4 623 5,061 5 848 6 038 6,706 7 168 7 855	31 6 33 0 34 8 35 2 34 3 34 1 36 2	9 997 10,254 10 951 11 116 12 849 13,877 13 868	1 014 1 214 1,160 1,386 1 556 1 734 1 768	

TABLE 9 — Extent of protection against income loss, 1948-74 [Amounts in millions]

From table 1

¹ From table 1 ² Total benefits, including sick leave (from table 8)['] ³ Beginning 1973, includes benefits for the sixth month of disability under the old age, survivors, and disability insurance program ⁴ Includes retention costs (for contingency reserves, taxes, commissions, acquisition, claims settlement, and underwriting gains) of private insurance companies (from table 4) and administrative expenses for publicly operated plans and for supervision of the operation of private plans. Excludes costs of operating sick leave plans, data not available

waiting periods and after benefits are used up and the difference between wages and weekly benefits under plans providing partial replacement

Table 9 also indicates the net cost of providing short-term sickness benefits through insurance, exclusive of the costs of administering sick-leave plans, for which data are not available Under commercial insurance and self-insurance, these costs—\$18 billion in 1974—represent mainly the difference between insurance premiums and benefit payments and are made up of selling and administrative expenses, premium taxes, additions to reserves, and underwriting gains and profits

Benefit-income loss ratios can be examined with respect to benefits provided through the job to wage and salary workers by excluding selfemployment income on the earnings-loss side, and payments from individual insurance policies on the benefit side Of the \$198 billion wage and salary loss incurred by workers in 1974, 35 4 percent was replaced by group sickness insurance (or self-insurance) or sick leave Beginning in 1970, this ratio has been at least one-third, but it remains to be seen whether the recent economic downturn has had any long-term effect on the high benefit-loss replacement rate reached in 1974

The wage-replacement ratio is much higher for all wage and salary workers than for those in private industry (25.0 percent) because the former includes government workers' sick-leave payments, which replace income at a much higher proportion than insurance benefits

To analyze the effectiveness of insurance benefits in making up for income lost during shortterm illnesses, sick leave can be excluded and allowance made for that part of the income loss not normally considered insurable and compensable under prevailing insurance practices The relationship of benefits to such hypothetical levels of compensable-income loss offers a means of judging the extent to which insurance policies are achieving their goals (table 11)

Under the typical insurance plan, there is an initial waiting period (except for injury or hospitalization cases, ordinarily) before benefits are payable, and the benefit level 1s set below the worker's full wage These limitations are designed to prevent malingering, they may also allow more substantial payments for long-term illnesses by not insuring the indispositions of shortest duration In addition, establishment of benefit levels below a worker's wage takes into account the fact that insurance benefits, unlike wages, are not subject to Federal income tax The alternative waiting periods shown here and the two-thirds level of weekly wage replacement are in line with provisions of some of the more progressive plans now in operation

In table 11, the total income loss is reduced for (1) a 3-day uncompensated waiting period, which requires a 30-percent reduction, and (2) a 7-day uncompensated waiting period, calling for a 45percent reduction The potentially insurable income loss is further reduced by one-third to allow for the portion of the loss that is not indemnified after the waiting period. It is assumed that twothirds of wages are to be replaced

Benefits payable under exclusive sick-leave programs and the income loss associated with such programs (shown in table 7) are excluded from table 11 Sick-leave benefits under plans that generally supplement insurance benefits are also excluded since the wage loss generally protected by this sick leave (that is, the first 3-7 days)

TABLE 10 -Group protection provided in relation to wage and salary loss, 1948-74

[Amounts in millions]

