1985 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS IN-SURANCE AND DISABILITY INSURANCE TRUST **FUNDS**

COMMUNICATION 0941

FROM

THE BOARD OF TRUSTEES, FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND DISABILITY INSURANCE TRUST FUNDS

TRANSMITTING

THE 1985 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE TRUST FUND AND THE FEDERAL DISABILITY INSURANCE TRUST FUND, PUR-SUANT TO SSA, SECS. 201(c)(2), 1817(b)(2), AND 1841(b)(2)



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1985 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND DISABILITY INSURANCE TRUST FUNDS

COMMUNICATION

FROM

THE BOARD OF TRUSTEES, FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND DISABILITY INSURANCE TRUST FUNDS

TRANSMITTING

THE 1985 ANNUAL REPORT OF THE BOARD, PURSUANT TO SECTION 201(c)(2) OF THE SOCIAL SECURITY ACT, AS AMENDED



LETTER OF TRANSMITTAL

BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND DISABILITY INSURANCE TRUST FUNDS, Washington, D.C., March 28, 1985

HONORABLE THOMAS P. O'NEILL, JR. Speaker of the House of Representatives Washington, D.C.

HONORABLE GEORGE BUSH President of the Senate Washington, D.C.

GENTLEMEN: We have the honor of transmitting to you the 1985 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance Trust Fund and the Federal Disability Insurance Trust Fund (the 45th such report), in compliance with the provisions of section 201(c)(2) of the Social Security Act.

Respectfully,

YAMES A. BAKER, III, Secretary of the Treasury, and Managing Trustee of the Trust Funds.

FORD B. FORD, Under Secretary of

Labor, and Acting Trustee.

MARGARET M. HECKLER, Secretary of Health and Human Services, and Trustee.

Health and Human Services, and Truston

MARY F. FULLER, Trustee.

SUZANNE D. JAFFE, Trustee.

MARTHA A. McSteen, Acting Commissioner of Social Security, and Secretary, Board of Trustees.

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1985 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND DISABILITY INSURANCE TRUST FUNDS

I. THE BOARD OF TRUSTEES

The Federal Old-Age and Survivors Insurance Trust Fund, established on January 1, 1940, and the Federal Disability Insurance Trust Fund, established on August 1, 1956, are held by the Board of Trustees under the authority of section 201(c) of the Social Security Act. The Board has five members, three of whom serve in an ex officio capacity—the Secretary of the Treasury, the Secretary of Labor, and the Secretary of Health and Human Services. The Social Security Amendments of 1983 (Public Law 98-21) provided for the addition of two public members to the Board of Trustees. The President nominated Mary F. Fuller and Suzanne D. Jaffe to be the two new members; they were confirmed by the Senate on September 28, 1984, and will serve terms of 4 years.

By law, the Secretary of the Treasury is designated as the Managing Trustee, and the Commissioner of Social Security is designated as the Secretary of the Board. The Board of Trustees reports to the Congress each year on the operations and status of the trust funds, in compliance with section 201(c)(2) of the Social Security Act. This annual report, for 1985, is the 45th such report.

II. HIGHLIGHTS

This section summarizes the more important developments since the 1984 Annual Report was transmitted to the Congress on April 5, 1984, and describes the major features of this report.

Trust fund operations during fiscal year 1984

- (a) For the Old-Age and Survivors Insurance (OASI) and Disability Insurance (DI) Trust Funds in fiscal year 1984, the combined income was \$178.5 billion, while the combined outgo was \$178.2 billion. Thus, the combined assets of the trust funds increased by \$0.3 billion during the fiscal year. For the OASI Trust Fund, separately, the income was \$160.7 billion, and the outgo was \$159.8 billion; thus, the fund increased by \$0.9 billion during the fiscal year. For the DI Trust Fund, income and outgo were \$17.7 billion and \$18.4 billion, respectively, resulting in a decrease of \$0.6 billion during the fiscal year.
- (b) At the end of September 1984, 36.3 million persons were receiving monthly benefits under the OASDI program. In calendar year 1984, an estimated 119 million workers had earnings on which contributions were payable and which were creditable toward benefits under the program.
- (c) The invested assets of the OASI and DI Trust Funds, combined, earned interest, excluding interest on advance tax transfers, amounting to \$2.6 billion during fiscal year 1984. The effective annual rate of interest earned by the combined assets of the trust funds, excluding advance tax transfers, during the 12 months ending June 30, 1984, was 11.0 percent. During the same period, the average interest rate on new securities purchased by the trust funds was 11.9 percent.
- (d) Administrative expenses for the OASDI program during fiscal year 1984 were \$2.2 billion, which is equal to 1.3 percent of benefit payments during the year.

Financial status of the trust funds

To illustrate the operations of the trust funds under a broad range of conditions, the financial projections in this report are based on four sets of economic and demographic assumptions. Two sets of assumptions—alternatives II-A and II-B—are designated "intermediate." These intermediate sets share the same demographic assumptions, but differ with respect to economic assumptions; somewhat more robust growth in the economy is assumed for alternative II-A than for alternative II-B. One set of assumptions—alternative I—is designated as "optimistic," and another—alternative III—is termed "pessimistic." These sets of economic and demographic assumptions are so characterized depending on whether they have a favorable or unfavorable effect on the financial status of the trust funds, relative to the financial status based on the intermediate sets.

The estimates in this report indicate that the assets of the OASI and DI Trust Funds, on a combined basis, will be sufficient to permit the timely payment of OASDI benefits well into the next century, on the basis of all four sets of assumptions for which estimates are shown. For

the next 75 years, the OASDI program is estimated to be in close actuarial balance, based on intermediate economic and demographic assumptions. In the event of adverse experience, however, similar to that illustrated by the pessimistic assumptions in this report, the DI program could become unable to make timely benefit payments by the end of 1987. The current estimates for the DI program reflect the higher benefit costs associated with Administration initiatives concerning the continuing disability review process and the disability reforms that were enacted into law in October 1984. If financial problems like those resulting from the pessimistic assumptions were to become imminent in the short range, however, they could be prevented from occurring by a reallocation of contribution rates between OASI and DI. Such a change would not involve any increases in total OASDI taxes, nor any reductions in OASDI benefits.

The financial projections are described in detail for three time periods of particular interest—short range, medium range, and long range. The estimates for the various time periods can be summarized as follows:

- (a) Short range (1985-89)—On the basis of alternatives I, II-A, and II-B, the combined income of the OASI and DI Trust Funds is estimated to exceed expenditures in every year of the short-range projection period. The trust fund levels are estimated to be relatively low, however, as a percentage of program outgo, through 1987. Based on alternative III, relatively small declines in the combined assets of the OASI and DI Trust Funds, as a percentage of program outgo, are projected to occur through about 1987.
 - On the basis of all four alternative sets of assumptions, the estimated increases in the combined assets of the OASI and DI Trust Funds would be sufficient to require the repayment of amounts owed to the HI Trust Fund, as a result of interfund borrowing which occurred in 1982. These repayments would be made in accordance with procedures specified in the law.
- (b) Medium range (1985-2009)—On the basis of the four alternative sets of assumptions, average annual income of the OASDI program during the 25-year projection period is estimated to range from 12.58 to 12.66 percent of taxable payroll, while average costs range from 9.44 to 11.85 percent. Thus, the estimated medium-range actuarial balance is a surplus varying from 0.82 to 3.14 percent of taxable payroll.
- (c) Long range (1985-2059)—For the 75-year projection period, the estimated average annual income of the OASDI program ranges from 12.79 to 13.15 percent of taxable payroll, depending on the assumptions. The corresponding average cost ranges from 10.24 to 17.84 percent of taxable payroll. Thus, the estimated long-range actuarial balance varies from a surplus of 2.55 percent of taxable payroll, on the basis of alternative I, to a deficit of 4.69 percent of taxable payroll, on the basis of alternative III.

On the basis of alternative II-A, the estimated long-range actuarial balance is a surplus of 0.38 percent of taxable payroll. This surplus consists of average annual surpluses of 2.42 and 0.09

percent of taxable payroll for the first and second 25-year subperiods, respectively, and an average annual deficit of 1.38 percent for the third 25-year subperiod. On the basis of alternative II-B, the estimated long-range actuarial balance is a deficit of 0.41 percent of taxable payroll. This deficit consists of an average annual surplus of 2.00 percent of taxable payroll for the first 25-year subperiod, and average annual deficits of 0.78 and 2.46 percent for the second and third 25-year subperiods, respectively. Both the small average surplus based on alternative II-A and the small average deficit based on alternative II-B are within the range of "close actuarial balance," as defined in the section of this report entitled "Actuarial Estimates."

These 75-year estimates are subject to considerable uncertainty and should be interpreted as indications of how the trust funds would operate under present law if the assumed economic and demographic conditions were to occur, rather than as precise forecasts. Despite their inherent uncertainty, the long-range projections, with their patterns of surpluses and deficits for the various subperiods, provide a valuable picture of the long-range financial obligations of the Social Security program and information on how program costs would respond to changing conditions.

Developments since the last annual report

- (a) An automatic benefit increase of 3.5 percent became effective for December 1984. Effective for 1985, the contribution and benefit base was increased from \$37,800 to \$39,600. Also, the annual exempt amounts under the retirement earnings test were increased from \$5,160 to \$5,400, for beneficiaries under age 65, and from \$6,960 to \$7,320, for beneficiaries aged 65 through 69. (The retirement earnings test does not apply to beneficiaries aged 70 and over.) The amount of earnings required to be credited with a quarter of coverage was increased from \$390 for 1984 to \$410 for 1985. A copy of the notice announcing these changes is shown in Appendix C.
- (b) The first repayments of the amounts lent to the OASI Trust Fund in 1982, under the interfund borrowing provisions, were made on January 31, 1985. Of the \$5,081 million owed to the DI Trust Fund before the repayment occurred, \$2,540 million was repaid; of the \$12,437 million owed to the HI Trust Fund, \$1,824 million was repaid.

III. SOCIAL SECURITY AMENDMENTS SINCE THE 1984 REPORT

Since the 1984 Annual Report was transmitted to the Congress on April 5, 1984, several laws affecting the OASDI program have been enacted. The legislative changes having a significant effect on the financial status of the program are described below.

The Deficit Reduction Act of 1984 (Public Law 98-369, enacted into law on July 18, 1984) included several significant changes to the Hospital Insurance (HI) program, and a number of relatively minor changes to the OASDI program, including many technical corrections. The most significant changes to the OASDI program were as follows:

- 1. The law provides an exception to the provision, which was enacted in the Social Security Amendments of 1983 (Public Law 98-21, April 20, 1983), for mandatory Social Security coverage of nonprofit organizations, effective January 1, 1984. The new law allowed any church or qualified church-controlled organization which is opposed for religious reasons to payment of Social Security taxes to make an irrevocable election to have services performed by its employees excluded from the definition of employment, for Social Security purposes. Such election generally must have been made before October 31, 1984. The employees of an electing organization are deemed to be covered as self-employed persons, with some minor differences from the usual procedures applying to the self-employed.
- Several provisions of the new law address situations involving 2. Federal employees who are covered by the Social Security program under the provisions of the 1983 amendments. After 1983, Federal employees rehired after a break in service of 365 days or fewer will be excluded from Social Security coverage only if their prior Federal employment was not covered. In addition, previously noncovered Federal employees who return to Federal service after being employed by an international organization for more than 365 days will continue to be noncovered. Employees of the legislative branch who cease to be covered under the Civil Service Retirement (CSR) program after December 31, 1983, will generally be covered under Social Security. Finally, employees of certain quasi-governmental nonprofit organizations which are required by law to participate in the CSR program will generally not be required to participate in Social Security, unless they are hired after 1983.

The Social Security Disability Benefits Reform Act of 1984 (Public Law 98-460, enacted into law on October 9, 1984) changed some of the administrative procedures of the Disability Insurance program, especially those relating to the statutory requirement that the condition of disabled beneficiaries be reviewed periodically. (This requirement was first enacted in Public Law 96-265, June 9, 1980.) From a financial standpoint, the following changes are the most significant:

1. The new law establishes a medical-improvement standard for terminating disability benefits on the basis that the impairment is no longer disabling. In general, benefits may be terminated only if the individual is determined to be capable of engaging in

substantial gainful activity and (1) the beneficiary's medical condition has improved since the previous determination, or (2) the individual has benefited from advances in medical or vocational therapy or technology related to ability to work. The law also permits benefits to be terminated when the individual is actually engaging in substantial gainful activity, or when failure to cooperate or fraud are involved.

