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**1980 ANNUAL REPORT
THE FEDERAL SUPPLEMENTARY MEDICAL
INSURANCE TRUST FUND**

COMMUNICATION

FROM

**THE BOARD OF TRUSTEES, FEDERAL
SUPPLEMENTARY MEDICAL INSURANCE
TRUST FUND**

TRANSMITTING

**THE 1980 ANNUAL REPORT OF THE BOARD, PURSUANT TO
SECTION 1841(b) OF THE SOCIAL SECURITY ACT, AS AMENDED**

LETTER OF TRANSMITTAL

BOARD OF TRUSTEES OF THE
FEDERAL SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND

Washington, D.C, June 17, 1980.

THE SPEAKER OF THE HOUSE OF REPRESENTATIVES,
Washington, D.C.

SIR: We have the honor to transmit to you the 1980 Annual Report of the Board of Trustees of the Federal Supplementary Medical Insurance Trust Fund (the 15th such report), in compliance with the provisions of Section 1841(b) of the Social Security Act.

Respectfully,

G. WILLIAM MILLER,
*Secretary of the Treasury,
and Managing Trustee of the Trust Fund.*

RAY MARSHALL,
Secretary of Labor.

PATRICIA ROBERTS HARRIS,
Secretary of Health and Human Services.

EARL M. COLLIER, JR.,
*Acting Administrator of the Health Care
Financing Administration, and Secretary, Board of Trustees*

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1980 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND

THE BOARD OF TRUSTEES

The Federal Supplementary Medical Insurance Trust Fund, established on July 30, 1965, is held by the Board of Trustees under the authority of section 1841(b) of the Social Security Act, as amended. The Board is comprised of three members who serve in an ex officio capacity. The members of the Board are the Secretary of the Treasury, the Secretary of Labor, and the Secretary of Health and Human Services (formerly Health, Education, and Welfare). The Secretary of the Treasury is designated by law as the Managing Trustee. The Administrator of the Health Care Financing Administration is Secretary of the Board. The Board of Trustees reports to the Congress once each year in compliance with section 1841(b)(2) of the Social Security Act. This is the 1980 annual report, the fifteenth such report.

ADVISORY COUNCIL ON SOCIAL SECURITY

On December 7, 1979, the Advisory Council on Social Security submitted its reports. The council had no specific recommendations with regard to the supplementary medical insurance program. It did, however, recommend that a new council be established to review the Medicare and Medicaid programs.

HIGHLIGHTS

(a) Disbursements of the supplementary medical insurance trust fund increased 20 percent in fiscal year 1979 over 1978. Most of this increase resulted from higher physician fees recognized by the program and the use of more physician services by program enrollees.

(b) Income to the trust fund increased 9 percent in fiscal year 1979 over 1978. This resulted from increased adequate actuarial rates which determine the general revenue contribution and from increased enrollment in the program.

(c) The trust fund increased \$1,025 million to \$4,994 million during 1979.

(d) In December of 1979, the Secretary of the Health, Education, and Welfare promulgated a standard monthly premium rate of \$9.60 and adequate actuarial rates of \$16.30 for the aged enrollees and \$25.50 for the disabled enrollees for the 12-month period ending June 30, 1981.

(e) An average of 23.8 million persons aged 65 and over were enrolled in the program in fiscal year 1979. This is about 95 percent of the aged population. An additional 2.7 million disabled beneficiaries were enrolled in the same period.

SOCIAL SECURITY AMENDMENTS SINCE THE 1979 TRUSTEES REPORT

Public Law 96-265, which was enacted on June 9, 1980, amends the Medicare law to permit an individual who becomes reentitled to cash disability benefits within a 5-year period (7 years for adult disabled

children, widows, and widowers) to have previous months of disability benefit entitlement counted toward his or her 24-month Medicare waiting period. Another provision would extend the trial work period for 12 months and Medicare entitlement for 24 months (for a total of an additional 36 months over present law) for those individuals who have not medically recovered. Both provisions become effective 6 months after enactment.

A third provision of the law is intended to help resolve the problem of abuses in the sale of private insurance to supplement Medicare—"Medigap" policies. This provision would: (1) establish, by July 1, 1982, a voluntary program whereby the Department of Health and Human Services would certify Medicare supplemental health insurance policies which meet certain minimum standards; (2) require the Secretary to make information available to persons entitled to Medicare to help them evaluate such policies; (3) provide increased penalties for insurers and their agents for misrepresentation; and (4) require the Secretary to study Medigap issues.

NATURE OF THE TRUST FUND

The Federal Supplementary Medical Insurance Trust Fund was established on July 30, 1965, as a separate account in the United States Treasury. All the financial operations of the supplementary medical insurance program are handled through this fund.

The major sources of receipts of the trust fund are (1) premiums paid by eligible persons who are voluntarily enrolled in the program and (2) contributions of the Federal Government that are authorized to be appropriated and transferred from the general fund of the Treasury. Eligible persons aged 65 and over have been able to enroll in the program since its inception in July 1966. Since July 1973, disabled persons under age 65, who meet certain eligibility requirements, have also been able to enroll in the program.

The premiums paid by participants are based on the standard monthly premium rate, which is the same for participants aged 65 and over and for disabled participants under age 65. Premiums paid for fiscal years 1967 through 1973 were matched by an equal amount of Government contributions. Beginning July 1973, the amount of Government contributions corresponding to premiums paid by each of the two groups of participants is determined by applying a ratio, prescribed in the law for each group, to the amount of premiums received from that group of participants. The ratio is equal to (1) twice the amount of the adequate actuarial rate applicable to the particular group of participants, minus the amount of the standard monthly premium rate, divided by (2) the amount of the standard monthly premium rate.

Standard monthly premium rates and adequate actuarial rates are promulgated each year by the Secretary of Health and Human Services. The standard monthly premium rates in effect from the beginning of the program, July 1966 through June 1980, and the rate promulgated for July 1980 through June 1981, are shown in table 1. Adequate actuarial rates in effect from July 1973 through June 1980, and the rates promulgated for July 1980 through June 1981, are also shown.

TABLE 1.—STANDARD MONTHLY PREMIUM RATES, ACTUARIAL RATES, AND MATCHING RATIOS

	Standard monthly premium rate	Adequate actuarial rate	
		Participants aged 65 and over	Disabled participants under age 65
July 1966 - March 1968	\$3.00		
April 1968 - June 1970	4.00		
12-month period ending June 30 of —			
1971	5.30		
1972	5.60		
1973	5.80		
1974 ¹	6.30	\$6.30	\$14.50
1975	6.70	6.70	18.00
1976	6.70	7.50	18.50
1977	7.20	10.70	19.00
1978	7.70	12.30	25.00
1979	8.20	13.40	25.00
1980	8.70	13.40	25.00
1981	9.60	16.30	25.50

¹In accordance with limitations on the costs of health care imposed under phase III of the Economic Stabilization program, the standard premium rate for July and August 1973 was set at \$5.80 and \$6.10, respectively. Effective September 1973, the rate increased to \$6.30.

Another source from which receipts of the trust fund are derived is interest received on investments held by the fund. The investment procedures of the fund are described later in this section.

Section 201(i) of the Social Security Act authorizes the Managing Trustee to accept and deposit in the trust fund unconditional money gifts or bequests made for the benefit of the fund or for any activity financed through the fund.

Expenditures for benefit payments and administrative expenses under the program are paid out of the trust fund. All expenses incurred by the Department of Health and Human Services and by the Department of the Treasury in carrying out the supplementary medical insurance provisions of title XVIII of the Social Security Act are charged to the trust fund. The Secretary of Health and Human Services certifies benefit payments to the Managing Trustee, who makes the payments from the trust fund in accordance therewith.

Hospitals, at their option, are permitted to combine their billing for both hospital costs and physician components of radiology and pathology services rendered hospital inpatients by hospital-based physicians. Where hospitals elect this billing procedure, payments are made initially from the hospital insurance trust fund, with reimbursement later to it from the supplementary medical insurance trust fund. The reimbursements so made are on a provisional basis and are subject to adjustment, with appropriate interest allowances, as the actual experience develops and is analyzed.

The Social Security Amendments of 1967 and 1972 authorize the Secretary of Health and Human Services to develop and conduct a broad range of experiments and demonstration projects designed to determine various methods of increasing efficiency and economy in providing health care services, while maintaining the quality of such services, under the hospital insurance and supplementary medical insurance programs. A sizeable portion of such costs of such experiments and demonstration projects are paid out of the hospital insurance and

supplementary medical insurance trust funds, with the remainder funded through general revenues.

Congress has authorized expenditures from the trust funds for construction, rental, and lease or purchase contracts of office buildings and related facilities for use in connection with the supplementary medical insurance program. Both the capital costs of construction financed directly from the trust fund and the rental, lease, or purchase contract costs of acquiring facilities are included in trust fund expenditures. In 1972-75, construction of several large facilities was authorized under purchase contract authority, wherein initial capital costs were borne by the private sector. Under this method of facilities acquisition, trust fund expenditures for use and ultimate Government ownership of a facility are made over periods of from 10 to 30 years. Whatever the manner of acquisition, the net worth of facilities and other fixed capital assets is not carried in the statement of the assets of the trust fund presented in this report. This is because the value of fixed capital assets does not represent funds available for benefit or administrative expenditures and, therefore, is not viewed as being a consideration in assessing the actuarial status of the funds.