							Wage and salary workers in private industry								
Year		All wage and salary workers			Total		Covered by temporary disability insurance laws			Not covered by temporary disability insurance laws					
				Protection provided			Protection provided			Protection provided			Protection provided		
		Income loss	Amount	Percent of income loss	Income loss	Amount	Percent of income loss	. Income loss	Amount	Percent of income loss	Income loss	Amount	Percent of income loss		
1948 1949 1950 1951 1952 1953 1954 1955 1956 1956		-		\$3 632 3,602 3,921 4 495 4,832 5 199 5,162 5,574 6 035 6 336	\$620 698 789 996 1 127 1,204 1 218 1 370 1 528 1,651	$17 1 \\ 19 4 \\ 20 1 \\ 22 2 \\ 23 3 \\ 23 2 \\ 24 2 \\ 24 2 \\ 24 6 \\ 25 3 \\ 26 1$	\$3, 199 3 127 3, 415 3 902 4 172 4 508 4 445 4, 807 5, 204 5, 443	\$361 398 474 606 674 722 747 825 937 1 024	11 3 12 7 13 9 15 5 16 2 16 0 16 8 17 2 18 0 18 8	\$391 483 712 1 059 1 132 1 213 1 212 1,299 1 430 1 512	\$79 105 141 209 239 269 276 290 316 360	20 2 21 7 19 8 19 7 21 1 22 2 22 8 22 3 22 1 23 8	\$2 809 2 644 2 703 2 813 3 040 3 295 3 233 3 508 3 774 8,931	\$282 293 333 397 435 453 471 535 621 664	10 0 11 1 12 3 14 0 14 3 13 7 14 6 15 3 16 5 16 9
1958 1959 1960 1961 1962 1963 1964 1965 1966 1966 1967		-	•	6 371 6 680 7 462 7,527 8 426 8 956 9,065 9 971 10 833 11,407	1 740 1,847 2 037 2 135 2 358 2 550 2 617 2,866 3 124 3 365	27 3 27 6 27 3 28 4 28 0 28 5 28 9 28 7 28 8 28 7 28 8 29 4	5 391 5 670 6 299 6,294 7 034 7,443 7,520 8 261 8 961 9,457	1 044 1,123 1,211 1 241 1 355 1,445 1 602 1,735 1,834	19 4 19 8 19 2 19 7 19 3 19 4 19 4 19 4 19 4	$\begin{array}{c} 1 \ 507 \\ 1 \ 580 \\ 1,773 \\ 1 \ 770 \\ 1 \ 983 \\ 2,081 \\ 2 \ 085 \\ 2 \ 244 \\ 2,108 \\ 2,529 \end{array}$	382 411 425 465 529 537 537 558 581 616	25 3 26 0 21 5 26 3 25 0 25 4 25 8 21 9 21 1 21 4	3,884 4 690 4 526 4 521 5 051 5 359 5 435 6 017 6 553 6 928	662 712 776 860 916 948 1 044 1,154 1,218	17 0 17 4 17 1 17 2 17 0 17 1 17 4 17 6 17 6
1968 1969 1970 1971 1972 1973 1974	- -		- - -	13,067 13 755 15 203 15 558 17 689 18 883 19 797	4 014 4 425 5,154 5 308 5,934 6,373 7,004	30 7 32 2 33 9 34 1 33 5 33 7 35 4	$10,756 \\ 11 359 \\ 13 408 \\ 12 594 \\ 14 302 \\ 15,314 \\ 16,056 \\ 10,756 \\ 1$	2 247 2 551 2 953 2 997 3 317 3 551 4 013	20 9 22 5 23 8 23 8 23 2 23 2 23 2 25 0	2,852 3 025 3 261 3 273 3 653 3 797 4 001	699 799 880 887 937 1 000 1,085	24 5 26 4 27 0 27 1 25 6 20 J 27 1 27 1	7 904 8 334 9 147 9 321 10 649 11,517 12,055	1,548 1 752 2 073 2 110 2,380 2 551 2 928	19 6 21 0 22 7 22 6 22 3 22 1 21 3

is also excluded The remaining income loss is not excluded since such sick-leave provisions do not give any appreciable protection against the portion of the loss resulting from sickness that is considered insurable under prevailing provisions

Under the type of plan with a 3-day waiting period that provides a two-thirds replacement of income loss, the \$3.5 billion paid by insurance benefits in 1974 would have protected about 44 percent of the aggregate loss incurred The degree of partial income replacement by insurance increased noticeably from 1973 to 1974—from almost 3 percentage points to 5.5 percentage points, according to the level of income loss compared These increases followed the pattern already noted for other benefit replacement ratios

For all of the various groups of workers and types of benefits provided, it can be concluded that cash payments for short-term sickness rose substantially in 1974, in large part because of inflationary pressures on wage levels The incomeloss level, on the other hand, went up somewhat less, reflecting lower sickness rates during the year Benefit-income loss ratios showed a corresponding upward movement in comparison with 1973 levels

Technical Note

Self-insured plan premiums and benefits for 1962-73 in plans outside jurisdictions with compulsory temporary disability insurance have been revised upward on the basis of (1) examination of employment data for such plans as reported to the Department of Labor under the Welfare and Pension Plans Disclosure Act and (2) revisions by the HIAA in certain commercial insurance data used in estimating self-insured premiums and benefits Premium estimates for self-insurance are derived primarily from two components Covered employment in self-insured plans and premiums per employed worker under commercial cash-sickness insurance adjusted to apply as imputed premiums for self-insurance Premiums obtained by multiplying these two components

TABLE 11-Insurance benefits as percent of estimated potentially insurable and compensable income loss 1 for workers without exclusive formal sick leave, 1948-74