- 2. The temporary provision for continued payment of disability benefits while a termination decision is being appealed (first enacted in Public Law 97-455, January 12, 1983, and extended by Public Law 98-118, October 11, 1983) is further extended. Under the new law, beneficiaries who receive an initial termination decision before 1988 may request benefit continuation through the month preceding the month in which a decision is made by an administrative law judge, or June 1988, if earlier.
- 3. The law requires the implementation of new procedures for evaluating disability in cases involving mental impairments.
- 4. The law provides that, in determining whether a person's impairments are of sufficient medical severity to be the basis of a finding of eligibility for benefits, the combined effect of all the impairments must be considered, regardless of whether any one impairment, taken alone, would be considered sufficiently severe.

Public Law 98-604 (enacted into law on October 30, 1984) guaranteed that an automatic cost-of-living adjustment of OASDI benefits would be effective for December 1984, even if the applicable increase in the Consumer Price Index (CPI) were less than the 3.0-percent level required to trigger an increase under the permanent provisions of the Social Security Act. (This guarantee was not necessary at the time the law was signed, although it had earlier appeared to be needed; the applicable increase in the CPI was 3.5 percent.) The law also requires the Office of the Actuary, Social Security Administration, to study possible changes to the automatic-adjustment provisions.

Public Law 98-617 (enacted into law on November 8, 1984) made two changes to the public-pension offset, which reduces the OASDI benefits of certain spouses and widow(er)s who are eligible for both OASDI benefits and governmental pensions based on employment which was not covered by Social Security. The first change extends the two-thirds offset (which was first enacted in the 1983 amendments) to persons eligible for governmental pensions before July 1983. Previously, the OASDI benefit to such a person was offset by the entire pension amount. The second change allows certain Federal employees and retirees to qualify for the exceptions to the public-pension offset if they were not eligible to receive their Federal pension benefits until either December 1982 or July 1983 and they were otherwise eligible for such benefits in the prior month. (This change takes account of legislation enacted in 1981 which delayed eligibility for Federal pension benefits by 1 month.)

Details of these amendments can be found in documents prepared by and for the Congress. In certain cases, estimates of the financial effects of the new provisions can be found in these documents. The actuarial projections shown in this report reflect the effects of these amendments.

IV. NATURE OF THE TRUST FUNDS

The Federal Old-Age and Survivors Insurance Trust Fund was established on January 1, 1940, as a separate account in the United States Treasury. All the financial operations of the OASI program are handled through this fund. The Federal Disability Insurance Trust Fund is another separate account in the United States Treasury; it was established on August 1, 1956. All the financial operations of the DI program are handled through this fund.

The major sources of receipts of these two funds are (1) amounts appropriated to each of them under permanent authority on the basis of contributions paid by workers, their employers, and individuals with selfemployment income, in work covered by the OASDI program, and (2) amounts deposited in each of them representing contributions paid by or on behalf of workers employed by State and local governments and by such employers with respect to wages covered by the program. All employees, and their employers, in covered employment are required to pay contributions with respect to their wages. Employees are required to pay contributions with respect to all cash tips, but employers are required to pay contributions on only that part of tip income deemed to be wages under the Federal minimum-wage law. All self-employed persons are required to pay contributions with respect to their covered net earnings from self-employment. In addition to making the required employer contributions on the earnings of covered Federal employees, the Federal Government also pays amounts equivalent to the employer and employee contributions that would be paid on deemed wage credits attributable to military service performed after 1956 if such wage credits were covered wages.

In general, an individual's contributions, or taxes, are computed on annual wages or net earnings from self-employment, or both wages and net self-employment earnings combined, up to a specified maximum annual amount. The contributions are determined first on the wages and then on any net self-employment earnings, such that the total does not exceed the annual maximum amount. An employee who pays contributions on wages in excess of the annual maximum amount (because of employment with two or more employers) is eligible for a refund of the excess employee contributions. The monthly benefit amount to which an individual (or his or her spouse and children) may become entitled under the OASDI program is based on the individual's covered earnings over his or her lifetime. In computing benefits for almost all persons who first become eligible to receive benefits in 1979 or later, the earnings in each year are indexed to take account of increases in average wage levels. The maximum amount of earnings on which contributions are payable in a year is also the maximum amount of earnings creditable for benefitcomputation purposes in that year (the contribution and benefit base).

The contribution rates, or tax rates, applicable in each calendar year, and the allocation of the rates between the two trust funds, are shown in table 1. For 1986 and later, the rates shown are those scheduled in present law. The contribution and benefit bases are also shown in table 1. The bases for 1975-78 were determined under the automatic-adjustment provisions in section 230 of the Social Security Act. The bases for 1979-

81 were specified in the law, as amended in 1977. The bases for 1982-85 were again determined under the automatic-adjustment provisions, as will be the bases in 1986 and later.

TABLE 1.—CONTRIBUTION AND BENEFIT BASE AND CONTRIBUTION RATES

	.		Cor	ntribution n	ates (percer	rt)	
	Contribution and benefit	Employees and employers, each			Self-employed		
Calendar years	base	OASDI	OASI	DI	OASDI	OASI	
1937-49	\$3,000	1.000	1.000				
1950	3,000	1,500	1,500	_	_	_	_
1951-53	3,600	1,500	1.500	_	2.2500	2.2500	
1954	3,600	2.000	2.000	_			_
1955-56	4,200	2.000	2.000	_	3.0000 3.0000	3.0000 3.0000	_
	,,	2.000	2.000	_	3.0000	3.0000	_
1957-58	4,200	2.250	2.000	0.250	3.3750	3.0000	0.075
1959	4.800	2.500	2.250	.250	3.7500		0.375
1960-61	4,600	3.000	2.750	.250		3.3750	.375
1962	4,800	3,125	2.750		4.5000	4.1250	.375
1963-65	4,800			.250	4.7000	4.3250	.375
	4,000	3.625	3.375	.250	5.4000	5.0250	.375
1966	6.800	3.850	3.500	.350	F 0000		
1967	8,800	3.900			5.8000	5.2750	.525
1968	7.800		3.550	.350	5.9000	5.3750	.525
1969		3.800	3.325	.475	5.8000	5.0875	.712
1070	7,800	4.200	3.725	.475	6.3000	5.5875	.712
1970	7,800	4.200	3.650	.550	6.3000	5.4750	.825
1971	7.800	4.000					
1972		4.800	4.050	.550	8.9000	6.0750	.825
1072	9,000	4.800	4.050	.550	6.9000	6.0750	.825
973	10,800	4.850	4.300	.550	7.0000	8.2050	.795
974	13,200	4.950	4.375	.575	7.0000	6.1850	.815
1975	14,100	4.950	4.375	.575	7.0000	6.1850	.815
1978	45.000						
1977	15,300	4.950	4.375	.575	7.0000	6.1650	.815
077	16,500	4.950	4.375	.575	7.0000	6.1850	.815
1978	17,700	5.050	4.275	.775	7.1000	6.0100	1,090
1979	22,900	5.080	4.330	.750	7.0500	6.0100	1.040
1980	25,900	5.080	4.520	.560	7.0500	6.2725	.777
981							
000	29,700	5.350	4.700	.650	8.0000	7.0250	.975
982	32,400	5.400	4.575	.825	6.0500	8.8125	1.237
983	35,700	5.400	4.775	.625	8.0500	7.1125	.937
9841	37,800	5,700	5.200	.500	11.4000	10.4000	1.000
9651	39,800	5.700	5.200	.500	11.4000	10.4000	1.000
Rates scheduled in present law:							
prosent kiw;							
986-871	(*)	5.700	5.200	.500	11.4000	10.4000	1.000
988-891	(*)	6.060	5.530	.530	12.1200	11.0600	1.060
990-99	(*) (*)	6.200	5.800	.600	12.4000	11,2000	
2000 and later	74	6.200	5.490	.710	12.4000	10.9800	1.2000

¹In 1984 only, an immediate tax credit of 0.3 percent of covered wages was allowed against the OASDI contributions paid by employees, resulting in an effective contribution rate of 5.4 percent (as compared to the employer rate of 5.7 percent). Similar credits of 2.7 percent, 2.3 percent, and 2.0 percent are allowed against the combined OASDI and HI contributions on net earnings from self-employment in 1984, 1985, and 1986-89, respectively.

All contributions are collected by the Internal Revenue Service and deposited in the general fund of the Treasury, except for amounts received under State agreements (to effectuate coverage under the program for State and local government employees), which are deposited directly in the trust funds. The deposits in the general fund are automatically appropriated to the trust funds on an estimated basis. The exact amount of contributions received is not known initially because contributions under the OASDI and HI programs and individual income taxes are not separately identified in collection reports received by the Department of the Treasury. Periodic adjustments are subsequently made to the extent that the estimates are found to differ from the amounts of contributions actually payable as determined from reported

Subject to automatic adjustment.

earnings. Adjustments are also made to account for any refunds to employees (with more than one employer) who paid contributions on wages in excess of the contribution and benefit base.

Prior to May 1983, the contributions collected by the Internal Revenue Service were transferred to the trust funds immediately upon receipt. Beginning in May 1983, estimated total collections for each month are credited to the trust funds on the first day of the month. As the actual collections are received during the month, they are deposited in the general fund of the Treasury and remain there. The trust funds pay interest to the general fund to reimburse it for the interest costs attributable to these advance transfers.

In 1984 only, an immediate tax credit of 0.3 percent of covered wages was allowed against the OASDI contributions paid by employees, resulting in an effective contribution rate of 5.4 percent (as compared to the employer rate of 5.7 percent). The appropriations of contributions to the trust funds, however, were based on a combined employee-employer rate of 11.4 percent, as if the credit for employees did not apply. Similar credits of 2.7 percent, 2.3 percent, and 2.0 percent are allowed against the combined OASDI and HI contributions on net earnings from self-employment in 1984, 1985, and 1986-89, respectively. The appropriations of contributions to the trust funds, however, are based on the contribution rates, before adjustment for the credit, that apply in each year. After 1989, self-employed persons will be allowed a deduction, for purposes of Federal income taxes, equal to half of the combined OASDI and HI contributions payable, but this will not affect appropriations to the trust funds.

Beginning in 1984, a portion (not more than one-half) of OASDI benefits are subject to Federal income taxation under certain circumstances. The proceeds from this taxation of benefits are credited to the trust funds, in advance, on an estimated basis, at the beginning of each calendar quarter, with no reimbursement to the general fund for interest costs attributable to the advance transfers. Subsequent adjustments are made based on the actual amounts as shown on annual income tax records. The amounts appropriated from the general fund of the Treasury are allocated to the OASI and DI Trust Funds on the basis of the income taxes paid on the benefits from each fund.

Another source of income to the trust funds is interest received on investments held by the trust funds. That portion of each trust fund which, in the judgment of the Managing Trustee, is not required to meet current expenditures for benefits and administration is invested, on a daily basis, 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. These obligations 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 funds. The Act provides that these obligations shall bear interest at a rate equal to 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 then 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.

The major expenditures of the OASI and DI Trust Funds are for (1) OASDI benefit payments, net of any reimbursements from the general fund of the Treasury for unnegotiated benefit checks, and (2) expenses incurred by the Department of Health and Human Services and by the Department of the Treasury in administering the OASDI program and the provisions of the Internal Revenue Code relating to the collection of contributions. Such administrative expenses include expenditures for construction, rental and lease, or purchase of office buildings and related facilities for the Social Security Administration. The Social Security Act does not permit expenditures from the OASI and DI Trust Funds for any purpose not related to the payment of benefits or administrative costs for the OASDI program.

The income and expenditures of the trust funds are also affected by the provisions of the Railroad Retirement Act which provide for a system of coordination and financial interchange between the Railroad Retirement program and the Social Security programs. Under these provisions, transfers between the Railroad Retirement Account and the trust funds are made on an annual basis in order to place each trust fund in the same position in which it would have been if railroad employment had always been covered under Social Security.