That portion of the trust fund which, in the judgment of the Managing Trustee, is not required to meet current expenditures for benefits and administration is invested in interest-bearing obligations of the U.S. Government (including special public-debt obligations described below), in obligations guaranteed as to both principal and interest by the United States, or in certain federally sponsored agency obligations that are designated in the laws authorizing their issuance as lawful investments for fiduciary and trust funds under the control and authority of the United States or any officer of the United States. Obligations of these types may be acquired on original issue at the issue price or by purchase of outstanding obligations at their market price.

The Social Security Act authorizes the issuance of special public-debt obligations for purchase exclusively by the trust fund. The law requires that such special public-debt obligations shall bear interest at a rate based on the average market yield (computed on the basis of market quotations as of the end of the calendar month next preceding the date of such issue) on all marketable interest-bearing obligations of the United States forming a part of the public debt which are not due or callable until after the expiration of 4 years from the end of such calendar month.

SUMMARY OF THE OPERATIONS OF THE TRUST FUND, FISCAL YEAR 1979

A statement of the income and disbursements of the Federal Supplementary Medical Insurance Trust Fund in fiscal year 1979 and of the assets of the fund at the beginning and end of the fiscal year is presented in table 2. Comparable amounts for fiscal year 1978 are also shown in the table.

TABLE 2.—STATEMENT OF OPERATIONS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND DURING FISCAL YEARS 1978 AND 1979

[In thousands]		
	Fiscal year 1978	Fiscal year 1979
Total assets of the trust fund, beginning of period	\$2,279,426	\$3,968,425
Receipts:		
Premiums from participants:		
Participants aged 65 and over	2,186,489	2,372,679
Disabled participants under age 65	244,644	262,813
Total premiums	2,431,133	2,635,492
Transfers from general fund of the Treasury:		
Government contributions:		
For premiums received from participants aged 65 and over	4,964,795	5,459,406
For premiums received from disabled participants under age 65	1,397,708	1,368,383
Total Government contributions	6,362,503	6,827,790
Interest on delayed transfers of Government contributions	23,000	12,995
Total transfers from general fund of the Treasury	6,385,503	6,840,785
Interest		
Interest on Investments	229,065	362,357
Interest on amounts of interfund transfers due to adjustment in allocation of administrative expenses and construction costs ¹	-217	431
Total interest	228,848	362,787
Total receipts	9,045,484	9,839,064
Disbursements:		
Benefit payments		
Paid directly from the trust fund for costs of health services	6,844,630	8,250,653
Transfers to the hospital insurance trust fund for reimbursement of interest loss related to transfer payments made in conjunction with the costs of radiology and pathology services ²	6,000	6,000
Total benefit payments	6,850,630	8,256,653
Costs of experiments and demonstration projects ²	1,622	2,423
Administrative expenses:		
Department of Health, Education and Welfare ³	496,724	549,768
Treasury Department	33	67
Railroad Retirement Board	743	1,796
Office of Personnel Management	76	62
Construction of facilities	2,782	196
Interfund transfers due to adjustment in allocation of— Administrative expenses ⁴	3,850	2,983
Construction costs ⁴	32	-367
Gross administrative expenses	504,240	554,504
Less receipts from sale of surplus supplies, materials, etc.	6	5
Net administrative expenses	504,234	554,499
Total disbursements	7,356,486	8,813,575
Net addition to the trust fund	1,688,999	1,025,489
Total assets of the trust fund, end of year	\$3,968,425	\$4,993,913

¹A positive figure represents a transfer of interest to the supplementary medical insurance trust fund from the other trust funds. A negative figure represents a transfer of interest from the supplementary medical insurance trust fund to the other trust funds.

²For explanation, see text.

³Includes administrative expenses of the carriers and intermediaries.

⁴A positive figure represents a transfer from the supplementary medical insurance trust fund to the other trust funds. A negative figure represents a transfer to the supplementary medical insurance trust fund from the other trust funds.

NOTE: Totals do not necessarily equal the sum of rounded components.

The total assets of the trust fund amounted to \$3,968 million on September 30, 1978. During fiscal year 1979, total receipts amounted to \$9,839 million, and total disbursements were \$8,814 million. Total assets

thus increased \$1,025 million during the year to a total of \$4,994 million on September 30, 1979.

Of the total receipts, \$2,373 million represented premium payments by (or on behalf of) participants aged 65 and over, and \$26.3 million represented premium payments by (or on behalf of) disabled participants under age 65. Total premium payments amounted to \$2,635 million, an increase of 8.4 percent over the amount of \$2,431 million for the preceding year. This increase in premiums from participants resulted primarily from (1) the expected growth in the number of persons enrolled in the supplementary medical insurance program, and (2) the increase from \$7.70 to \$8.20 per month in the standard premium rate that became effective on July 1, 1978, and the increase from \$8.20 to \$8.70 per month in the standard premium rate that became effective on July 1, 1979.

Contributions received from the general fund of the treasury amounted to \$6,841 million. This amount consisted of \$5,459 million representing contributions relating to premiums paid by participants aged 65 and over, \$1,368 million representing contributions relating to the premiums paid by disabled participants under age 65, and \$13 million in interest on delayed transfers of Government contributions.

The remaining \$363 million of receipts consisted almost entirely of interest on the investments of the trust fund.

Of the \$8,814 million in total disbursements, \$8,251 million represented benefits paid directly from the trust fund for health services covered under Title XVIII of the Social Security Act. In addition, transfers were made to the hospital insurance trust fund consisting of \$6 million to adjust for the loss of interest caused by the delay in transferring payments for the costs of radiology and pathology services that were paid initially from the hospital insurance trust fund but that were liabilities of the supplementary medical insurance trust fund. Total benefit payments from the trust fund in fiscal year 1979, therefore, amounted to \$8,257 million, an increase of 20.5 percent over the corresponding amount of \$6,851 million paid in the preceding year. An additional \$2 million in disbursements constituted payment for costs of experiments and demonstration projects in providing health care services.

The remaining \$554 million of disbursements was for net administrative expenses. Administrative expenses are allocated and charged directly to each of the four trust funds—old-age and survivors insurance, disability insurance, hospital insurance, and supplementary medical insurance—on the basis of provisional estimates. Similarly, the expenses of administering other programs of the Health Care Financing Administration are also allocated and charged directly to the general fund of the Treasury on a provisional basis. Periodically, as actual experience develops and is analyzed, adjustments to the allocations of administrative expenses and costs of construction for prior periods are affected by interfund transfers, including transfers between the hospital insurance and supplementary medical insurance trust funds and the program management general fund account, with appropriate interest allowances.

In table 3, the experience with respect to actual amounts of participants' premiums, Government contributions, and benefit payments in

fiscal year 1979 is compared with the estimates for fiscal year 1979 which appeared in the 1978 and 1979 annual reports. The actual experience was relatively close to the estimates for premiums, Government contributions, and benefit payments.

TABLE 3.—COMPARISON OF ACTUAL AND ESTIMATED OPERATIONS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND, FISCAL YEAR 1979

[Dollar amounts in millions]

Item	Actual amount	Comparison of actual experience with estimates for fiscal year 1979 published in -			
		1979 report		1978 report	
		Estimated amount	Actual as percentage of estimate	Estimated amount	Actual as percentage of estimate
Premiums from Participants	\$2,635	\$2,650	99	\$2,631	100
Government Contributions	6,841	6,748	101	6,853	100
Benefit Payments	8,259	8,193	101	8,411	98

The assets of the trust fund at the end of fiscal year 1978 totaled \$3,968 million, consisting of \$4,021 million in the form of obligations of the U.S. Government and, as an offset, an extension of credit of \$52 million against securities to be redeemed. This was covered by the redemption of securities on October 1, 1978. The assets of the trust fund at the end of fiscal year 1979 totaled \$4,994 million, consisting of \$4,974 million in the form of obligations of the U.S. Government and an undisbursed balance of \$20 million. Table 4 shows a comparison of the total assets of the fund and their distribution at the end of fiscal year 1978 and at the end of fiscal year 1979. A comparison of assets of the trust fund with liabilities for incurred but unpaid benefits (and related administrative expenses) is shown in a later section.

