ACTUARIAL NOTE

NUMBER 74 MARCH 1971

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE SOCIAL SECURITY ADMINISTRATION

COMPARISON OF ACTUAL EXPERIENCE UNDER OASDHI SYSTEM WITH SHORT-RANGE COST ESTIMATES

by Margaret A. Lannen
Office of the Actuary

This is the tenth in a series of notes comparing actual experience under the Old-Age, Survivors, Disability, and Health Insurance system with the short-range cost estimates (for both fiscal and calendar years), which are contained in the annual Trustees Reports. These short-range estimates are based on the assumptions that no legislative changes will be made in the period under consideration and that economic activity will expand, with increases occurring in employment and in earning rates. Therefore, it should be recognized that these estimates may vary from actual experience to some extent, because of changing economic conditions. Statutory changes, changes in reporting and appropriating procedures, and over- or underappropriation of taxes to the trust funds (which are adjusted subsequently) also may account for some of the differences between actual and estimated experience.

Table 1 presents a comparison of actual experience for fiscal year 1970 with the estimates shown in the 1970 Trustees Reports. For the OASI Trust Fund, the estimates of the income items were \$216 million lower than the actual experience, and the estimates of the outgo items were slightly higher than the actual experience (by \$54 million), with the result that the estimated fund at the end of the fiscal year was \$269 million lower than the actual fund. For the DI Trust Fund, a similar situation is shown; income was \$35 million higher than the estimate, and outgo was \$39 million lower than the estimate, so that the fund at the end of the fiscal year was \$75 million higher than the estimate.

For the HI Trust Fund, income was only \$33 million higher than the estimate, but outgo was \$369 million lower (primarily due to lower hospital costs and utilization than had been estimated), giving an actual balance in the fund at the end of the fiscal year that was \$402 million above the estimate. For the SMI Trust Fund, income was \$22 million higher than the estimate and outgo was \$31 million higher than estimated, so that the balance in the fund at the end of the fiscal year was \$9 million less than the estimate.

Table 2 presents a comparison of the balances in the trust funds at the end of fiscal years 1960-70 with the estimates made during each of the same years. In each year, the OASDI estimates have been very close to the actual experience, with the greatest variation being for fiscal year 1966—due to the actual income being so much higher than the estimate (largely because an Internal Revenue Service regulation went into effect that speeded up the collection of taxes). In the case of the HI Trust Fund, except for fiscal years 1966 and 1970, and in the case of the SMI Trust Fund, except for the first fiscal year of operations, the estimates have been significantly higher than the resulting actual experience. It would be expected that these estimates should be relatively close to the actual experience, since they are made in the middle of each fiscal year and thus project only about 6 months into the future.

Table 3 presents a comparison of actual experience for calendar year 1970 with the estimates shown in the 1970 Trustees Re-

ports. For the OASI Trust Fund, the estimates of the income items were \$384 million lower than the actual experience, and the estimates of the outgo items were lower than the actual experience by \$23 million. The assets at the end of the calendar year exceeded the estimate by \$361 million. For the DI Trust Fund, income was \$47 million higher than the estimate, and outgo was \$21 million lower than the estimate, so that the fund at the end of the calendar year was \$67 million higher than the estimate.

For the HI and SMI Trust Funds, no new estimates were made for calendar year 1970.

Table 4 presents a comparison of the balances in the trust funds at the end of calendar years 1960–70 with the estimates made at

about the beginning of each of the same years. In each year the estimates have been very close to the actual experience, with the greatest variation being for calendar year 1966. Since these estimates are generally made at the beginning of each calendar year. it is to be expected that there would be greater variation than in the fiscal-year comparison (where the estimates project only about 6 months into the future). The 1969 estimates, however, were prepared at the end of 1968, before actual data for 1969 were known. Therefore, the estimates differed from the actual amounts of the balances in the funds at the beginning of 1969, and these differences are necessarily reflected in the balances at the end of that year.

Table 1

COMPARISON OF PROGRESS OF OASDHI TRUST FUNDS
FISCAL YEAR 1970

	Amo Actual	unt (in millions) Estimate	Estimate as Percent of Actual		
	OASI Trust Fund				
Contributions* Benefit Payments Administrative Expenses Interest Income Transfer to Railroad Retirement Federal Payment for Special Benefits Payments for Vocational	\$30,033 26,267 474 1,350 579 364	\$29,852 26,357 495 1,315 523 364	99% 100 104 97 90 100		
Rehabilitation Services Fund at End of Year	$\frac{1}{32,616}$	32,347	99		
	DI Trust Fund	,			
Contributions* Benefit Payments Administrative Expenses Interest Income Transfer to Railroad Retirement Payments for Vocational	\$4,157 2,778 149 223 10	\$4,129 2,798 158 216 18	99% 101 106 97 180		
Rehabilitation Services Fund at End of Year	5,104	$\begin{smallmatrix} 19\\5,029\end{smallmatrix}$	$\begin{array}{c} 112 \\ 99 \end{array}$		
	HI Trust Fund				
Contributions* Benefit Payments Administrative Expenses Interest Income Transfer from Railroad Retirement Reimbursement for Uninsured Persons Fund at End of Year	\$4,796 4,804 149 139 61 617 2,677	\$4,769 5,175 147 131 63 617 2,275	99% 108 99 94 103 100 85		
SMI Trust Fund					
Premiums Government Contributions Benefit Payments Administrative Expenses Interest Income Fund at End of Year	\$936 928 1,979 217 12 57	\$922 928 1,949 216 4 66	99% 100 98 100 33 116		

^{*}Includes transfer from General Fund for military service credits (\$78 million to OASI, \$16 million to DI, and \$11 million to HI).