Several other provisions in the Social Security Act also affect the income and expenditures of the trust funds. Income is affected by provisions for (1) transfers between the general fund of the Treasury and the OASI and DI Trust Funds for any adjustments to prior reimbursements for the cost arising from the granting of noncontributory wage credits for military service prior to 1957, according to periodic determinations made by the Secretary of Health and Human Services (the estimated future cost of such wage credits was paid in a lump sum on May 20, 1983, in accordance with section 151 of Public Law 98-21); (2) annual reimbursements from the general fund of the Treasury to the OASI Trust Fund for any costs arising from the special monthly cash payments to certain uninsured persons—i.e., those who attained age 72 before 1968 and who generally are not eligible for cash benefits under other provisions of the OASDI program; and (3) the receipt of unconditional money gifts or bequests made for the benefit of the trust funds or any activity financed through the funds. In addition to the payment of cash benefits and administrative expenses from the trust funds, expenditures are authorized for the costs of vocational rehabilitation services furnished as an additional benefit to disabled persons receiving cash benefits because of their disability where such services contributed to their successful rehabilitation.

The net worth of facilities and other fixed capital assets is not carried in the statements of the operations of the trust funds presented in this report. This is because the value of fixed capital assets does not represent funds available for the payment of benefits or administrative expenditures, and therefore is not considered in assessing the actuarial status of the trust funds.

The Social Security Act authorizes borrowing among the OASI, DI, and HI Trust Funds when necessary "to best meet the need for financing the benefit payments" from the three funds. The timing and amounts of the loans are largely at the discretion of the Managing Trustee, although no loans can be made after 1987. Loans may not be made from a trust fund if its assets (excluding any amounts borrowed) represent less than 10 percent of its current annual rate of expenditures. The law also specifies that interest on borrowed amounts will be paid monthly at a rate "equal to the rate which the lending Trust Fund would earn on the amount involved if the loan were an investment."

In this report, the assets of a trust fund include any amounts owed to other trust funds. The assets of a trust fund to which amounts are owed do not include such amounts. This procedure is followed because borrowed amounts are available for the payment of benefits or other obligations of the borrowing fund, while such amounts are not readily available to the lending fund.

At the end of each year through 1988, if the combined assets of the OASI and DI Trust Funds exceed 15 percent of the estimated outgo in the next year, such excess over 15 percent must be used to repay any amounts owed to the HI Trust Fund. The same rule applies to loans from the OASI and DI Trust Funds to the HI Trust Fund, although no such loans are anticipated. In any case, all interfund loans must be completely repaid before 1990.

V. SUMMARY OF THE OPERATIONS OF THE OLD-AGE AND SURVIVORS INSURANCE AND DISABILITY INSURANCE TRUST FUNDS, FISCAL YEAR 1984

A. OLD-AGE AND SURVIVORS INSURANCE TRUST FUND

A statement of the income and disbursements of the Federal Old-Age and Survivors Insurance Trust Fund in fiscal year 1984 and of the assets of the fund at the beginning and end of the fiscal year is presented in table 2.

TABLE 2.—STATEMENT OF OPERATIONS OF THE OASI TRUST FUND DURING FISCAL YEAR 1984 [In thousands]

Total assets ¹ , September 30, 1983	_	\$26,660,674
Receipts:	=	
Contributions:		
Appropriations:		
Employment taxes	\$137,543,798 3,607,922	
Total appropriations	141,151,720	
Deposits arising from State agreements Payments from general fund of the Treasury representing employee- employer contributions on deemed wage credits for military service in	14,915,803	
1964 and adjustments for service in prior years	782,000	
Gross contributions	156,849,523	
Less payment to the general fund of the Treasury for contributions subject	100,010,020	
to refund	296,050	
Net contributions		156,553,473
Withheld from benefit payments to non-resident aliens	63,157	
All other, not subject to withholding	2,069,000	
Total income from taxation of benefits. Reimbursement from general fund of the Treasury for costs of payments to uninsured persons who attained age 72 before 1988:		2,132,157
Benefit payments	00 007	
Administrative expenses	98,287 733	
Interest	25,494	
Total reimbursement		124.514
Investment income and interest adjustments:		124,014
Interest on investments	2,759,587	
trative expenses and construction costs. Interest on general fund payments for adjustment to deemed wage credits	1,614	
for military service in 1957-83	1,732,000	
Gross investment income and interest adjustments	4,493,201	
Less interest on interfund loans from DI and HI Trust Funds	1,882,515	
Less interest on general fund advance tax transfers. Less interest on transfers to the general fund account for the Supplemental Security income program due to adjustment in allocation of adminis-	882,851	
trative expenses.	9,323	
Net investment income and interest adjustmentsGifts		1,918,513 158
Total receipts	***	160,728,814
		100,720,014

TABLE 2.—STATEMENT OF OPERATIONS OF THE OASI TRUST FUND DURING FISCAL YEAR 1984 (Cont.) [In thousands]

• • • • • • • • • • • • • • • • • • • •		
Disbursements: Benefit payments: Gross benefit payments. Less collected overpayments Less reimbursement for unnegotiated checks	\$156,582,148 736,542 21,000	
Net benefit payments		\$155,824,605 2,404,002
For current fiscal yearFor prior fiscal years	109 5,945	
Total payment for costs of vocational rehabilitation services	1,427,079 125,969 32,417	6,054
Gross administrative expenses. Less reimbursements from general fund of the Treasury for costs of furnishing information on deferred vested pension benefits. Less receipts from sales of supplies, materials, etc.	1,585,465 95 133	
Net administrative expenses		1,585,237
Total disbursements	_	159,819,899
Net increase in assets	-	908,915
Total assets ¹ , September 30, 1984	-	27,589,589

Assets include amounts, totaling \$17,518,523,025.38, lent to the OASI Trust Fund from the DI and HI Trust Funds.

Note: Totals do not necessarily equal the sums of rounded components.

The total assets of the OASI Trust Fund amounted to \$26,661 million on September 30, 1983. During fiscal year 1984, total receipts amounted to \$160,729 million, and total disbursements were \$159,820 million. The assets of the OASI Trust Fund thus increased by \$909 million during the year, to a total of \$27,570 million on September 30, 1984.

Included in total receipts during fiscal year 1984 were \$141,152 million representing contributions appropriated to the fund (including transfers of \$3,608 million from the general fund of the Treasury to offset the tax credits allowed against contributions due on 1984 earnings of employees and self-employed persons). Also included in total receipts were \$14,916 million representing amounts received by the Secretary of the Treasury in accordance with State agreements for coverage of State and local government employees and deposited in the trust fund. Another \$782 million was received from the general fund of the Treasury representing payments for (1) the contributions that would have been paid on deemed wage credits for military service in 1984 if such credits had been considered to be covered wages, and (2) an adjustment to such contributions on deemed wage credits for military service in 1957-83. As an offset, \$296 million was transferred from the trust fund to the general fund of the Treasury for the estimated amount of refunds to employees who worked for more than one employer during a year and paid contributions on wages in excess of the contribution and benefit base.

Net contributions (including the general fund payments for deemed military-service wage credits and tax credits) amounted to \$156,553 million, an increase of 15.0 percent over the amount in the preceding fiscal year. This level of growth in contribution income resulted

primarily from the net effects of (1) the higher level of earnings in covered employment; (2) the increases in the OASI contribution rates for employees, employers, and self-employed persons that became effective on January 1 of each year 1983 and 1984; (3) the increases in the contribution and benefit base that became effective on January 1 of each year 1983 and 1984; and (4) the decrease in the general fund transfer attributable to deemed wage credits for military service after 1956. (Table 1 in the preceding section shows the contribution rates and the contribution and benefit bases that became effective for 1983 and 1984.)

Income from the taxation of benefits amounted to \$2,132 million, of which 97 percent represented amounts credited to the OASI Trust Fund in advance, on an estimated basis, at the beginning of each calendar quarter. The first such amount credited to the fund was on January 1, 1984. The remaining 3 percent of the total income from taxation of benefits represented amounts withheld from the benefits paid to non-resident aliens, beginning with their checks issued on January 3, 1984.

Reference has been made above and in earlier sections to provisions of the Social Security Act under which the OASI and DI Trust Funds receive payments from the general fund of the Treasury (retroactive to 1957) representing contributions that would be payable if deemed wage credits for military service after 1956 were covered wages. The first such payment, on May 20, 1983, represented contributions, accumulated with interest, on deemed wage credits for military service in 1957-83. The payment was adjusted for the value of past reimbursements for the costs associated with such credits. On June 1, 1984, an additional payment of \$2,198 million was made to reflect revisions in the amounts for 1957-83. This payment was the sum of \$466 million in principal and \$1,732 million in interest. A payment in July 1984, amounting to \$316 million, was the first of the series of annual payments representing contributions on deemed wage credits granted for current military service.

Special payments are made to uninsured persons who either attained age 72 before 1968, or who attained age 72 after 1967 and had 3 quarters of coverage for each year after 1966 and before the year of attainment of age 72. The costs associated with providing such payments to persons having fewer than 3 quarters of coverage are reimbursable from the general fund of the Treasury. Accordingly, a reimbursement of \$125 million was transferred to the OASI Trust Fund in fiscal year 1984, as required by section 228 of the Social Security Act. The reimbursement reflected the costs of payments made in fiscal year 1982 and adjustments in the costs of payments made in prior fiscal years.

The OASI Trust Fund received \$157,574 in gifts in fiscal year 1984 under the provisions authorizing the deposit of money gifts or bequests in the OASI and DI Trust Funds.

The remaining \$1,919 million of receipts consisted of (1) interest on the investments of the trust fund; (2) interest on the general fund transfers for adjustments to deemed wage credits granted for military service in 1957-83 (as described previously); and (3) interest on adjustments in the allocation of administrative expenses and construction costs for the prior fiscal year. These interest amounts were partially offset by

interest paid on amounts owed to the DI and HI Trust Funds as a result of interfund borrowing which occurred in fiscal year 1983, and by payments from the trust fund to the general fund of the Treasury for its interest costs resulting from the advance transfer of contributions.

Of the \$159,820 million in total disbursements, \$155,825 million was for net benefit payments, excluding collected overpayments of \$737 million and the reimbursement of \$21 million for unnegotiated benefit checks. This represents an increase of 5.3 percent over the corresponding amount for benefit payments in fiscal year 1983. This increase was due primarily to (1) the automatic cost-of-living benefit increase of 3.5 percent which became effective for December 1983 under the automaticadjustment provisions in section 215(i) of the Social Security Act, and (2) increases in the total number of beneficiaries and in the average benefit amounts resulting from the rising level of earnings.

As described in the preceding section, certain provisions of the Railroad Retirement Act coordinate the Railroad Retirement and OASI programs and govern the financial interchanges arising from the allocation of costs between the two programs. In accordance with these provisions, the Railroad Retirement Board and the Secretary of Health and Human Services determined that a transfer of \$2,246 million to the Railroad Retirement Account from the OASI Trust Fund would place this trust fund in the same position as of September 30, 1983, in which it would have been if railroad employment had always been covered under the Social Security Act. A total amount of \$2,404 million was transferred to the Railroad Retirement Account in June 1984, including interest to the date of transfer amounting to \$158 million.

Expenditures of the OASI program for the costs of vocational rehabilitation services amounted to \$6,054,296. Rehabilitation services were furnished to disabled adults (children of old-age beneficiaries and survivors of deceased insured workers) who were receiving monthly benefits from the OASI Trust Fund because of their disabilities. The reimbursement by the trust funds for such services is limited to certain cases where a return to substantial gainful activity results (at least in part) from the rehabilitation services.

The remaining \$1,585 million of disbursements from the OASI Trust Fund represents net administrative expenses. The expenses of administering the programs financed through the four trust funds (the OASI, DI, HI, and Supplementary Medical Insurance Trust Funds) are allocated and charged directly to each trust fund on the basis of provisional estimates. Similarly, the expenses of administering the Supplemental Security Income program 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 effected by interfund transfers, including transfers between the OASI Trust Fund and the general fund account for the Supplemental Security Income program, with appropriate interest adjustments.

Section 1131 of the Social Security Act authorizes annual reimbursements from the general fund of the Treasury to the OASI Trust Fund for additional administrative expenses incurred as a result of furnishing

information on deferred vested benefits to pension plan participants, as required by the Employee Retirement Income Security Act of 1974 (Public Law 93-406). The reimbursement in fiscal year 1984 amounted to \$95,228.