TABLE 4.—ASSETS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND AT THE END OF FISCAL YEARS 1978 AND 1979¹

	Sept. 30, 1978	Sept. 30, 1979
Investments in public-debt obligations sold only to this fund (special issues):		
Certificates of Indebtedness:		
8½ percent, 1980	\$32,245,000.00	-----
8½ percent, 1980	435,330,000.00	-----
8½ percent, 1980	-----	\$162,278,000.00
9 percent, 1980	-----	110,722,000.00
Notes: 6½ percent, 1980	199,029,000.00	-----
Bonds:		
7½ percent, 1981	56,246,000.00	56,246,000.00
7½ percent, 1982	56,245,000.00	56,245,000.00
7½ percent, 1983	56,245,000.00	56,245,000.00
7½ percent, 1984	56,245,000.00	56,245,000.00
7½ percent, 1985	56,245,000.00	56,245,000.00
7½ percent, 1986	56,245,000.00	56,245,000.00
7½ percent, 1987	56,245,000.00	56,245,000.00
7½ percent, 1988	56,245,000.00	56,245,000.00
7½ percent, 1989	56,245,000.00	56,245,000.00
7½ percent, 1990	56,246,000.00	56,246,000.00
7½ percent, 1991	56,246,000.00	56,246,000.00
7½ percent, 1992	137,816,000.00	137,816,000.00
7½ percent, 1981	11,547,000.00	11,547,000.00
7½ percent, 1982	11,547,000.00	11,547,000.00
7½ percent, 1983	11,546,000.00	11,546,000.00
7½ percent, 1984	11,546,000.00	11,546,000.00
7½ percent, 1985	11,546,000.00	11,546,000.00
7½ percent, 1986	11,547,000.00	11,547,000.00

TABLE 4.—ASSETS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND AT THE END OF FISCAL YEARS 1978 AND 1979¹

	Sept. 30, 1978	Sept.30, 1979
7½ percent, 1987	11,547,000.00	11,547,000.00
7½ percent, 1988	11,547,000.00	11,547,000.00
7½ percent, 1989	11,547,000.00	11,547,000.00
7½ percent, 1990	73,510,000.00	73,510,000.00
7½ percent, 1981	8,060,000.00	8,060,000.00
7½ percent, 1982	8,060,000.00	8,060,000.00
7½ percent, 1983	8,061,000.00	8,061,000.00
7½ percent, 1984	8,061,000.00	8,061,000.00
7½ percent, 1985	8,061,000.00	8,061,000.00
7½ percent, 1986	8,061,000.00	8,061,000.00
7½ percent, 1987	8,061,000.00	8,061,000.00
7½ percent, 1988	8,061,000.00	8,061,000.00
7½ percent, 1989	8,061,000.00	8,061,000.00
7½ percent, 1990	8,060,000.00	8,060,000.00
7½ percent, 1991	81,570,000.00	81,570,000.00
7½ percent, 1981	61,964,000.00	61,964,000.00
7½ percent, 1982	61,964,000.00	61,964,000.00
7½ percent, 1983	61,964,000.00	61,964,000.00
7½ percent, 1984	61,964,000.00	61,964,000.00
7½ percent, 1985	61,964,000.00	61,964,000.00
7½ percent, 1986	61,963,000.00	61,963,000.00
7½ percent, 1987	61,963,000.00	61,963,000.00
7½ percent, 1988	61,963,000.00	61,963,000.00
7½ percent, 1989	61,963,000.00	61,963,000.00
8¼ percent, 1988	54,766,000.00	
8¼ percent, 1981	115,977,000.00	115,977,000.00
8¼ percent, 1982	115,978,000.00	115,978,000.00
8¼ percent, 1983	115,978,000.00	115,978,000.00
8¼ percent, 1984	115,978,000.00	115,978,000.00
8¼ percent, 1985	115,978,000.00	115,978,000.00
8¼ percent, 1986	115,978,000.00	115,978,000.00
8¼ percent, 1987	115,978,000.00	115,978,000.00
8¼ percent, 1988	115,978,000.00	115,978,000.00
8¼ percent, 1989	115,978,000.00	115,978,000.00
8¼ percent, 1990	115,978,000.00	115,978,000.00
8¼ percent, 1991	115,978,000.00	115,978,000.00
8¼ percent, 1992	115,978,000.00	115,978,000.00
8¼ percent, 1993	253,794,000.00	253,794,000.00
8¼ percent, 1980		126,825,000.00
8¼ percent, 1981		72,935,000.00
8¼ percent, 1982		72,935,000.00
8¼ percent, 1983		72,935,000.00
8¼ percent, 1984		72,935,000.00
8¼ percent, 1985		72,935,000.00
8¼ percent, 1986		72,934,000.00
8¼ percent, 1987		72,934,000.00
8¼ percent, 1988		72,934,000.00
8¼ percent, 1989		72,934,000.00
8¼ percent, 1990		72,934,000.00
8¼ percent, 1991		72,934,000.00
8¼ percent, 1992		72,934,000.00
8¼ percent, 1993		72,934,000.00
8¼ percent, 1994		326,728,000.00
Total investments in public-debt obligations	4,020,692,000.00	4,974,022,000.00
Undisbursed balance	² -52,267,282.28	19,891,272.88
Total assets	3,968,424,717.72	4,993,913,272.88

¹The assets are carried at par value, which is the same as book value.

²The negative figure represented an extension of credit which was covered by redemptions of securities on the first day of the following month.

The net increase in the par value of the investments owned by the fund during fiscal year 1978 amounted to \$1,789 million. New securities at a total par value of \$10,889 million were acquired during the fiscal year through the investment of receipts and reinvestments of funds made available from the redemption of securities. The par value of securities redeemed during the year was \$9,100 million. Included in these amounts is \$8,915 million in certificates of indebtedness that were acquired, and \$8,487 million in certificates of indebtedness that were redeemed, within the fiscal year.

The net increase in the par value of the investments held by the fund during fiscal year 1979 amounted to \$953 million. New securities at a total par value of \$11,190 million were acquired the fiscal year through the investment of receipts and reinvestment of funds made available from the redemption of securities. The par value of securities redeemed during the year was \$10,237 million. Included in these amounts is \$9,788 million in certificates of indebtedness that were acquired, and \$9,983 million in certificates of indebtedness that were redeemed, within the fiscal year.

The effective annual rate of interest earned by the assets of the supplementary medical insurance trust fund during the 12 months ending on June 30, 1979 was 8.2 percent. (This period is used because interest on special issues is paid semiannually on June 30 and December 31.) The interest rate on special issues purchased by the trust fund in June 1979 was 8 percent, payable semiannually.

EXPECTED OPERATIONS AND STATUS OF THE TRUST FUND DURING THE PERIOD OCTOBER 1, 1979 TO DECEMBER 31, 1982

Financing for the supplementary medical insurance program is established annually on the basis of standard monthly premium rates (paid by or on behalf of the participants) and adequate actuarial rates (on which general revenue contributions are based) which are applicable to a period of July 1 through the following June 30. In recent years, allowable fee limits for physician services have also been established to apply to the same July 1 to June 30 period.

Standard premium rates and adequate actuarial rates have been promulgated for periods through June 30, 1981. It has been assumed in this report that financing after that time will be established to cover the incurred expenses of the program.

The projections assume that allowable fees for physician services will increase an average of 7.9 percent for the 12-month period ending June 30, 1980 and will increase an average of 10.9 percent for the 12-month period ending June 30, 1981. The costs per enrollee for institutional and other services under Part B are projected to increase 21 percent for the 12-month period ending June 30, 1980 over the previous 12 months and an additional 15 percent for the 12-month period ending June 30, 1981.

Table 5 shows the projected operations of the trust fund on a fiscal year basis through fiscal year 1982. Table 6 shows the corresponding development on a calendar year basis. The trust fund increased substantially in fiscal year 1979 due primarily to the fact that actual expenditures were less than anticipated at the time the financing for this period was established. The adequate rates for the 12-month period ending June 30, 1980 were maintained at the same level as the preceding 12-month period in order to slow the rate of increase in the fund. However the current estimate for expenditures exceeds the projection at the time of the promulgation, and as a result the fund is projected to decrease slightly to \$4,885 million by the end of fiscal year 1980. The adequate rates for the 12-month period ending June 30, 1981 were promulgated with specific margins to maintain an adequate level in the

trust funds. As a result the fund is projected to increase slightly to \$4,982 million by the end of fiscal year 1981.

TABLE 5.—ESTIMATED PROGRESS OF SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND (CASH BASIS) FISCAL YEARS 1980-1982 AND ACTUAL DATA FOR 1967-1979

[In millions]								
Fiscal Year	Income				Disbursements			Balance in fund at end of year ²
	Premiums from participants	Government contributions ¹	Interest on fund	Total Income	Benefit payments	Administrative expenses	Total disbursements	
Historical Data:								
1967	\$647	\$623	\$15	\$1,285	\$664	³ \$135	\$799	\$486
1968	698	634	21	1,353	1,390	142	1,532	307
1969	903	984	24	1,911	1,645	195	1,840	378
1970	936	928	12	1,876	1,979	217	2,196	57
1971	1,253	1,245	18	2,516	2,035	248	2,283	290
1972	1,340	1,365	29	2,734	2,255	289	2,544	481
1973	1,427	1,430	45	2,902	2,391	246	2,637	746
1974	1,704	2,029	76	3,809	2,874	409	3,283	1,272
1975	1,887	2,330	105	4,322	3,765	405	4,170	1,424
1976	1,951	2,939	104	4,994	4,672	528	5,200	1,219
Interim ⁴	539	878	4	1,421	1,269	132	1,401	1,239
1977 ⁵	2,193	5,053	137	7,383	5,867	475	6,342	2,279
1978 ⁵	2,431	6,386	228	9,045	6,852	504	7,356	3,968
1979 ⁵	2,635	6,841	363	9,839	8,259	555	8,814	4,994
Projected:								
1980 ⁵	2,912	7,046	399	10,357	9,767	699	10,466	4,885
1981 ⁵	3,321	8,737	395	12,453	11,609	747	12,356	4,982
1982 ⁵	3,858	10,985	432	15,275	13,879	718	14,597	5,660

¹ The payments shown as being from the general fund of the Treasury include certain interest-adjustment items.