		As a percent of income loss								
Year	Amount of insurance benefits ³	After firs	st 3 days 1	After first 7 days 4						
		Total	Two thirds	Total	Two thirds					
1948 1949 1950 1951 1953 1954 1955 1956 1957 1958 1959 1960 1964 1962 1964 1966 1964 1964 1964 1964 1964 1964 1965 1966 1967- 1967-	$\begin{array}{c} \$343\\ 384\\ 447\\ 562\\ 634\\ 697\\ 733\\ 802\\ 917\\ 1,002\\ 1\ 050\\ 1\ 154\\ 1,204\\ 1,247\\ 1,301\\ 1,366\\ 1,464\\ 1\ 519\\ 1\ 629\\ 1,682\\ \end{array}$	$\begin{array}{c} 12 \ 2 \\ 14 \ 3 \\ 15 \ 3 \\ 16 \ 8 \\ 18 \ 0 \\ 20 \ 4 \\ 21 \ 8 \\ 22 \ 8 \\ 23 \ 9 \\ 23 \ 3 \\ 24 \ 9 \\ 23 \ 3 \\ 24 \ 9 \\ 23 \ 3 \\ 24 \ 3 \\ 23 \ 3 \\ 24 \ 23 \ 3 \\ 24 \ 23 \ 3 \\ 24 \ 23 \ 3 \\ 23 \ 4 \\ 23 \ 4 \\ 23 \ 1 \end{array}$	$\begin{array}{c} 18 & 3\\ 21 & 4\\ 22 & 9\\ 25 & 2\\ 27 & 0\\ 30 & 6\\ 32 & 6\\ 34 & 2\\ 35 & 9\\ 37 & 8\\ 35 & 8\\ 37 & 8\\ 37 & 8\\ 37 & 8\\ 37 & 8\\ 37 & 8\\ 37 & 8\\ 37 & 8\\ 37 & 8\\ 34 & 9\\ 34 & 9\\ 37 & 1\\ 35 & 1\\ 34 & 8\\ 34 & 7\\ \end{array}$	$\begin{array}{c} 15 \\ 5 \\ 18 \\ 21 \\ 9 \\ 22 \\ 9 \\ 25 \\ 5 \\ 26 \\ 0 \\ 27 \\ 7 \\ 29 \\ 0 \\ 30 \\ 5 \\ 30 \\ 4 \\ 31 \\ 6 \\ 29 \\ 7 \\ 31 \\ 8 \\ 29 \\ 7 \\ 31 \\ 8 \\ 29 \\ 8 \\ 29 \\ 4 \\ 20 \\ 4 \\ 20 \\ 20$	$\begin{array}{c} 23 \\ 27 \\ 3\\ 29 \\ 2\\ 32 \\ 1\\ 34 \\ 4\\ 35 \\ 8\\ 35 \\ 43 \\ 5\\ 43 \\ 5\\ 43 \\ 5\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 4\\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 5\\ 47 \\ 44 \\ 44$					
1968 1969 1970 - 1971 1972 - 1973 1974	2 053 2,256 2 580 2 630 2,798 3 087 3,511	24 9 26 3 27 7 27 8 26 1 26 6 29 4	37 3 39 4 41 5 41 6 39 1 39 9 44 1	31 7 33 4 35 2 35 3 33 2 33 8 37 5	47 5 50 1 52 8 53 0 49 8 50 7 56 2					

[Amounts in millions]

¹ The portion of income loss that may be considered insurable or compens able under prevailing insurance practices
 ³ Excludes sick leave payments
 ⁴ Based on 70 percent of total income loss (from table 2), after exclusion of income loss of workers covered by exclusive sick leave plans (from table 7)
 ⁴ Based on 55 percent of total income loss (from table 2), after exclusion of income loss of workers covered by exclusive sick leave plans (from table 7)

were used to estimate benefits by applying an appropriate loss ratio

The number of workers covered by self-insured cash sickness plans throughout the United States in 1972 was obtained from data representing 50,000 welfare plans in private industry on file at the Department of Labor Samples of actual welfare plan records were also reviewed in order to (1) account for workers in plans utilizing commercial insurance for some welfare benefits and self-insurance for others and (2) determine whether the file included workers in self-insured plans in temporary disability insurance jurisdictions In addition, though the estimates were

primarily for coverage in union and jointly administered plans, workers covered under selfinsured employer-administered plans were also included because the Labor Department files show evidence of substantial benefit funding for such plans Finally, the resulting worker-coverage estimates were interpolated back to the previous benchmark year of 1961 The new estimates of coverage under self-insured plans were substantially higher than the earlier estimates-27 million workers nationally in 1972, for example, compared with the 11-million estimate previously used

Coverage under self-insured plans in temporary disability insurance jurisdictions was then subtracted from the United States total This step was accomplished primarily by using unpublished data on self-insurance provided by State agencies that administer the temporary disability insurance programs For the benchmark year of 1972, the revised estimate of the number of workers in private industry under self-insured sickness benefit plans in the voluntary sector was 17 million

Per capita premiums under self-insured plans were derived from data published by the HIAA Aggregate premiums for group cash sickness insurance were divided by the number of workers protected At the beginning of 1976, the HIAA revised downward the number of workers under these group plans for 1964-73, creating higher premium amounts per worker These premiums were then multiplied by the estimated number of workers under self-insured plans in jurisdictions without compulsory temporary disability insurance to produce the revised dollar amount for 1964-73 shown under voluntary provisions in table 3 Corresponding benefit estimates in the table were compiled by applying group insurance loss ratios to the premium totals, after applying a factor developed earlier to convert the ratios to self-insurance