Net administrative expenses charged to the OASI and DI Trust Funds in fiscal year 1984 totaled \$2,170 million. (The operations of the DI Trust Fund are presented in detail in the next subsection.) This amount represented 1.3 percent of contribution income and 1.3 percent of expenditures for benefit payments. Corresponding percentages for each of the last 5 years for the OASDI program as a whole and for each trust fund separately are shown in table 3.

TABLE 3.—RELATIONSHIP OF NET ADMINISTRATIVE EXPENSES OF THE OASDI PROGRAM TO CONTRIBUTION INCOME AND BENEFIT PAYMENTS, BY TRUST FUND, FISCAL YEARS 1980-84

	Total— Administr as a percen		OASI Trus Administrativ as a percer	e expenses	DI Trust Administrativ as a percen	e expenses
Fiscal year	Total contribu- tion income	Total benefit payments	Contribution income	Benefit payments	Contribution income	Benefit payments
1980	1.3	1.3	1.2	1.2	2.0	2.2
1981	1.3	1.2	1.7	11	3.2	2.4
1982	1.4	1.3	1.2	1.1	2.7	3.3
1983	1.4	1.3	1.1	1.0	3.5	3.8
1984	1.3	1.3	1.0	1.0	3.6	3.3

Reference has been made in an earlier section to provisions of the Social Security Act authorizing interfund borrowing among the OASI, DI, and HI Trust Funds. In fiscal year 1983, \$17,519 million was lent to the OASI Trust Fund under these provisions—\$5,081 million from the DI Trust Fund and \$12,437 million from the HI Trust Fund. Neither repayments nor new interfund loans were made in fiscal year 1984. Thus, these amounts were still owed to the DI and HI Trust Funds at the end of the year.

In table 4, the actual amounts of contributions and benefit payments in fiscal year 1984 are compared with the corresponding estimated amounts which appeared in the 1983 and 1984 Annual Reports. The estimates shown are the ones based on the alternative II-B set of assumptions from each report. The actual experience for each trust fund was quite close, relatively, to the estimates in the 1984 Annual Report. Actual OASI and DI contributions were slightly greater than estimated in the 1983 Annual Report, due primarily to growth in the economy that exceeded expectations. Actual DI benefit payments, however, were also somewhat above the 1983 estimates, primarily as a result of the disability reform initiatives announced by the Secretary of Health and Human Services in June 1983, and certain court orders and moratoria affecting the processing of continuing disability reviews. With respect to contribution income, the difference between estimated and actual experience would have been larger if the assumed inflation rate had been as low as the actual rate.

Reference was made in an earlier section to the appropriation of contributions to the trust funds on an estimated basis, with subsequent periodic adjustments to account for differences from the amounts of contributions actually payable on the basis of reported earnings. In interpreting the figures in table 4, it should be noted that the "actual"

amount of contributions in fiscal year 1984 reflects the aforementioned adjustments to contributions for prior fiscal years. The "estimated" contributions in fiscal year 1984 also include the adjustments for prior years but on an estimated basis.

TABLE 4.—COMPARISON OF ACTUAL AND ESTIMATED OPERATIONS OF THE OASI AND DI TRUST FUNDS, FISCAL YEAR 1984 [Amounts in millions]

	OASI Trust Fund		DI Trust I	und
_	Net contributions	Benefit payments ¹	Net contributions	Benefit payments:
Actual amount Estimated amount published in 1983 report Actual as percentage of estimate Estimated amount published in 1984 report Actual as percentage of estimate	\$156,553 \$155,183 100.9 \$157,275 99.5	\$155,831 \$155,546 100.2 \$156,509 99.6	\$16,394 \$16,280 100.7 \$16,442 99.7	\$17,772 \$17,134 103.7 \$17,705 100.4

Includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities.

At the end of fiscal year 1984, about 36.3 million persons were receiving monthly benefits under the OASDI program. About 32.5 million of these persons were receiving monthly benefits from the OASI Trust Fund. The distribution of benefit payments (before reflecting the reimbursement for unnegotiated checks) in fiscal years 1983 and 1984, by type of beneficiary, is shown in table 5. Approximately 77 percent of the total benefit payments from the OASI Trust Fund in fiscal year 1984 represented monthly benefits to retired workers and their spouses and children, and about 17 percent represented monthly benefits to aged survivors and disabled widows and widowers of deceased workers. Approximately 6 percent of the benefit payments represented monthly benefits on behalf of children of deceased workers and monthly benefits to widowed mothers and fathers who had such children in their care.

TABLE 5.—ESTIMATED DISTRIBUTION OF BENEFIT PAYMENTS FROM THE OASI TRUST FUND, BY TYPE OF BENEFICIARY AND PAYMENT, FISCAL YEARS 1983 AND 1984

	Fiscal y	Fiscal year 1983		ear 1984
	Amount	Percentage of total	Amount	Percentage of total
Total	\$148,312	100.0	\$155,846	100.0
Monthly benefits	148,106	99.9	155,632	99.9
Retired workers and auxiliaries	112,914	76.1	119,366	76.8
Retired workers	102,533	69.1	108,495	69.6
Wives and husbands	9,224	6.2	9,731	6.2
Children	1,157	0.8	1,141	0.7
Survivors of deceased workers	35,102	23.7	36,192	23.2
Aged widows and widowers	24,792	16.7	26,475	17.0
Disabled widows and widowers	348	0.2	380	0.2
Parents	58	(1)	54	(¹) 5.0
Children	8,029	5.4	7,803	5.0
beneficiaries	1.877	1.3	1,478	0.9
Uninsured persons generally aged 72 before 1968	89	0.1	74	(1)
Lump-sum death payments	206	0.1	214	0.1

Less than 0.05 percent.

Note: Totals do not necessarily equal the sums of rounded components.

The assets of the OASI Trust Fund at the end of fiscal year 1984 totaled \$27,570 million, consisting of \$27,224 million in U.S. Government obligations and an undisbursed balance of \$346 million. Table 6 shows the total assets of the fund and their distribution at the end of each fiscal year 1983 and 1984.

TABLE 6.—ASSETS OF THE OASI TRUST FUND, BY TYPE, AT END OF FISCAL YEAR, 1983 AND 1984

Obligations sold only to the trust funds (special issues): Certificates of indebtedness: 11 - percent, 1984	\$7,421,193,000.00	\$6,671,094,000.00
Certificates of indebtedness: 11 i-percent, 1984	3,770,272,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	
121-percent, 1985	3,770,272,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	
Bonds: 10!-percent, 1984	3,770,272,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	
101-percent, 1984	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	
10!-percent, 1985	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
10[-percent, 1986	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
10[-percent, 1986	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
101-percent, 1987	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
102-percent, 1988 102-percent, 1989	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
101-percent, 1989	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
	1,022,231,000.00 1,022,231,000.00 1,022,231,000.00	1,022,231,000.0 1,022,231,000.0
101-percent, 1990	1,022,231,000.00 1,022,231,000.00	1,022,231,000.0
101-percent, 1991	1,022,231,000.00	1 022 221 000 0
10{-percent, 1992		
101-percent, 1993	1,022,231,000,00	1,022,231,000.0
10{-percent, 1994	1,022,231,000.00	1,022,231,000.0
101-percent, 1995	1,022,231,000.00	1,022,231,000.0
101-percent, 1996	1,022,231,000.00	1,022,231,000.0
101-percent, 1997	1,022,230,000,00	1,022,230,000.0
101-percent, 1996	1,022,230,000.00	1,022,230,000.0
13 - percent, 1985	.,022,200,000.00	3,770,272,000.0
13‡-percent, 1986	_	371,341,000.0
13 - percent, 1989	_	1,336,981,000.0
13 -percent, 1990	_	469,684,000.0
13 -percent, 1991	<u>=</u>	469,684,000.0
13 -percent, 1992		469,684,000.0
131-percent, 1993		469,684,000.0
131-percent, 1994		469,684,000.0
131-percent, 1995	<u> </u>	469,684,000.0
13 -percent, 1998		469,684,000.0
131-percent, 1997	_	469,685,000.0
131-percent, 1998	_	
131-percent, 1999	_	469,685,000.0
_	<u> </u>	1,491,915,000.0
otal investments	25,502,697,000.00	27,223,772,000.0
ndisbursed balances	1,157,976,874.71	345,816,750.9
Total assets	26,660,673,874.71	27,569,588,750,9

Note: Special issues are always purchased at their initial issue, at par value, and are redeemable at par value even if redeemed prior to maturity. Therefore, book value and par value are the same for each special issue, and the common value is shown above.

The amount of securities acquired during fiscal year 1984 exceeded the amount redeemed by \$1,721 million. New securities with a total par value of \$187,338 million were acquired during the fiscal year through the investment of receipts and the reinvestment of funds made available from the redemption of securities. The par value of securities redeemed during the fiscal year was \$185,617 million. Included in these amounts are \$170,544 million in certificates of indebtedness that were acquired, and \$171,294 million in certificates of indebtedness that were redeemed.

The effective annual rate of interest earned by the assets of the OASI Trust Fund during the 12 months ending on June 30, 1984, was 11.1 percent. (This period is used, rather than the fiscal year, 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 1984 was 13.75 percent, payable semiannually. Special-issue bonds with a total par value of \$16,794 million were purchased in that month. Although the interest rate on Treasury bonds is generally limited by law to 4½ percent, the law authorizes the issuance of bonds to the trust funds at rates of interest exceeding 4½ percent.

Section 201(d) of the Social Security Act provides that the public-debt obligations issued for purchase by the OASI and DI Trust Funds shall have maturities fixed with due regard for the needs of the funds. The general practice in the past has been to spread the maturity dates for the holdings of special issues as nearly as practicable in equal amounts over a 15-year period. In recent years, however, a somewhat different procedure has been followed. In these years, maturity dates on new issues were set by first providing for specific cash-flow requirements in the immediate future (including the anticipated repayment of interfund loans) and then setting maturity dates for any remaining new issues so that the total portfolio would be distributed as evenly as possible over a 15-year period. For example, on June 30, 1984, as part of the purchase of new special-issue bonds, \$3,770 million was set aside in a special 1-year bond in anticipation of a possible partial repayment of amounts lent to the OASI Trust Fund on December 31, 1982. Excluding \$3,770 million of the bond issues maturing June 30, 1985, the remaining amounts of the special-issue bonds purchased on June 30, 1984, were selected so that the holdings of special issues were spread evenly over the 15-year period 1985-99.

B. DISABILITY INSURANCE TRUST FUND

A statement of the income and disbursements of the Federal Disability Insurance Trust Fund during fiscal year 1984 and of the assets of the fund at the beginning and end of the fiscal year is presented in table 7.

TABLE 7.—STATEMENT OF OPERATIONS OF THE DI TRUST FUND DURING FISCAL YEAR 1984
[In thousands]

Total assets ¹ , September 30, 1983		\$5,289,529
Receipts:	_	
Contributions: Appropriations:		
Employment taxes	****	
Tax credits	\$14,375,865	
14X 0 0018	346,339	
Total appropriations	14,722,204	
Deposits arising from State agreements	1,618,286	
Payments from general fund of the Treasury representing employee.		
employer contributions on deemed wage credits for military service in		
1984 and adjustments for service in prior years	92,000	
Gross contributions	10 420 400	
Less payment to the general fund of the Treasury for contributions subject	16,432,490	
to refund	38,750	
	30,730	
Net contributions		16,393,740
Income from taxation of benefit payments:		,
Withheld from benefit payments to non-resident aliens	3,147	
All other, not subject to withholding	140,000	
Total income from taxation of benefits		440.44
INVESTMENT INCOME and interest adjustments:		143,147
Interest on investments	555,789	
IMETES OF INTERTUNG TRANSPARS GUE TO Adjustment in allocation of ediminia.	300,768	
trative expenses and construction costs	2,131	
Interest on general fund payments for adjustments to deemed were	2,101	
credits for military service in 1957-83	169,000	
Interest on loan to OASI Trust Fund	545,508	
Gross investment income and interest adjustments	1,272,428	
Less interest on general fund advance tax transfers	77,290	
Net investment income and interest adjustments		1,195,138
	_	
Total receipts		17,732,025
Benefit payments:		
Gross benefit payments	42.00.00.	
Less collected overpayments	17,624,614	
Less reimbursement for unnegotiated checks	89,290 3,000	
	3,000	
Net benefit payments		17,732,324
I fanster to Hairoad Hetirement Account		21,620
Payment for costs of vocational rehabilitation services for disabled beneficiaries:		. ,
For current fiscal year	731	
For prior fiscal years	39,298	
Total payment for costs of vocational rehabilitation services		40,029
Administrative expenses:		40,028
Department of Health and Human Services	561.960	
Department of the Treasury	21,534	
Construction of facilities for Social Security Administration.	1,587	
Gross administrative expenses		
Gross administrative expenses	585,061	
	67	
Net administrative expenses		584,993
Total disbursements	_	
· Value Visional Control III.		16,376,967
Met ingranes in seconds		
Net increase in assets		-646,942
Total assets Contamber 00 4004	_	
Total assets ¹ , September 30, 1984		4,642,587
Assets exclude amounts totaling \$5.091.252.900.49 January 45. CACLET		

Assets exclude amounts, totaling \$5,081,252,899.48, lent to the OASI Trust Fund.