² The financial status of the program depends on both the total net assets and the liabilities of the program (See Table 8).

³ Administrative expenses shown include those paid in FY 1966 and 1967.

⁴ Interim Period is the period from July 1, 1976 to September 30, 1976.

⁵ Beginning with fiscal year 1977 the fiscal year is the 12-mo period ending with Sept. 30 of the year indicated.

TABLE 6.— ESTIMATED PROGRESS OF SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND (CASH BASIS) CALENDAR YEARS 1980-1982 AND ACTUAL DATA FOR 1966-1979

[In millions]								
Calendar Year	Income				Disbursements			Balance in fund at end of year ²
	Premium from participants	Government contributions ¹	Interest on Fund	Total Income	Benefit payments	Administrative expenses	Total disbursements	
Historical Data:								
1966	\$322	\$0	\$2	\$324	\$128	\$75	\$203	\$122
1967	640	933	24	1,597	1,197	110	1,307	412
1968	832	858	21	1,711	1,518	184	1,702	421
1969	914	907	18	1,839	1,865	196	2,061	199
1970	1,096	1,093	12	2,201	1,975	237	2,212	188
1971	1,302	1,313	24	2,639	2,117	260	2,377	450
1972	1,382	1,389	37	2,808	2,325	289	2,614	643
1973	1,550	1,705	57	3,312	2,526	318	2,844	1,111
1974	1,804	2,225	95	4,124	3,318	410	3,728	1,506
1975	1,918	2,648	107	4,673	4,273	462	4,735	1,444
1976	2,060	3,810	107	5,977	5,080	542	5,622	1,799
1977	2,247	5,386	172	7,805	6,038	467	6,505	3,099
1978	2,470	6,287	299	9,056	7,252	503	7,755	4,400
1979	2,719	6,645	404	9,768	8,708	557	9,265	4,902
Projected:								
1980	3,002	7,440	397	10,839	10,221	711	10,932	4,809
1981	3,458	9,404	414	13,276	12,199	740	12,939	5,146
1982	3,983	11,411	465	15,859	14,514	733	15,247	5,758

¹ The payments shown as being from the general fund of the Treasury include certain interest-adjustment items.

² The financial status of the program depends on both the total net assets and the liabilities of the program (See Table 8).

ACTUARIAL STATUS OF THE TRUST FUND

1. ACTUARIAL SOUNDNESS OF THE SUPPLEMENTARY MEDICAL INSURANCE PROGRAM

The concept of actuarial soundness, as it applied to the supplementary medical insurance program, is closely related to the concept as it applies to private group insurance. The supplementary medical insurance program essentially is yearly renewable term insurance intended to be self-supporting from premium income paid by the enrollees and from income contributed from general revenue in proportion to premium payments. The law requires the Secretary of Health and Human Services to establish income on the basis of incurred costs. That is, the income to the program during a 12-month period for which financing is being established must be sufficient to pay for services (including associated administrative costs) expected to be rendered during that period even though payments for some of these services will not be made until after the close of the period. The portion of income required to cover those benefits not paid until after the close of the year is added to the trust fund until needed. Thus, the amount of assets in the trust fund at any time should be no less than the costs of the benefits and administration incurred but not yet paid. Since the income per enrollee (premium plus government contribution rate) is established prospectively, it is subject to projection error. As a result, the income to the program may not be equal to incurred cost; therefore trust fund assets should be maintained at a level which is adequate to cover the impact of a moderate degree of projection error as well as the value of incurred but unpaid expenses.

In testing the actuarial soundness of the supplementary medical insurance program, it is not appropriate to look beyond the period for which the enrollee premium rate and level of general revenue financing have been established. The primary tests of actuarial soundness, then, are that (1) income for years for which financing has been established be sufficient to meet the projected benefits and associated administrative expenses incurred for that period, (2) assets be sufficient to cover projected liabilities which will have been incurred by the end of that time but will not have been paid yet, and (3) assets be sufficient further to protect against the possibility that cost increases under the program will be somewhat higher than assumed in the projection. Even if these tests of actuarial soundness are not met, the program can continue to operate if the trust fund remains at a level adequate to permit the payment of claims as presented.

2. INCURRED EXPERIENCE OF THE SUPPLEMENTARY MEDICAL INSURANCE PROGRAM

The tests of actuarial soundness of the supplementary medical insurance program noted above rely on the incurred experience of the program. Cash disbursements for benefits and administrative expenses by themselves are misleading, due to the relatively large liabilities outstanding at any time for benefits and processing costs that must be

paid for services already performed. These liabilities result from the lag between the time that services are performed and the time that payments for them are made.

The experience of the program is substantially more difficult to determine on an incurred basis than on a cash basis. In the early months of program operations, it appears that some bills containing errors were never resubmitted following correction. Payment for some services is reported only on a cash basis, and the incurred experience must be inferred from the cash payment information. For recent time periods, the tabulations of bills are incomplete due to normal processing delays. Finally, since bills are tabulated only for a sample of beneficiaries, the data is subject to bias and random fluctuation inherent in the sampling process.

Table 7 shows the estimated transactions of the trust fund on an incurred basis. For the reasons stated above, the incurred experience must be viewed as an estimate even for historical years. Various checks, such as cash outlay data, assure that the estimates are reasonably close, however.

TABLE 7.—ESTIMATED INCOME AND DISBURSEMENTS INCURRED UNDER SUPPLEMENTARY MEDICAL INSURANCE PROGRAM, 12-MONTH PERIODS ENDING JUNE 30, 1967-1981

[In millions]

12-month period ending June 30,	Premiums from par- ticipants	Govern- ment Con- tributions	Interest on fund	Benefit payments	Adminis- trative expenses	Net opera- tions in year
Historical:						
1967.....	\$647	\$647	\$15	\$1,121	¹ \$190	-\$2
1968.....	698	698	21	1,446	149	-178
1969.....	903	903	23	1,768	210	-149
1970.....	936	936	12	1,931	212	-259
1971.....	1,253	1,253	17	2,091	255	177
1972.....	1,340	1,340	29	2,286	293	130
1973.....	1,427	1,426	45	2,501	257	140
1974.....	1,704	2,031	76	3,157	449	205
1975.....	1,887	2,395	108	3,923	421	46
1976.....	1,951	2,972	109	4,811	544	-323
1977.....	2,156	4,697	158	5,849	505	657
1978.....	2,358	5,991	247	7,009	506	1,081
1979.....	2,601	6,570	371	8,189	586	767
Projected:						
1980.....	2,821	6,630	408	9,759	691	-591
1981.....	3,183	8,250	395	11,549	766	-487

¹ Includes administrative expenses incurred prior to the beginning of the program.

3. ACCUMULATED EXCESS OF ASSETS OVER LIABILITIES

The liability outstanding at any time for the cost of services performed for which no payment has been made is referred to as "benefits incurred but unpaid." Estimates of the amount of benefits incurred but unpaid as of June 30 of each year, and of the administrative expenses related to processing these benefits, appear in table 8. For most years of the program, assets have not been as large as outstanding liabilities. Nonetheless, the fund has remained positive, allowing claims to be paid.

TABLE 8.—SUMMARY OF ESTIMATED ASSETS AND LIABILITIES OF THE SUPPLEMENTARY MEDICAL INSURANCE PROGRAM, ON JUNE 30, 1967-1981

[Dollar amounts in millions]

June 30	Assets			Liabilities			Excess of assets over liabilities	Ratio ¹
	Balance in trust fund	Government contributions due and unpaid	Total assets but unpaid	Benefits incurred but unpaid	Administrative cost thereon	Total liabilities		
Past experience:								
1967	\$486	\$24	\$510	\$457	\$56	\$513	-\$3	0
1968	307	88	395	513	62	575	-180	-0.09
1969	378	7	385	636	77	713	-328	-.15
1970	57	15	72	588	72	660	-588	-.25
1971	290	22	312	644	79	723	-411	-.16
1972	481	-3	478	675	84	759	-281	-.10
1973	746	-7	739	785	95	880	-141	-.04
1974	1,272	-5	1,267	1,068	135	1,203	64	.02
1975	1,424	67	1,491	1,226	152	1,378	113	.02
1976	1,219	105	1,324	1,366	167	1,533	-209	-.03
1977	2,170	91	2,261	1,626	189	1,815	446	.06
1978	3,786	40	3,826	2,078	222	2,300	1,526	.17
1979	4,880	2	4,882	2,347	242	2,589	2,293	.22
Projected:								
1980	4,719	0	4,719	2,747	270	3,017	1,702	.14
1981	4,729	0	4,729	3,213	301	3,514	1,215	.08

¹Ratio of the excess assets over liabilities to the following year's total incurred expenditures.