 $\begin{array}{ccc} \text{Table} & 2 \\ \\ \text{COMPARISON OF BALANCES IN FUND AT END OF} \\ \text{FISCAL YEAR, 1960--70} \end{array}$

Fiscal Year	Actual Actual	nount (in millions) Estimate	Estimate as Percent of Actual	
		OASI Trust Fund		
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970	\$20,829 20,900 19,626 18,939 19,699 20,180 19,872 23,515 25,533 28,191 32,616	\$20,524 20,772 19,825 18,889 19,426 19,922 18,748 23,071 25,870 28,734 32,347	98.5% 99.4 101.0 99.7 98.6 98.7 94.3 98.1 101.3 101.9 99.2	
		DI Trust Fund		
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970	\$ 2,167 2,504 2,507 2,394 2,264 2,007 1,686 2,022 2,585 3,678 5,104	\$ 2,167 2,486 2,544 2,401 2,247 1,968 1,591 2,012 2,592 3,740 5,029 HI Trust Fund	100.0% 99.3 101.5 100.3 99.2 98.1 94.4 99.5 100.3 101.7 98.5	
1966	\$ 851	\$ 797	93.7%	
1967 1968 1969 1970	1,343 1,431 2,017 2,677	1,444 2,168 2,328 2,275	107.5 151.5 115.4 85.0	
SMI Trust Fund				
1967 1968 1969 1970	\$ 486 307 377 57	$egin{array}{cccc} \$ & 260 & & & & & & & & & & & & & & & & & & &$	53.5% 113.4 112.5 115.8	

 $\begin{array}{cccc} \textbf{Table} & \textbf{3} \\ \textbf{COMPARISON OF PROGRESS OF OASDHI TRUST FUNDS,} \\ \textbf{CALENDAR YEAR 1970} \end{array}$

	Amount (in millions)		Estimate
Item	Actual	Estimate	as Percent of Actual
	OASI Trust Fund		
Contributions 1	\$30,334	\$30,069	99%
Benefit Payments	28,796	28,799	100
Administrative Expenses	471	503	107
Interest Income	1,515	1,396	92
Transfer to Railroad Retirement	579	523	90
Federal Payment for Special Benefits	371	371	100
Payments for Vocational			
Rehabilitation Services	2	_	
Fund at End of Year	32,454	32,093	99
	DI Trust Fund		
Contributions 1	\$4,497	\$4,468	99%
Benefit Payments	3,067	3,072	100
Administrative Expenses	163	169	104
Interest Income	277	259	94
Transfer to Railroad Retirement	10	18	180
Payments for Vocational			
Rehabilitation Services	19	21	111
Fund at End of Year	5,614	5,547	99
	HI Trust Fund		
Contributions 2	\$4,955	8	
Benefit Payments	5,124	3	
Adminstrative Expenses	157	3	
Interest Income	161	3	_
Reimbursement for Uninsured Persons	863	3	
Fund at End of Year	3,202	8	_
	SMI Trust Fund		
Premiums	\$1,096	3	_
Government Contributions	1,093	8	_
Benefit Payments	1,975	8	_
Administrative Expenses	238	8	
Interest Income	12	3	_
Fund at End of Year	188	3	

¹ Includes transfer from General Fund for military service credits (\$78 million to OASI and \$16 million to DI).

² Includes transfers of \$11 million for military service credits from the General Fund and \$63 million from the Railroad Retirement Account.

³ No comparable estimates were published in the 1970 Trustees Reports for the HI Trust Fund or for the SMI Trust Fund for calendar year 1970.

Table 4

COMPARISON OF BALANCES IN FUND AT END OF CALENDAR YEAR, 1960-70

Calendar		Amount (in millions)	Estimate as Percent
Year	Actual	Estimate	of Actual
	 		
		OASI Trust Fund	
1960	\$20,324	\$20,203	99.4%
1961	19,725	20,001	101.4
1962	18,337	18,713	102.1
1963	18,480	18,426	99.7
1964	19,125	18,615	97.3
1965	18,235	17,936	98.4
1966	20,570	18,787	91.3
1967	24,222	24,005	99.1
1968	25,704	25,639	99.7
196 9	30,082	30,497	101.4
1970	32,454	32,093	98.9
		DI Trust Fund	
1960	\$ 2,289	\$ 2,303	100.6%
1961	2,437	2,494	102.3
1962	2,368	2,466	104.1
1963	2,235	2,232	99.9
1964	2,047	2,038	99. 6
1965	1,606	1,576	98.1
1966	1,739	1,617	93.0
1967	2,029	2,070	102.0
1968	3,025	2,907	96. 1
1969	4,100	4,161	101.5
1970	5,614	5,547	98.8
		HI Trust Fund	
1966	\$ 944	\$ 618	65.5%
1967	1,073	*	*
1968	2,083	*	*
1969	2,505	2,663	106.3
1970	3,202	*	•
		SMI Trust Fund	
1966	\$ 122	\$ 223	182.8%
1967	412	288	69.9
1968	421	337	80.0
1969	199	•	*
1970	188	*	*

^{*}No comparable estimates were published in the 1970 Trustees Reports for the HI Trust Fund for calendar years 1967, 1968, and 1970 or for the SMI Trust Fund for calendar years 1969 and 1970.

Note: Estimate for 1961 contained in actuarial cost report dated July 10, 1961; estimate for 1965 contained in actuarial cost report dated July 30, 1965; estimates for other years contained in annual Trustees Reports.