Note: Totals do not necessarily equal the sums of rounded components.

The total assets of the DI Trust Fund amounted to \$5,290 million on September 30, 1983. During fiscal year 1984, total receipts amounted to

\$17,732 million, and total disbursements were \$18,379 million. The assets of the trust fund thus decreased by \$647 million during the year, to a total of \$4,643 million on September 30, 1984.

Included in total receipts were \$14,722 million representing contributions appropriated to the fund (including transfers of \$346 million from the general fund of the Treasury to offset the tax credits allowed against contributions due on 1984 earnings of employees and self-employed persons), \$1,618 million representing amounts received by the Secretary of the Treasury in accordance with State coverage agreements and deposited in the fund, and \$92 million in payments from the general fund of the Treasury representing (1) the contributions that would have been paid on deemed wage credits for military service in 1984 if such credits had been considered to be covered wages, and (2) an adjustment to such contributions on deemed wage credits for military service in 1957-83. As an offset, \$39 million was transferred from the trust fund to the general fund of the Treasury for the estimated amount of refunds to employees who worked for more than one employer during a year and paid contributions on wages in excess of the contribution and benefit base.

Net contributions amounted to \$16,394 million, a decrease of 13.9 percent from the amount for the preceding fiscal year. This decrease is primarily attributable to the decreases in the DI contribution rates for employees and employers that became effective on January 1 of each year 1983 and 1984. The change in the level of contributions also reflects the same factors, insofar as they apply to the DI program, that accounted for the change in contributions to the OASI Trust Fund (described in the preceding subsection).

Income from the taxation of benefit payments amounted to \$143 million.

The remaining \$1,195 million of receipts consisted of interest on the investments of the fund, plus net interest on amounts of interfund and general-fund transfers (see preceding subsection).

Of the \$18,379 million in total disbursements, \$17,732 million was for net benefit payments, excluding collected overpayments of \$89 million and the reimbursement of \$3 million for unnegotiated benefit checks. This represents an increase of 1.1 percent over the corresponding amount for benefit payments in fiscal year 1983. This increase reflects somewhat the same factors that resulted in the net increase in benefit payments from the OASI Trust Fund (as described in the preceding subsection). This increase also reflects the offsetting effects of (1) a continuing decline in the number of persons receiving benefits from the DI Trust Fund (although the decline appears to have stopped late in the fiscal year) and (2) reductions in outlays resulting from the Social Security Amendments of 1977 (Public Law 95-216) and the Social Security Disability Amendments of 1980 (Public Law 96-265).

Provisions governing the financial interchanges between the Railroad Retirement Account and the DI Trust Fund are similar to those described in the preceding subsection relating to the OASI Trust Fund. The determination made as of September 30, 1983, required that a transfer of \$20,200,000 be made from the DI Trust Fund to the Railroad Retirement Account. A total amount of \$21,620,000 was transferred to

the Railroad Retirement Account in June 1984, including interest to the date of transfer amounting to \$1,420,000.

The remaining disbursements amounted to \$585 million for net administrative expenses and \$40 million for the costs of vocational rehabilitation services furnished to disabled-worker beneficiaries and to those children of disabled workers who were receiving benefits on the basis of disabilities that began before age 22.

Prior to fiscal year 1982, the total amount of funds that could be made available in a fiscal year for paying the costs of vocational rehabilitation services could not exceed a specified percentage of the benefits certified for payment in the preceding fiscal year from the OASI and DI Trust Funds to disabled persons receiving benefits because of their disabilities. This statutory limitation was 1½ percent in fiscal years 1974 through 1981. Beginning with payments for fiscal year 1977, such funds were further curtailed by limitations in the Budget of the United States for each year. The Omnibus Budget Reconciliation Act of 1981 (Public Law 97-35) eliminated the statutory limitation on the amount of trust funds that could be used to pay for vocational rehabilitation services and instead limited reimbursement from the trust funds for the costs of such services to those cases where the services contributed to the successful rehabilitation of the beneficiary.

At the end of fiscal year 1984, about 3.8 million persons were receiving monthly benefits from the DI Trust Fund. The distribution of benefit payments in fiscal years 1983 and 1984, by type of beneficiary, is shown in table 8.

TABLE 8.—ESTIMATED DISTRIBUTION OF BENEFIT PAYMENTS FROM THE DI TRUST FUND, BY TYPE OF BENEFICIARY, FISCAL YEARS 1983 AND 1984 [Amounts in millions]

	Fiscal ye	ear 1983	Fiscal ye	ar 1984
	Amount	Percentage of total	Amount	Percentage of total
Total	\$17,588	100.0	\$17,735	100.0
Disabled workers Wives and husbands. Children	15,206 634 1,746	86.5 3.6 9.9	15,461 537 1,737	87.2 3.0 9.8

Note: Totals do not necessarily equal the sums of rounded components.

The assets of the DI Trust Fund at the end of fiscal year 1984 totaled \$4,643 million, consisting of \$4,654 million in U.S. Government obligations and, as an offset, an extension of credit amounting to \$12 million against securities to be redeemed within the following few days. Table 9 shows the total assets of the fund and their distribution at the end of each fiscal year 1983 and 1984.

TABLE 9.—ASSETS OF THE DI TRUST FUND, BY TYPE, AT END OF FISCAL YEAR, 1983 AND 1984

	Septemb	er 30, 1983	Septemb	er 30, 1984
	Par value	Book value ¹	Par value	Book value
Investments in public-debt			- IXVinada anno di	
obligations:				
Public issues:				
Treasury bonds:	\$10,500,000	\$10,324,773.35	\$10,500,000	\$10,352,440.9
31-percent, 1990 31-percent, 1998	5,000,000	4,843,027.55	5,000,000	4,853,434.5
4i-percent, 1989-	3,000,000	4,040,027.33	3,000,000	4,000,404.0
94	68,400,000	68,047,501.11	68,400,000	68,079,807.9
41-percent, 1975-	00,100,000	00,0 ,00	00,.00,000	00,0.0,00
85	20,795,000	20,792,665.94	20,795,000	20,794,139.4
41-percent, 1987-	,,			,,
92	80,800,000	80,834,606.40	80,800,000	80,825,578.92
8 - percent, 1984	15,000,000	15,004,972.72	_	_
71-percent, 1988-				
93	28,500,000	28,119,495.18	26,500,000	26,158,865.20
7 ii-per cent, 2002-				
07	10,000,000	9,995,394.22	10,000,000	9,995,590.9
8-percent, 1996-				
2001	28,000,000	25,980,154.78	26,000,000	25,981,267.5
81-percent, 2000-		0.705.445.40	0.750.000	0.705.000.0
05	3,750,000	3,735,145.13	3,750,000	3,735,830.6
11≵-percent, 2010	30,250,000	30,054,571.46	30,250,000	30,081,992.5
Total investments in				
public issues	296,995,000	295,732,307.82	281,995,000	280,838,948.7
Obligations and anh. to				
Obligations sold only to				
the trust funds (special				
issues):				
Certificates of indebt-				
edness: 11 i-percent, 1984	665,422,000	665,422,000.00	_	_
121-percent, 1985	000,422,000		394,612,000	394,612,000.0
Bonds:			001,012,000	00 1,012,000.0
8-percent, 1993	47,479,000	47,479,000.00	47,479,000	47,479,000.0
81-percent, 1994	339,277,000	339,277,000.00	339,277,000	339,277,000.0
91-percent, 1993	142,337,000	142,337,000.00	142,337,000	142,337,000.0
9‡-percent, 1994	142,336,000	142,336,000.00	142,336,000	142,336,000.0
91-percent, 1995	481,613,000	481,613,000.00	481,613,000	481,613,000.0
101-percent, 1985	195,340,000	195,340,000.00		
101-percent, 1986	287,956,000	287,956,000.00	_	
101-percent, 1987	287,956,000	287,956,000.00	187,593,000	187,593,000.0
101-percent, 1988	287,956,000	287,956,000.00	287,956,000	287,956,000.0
101-percent, 1989	287,956,000	287,956,000.00	287,956,000	287,956,000.0
101-percent, 1990	287,956,000	287,956,000.00	287,956,000	287,956,000.0
	287,956,000		287,956,000	287,956,000.0
101-percent, 1991	207,830,000	287,956,000.00		
101-percent, 1991 101-percent, 1992	287,956,000	287,956,000.00	287,956,000	287,956,000.0
101-percent, 1992 101-percent, 1993	287,956,000	287,956,000.00	287,956,000	98,140,000.0
101-percent, 1992	287,956,000 98,140,000	287,956,000.00 98,140,000.00	287,956,000 98,140,000	98,140,000.0 287,955,000.0
10ई-percent, 1992 10ई-percent, 1993 10ई-percent, 1996	287,956,000 98,140,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0
101-percent, 1992 101-percent, 1993 101-percent, 1996 101-percent, 1997	287,956,000 98,140,000 287,955,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0
10 - percent, 1992 10 - percent, 1993 10 - percent, 1996 10 - percent, 1997 10 - percent, 1998 13 - percent, 1999	287,956,000 98,140,000 287,955,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0
10ई-percent, 1992 10ई-percent, 1993 10ई-percent, 1996 10ई-percent, 1997 10ई-percent, 1998 13ई-percent, 1999 Total obligations sold	287,956,000 98,140,000 287,955,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0
10½-percent, 1992 10½-percent, 1993 10½-percent, 1996 10½-percent, 1997 10½-percent, 1999 13½-percent, 1999 Total obligations sold only to the trust	287,956,000 98,140,000 287,955,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0
10ई-percent, 1992 10ई-percent, 1993 10ई-percent, 1996 10ई-percent, 1997 10ई-percent, 1998 13ई-percent, 1999 Total obligations sold	287,956,000 98,140,000 287,955,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0 236,555,000.0
10½-percent, 1992 10½-percent, 1993 10½-percent, 1996 10½-percent, 1997 10½-percent, 1998 13¾-percent, 1999 Total obligations sold only to the trust funds (special issues)	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 236,555,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0 236,555,000.0
10 - percent, 1992 10 - percent, 1993 10 - percent, 1996 10 - percent, 1997 10 - percent, 1998 13 - percent, 1999 Total obligations sold only to the trust funds (special	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00 287,955,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 236,555,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0 236,555,000.0
10½-percent, 1992 10½-percent, 1993 10½-percent, 1996 10½-percent, 1997 10½-percent, 1998 13½-percent, 1999 Total obligations sold only to the trust funds (special issues)	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00 287,955,000.00 ————————————————————————————————	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 236,555,000 4,373,587,000	287,956,000.0 98,140,000.0 287,955,000.0 287,955,000.0 236,555,000.0 4,373,587,000.0 4,654,425,948.7
10½-percent, 1992 10½-percent, 1993 10½-percent, 1996 10½-percent, 1997 10½-percent, 1998 13½-percent, 1999 Total obligations sold only to the trust funds (special issues)	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 	287,956,000.00 98,140,000.00 287,955,000.00 287,955,000.00 287,955,000.00 4,991,501,000.00	287,956,000 98,140,000 287,955,000 287,955,000 287,955,000 236,555,000 4,373,587,000	98,140,000.0 287,955,000.0 287,955,000.0 287,955,000.0 236,555,000.0

Par value, plus unamortized premium or less discount outstanding.

^{*}Negative figure represented an extension of credit against securities to be redeemed within the following few days.