Program financing has been established through June 1981. On the basis of this financing the estimated excess of assets over liabilities of \$2,293 million at the end of June 1979 is projected to decrease to \$1,702 million at the end of June 1980, and then to further decrease to \$1,215 million at the end of June 1981. The projected \$1,215 million excess as of June 30, 1981 amounts to 8 percent of incurred expenditures for the following 12-month period, a level which is sufficient to cover the impact of a moderate degree of projection error.

4. SENSITIVITY TESTING

Some of the assumptions underlying the projection presented in this report are highly uncertain, and variations in these assumptions would have a substantial impact on expenditures. In order to test the future status of the program under varying assumptions, a low cost projection and a high cost projection were prepared by varying these key assumptions. The low and high cost alternative sets of assumptions are intended to reflect growth rates for the various components of program costs which are more favorable and adverse, respectively, than those of the intermediate projection and which are not unreasonable themselves in light of the nature and historical experience of the program. As such, they provide a range of financial outcomes within which the actual experience of the program might reasonably be expected to fall. Table 9 indicates that, under the low cost assumptions, trust fund assets would exceed liabilities significantly by the end of June 1981 (the period through which financing has been established), reaching a level of 18 percent of the following year's incurred expenditures. If these low growth rates were actually to materialize, then subsequent financing rates could be adjusted downward in order to lower the excess of assets

over liabilities to more appropriate levels. Under the high cost assumptions, trust fund assets would be approximately equal to liabilities by the end of June 1981. If these high growth rates were to occur, the program would remain just solvent and subsequent financing rates would have to be adjusted upward in order to generate more appropriate levels for the excess of assets over liabilities.

Table 9.—ACTUARIAL STATUS OF THE SMI TRUST FUND UNDER THREE SETS OF ASSUMPTIONS FOR THE 12-MONTH PERIOD ENDING WITH JUNE OF THE YEAR SHOWN

	Intermediate projection (this report)		Low cost projection		High cost projection	
	1980	1981	1980	1981	1980	1981
Per enrollee increase over prior year (in percent):						
Physician fees (percent)	7.9	10.9	6.4	9.4	9.4	12.4
Physician utilization (percent)	4.0	3.0	3.0	2.0	5.0	4.0
Outpatient hospital (percent)	20.0	15.0	10.0	5.0	30.0	25.0
Home Health Agency (percent)	15.0	15.0	5.0	5.0	25.0	25.0
Assets as of June 30 (in millions)	\$4,719	\$4,729	\$4,972	\$5,668	\$4,463	\$3,726
Liabilities as of June 30 (in millions)	3,017	3,514	2,939	3,328	3,100	3,720
Excess of assets over liabilities (in millions)	1,702	1,215	2,033	2,340	1,363	6
Ratio ¹ .....	.14	.08	.18	.18	.10	

¹ Ratio of excess of assets over liabilities to the following year's total incurred expenditures.

CONCLUSION

The financing of the supplementary medical insurance program has been established through June 1981, by the promulgation of standard monthly premium rates (paid by or on behalf of each enrollee) of \$8.70 for the year ending June 1980 and \$9.60 for the year ending June 1981 and of adequate actuarial rates which determine the amount to be contributed from general revenue on behalf of each enrollee. Under the intermediate assumptions used in this report, disbursements from the trust fund are projected to exceed income during fiscal year 1980, and then, during fiscal year 1981, income is projected to exceed disbursements. As a result the assets in the trust fund, on a cash basis, are projected to decrease from \$4,994 million at the end of fiscal year 1979 to an estimated \$4,885 million at the end of 1980 and then to increase to an estimated \$4,982 million at the end of 1981. About 75 percent of this year-end balance, however, is attributable to liabilities for benefits and associated administrative costs which will have been incurred but not yet paid.

Program assets exceeded liabilities by approximately \$2,293 million at the end of June 1979. Under the intermediate assumptions, the actuarial status of the trust fund is expected to remain sound, with assets exceeding liabilities by \$1,215 million at the end of June 1981 (representing 8 percent of projected incurred expenditures for the following 12-month period). Even under more pessimistic assumptions as to cost increases, income produced on the basis of financing already established plus assets held in the trust fund will be sufficient for the trust fund to remain solvent through that period of time. Hence, the financing established through June 1981 is sufficient to cover projected benefit and administrative costs incurred through that time period and to build a level of trust fund assets which is adequate to cover the impact of a moderate degree of projection error.

APPENDIX A

**ACTUARIAL METHODOLOGY AND PRINCIPAL ASSUMPTIONS FOR COST
ESTIMATES FOR THE SUPPLEMENTARY MEDICAL INSURANCE
PROGRAM¹**

1. ESTIMATES FOR AGED AND DISABLED (EXCLUDING ESRD) ENROLLEES

a. Introduction

Estimates for aged and disabled enrollees-excluding disabled persons with end stage renal disease (ESRD)-are prepared by establishing, as accurately as possible, reasonable charges incurred per enrollee in a recent year (the 12-month period ending June 30, 1978, for this report) and projecting these charges through the estimating period. The per enrollee charges are then converted to reimbursement amounts by subtracting the per enrollee values of the deductible and coinsurance. Aggregate reimbursement amounts are calculated by multiplying the per enrollee reimbursement amounts by the projected enrollment. In order to estimate cash disbursements, an allowance is made for the delay between receipt of service and payment therefor.

Disabled persons with ESRD have per enrollee costs which are higher and quite different in nature from those of most other disabled persons. Hence, program costs for them have been excluded from the analysis in this section and are included in a later section.

*b. Establishing a Projection Base**(1) Physician Services*

Reimbursement amounts for physician services (and small amounts for other services) are paid through organizations acting for the Health Care Financing Administration, referred to as carriers. The carriers determine whether billed services are covered under the program and determine the reasonable charges for the services. A record of the amount reimbursed after reductions for coinsurance and the deductible is transmitted to the central office in the form of a "payment record." Payment records for 0.1 percent of aged beneficiaries and 1.0 percent of disabled beneficiaries are tabulated by date of service, thus providing a data base which is constructed on an incurred basis. Certain minor adjustments are made to the tabulated sample data to correct for biases and random fluctuation inherent in the sampling process. Having the data on an incurred basis is necessary to meet the statutory requirement that the program be financed on this basis; it also makes possible a comparison of program experience with non-program data sources.

As a check on the validity of the projection base, incurred reimbursement amounts are compared with cash expenditures reported by the carriers through an independent reporting system. In a program with continuously increasing incurred reimbursement amounts, cash payments are expected to be slightly lower than incurred expenses (except in the first year of coverage of a service or group of beneficiaries,

¹Prepared by the Division of Medicare Cost Estimates, Office of Financial and Actuarial Analysis, Health Care Financing Administration

when the difference should be substantial). These differences between cash and incurred reimbursement amounts occur because of the lag between receipt of services and payment therefor.

(2) *Institutional and Other Services*

Reimbursement amounts for institutional services under Part B are paid by the same fiscal intermediaries that pay for Part A services. The principal institutional services covered under Part B are out-patient hospital care and home health agency services.

Reimbursements for institutional services occur in two stages. Provider bills are submitted to the intermediaries, and interim payments are made on the basis of these bills. The bills are then submitted to the central office, and tabulations for a sample of beneficiaries are prepared in a manner parallel to that for payment records.

At the close of a provider's accounting period, a cost report is submitted and lump-sum payments or recoveries are made to correct for the difference between interim payments made to the provider and the retroactively determined reasonable cost for providing covered services (net of coinsurance and deductible amounts). The amounts of these retroactive settlements are reported on a cash basis, and approximations are necessary to allocate these payments to the time of service.

Group practice prepayment plans are reimbursed directly by the Health Care Financing Administration on a reasonable cost basis. Data are available for these payments only on a cash basis, and approximations must be made to assign expenses to the period when services were rendered.

(3) *Summary of Historical Data*

Table A1 summarizes the incurred reimbursement amounts per enrollee for the various services for each of the 12 month periods ending June 30, through 1978. Also shown are average enrollment figures for these years. In order to analyze the historical trends in prices and use of services, these reimbursement amounts are converted to the reasonable charges or reasonable costs on which reimbursement was based. This process is necessary largely because the fixed deductible becomes a smaller percentage of charges each year and thus causes reimbursement to rise faster than charges or costs. Table A2 shows the reasonable charges or costs per enrollee corresponding to the reimbursement values shown in table A1.