The amount of securities redeemed during fiscal year 1984 exceeded the amount acquired by \$633 million. New securities with a total par value of \$18,814 million were acquired during the fiscal year through the investment of receipts and the reinvestment of funds made available from the redemption of securities. The par value of securities redeemed during the year was \$19,447 million. Included in these amounts are \$17,909 million in certificates of indebtedness that were acquired, and \$18,180 million in certificates of indebtedness that were redeemed, during the fiscal year.

The effective annual rate of interest earned by the assets of the DI Trust Fund during the 12 months ending on June 30, 1984, was 10.6 percent. The interest rate on public-debt obligations issued for purchase by the trust fund in June 1984 was 13.75 percent, payable semiannually.

The investment policies and practices described in the preceding subsection concerning the OASI Trust Fund apply as well to the investment of the assets of the DI Trust Fund.

VI. ACTUARIAL ESTIMATES

Section 201(c)(2) of the Social Security Act requires the Board of Trustees to report annually to the Congress on the operations and status of the OASI and DI Trust Funds during the preceding fiscal year and on the expected operations and status of those trust funds during the ensuing 5 fiscal years. Such information for the fiscal year that ended September 30, 1984, is presented in the preceding section of this report. Estimates of the operations and status of the trust funds during fiscal years 1985-89 are presented in this section. Similar estimates for calendar years 1985-89 are also presented.

In the short range, the adequacy of the trust fund level is often measured by the "contingency reserve trust fund ratio," which is defined to be the assets at the beginning of the year, including advance tax transfers for January and amounts owed to other trust funds, expressed as a percentage of the outgo during the year. Thus, this ratio represents the proportion of the year's outgo which is available at the beginning of the year. The primary purpose of the trust funds is to act as contingency reserves. During periods when outgo temporarily exceeds income, as might happen during an economic recession, trust fund assets are used to meet the shortfall. In the event of recurring shortfalls for an extended period, the trust funds can allow sufficient time for the development of legislation to restore financial balance to the program. Although there is no general agreement regarding the appropriate size of the trust funds, each of them should be at least large enough to accomplish these purposes. When either trust fund is not this large, its future financing—to be considered adequate—must provide for rebuilding the fund within a reasonable period of time, without significant declines in the interim.

Section 201(c) of the Act also requires that the annual report include "a statement of the actuarial status of the Trust Funds." Such statements have customarily been made for the medium-range period (25 years) and the long-range period (75 years), each period commencing with the calendar year of issuance of the report. The statement of the long-range actuarial status has customarily included the actuarial status during the second and third 25-year subperiods of the long-range projection period. Statements of the current actuarial status are presented in this section. The methods used to estimate the actuarial status are described in Appendix A.

Basic to the discussion of the medium-range or long-range actuarial status are the concepts of "cost rate" and "total income rate," each of which is expressed as a percentage of taxable payroll. The OASDI taxable payroll consists of the total earnings which are subject to OASDI taxes, adjusted to include, after 1982, deemed wages based on military service, and to reflect the lower effective tax rates (as compared to the combined employee-employer rate) which apply to tips and to multiple-employer "excess wages," and which did apply, before 1984, to net earnings from self-employment. The cost rate is the ratio of the cost (or outgo or disbursements) of the program to the taxable payroll. In this context, the outgo is defined to include benefit payments, administrative expenses, net transfers under the financial interchange between the trust funds and the Railroad Retirement Account, and payments for vocation-

al rehabilitation services for disabled beneficiaries; it excludes special monthly payments to certain uninsured persons who generally attained age 72 before 1968, and transfers under the interfund borrowing provisions. Because the taxable payroll reflects the adjustments described above, the total income rate (or more simply, the income rate) can be defined to be the sum of the combined OASDI employee-employer tax rate (or the payroll tax rate) scheduled in the law and the rate of income from taxation of benefits (which is in turn expressed as a percentage of taxable payroll). As such, it excludes reimbursements from the general fund of the Treasury for the costs associated with the special payments to certain uninsured persons (as described above), transfers under the interfund borrowing provisions, and net investment income. For any year, the income rate minus the cost rate is referred to as the "balance" for the year.

Over the medium-range and long-range periods, the actuarial status of the trust funds is often summarized by the actuarial balance, which is the difference between the appropriate estimated average income rate and the estimated average cost rate (or, equivalently, the average of the annual balances for the years included in the appropriate projection period). If the actuarial balance is positive, the program is said to have an actuarial surplus, and if negative, an actuarial deficit. Such a deficit, if it exists, is a warning that, unless the projected trends turn out to be too pessimistic, changes in the program's financing or benefit provisions will be needed in the future.

The concept of actuarial balance must be used with caution. The use of a single measure to describe the status of the program over a period of many years may mask adverse patterns within that period or problems which emerge soon thereafter. The addition or deletion of a few years to the time period could change a surplus into a deficit, or vice versa. In addition, while early deficits followed by later surpluses could result in a positive actuarial balance, the trust fund could be depleted before the annual surpluses occur. Conversely, while early surpluses followed by later deficits could result in a positive actuarial balance, the trust fund that would accumulate in the early years could eventually be depleted at some point beyond the end of the 75-year projection period, leaving the program unable to pay benefits at that time. Thus, it is also important to note the year-by-year patterns of income and outgo.

Related to the concept of actuarial balance is that of "close actuarial balance." The program is said to be in close actuarial balance over the long-range period if the estimated average income rate is between 95 percent and 105 percent of the estimated average cost rate.

Estimates of income, outgo, cost rates, income rates, actuarial balances, and trust fund ratios are presented later in this section.

A. ECONOMIC AND DEMOGRAPHIC ASSUMPTIONS

The future income and outgo of the OASDI program depend on many economic and demographic factors, including gross national product, labor force, unemployment, average earnings, productivity, inflation, fertility, mortality, net immigration, marriage, divorce, retirement patterns, and disability incidence and termination. The income will depend on how these factors affect the size and composition of the working population and the general level of earnings. Similarly, the outgo will depend on how these factors affect the size and composition of the beneficiary population and the general level of benefits. Because precise forecasting of these various factors is impossible, estimates are shown in this report on the basis of four sets of assumptions, designated as alternatives I, II-A, II-B, and III.

The two intermediate sets—alternatives II-A and II-B—share the same demographic assumptions but differ in their economic assumptions. More robust economic growth is assumed for alternative II-A than for alternative II-B. This presentation illustrates the effect on the financial status of the program of higher real earnings growth, higher employment, and lower inflation, for a given set of demographic assumptions. In terms of the net effect on the status of the program, alternative II-A is more optimistic than is alternative II-B. Of all four sets, alternative I is the most optimistic, and alternative III is the most pessimistic.

Although these sets of economic and demographic assumptions have been developed using the best available information, the resulting estimates should be interpreted with care. In particular, they are not intended to be exact predictions of the future status of the OASDI program, but rather, they are intended to be indicators of the trend and range of future income and outgo, under a variety of plausible economic and demographic conditions.

Economic assumptions

The principal economic assumptions for the four alternatives are summarized in table 10.

TABLE 10.—SELECTED ECONOMIC ASSUMPTIONS BY ALTERNATIVE, CALENDAR YEARS 1960-2060

1900-2000										
Calendar year	Average annual percentage increase in-				Average	Average annual				
	Real GNP	Average earnings in covered employment	Consumer price index	Real-earnings differential* (percent)	annual in- terest rate ³ (percent)	unemploy- ment rate (percent)				
Past experience:				0.1	3.7	5.7				
1960-64	4.0	3.3	1.3	2.1		3.0				
1965-69	4.4	5.4	3.4	2.1	5.2					
1970	2	4.6	5.9	-1.4	7.3	4.9				
1971	3.4	5.0	4.3	.6	6.0	5.				
1972	5.7	7.1	3.3	3.8	5.9	5.				
1973	5.6	7.1	6.2	.9	6.6	4.				
	6	7.1	11.0	-3.9	7.5	5.				
1974		6.7	9.1	-2.5	7.4	8.				
1975	-1.2		5.7	2.6	7.1	7				
1976	5.4	8.4			7.1	7				
1977	5.5	6.9	6.5	.4						
1978	5.0	•9.6	7.6	•2.0	6.2	6				
1979	2.8	•8.9	11.4	•-2.5	9.1	5				
1980	3	•8.1	13.5	-5.4	11.0	7				
1981	2.5	•6.3	10.3	•-2.0	13.3	7				
1962	•-2.1	15.6	6.0	14	12.8	9.				
	3.7	4.3	3.0	•1.3	11.0	9.				
1983	-3.7	7.0	0.0							

TABLE 10.—SELECTED ECONOMIC ASSUMPTIONS BY ALTERNATIVE, CALENDAR YEARS 1960-2060 (Cont.)

Calendar year	Average ann	ual percentage inci	rease in—		Average annual in- terest rates (percent)	Average annual unemploy- ment rate ⁴ (percent)
	Real GNP ¹	Average earnings in covered employment	Consumer price index	Real-earnings differential* (percent)		
Alternative I:			· · · · · · · · · · · · · · · · · · ·		4	
1984	6.8	5.8	3,4	2.4	40.4	_
1985	4.1	3.7	3.2		12.4	7.
1986	4.2	5.4		.5	10.7	8.
1987	4.0		3.5	1.9	10.1	8.:
1007		5.5	3.7	1.9	9.5	6.
1988	4.0	5.4	3.5	1.9	8.9	5.
1989	3.9	5.6	3.1	2.5	8.0	5.
1990	3.2	4.3	2.7	1.6	7.0	5.
1991	3,1	4.3	2.3	2.0	5.9	5.
1992	3.1	4.2	2.0	2.2		
1993	3.1	4.3	2.0		5.4	5.
1994	3.1	4.4		2.3	5.3	4.
1995	3.7		2.0	2.4	5.1	4.
2000		4.6	2.0	2.6	5.0	5.
2000	3.8	4.6	2.0	2.6	5.0	5.
2010 & later	•3.1	4.5	2.0	2.5	5.0	5.
Itemative II-A:					0.0	٠.
1984	6.8	5.6	3.4	2.2	12.4	-
1985	3.9	3.9	3.6			7.
1986	3.8	5.6		.3	10.8	6.
1987	3.5		4.1	1.5	10.4	6.
		5.7	4.2	1.5	10.0	6.
1988	3.5	5.5	4.0	1.5	9.4	5.
1989	3.1	5.6	3.6	2.0	8.5	5.
1990	2.8	4.5	3.2	1.3	7.5	5.
1991	2.8	4.8	3.0	1.6		
1992	2.8	4.9	3.0		6.5	5.
1993	2.8	4.9		1.9	6.0	5.
1994	2.6		3.0	1.9	5.8	5.
1005		4.9	3.0	1.9	5.7	5.
1995	3.2	5.1	3.0	2.1	5.5	5.
2000	3.1	5.1	3.0	2.1	5.5	5.
2010 & later	42.5	5.0	3.0	2.0	5.5	5.
Iternative II-B:					0.0	J.
1984	6.8	5.3	3.4	1.9	12.4	-
1985	3.2	3.8	3.9	.0 .0		7.
1986	2.7	5.6			10:9	6.
1987	3.0		4.7	.8	10.8	6.
1988		6.4	5.3	1.1	10.7	6.
1900	3.0	6.1	5.0	1.1	10.4	6.
1989	2.9	6.2	4.6	1.6	9.6	6.
1990	2.5	5.2	4.2	1.0	8.5	6.
1991	2.5	5.4	4.0	1.4		
1992	2.5	5.6	4.0		7.5	6.
1993	2.5	5.6		1.6	6.9	5.
1994	2.5		4.0	1.6	6.6	5.
1995		5.6	4.0	1.6	6.3	5.
1993	2.6	5.6	4.0	1.6	6.0	6.
2000	2.6	5.6	4.0	1.6	6.0	6.
2010 & later	•2.0	5.5	4.0	1.5	6.0	
Itemative III:				1.5	0.0	6.
1984	6.8	4.8	3.4	4.4		_
1985	.7	3.1		1. <u>4</u>	12.4	7.9
1986	.ó		4.8	-1.7	11.1	7.
1987		4.4	5.9	-1.5	11.4	6.
	4.3	7.4	5.1	2.3	11.3	7.
1988	1.6	5.0	5.4	5	10.8	7.
1989	7	4.5	5.9	-1.5	10.1	
1990	4.0	7.1	4.6	2.4		8.
1991	2.6	6.0	4.8		9.3	7.9
1992	2.5			1.2	8.4	7.4
1993		6.4	5.0	1.4	7.7	7.
1994	2.2	6.3	5.0	1.3	7.3	6.9
	1.9	6.1	5.0	1.1	6.8	6.8
4005						0.0
1995	2.0	6.1	5.0	11	6.5	7 /
1995 2000 2010 & later	2.0 1.9 •1.4	6.1 6.1	5.0 5.0	1.1 1.1	6.5 6.5	7.0 7.0

¹The real GNP (Gross National Product) is the total output of goods and services, expressed in 1972 dollars.

^{*}The real-earnings differential is defined as the difference between the percentage increase in average annual earnings in covered employment and the percentage increase in the average annual CPI, before rounding.

^{*}The average annual interest rate is the average of the nominal interest rates, compounded semiannually, for special public-debt obligations issuable to the trust funds in each of the 12 months of the year.

Through 1994, the rates shown are crude civilian unemployment rates. For 1995 and later, the rates are total rates (including military personnel), adjusted by age and sex based on the total labor force on July 1, 1985.

Preliminary.

This value is for 2010. The annual percentage increase in real GNP is assumed to continue to change after 2010 for each alternative to reflect the dependence of labor force growth on the size and age-sex distribution of the population. The percentage increases for 2060 are 3.2, 2.3, 1.9, and 0.6 for alternatives I, II-A, II-B, and III, respectively.

Alternatives I, II-A, II-B, and III present a range of generally consistent sets of economic assumptions which have been designed to encompass most of the possibilities that might be encountered, particularly in the near term. Alternative I presents the most optimistic outlook, with robust economic growth and low inflation. The intermediate sets of assumptions—alternatives II-A and II-B—bracket the current consensus view of moderate growth and inflation for the first few years; thereafter, alternative II-A continues to reflect more robust economic growth than does alternative II-B. Alternative III is a pessimistic forecast in which the economy experiences two recessions between now and the end of the decade. In view of the fact that three recessions have occurred in the last 12 years, the inclusion of a cyclical forecast seems prudent. The recessions in alternative III are patterned after recent ones in terms of depth and timing of the downturns, although the intervening recoveries are weaker, in general, than those experienced in the last 12 years. This scenario presents a realistic assessment of the combined effects of business cycles and generally weak economic growth on the OASDI program.

For alternatives I, II-A, and II-B, the economic recovery that started in the first quarter of 1983 is assumed to continue through 1985. The strength of the recovery, as measured by growth in real GNP, is assumed to be stronger for alternative I than for alternative II-A. Similarly, growth for alternative II-A is stronger than that for alternative II-B. For alternative III, the recovery is assumed to fade during the first quarter of 1985; a recession is assumed to occur during the remainder of the year and the first quarter of 1986.

After 1985, and continuing through the end of the decade, steady growth in real GNP is assumed to continue, for alternatives I and II-A. For alternative II-B, the economy is assumed to experience a growth recession during the first half of 1986, with a recovery and steady growth thereafter. For alternative III, after 2 years of recovery, a second recession is assumed to begin in the third quarter of 1988, lasting through the second quarter of 1989. For alternatives I, II-A, and II-B, the unemployment rate is assumed to decline gradually toward its ultimate level. For alternative III, the unemployment rate is assumed to reach its ultimate level after the recovery which is assumed to follow the second recession. After the early 1990s, the projected rates of growth in real GNP, for all four alternatives, are determined by the assumed rates of growth in employment, average hours worked, and productivity.

Assumed values for the other economic variables are generally consistent with the assumed rates of real GNP growth and inflation. For alternative II-A, the average annual unemployment rate declines from 7.5 percent in 1984 to its ultimate level of 5.5 percent (age-sex adjusted to the 1985 labor force) in 1995. The annual rate of increase in average earnings in covered employment is assumed to decline generally from the assumed 5.6-percent increase for 1984, to its ultimate rate of 5.0 percent by 2010. The assumed annual rate of increase in the CPI rises from 3.4 percent in 1984 to 4.2 percent in 1987, and then declines to an ultimate rate of 3.0 percent in 1991. The real-earnings differential (i.e., the difference between the annual rates of increase in average earnings in

covered employment and in the CPI) is assumed to remain generally between the 1.3-percentage-point differential experienced in 1983 and the 2.2-percentage-point differential assumed for 1984, reaching its ultimate value of 2.0 percentage points by 2010. The annual interest rate is assumed to reach its ultimate value of 5.5 percent in 1995.

For alternative II-B, the average annual unemployment rate declines to its ultimate level of 6.0 percent in 1995. The annual rate of increase in average earnings in covered employment is assumed to rise to 6.4 percent in 1987, and then to decline generally to its ultimate rate of 5.5 percent by 2010. The annual rate of increase in the CPI is assumed to rise from 3.4 percent in 1984 to 5.3 percent in 1987, and then to decline to an ultimate rate of 4.0 percent in 1991. The real-earnings differential is assumed to remain generally between the 0.8-percentage-point differential assumed for 1986 and the 1.9-percentage-point differential assumed for 1984, reaching its ultimate value of 1.5 percentage points by 2010. The annual interest rate is assumed to decline to its ultimate value of 6.0 percent in 1995.

Demographic assumptions

The principal demographic assumptions for the four alternatives are shown in table 11.

TABLE 11.—SELECTED DEMOGRAPHIC ASSUMPTIONS BY ALTERNATIVE, CALENDAR YEARS 1940-2060

		_		Life expec	tancy*	
	Total	Age-sex-adjusted — death rate*	At b	irth	At ag	e 6 5
Calendar year	fertility rate:	(per 100,000)	Male	Female	Male	Female
Past experience:						
1940	2.23	1,403.5	61.4	65.7		
1945	2.42	1,248.1			11.9	13.4
1950	3.03	1,116.4	62.9	68.4	12.6	14.4
1955	3.50	1,030.3	65.6	71.1	12.8	15.
1960	3.81		66.7	72.8	13.1	15.6
1965	2.68	1,024.8	66.7	73.2	12.9	15.9
1970		1,001.6	66.8	73.8	12.9	16.3
1975	2.43	948.6	67.1	74.9	13.1	17.1
1070	1.77	848.8	68.7	76.6	13.7	18.0
1976	1.74	838.0	89.1	76.8	13.7	18.1
1977	1.80	815.5	69.4	77.2	13.9	18.3
1978	1.78	809.7	69.8	77.3	13.9	
1979	1.82	784.2	70.0	77.7	14.2	18.3
1980	1.85	795.5	89.9	77.5		18.0
1961	1.82	773.8	70.4		14.0	18.4
1962	1.81	750.0	70.4	77.9	14.2	18.0
1983	1.76	745.1		78.2	14.5	18.6
Alternative I:	1.70	745.1	. 71.1	78.3	14.5	18.6
1984	1.79	739.8				
1985	1.82		71.2	78.4	14.5	18.9
1990	1.94	734.4	71.3	78.5	14.5	18.9
1995	2.06	709.8	71.7	79 .0	14.7	19.2
2000		688.9	72.1	79.4	14.8	19.4
2010	2.16	873.6	72.4	79.7	14.9	19.6
2020	2.30	854.8	72.8	80.0	15.1	19.9
2020	2.30	638.8	73.1	80.3	15.3	20.1
2030	2.30	623.2	73.3	80.6	15.5	20.4
2040	2.30	608.8	73.6	80.9	15.7	20.8
2050	2.30	594.7	73.9	81.2	15.9	
2060	2.30	581.5	74.2	81.5	18.1	20.9
Itematives II-A and II-B:				01.5	10.1	21.1
1984	1.79	732.3	71.3	78.5	446	
1985	1.80	719.8	71.5	78.8	14.6	19.0
1990	1.85	664.3	72.6		14.7	19.1
1995	1.90	821.7		79.8	15.1	19.8
2000	1.94	596.8	73.4	80.7	15.5	20.3
2010	2.00		73.9	81.2	15.8	20.7
2020	2.00	569.2	74.5	81.8	16.1	21.1
2030	2.00	545.1	75.0	82.3	16.5	21.6
2040		522.4	75.5	82.9	16.8	22.0
2050	2.00	501.0	76.0	83.5	17.2	22.5
2060	2.00	480.9	76.4	84.0	17.6	23.0
2060	2.00	461.9	76.9	84.8	17.9	23.4

TABLE 11.—SELECTED DEMOGRAPHIC ASSUMPTIONS BY ALTERNATIVE, CALENDAR YEARS 1940-2060 (Cont.)

			Life expectancy ^a					
	T-1-1	Age-sex-adjusted — death rates —	At bi	rth	At age 65			
Calendar year	Total fertility rate	(per 100,000)	Male	Female	Male	Female		
Alternative III:				70.7	147	19.1		
1984	1.79	724.8	71.4	78.7	14.7			
1985	1.77	705.4	71.8	79.0	14.8	19.3		
1990	1.72	622.9	73.4	8 0.7	15.8	20.3		
1995	1.68	563.6	74.6	61.9	18.2	21.2		
	1.64	526.1	75.4	62.7	18.7	21.6		
2000		478.3	76.5	84.0	17.5	22.7		
2010	1.60	435.0	77.8	85.1	16.3	23.6		
2020	1.80				19.1	24.6		
2030	1.80	396.2	76.7	86.3				
2040	1.60	361.5	79.7	67.5	19.9	25.5		
2050	1.60	330.4	60.6	88.6	20.8	26.5		
2060	1.60	302.4	81.9	89.7	21.8	27.4		

^{&#}x27;The total fertility rate for any year is the average number of children who would be born to a woman in her lifetime if she were to experience the birth rates by age observed in, or assumed for, the selected year, and if she were to survive the entire child-bearing period. The ultimate total fertility rate is assumed to be reached in 2009.

The demographic assumptions for alternatives II-A and II-B are identical. The assumed ultimate total fertility rate of 2.0 children per woman is attained in 2009, after a gradual increase from the 1983 level of 1.76 children per woman. The age-sex-adjusted death rate is assumed to decrease gradually during the entire projection period, with a reduction of 38 percent from the 1983 level by 2060. The resulting life expectancies at birth in 2060 are 76.9 years for men and 84.6 years for women, compared to 71.1 and 78.3 years, respectively, in 1983. Life expectancies at age 65 in 2060 are projected to be 17.9 years for men and 23.4 years for women, compared to 14.5 and 18.8 years, respectively, in 1983.

For alternative I, the total fertility rate is assumed to reach an ultimate level of 2.3 children per woman in 2009. The age-sex-adjusted death rate is assumed to decrease more slowly than for alternatives II-A and II-B, with the reduction from the 1983 level being 22 percent by 2060. The resulting life expectancies at birth in 2060 are 74.2 years for men and 81.5 years for women, while at age 65 they are 16.1 and 21.1 years, respectively.

For alternative III, the total fertility rate is assumed to decrease from the estimated 1983 level to an ultimate level of 1.6 in 2009. The age-sexadjusted death rate is assumed to decrease more rapidly than for alternatives II-A and II-B, with the reduction from the 1983 level being 59 percent by 2060. The resulting life expectancies at birth in 2060 are 81.9 years for men and 89.7 years for women, while at age 65 they are 21.6 and 27.4 years, respectively.

The values assumed after the early years for both the economic and the demographic factors are intended to represent the average experience and are not intended to be exact predictions of year-by-year values. Actual future values will likely exhibit fluctuations or cyclical patterns, as in the past.

In addition to the assumptions discussed above, many other factors are necessary to prepare the estimates presented in this report. Appendix A includes a discussion of some of those factors.

The age-sex-adjusted death rate is the crude rate that would occur in the enumerated total population as of April 1, 1970, if that population were to experience the death rates by age and sex observed in, or assumed for, the selected year.

The life expectancy for any year is the average number of years of life remaining for a person if that person were to experience the death rates by age observed in, or assumed for, the selected year.

B. AUTOMATIC ADJUSTMENTS

Under the automatic-adjustment provisions of the law, benefits generally are increased once a year to reflect increases in the cost of living. These automatic increases may be modified under certain circumstances, as explained below. For persons becoming eligible for benefits in 1979 and later, the increases generally begin with the year in which the worker reaches age 62, or becomes disabled or dies, if earlier. An automatic cost-of-living benefit increase of 3.5 percent, effective for December 1984, was announced in October 1984, as described in Appendix C.