TABLE A1.—INCURRED REIMBURSEMENT AMOUNTS PER ENROLLEE: HISTORICAL

Year ending June 30	Average enroll- ment (millions)	All services	Physician	Inpatient radiology and path- ology ¹	Out- patient hospital	Home health Agency	Group practice prepay- ment plan	Independ- ent lab
Aged:								
1967	17.750	\$63.16	\$59.09	-----	\$1.41	\$1.41	\$1.64	\$1.23
1968	18.038	80.21	72.56	\$1.89	2.40	1.49	1.52	.35
1969	18.833	93.85	79.05	6.57	4.22	1.92	1.69	.40
1970	19.312	100.04	82.82	7.14	5.93	1.99	1.68	.48
1971	19.664	106.33	87.78	7.21	7.56	1.68	1.49	.61
1972	20.043	114.06	94.81	6.77	8.57	1.61	1.52	.78
1973	20.428	122.42	100.89	6.99	9.44	2.22	1.94	.94
1974	20.988	134.38	109.87	7.43	11.35	2.12	2.42	1.19
1975	21.504	159.14	126.64	8.69	15.47	3.99	2.73	1.62
1976	22.089	186.91	144.15	10.84	21.28	5.37	3.29	1.98
1977	22.605	218.67	164.81	12.15	28.68	6.73	3.94	2.36
1978	23.133	253.21	190.29	14.71	33.42	7.01	4.98	2.80
Disabled (excluding ESRD):								
1974	1.647	119.01	89.48	7.50	13.82	3.58	4.08	.55
1975	1.828	148.75	115.93	8.33	17.22	3.69	2.54	1.04
1976	2.033	177.44	136.28	9.85	21.43	5.26	3.22	1.40
1977	2.248	216.61	158.30	12.73	36.04	4.88	2.86	1.80
1978	2.440	256.16	187.64	14.22	42.10	5.68	4.04	2.48

¹ Includes services on payment records and those using combined billing; amounts shown are for April 1968 and later when combined billings are authorized and inpatient radiology and pathology charges are reimbursed at 100 percent.

TABLE A2.—INCURRED REASONABLE CHARGES OR COSTS PER ENROLLEE: HISTORICAL

Year ending June 30	Average enroll- ment (millions)	All services	Physician	Inpatient radiology and path- ology ¹	Out- patient hospital	Home health Agency	Group practice prepay- ment plan	Independ- ent lab
Aged:								
1967	17.750	\$110.32	\$103.20	-----	\$2.46	\$1.38	\$2.87	\$0.41
1968	18.038	128.27	117.07	\$1.89	3.88	2.41	2.46	.56
1969	18.833	145.86	126.15	6.57	6.74	3.06	2.70	.64
1970	19.312	154.10	131.01	7.14	9.38	3.15	2.66	.76
1971	19.664	162.61	137.64	7.21	11.85	2.63	2.33	.95
1972	20.043	173.09	146.97	6.77	13.29	2.49	2.36	1.21
1973	20.428	186.60	157.31	6.99	14.72	3.08	3.03	1.47
1974	20.988	204.42	171.06	7.43	17.67	2.64	3.76	1.86
1975	21.504	235.38	191.83	8.69	23.44	4.83	4.14	2.45
1976	22.089	270.17	213.62	10.84	31.53	6.37	4.87	2.94
1977	22.605	310.11	239.34	12.15	41.65	7.82	5.72	3.43
1978	23.133	353.57	271.96	14.71	47.76	8.02	7.12	4.00
Disabled (excluding ESRD):								
1974	1.647	180.32	139.56	7.50	21.56	4.47	6.37	.86
1975	1.828	218.70	174.61	8.33	25.93	4.45	3.82	1.56
1976	2.033	254.85	200.49	9.85	31.52	6.19	4.74	2.06
1977	2.248	304.20	227.40	12.73	51.77	5.61	4.11	2.58
1978	2.440	354.15	264.89	14.22	59.43	6.41	5.70	3.50

¹ Includes services on payment records and those using combined billing; amounts shown are for April 1968 and later when combined billings are authorized and inpatient radiology and pathology charges are reimbursed at 100 percent.

c. Per Enrollee Increases

(1) Physician Services

Pre enrollee charges for physician services are affected by a variety of factors. Some of these can be identified explicitly. Others can be recognized only by the fact that the explicitly quantifiable factors do not explain all of the increase in per enrollee charges year-to-year.

Increases in average charge per service are one of the most important elements creating increasing charges per enrollee. The physician fee component of the consumer price index provides an estimate of the

historical increases in average charge per service. Increases in this index are shown in the first column of table A3.

Bills submitted to the carriers during a 12-month period beginning July 1 are subject, by statute, to certain limitations on the level of fees to be recognized by the program for reimbursement purposes. The fee level recognized for a particular service by a physician is subject to reduction if it exceeds the median charge that the physician assessed for the same service in the preceding calendar year. This median charge is called the "customary" charge. Fees are subject to further reduction if they exceed the "prevailing" charge for the locality. The prevailing charge is defined as the 75th percentile of customary charges for a particular service in a particular locality. Since July 1, 1975, the rate of increase in prevailing charges has been limited further by the application of an "economic index." The customary and prevailing charge limits maintained by the carriers are called "fee screens." Reasonable charges are charges on which reimbursement is based, after they have been reduced by the fee screens.

The average reduction in submitted fees has increased almost every year due both to administrative actions and to differentials in the rate of increase in fees between the calendar year in which the fee screens are established and the July to June period in which the screens are applied. The result is that the net increase in per enrollee charges due to price changes (i.e., the increase in fee levels recognized for reimbursement purposes) has been less than the increase in submitted fees. The second column of table A3 shows the reduction of charges due to the impact of the fee screen operation to date. The year-to-year changes in this impact are shown in the third column.

Per enrollee charges also have increased each year as a result of more physician visits per enrollee, increasing use of specialists and more expensive techniques, and other factors. The fifth column of table A3 shows the increase in charges per enrollee resulting from these residual causes. Because the measurement of increased recognized charges per service is subject to error, this error is included implicitly under residual causes.

The proportion of charges that has been denied as non-covered care has increased in most years. To the extent that this increase in denials reflects the effect of administrative actions defining covered services, it will cause a non-recurring distorting effect on the increase due to net residual factors. The gross residual factor is adjusted for the impact of changes in denials as shown in the sixth column of table A3. This column is used in the projection to indicate the amount of cost increases to be expected in the future from residual causes. The seventh column shows the net increase due to residual factors.

The last column of table A3 shows the total increase in charges per enrollee for physician services. It includes the effects of all the items discussed above.

Projected increases in total recognized charges per enrollee are shown in table A4. Column 1 of table A4 shows the projected average increase in customary charges in each of the 12 month periods ending June 30, 1979 through 1983. As described above, each of these increases depends on the increases in fees actually submitted during the preceding calendar year. Thus, this column represents actual and projected

average increases in physicians' fees for calendar years 1977 through 1981, respectively. In principle, further adjustments should be made for the year-to-year variations created by the process of selecting the 75th percentile of customary charges for each service in each locality to establish prevailing charges and for the fact that, of necessity, some fees are not screened in exactly the manner described (e.g., when new categories of services arise for which there is no historical data base). The impact on year-to-year increases in reasonable charges of these two factors is treated as negligible (although, of course, they have a substantial effect on the absolute level of fees). The effects of the economic index on the average charge increase is shown in column 2. The projected net increase in reasonable charges is shown in column 3; this compares with the corresponding historical data shown in column 4 of table A3.

The projection of residual factors assumes no further changes in the proportion of claims denied consistent with the very small changes observed in the last few years (see table A3).

TABLE A3.—COMPONENTS OF INCREASES IN TOTAL RECOGNIZED CHARGES PER ENROLLEE FOR PHYSICIAN SERVICES: HISTORICAL

[in percent]								
Year ending June 30,	Increase due to price changes				Increase Due to Residual Factors			
	Increase in physician fee component of CPI	Reduction due to fee screens		Net increase in reasonable charges	Gross residual factors	Effects of denials	Net residual factors	Total increase in recognized charges per enrollee
		Cumula- tive effect	Yearly changes					
Aged:								
1967	7.6	-2.6						
1968	5.9	-3.6	-.7	5.2	9.6	-1.4	8.2	13.4
1969	6.2	-5.0	-1.4	4.8	3.4	-.4	3.0	7.8
1970	6.7	-7.5	-2.8	3.9	3.1	-3.1	0	3.9
1971	7.5	-10.1	-3.0	4.5	3.8	-3.2	.6	5.1
1972	5.2	-11.2	-1.2	4.0	2.4	.4	2.8	6.8
1973	2.6	-11.7	-.5	2.1	5.5	-.6	4.9	7.0
1974	5.0	-13.2	-1.7	3.3	6.0	-.6	5.4	8.7
1975	12.8	-16.2	-3.7	9.1	3.3	-.3	3.0	12.1
1976	11.4	-18.6	-2.9	8.5	2.8	.1	2.9	11.4
1977	10.2	-19.5	-1.0	9.2	2.7	.1	2.8	12.0
1978	8.9	-19.3	.6	9.5	4.0	.1	4.1	13.6
Disabled (excluding ESRD):								
1974	5.0	-13.2						
1975	12.8	-16.2	-2.6	10.2	15.2	-.3	14.9	25.1
1976	11.4	-18.6	-2.7	8.7	6.0	.1	6.1	14.8
1977	10.2	-19.5	-.9	9.3	4.0	.1	4.1	13.4
1978	8.9	-19.3	.9	9.8	6.6	.1	6.7	16.5

TABLE A4.—COMPONENTS OF INCREASES IN TOTAL RECOGNIZED CHARGES PER ENROLLEE FOR PHYSICIAN SERVICES: PROJECTED

[in percent]							
Year ending June 30,	Increase due to price changes			Increase due to residual factors			Total increase in recognized charges per enrollee
	Increase before effect of economic index	Reduction due to economic index	Net increase in reasonable charges	Gross residual factors	Effects of denials	Net residual factors	
Aged:							
1979	9.3	-1.6	7.7	3.2	0	3.2	10.9
1980	8.4	- .5	7.9	4.3	0	4.3	12.2
1981	9.9	1.0	10.9	3.3	0	3.3	14.2
1982	13.0	.7	13.7	3.4	0	3.4	17.1
1983	12.7	-1.9	10.8	3.3	0	3.3	14.1
Disabled (excluding ESRD):							
1979	9.3	-1.6	7.7	3.2	0	3.2	10.9
1980	8.4	- .5	7.9	4.3	0	4.3	12.2
1981	9.9	1.0	10.9	3.3	0	3.3	14.2
1982	13.0	.7	13.7	3.4	0	3.4	17.1
1983	12.7	-1.9	10.8	3.3	0	3.3	14.1

(2) Institutional and Other Services

The historical and projected increases in charges or costs per enrollee for institutional and other services are shown in table A5. The year-to-year changes in some services have been quite erratic. At best, these series provide only a rough indication of future trends in costs.

TABLE A5.—INCREASES IN RECOGNIZED CHARGES AND COSTS PER ENROLLEE FOR INSTITUTIONAL AND OTHER SERVICES

[in percent]

Year ending June 30	Inpatient radiology and pathology	Outpatient hospital	Home health agency	Group practice Prepayment plan	Independent lab
Aged:					
Historical:					
1968		57.7	74.6	-14.3	36.6
1969	¹ -13.1	73.7	27.0	9.8	14.3
1970	8.7	39.2	2.9	-1.5	18.7
1971	1.0	26.3	-16.5	-12.4	25.0
1972	-6.1	12.2	-5.3	1.3	27.4
1973	3.2	10.8	23.7	28.4	21.5
1974	6.3	20.0	-14.3	24.1	26.5
1975	17.0	32.7	83.0	10.1	31.7
1976	24.7	34.5	31.9	17.6	20.0
1977	12.1	32.1	22.8	17.5	16.7
1978	21.1	14.7	2.6	24.5	16.6
Projected:					
1979	18.0	20.0	4.0	-18.0	15.0
1980	15.0	20.0	15.0	61.3	15.0
1981	15.0	15.0	15.0	15.0	15.0
1982	15.0	15.0	15.0	15.0	15.0
1983	15.0	15.0	10.0	10.0	15.0
Disabled (excluding ESRD):					
Historical:					
1975	11.1	20.3	-0.4	-40.0	81.4
1976	18.2	21.6	39.1	24.1	32.1
1977	29.2	64.2	-9.4	-13.3	25.2
1978	11.7	14.8	14.3	38.7	35.7
Projected:					
1979	18.0	20.0	4.0	-18.0	15.0
1980	15.0	20.0	15.0	61.3	15.0
1981	15.0	15.0	15.0	15.0	15.0
1982	15.0	15.0	15.0	15.0	15.0
1983	15.0	15.0	10.0	10.0	15.0

¹Percentage change over prior year annualized value.

d. Projected Charges and Costs

Table A6 shows projections of per enrollee incurred charges and costs based on the assumptions in tables A4 and A5. Table A7 shows the total reimbursement amounts per enrollee that result from subtracting the average amounts of copayment per enrollee from the total covered charges in table A6. The aggregate reimbursement amounts shown are derived by multiplying average enrollment by average reimbursement per enrollee.

TABLE A6.—INCURRED REASONABLE CHARGES OR COSTS PER ENROLLEE: PROJECTED

Year ending June 30,	All Services	Physician	Inpatient radiology and pathology	Outpatient hospital	Home health agency	Group practice Prepayment plan	Independent lab
Aged:							
1979	\$395.14	\$301.69	\$17.36	\$57.31	\$8.34	\$5.84	\$4.60
1980	451.57	338.54	19.96	68.77	9.59	9.42	5.29
1981	516.68	386.70	22.95	79.09	11.03	10.83	6.08
1982	602.33	452.87	26.39	90.95	12.68	12.45	6.99
1983	687.46	516.83	30.35	104.59	13.95	13.70	8.04
Disabled (excluding ESRD):							
1979	397.32	293.85	16.78	71.32	6.67	4.67	4.03
1980	454.46	329.75	19.30	85.58	7.67	7.53	4.63
1981	520.08	376.66	22.20	98.42	8.82	8.66	5.32
1982	606.04	441.11	25.53	113.18	10.14	9.96	6.12
1983	692.08	503.41	29.36	130.16	11.15	10.96	7.04

TABLE A7.—INCURRED REIMBURSEMENT AMOUNTS: PROJECTED

Year ending June 30,	Reimbursement amounts		
	Average enrollment (millions)	Per enrollee	Aggregate (millions)
Aged:			
1979	23.693	\$286.72	\$6,793
1980	24.284	332.38	8,072
1981	24.811	384.72	9,545
1982	25.331	454.08	11,502
1983	25.865	522.87	13,524
Disabled (excluding ESRD):			
1979	2.583	290.55	750
1980	2.687	337.00	906
1981	2.770	389.68	1,079
1982	2.892	459.02	1,327
1983	2.977	528.55	1,573

2. ESTIMATES FOR PERSONS SUFFERING FROM ESRD

Certain persons suffering from end stage renal disease (ESRD) have been eligible to enroll for Part B coverage since July 1973 (under Section 2991 of P.L. 92-603). For analytical purposes those enrollees suffering from ESRD who are also eligible as disability insurance beneficiaries are included in this section because their per enrollee costs are both higher and different in nature from those of most other disabled persons.

The estimates assume that charges for Part B ESRD services under Medicare will increase at an average of 8.8 percent per year over the projection period (July 1, 1978 through June 30, 1983). The estimates also assume a continued rapid increase in enrollment. The historical and projected enrollment and costs are shown in table A8.

TABLE A8.—INCURRED REIMBURSEMENT FOR END-STAGE RENAL DISEASE

Year ending June 30,	Disabled ESRD and ESRD only			ESRD only Reimbursement amounts (millions)
	Average enrollment (thousands)	Reimbursement amounts		
		Per enrollee	Aggregate (millions)	
1974	14	\$10,071	\$141	\$98
1975	21	10,857	228	155
1976	27	11,852	320	209
1977	31	13,516	419	267
1978	36	14,611	526	330
1979	41	15,756	646	399
1980	48	16,271	781	475
1981	53	17,453	925	556
1982	57	18,702	1,066	634
1983	61	19,951	1,217	717

3. SUMMARY OF AGGREGATE REIMBURSEMENT AMOUNTS ON A CASH BASIS

Table A9 shows aggregate historical and projected reimbursement amounts on a cash basis, by type of beneficiary. The difference between reimbursement amounts on a cash basis and incurred reimbursement amounts results from the lag between the time of service and the time of payment.

TABLE A9.—AGGREGATE REIMBURSEMENT AMOUNTS ON A CASH BASIS

[In millions]

Fiscal Year	Aged	Disabled (excluding ESRD)	Disabled ESRD and ESRD only	Total
Historical:				
1967	\$664			\$664
1968	1,390			1,390
1969	1,645			1,645
1970	1,979			1,979
1971	2,035			2,035
1972	2,255			2,255
1973	2,391			2,391
1974	2,651	\$133	\$90	2,874
1975	3,339	259	167	3,765
1976	4,069	343	259	4,671
Interim ¹	1,082	106	81	1,269
1977	4,988	498	381	5,867
1978	5,766	613	473	6,852
1979	6,893	762	604	8,259
Projected:				
1980	8,123	911	733	9,767
1981	9,646	1,094	869	11,609
1982	11,538	1,329	1,012	13,879

¹Interim Period is the period from July 1, 1976 to September 30, 1976 and is the transitional period between fiscal years beginning July 1 and fiscal years beginning October 1.

4. ADMINISTRATIVE EXPENSES

The ratio of administrative expenses to benefit payments has been approximately 7 percent in recent years and is projected to decline slowly in future years. Projections of administrative costs are based on estimates of workloads and approved budgets for carriers, intermediaries, and Federal administration agencies.

APPENDIX B.

STATEMENT OF ACTUARIAL ASSUMPTIONS AND BASES EMPLOYED IN DETERMINING THE MONTHLY ADEQUATE ACTUARIAL RATES AND THE STANDARD MONTHLY PREMIUM RATE FOR THE SUPPLEMENTARY MEDICAL INSURANCE PROGRAM BEGINNING JULY 1980 ²

1. ACTUARIAL STATUS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND

The law requires that the Supplementary Medical Insurance (SMI) program be financed on an incurred basis. That is, program income during the 12-month period for which the adequate actuarial rates are effective must be sufficient to pay for services rendered during that period (including associated administrative costs) even though payment for some of these services will not be made until after the close of the period. The portion of income required to cover benefits not paid until after the close of the 12-month period is added to the trust fund until needed. Thus, the assets in the trust fund at any time should be no less than benefit and administrative costs incurred but not yet paid.

Because the adequate rates are established prospectively, they are subject to projection error. As a result, the income to the program may not equal incurred costs. Therefore, trust fund assets should be maintained at a level which is adequate to cover the impact of a moderate degree of projection error in addition to the amount of incurred but unpaid expenses. Table 1 summarizes the estimated actuarial status of the trust fund as of June 30 for each of the years 1978-80.

TABLE 1.—ESTIMATED ACTUARIAL STATUS OF THE SMI TRUST FUND
YEARS ENDING JUNE 30 OF 1978-1980

[In millions of dollars]

Year ending June 30:	Assets	Liabilities	Assets less liabilities
1980.....	\$3,834	\$2,299	\$1,535
1981.....	4,883	2,592	2,291
1982.....	4,877	2,989	1,888

2. MONTHLY ADEQUATE ACTUARIAL RATE FOR ENROLLEES AGE 65 AND OLDER

The monthly adequate actuarial rate is one-half the monthly projected costs of benefits and administrative expenses for each enrollee age 65 and older, adjusted to allow for the following: interest earnings on assets in the trust fund; contingency margin; and amortization of unfunded liabilities.

² This statement appeared in the *Federal Register* of December 31, 1979. Projections shown in the statement differ slightly from the projection shown in the rest of the report because of minor changes in assumptions since the rates were promulgated.

The monthly adequate actuarial rate for enrollees age 65 and older for the year ending June 30, 1981, was determined by projecting per enrollee cost for the 12-month period ending June 30, 1978, by type of service. The projected costs for the year ending June 30 of 1978-1981 are shown in table 2. The values for the 12-month period ending June 30, 1978, were established from program data. Subsequent years were projected using a combination of program data and data from external sources. The projection factors used are shown in table 3.

TABLE 2.—DERIVATION OF PROMULGATED MONTHLY RATE FOR ENROLLEES AGE 65 AND OVER, YEARS ENDING JUNE 30 OF 1978-1981

	1978	1979	1980	1981
Covered services (at level recognized):				
Physicians' reasonable charges	\$11.33	\$12.57	\$13.97	\$15.90
Radiology and pathology .....	.61	.72	.83	.96
Outpatient hospital and other institutions	1.99	2.39	2.75	3.16
Home health agencies .....	.33	.35	.40	.46
Group practice prepayment plans .....	.30	.24	.39	.45
Independent lab .....	.17	.19	.22	.25
Total services	14.73	16.46	18.56	21.18
Cost-sharing:				
Deductible	-1.77	-1.79	-1.81	-1.83
Coinurance	-2.41	-2.73	-3.11	-3.59
Total benefits	10.55	11.94	13.64	15.76
Administrative expenses .....	.76	.85	.87	.89
Incurred expenditures	11.31	12.79	14.51	16.55
Value of interest on fund	-.20	-.33	-.34	-.35
Margin for contingencies and to amortize liabilities	1.19	.94	-.77	0
Promulgated monthly rate	12.30	13.40	13.40	16.30

TABLE 3.—PROJECTION FACTORS, YEARS ENDING JUNE 30 OF 1979-1981

[In percent]

	1979	1980	1981
Physicians' services:			
Fees ¹	7.7	7.9	10.5
Utilization ²	3.0	3.0	3.0
Outpatient hospital services per enrollee ³	20.0	15.0	15.0
Home health agency services per enrollee ³	4.0	15.0	15.0
Group practice plan services per enrollee ³	-18.0	61.3	15.0
Other services per enrollee	17.0	15.0	15.0

¹As recognized for payment under the program.

²Increase in the number of services received per enrollee and greater relative use of more expensive services.

³The values for 1979 and/or 1980 differ significantly from those contained in last year's promulgation notice due to an additional year's data which support the current values.

The projected monthly rate required to pay for one-half of the total of benefits and administrative costs for enrollees age 65 and over for the year ending June 30, 1981, is \$16.65. The monthly adequate actuarial rate of \$16.30 provides an adjustment for interest earnings and no margin for contingencies.

3. MONTHLY ACTUARIAL RATE FOR DISABLED ENROLLEES

Disabled enrollees are those persons enrolled in SMI because of entitlement to disability benefits for not less than 24 consecutive months or because of entitlement to Medicare under the end-stage renal disease program. Projected monthly costs for disabled enrollees (other than those

suffering from end-stage renal disease) are prepared in a fashion exactly parallel to projections for the aged, using the same actuarial assumptions. Costs for the end-stage renal disease program are projected using a computer model because of the complex demographic problems involved. The combined results for all disabled enrollees are shown in table 4.

TABLE 4.—DERIVATION OF PROMULGATED MONTHLY RATE FOR DISABLED ENROLLEES, YEARS ENDING JUNE 30 OF 1978-1988

	1978	1979	1980	1981
Covered services (at level recognized):				
Physicians' reasonable charges	\$13.21	\$14.77	\$16.51	\$18.77
Radiology and pathology .....	.59	.70	.80	.93
Outpatient hospital and other institutions	11.14	13.05	15.06	17.17
Home health agencies .....	.27	.28	.32	.37
Group practice prepayment plans .....	.24	.19	.31	.36
Independent lab .....	.22	.26	.29	.34
Total services	25.67	29.25	33.29	37.94
Cost-sharing:				
Deductible	-1.64	-1.66	-1.67	-1.70
Coinsurance	-4.64	-5.33	-6.11	-6.99
Total benefits	19.39	22.26	25.51	29.25
Administrative expenses	1.40	1.59	1.62	1.65
Incurred expenditures	20.79	23.85	27.13	30.90
Value of interest on fund	-1.99	-2.70	-2.76	-2.81
Margin for contingencies and to amortize liabilities	6.20	3.85	.63	-2.59
Promulgated monthly rate	25.00	25.00	25.00	25.50

The projected monthly rate required to pay for one-half of the total of benefits and administrative costs for disabled enrollees for the year ending June 30, 1981, is \$30.90. The monthly adequate actuarial rate of \$25.50 provides an adjustment for interest earnings and a margin for contingencies.

4. SENSITIVITY TESTING

Several factors contribute to uncertainty about future trends in medical care costs. In view of this, it seems appropriate to test the adequacy under alternate assumptions of the rates promulgated here. The most unpredictable factors which contribute significantly to future costs are outpatient hospital costs, physician utilization (measured indirectly and reflecting the use of more visits per enrollee, the use of more expensive services, and other factors not explained by simple price per service increases), and increases in physician fees as constrained by the program's reasonable charge screens and economic index. Two alternative sets of assumptions and the results of those assumptions are shown in table 5. All assumptions not shown in table 5 are the same as in table 3.

Table 5.—PROJECTION FACTORS AND THE ACTUARIAL STATUS OF THE SMI TRUST FUND UNDER ALTERNATIVE SETS OF ASSUMPTIONS YEARS ENDING JUNE 30 OF 1981-1982

	This Projection		Low Assumption		High Assumption	
	1980	1981	1980	1981	1980	1981
Projection factors (in percent):						
Physicians' fees ¹ -----	7.9	10.5	5.9	8.5	9.9	12.5
Utilization of physicians' services ² -----	3.0	3.0	1.0	1.0	5.0	5.0
Outpatient hospital services per enrollee ³ -----	15.0	15.0	5.0	5.0	25.0	25.0
Home Health Agency services per enrollee ³ -----	15.0	15.0	5.0	5.0	25.0	25.0
Actuarial status (in millions):						
Assets -----	\$4,877	\$5,191	5,215	\$6,416	\$4,533	\$3,899
Liabilities -----	2,989	3,468	2,889	3,236	3,088	3,712
Assets less liabilities -----	1,888	1,723	2,326	3,180	1,445	187
Ratio of assets less liabilities to expenditures (in percent) ⁴ -----	15.7	12.3	21.0	26.3	11.1	1.2

¹As recognized for payment under the program.

²Increase in the number of services received per enrollee and greater relative use of more expensive services.

³The values for 1980 differ significantly from those contained in last year's notice due to an additional year's data which support the current values.

⁴Ratio of assets less liabilities at the end of the year to the total incurred expenditures during the following year, expressed as a percent.

Table 5 indicates that, under the assumptions used in preparing this report, the promulgated monthly rates will result in an excess of assets over liabilities of \$1,723 million by the end of June 1981. This amounts to 12.3 percent of the estimated total incurred expenditures for the following year. Assumptions which are somewhat more pessimistic produce an excess of assets over liabilities of \$187 million by the end of June 1981, which amounts to 1.2 percent of the estimated total incurred expenditures for the following year. Under fairly optimistic assumptions, the promulgated monthly rates will result in an excess of \$3,180 million, which amounts to 26.3 percent of the estimated total incurred expenditures for the following year.

5. STANDARD PREMIUM RATE

The law provides that the standard monthly premium rate, promulgated to apply for both aged and disabled enrollees, shall be the lesser of:

1. The adequate actuarial rate for enrollees age 65 and older; or
2. The current standard monthly premium, increased by the same percentage that the level of old-age, survivors, and disability insurance (OASDI) benefits has been increased since the May preceding the promulgation (and rounded to the nearer dime).

The standard monthly premium rate for the 12-month period ending with June 30, 1980, is \$8.70. The OASDI benefit tables were increased 9.9 percent in June 1979. The \$8.70 rate, increased by 9.9 percent and rounded to the nearer ten cent multiple, is \$9.60. Since this is less than the adequate actuarial rate, the standard premium rate is \$9.60 for the 12 months ending with June 1981.