If the combined assets of the OASI and DI Trust Funds, as a percentage of annual expenditures, are below a specified level, automatic benefit increases will be limited to the lesser of the increases in wages or prices. This specified level is 15.0 percent with respect to benefit increases for December of each year, 1984-88, and 20.0 percent thereafter. For purposes of this "stabilizer" provision (in 1985 and later), assets as of the beginning of the year are used, including advance tax transfers for the month of January, but excluding any amounts owed to the HI Trust Fund. The price increase is normally defined to be the percentage increase in the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) from the third quarter of the preceding year through the third quarter of the year in which the December benefit increase will occur. The wage increase is normally defined to be the increase in average wages in the preceding year as compared to the second preceding year. (This wage increase is also used for adjusting the contribution and benefit base and other wage-indexed program amounts.) The law provides for subsequent "catch-up" benefit increases, for those beneficiaries whose previous benefit increases were affected by this provision, when trust fund assets exceed 32.0 percent of annual expenditures.

The law provides for an automatic increase in the contribution and benefit base for the year following a year in which an automatic benefit increase becomes effective, based on the increase in average wages. For 1985, the contribution and benefit base was automatically increased to \$39,600.

The exempt amounts under the retirement earnings test are also increased automatically by the increase in average wages, following an automatic benefit increase. An automatic increase in the exempt amount for beneficiaries at ages 65 through 69—from \$6,960 in 1984 to \$7,320 in 1985—was announced in October 1984. Similarly, an automatic increase was announced in the exempt amount for beneficiaries under age 65—from \$5,160 in 1984 to \$5,400 in 1985. Appendix C describes the aforementioned automatic adjustments, as well as the determinations of the following amounts:

- 1. The amount of earnings a worker must have in 1985 to be credited with a quarter of coverage;
- 2. The dollar amounts (or "bend points") in the formulas used to compute benefits payable on the earnings of workers who first become eligible for retirement or disability benefits, or who die before becoming eligible for such benefits, in 1985; and

The average of total wages reported for calendar year 3. 1983, to be used for indexing earnings of workers who first become eligible for benefits, or who die before such eligibility, in 1985 or later.

An historical summary of the Social Security program amounts determined under the automatic-adjustment provisions, and the averagewage series used for indexing earnings, are shown in Appendix D. Estimates of the corresponding amounts through 1990, based on the two intermediate sets of assumptions, are also shown in Appendix D.

The four alternative sets of economic assumptions described previously result in the following general benefit increases and contribution and benefit bases for each year through 1990 (the actual benefit increase for 1984 and the actual contribution and benefit bases for 1984 and 1985 are also shown as a basis for comparison):

	SO OU SOF	mative-	rcent)	Contribution and benefit bases based on alternative—				
1	II-A	II-B	111	. 1	II-A	II-B	III	
3.5	3.5	3.5	3.5	\$37,600	\$37,600	\$37,600	\$37,600	
(A)				39.600	39,600	39,600	39,600	
67					41,700	41,700	41,400	
						43,200	42,600	
						45.600	44,400	
							47,400	
3.1							49,600	
_	3.5 (*) 8.7 3.6 3.5 3.1 (*)	3.5 3.5 (°) 3.4 8.7 4.2 3.6 4.1 3.5 4.0	3.5 3.5 3.5 (*) 3.4 3.7 8.7 4.2 5.0 3.6 4.1 5.3 3.5 4.0 5.0 3.1 3.8 4.8	3.5 3.5 3.5 3.5 (*) 3.4 3.7 4.8 8.7 4.2 5.0 8.1 3.6 4.1 5.3 4.9 3.5 4.0 5.0 5.5 3.1 3.8 4.6 45.1	3.5 3.5 3.5 3.5 \$37,800 (*) 3.4 3.7 4.8 39,800 8.7 4.2 5.0 8.1 39,800 3.6 4.1 5.3 4.9 43,200 3.5 4.0 5.0 5.5 45,300 3.1 3.8 4.6 45.1 47,700	3.5 3.5 3.5 3.5 \$37,800 \$37,600 (*) 3.4 3.7 4.8 39,800 39,800 8.7 4.2 5.0 8.1 39,800 41,700 3.6 4.1 5.3 4.9 43,200 43,200 3.5 4.0 5.0 5.5 45,300 45,800 3.1 3.8 4.6 45.1 47,700 48,300	3.5 3.5 3.5 3.5 \$37,600 \$37,600 \$37,600 (*) 3.4 3.7 4.8 39,600 39,800 39,600 8.7 4.2 5.0 8.1 39,600 41,700 41,700 3.6 4.1 5.3 4.9 43,200 43,200 43,200 3.5 4.0 5.0 5.5 45,300 45,600 45,600 45,600 3.1 3.8 4.6 \$5.1 47,700 48,300 48,600	

¹Effective with benefits for December of the year shown.

*Based on the alternative I assumptions, benefit increases would not occur for December of 1985 or 1990 because the assumed applicable increase in the Consumer Price Index for each year is less than 3 percent, which is the minimum required to trigger a benefit increase. Similarly, the absence of automatic benefit increases for December of 1985 and 1990 would prevent corresponding automatic increases in the contribution and benefit bases, and in the exempt amounts under the retirement earnings test, for 1986 and 1991, respectively.

Based on the alternative III assumptions, the benefit increase for December of 1989 would be determined under the benefit-increase stabilizer provision. If the benefit increase were based on the CPI increase, without the limitation imposed by the stabilizer provision, it would be 6.0 percent based on these assumptions.

The automatic benefit increases shown in the above table based on alternative III reflect the effects of the benefit-increase stabilizer provision on the benefit increase for December 1989. Based on alternative III, the combined assets of the OASI and DI Trust Funds (excluding amounts owed to the HI Trust Fund) would represent less than 20.0 percent of annual expenditures at the beginning of 1989. In addition, the assumed increase in average annual wages in 1988 is less than the assumed annual increase in prices (as measured by the third-quarter CPI) in 1989. Under these conditions, the stabilizer provision would require the automatic benefit increase for December 1989 to be based on the lower increase in average wages, rather than on the CPI increase which would normally apply. While not shown in the table, on the basis of alternative III, the combined assets of the trust funds would increase sufficiently after 1989 to trigger a "catch-up" benefit increase for December 1994 for those beneficiaries whose benefit increases were limited as a result of this provision. The catch-up increase would raise each affected individual's monthly benefit to virtually the same level at which it would have been if all previous increases had been based on the CPI.

Effective on January 1 of the stated year.

Under the automatic-adjustment provisions of the law, the four different sets of economic assumptions result in the following annual exempt amounts under the retirement earnings test, both for beneficiaries under age 65 and for beneficiaries aged 65 through 69 (the actual amounts for 1984 and 1985 are also shown as a basis for comparison):

ANNUAL EXEMPT AMOUNTS UNDER THE RETIREMENT FARNINGS TEST:

Calendar year			int for benef f on alternat		Annual exempt amount for beneficiaries aged 65 through 69 based on alternative—				
	ı	II-A	II-B	111	1	II-A	II-B	III	
1984	\$5,160	\$5,160	\$5,160	\$5,160	\$6,960	\$6,960	\$6,960	\$6,960	
1985	5,400	5,400	5,400	5.400	7,320	7,320	7,320	7.320	
1986	5,400	5,640	5.640	5,640	7,320	7.880	7.880	7.680	
1987	5,880	5,880	5,880	5,880	8.040	7.920	7.920	7,920	
1986	6.240	8,240	8,240	8,120	8,400	8,400	8.400	8,260	
1989	6.600	6,600	6,600	8,600	8.880	8,880	8.880	8.880	
1990	6,960	6,960	6,960	6.960	9.360	9,360	9.360	9,360	

Effective for January of the stated year.

C. ESTIMATED OPERATIONS AND STATUS OF THE TRUST FUNDS DURING THE PERIOD OCTOBER 1, 1984, TO DECEMBER 31, 1989

This subsection presents estimates of the operations and status of the OASI and DI Trust Funds during the period October 1, 1984, to December 31, 1989, based on the assumptions described in the preceding subsections. As previously stated, no changes are assumed to occur in the present statutory provisions and regulations under which the OASDI program operates.

These estimates indicate that the assets of the OASI and DI Trust Funds, on a combined basis, will be sufficient to permit the timely payment of OASDI benefits throughout the short-range period (and for many years thereafter), on the basis of all four sets of assumptions for which estimates are shown. The trust fund levels are estimated to remain relatively low, however, through about 1987. In the event of adverse experience, similar to that illustrated by the pessimistic alternative III assumptions, the DI program could become unable to make timely benefit payments by the end of 1987.

The Social Security Act includes a provision requiring the automatic repayment, based on asset levels, of amounts owed from the OASI Trust Fund to the Hospital Insurance (HI) Trust Fund, as a result of interfund borrowing which occurred in 1982. The estimates based on alternatives I, II-A, and II-B indicate that the increases in the combined assets of the OASI and DI Trust Funds would require the complete repayment, by early 1987, of the \$10.6 billion currently owed from the OASI Trust Fund to the HI Trust Fund. Based on alternative III, the repayment would take longer, with about \$0.3 billion being repaid in 1986, and the remaining \$10.3 billion being repaid in 24 monthly installments in 1988-89. The provision requiring these repayments has the effect of narrowing the range of possible trust fund operations during 1985-88. Earlier and larger repayments would be required under optimistic conditions than under pessimistic conditions. Thus, the results based on the various alternatives are somewhat similar.

As in previous annual reports, the estimates shown in this subsection reflect 12 months of benefit payments in each year of the short-range projection period. In practice, 13 benefit payments can be made in certain years, with the next year having only 11 payments. This situation can result from the provision of law which requires benefit checks to be delivered early when the normal check delivery date is a Saturday, Sunday, or legal public holiday. The benefit checks for December 1987 would normally be delivered on January 3, 1988; however, because that day is a Sunday, and the 2 preceding days are a Saturday and a holiday, the checks will be delivered on December 31, 1987. As noted above, the estimates are adjusted as if those benefit checks were delivered on the usual date.

OASI Trust Fund operations

Estimates of the operations and status of the OASI Trust Fund during calendar years 1985-89 are shown in table 12 based on each of the four alternative sets of assumptions, which are described in a preceding subsection. Actual operations for calendar year 1984 are also shown in the table. For each alternative, employment and earnings are assumed to

increase in every year through 1989. The number of persons with taxable earnings under the OASDI program is expected to increase on the basis of alternatives I, II-A, II-B, and III, from 119 million during calendar year 1984 to about 134 million, 133 million, 132 million, and 128 million, respectively, by 1989. The total annual amount of taxable earnings is expected to increase from about \$1,600 billion in 1984 to \$2,310 billion, \$2,311 billion, \$2,321 billion, and \$2,164 billion, in 1989, on the basis of alternatives I, II-A, II-B, and III, respectively. (In 1984 dollars-taking account of assumed increases in the CPI from 1984 to 1989 based on each alternative—the estimated amounts of taxable earnings in 1989 are \$1,954 billion, \$1,910 billion, \$1,845 billion, and \$1,662 billion, on the basis of alternatives I, II-A, II-B, and III, respectively.) These increases are due in part to the increases in the contribution and benefit base assumed to occur in 1985-89 under the automatic-adjustment provisions. The increases in taxable earnings are also due to (1) projected increases in employment levels and average earnings in covered employment, and (2) various provisions enacted into law in 1983 and 1984, including the extensions of coverage to all newly hired Federal civilian employees and virtually all employees of nonprofit organizations.

TABLE 12.—ESTIMATED OPERATIONS OF THE OASI TRUST FUND BY ALTERNATIVE, CALENDAR YEARS 1984-89
[Amounts in billions]

Calendar year	Income	Disbursements	Interfund borrowing transfers ¹	Net increase in fund	Fund at end of year	Fund at begin- ning of year as a percentage of disburse- ments during year
1984	\$169.3	\$161.9		\$7.4	\$27.1	
Alternative I:		•		₩7.4	⊕ ≥7.1	20
1985	182.9	172.7	-\$4.4	5.6	32.9	0.4
1988	197.8	177.5	-10.9	9.2	42.1	24
1987	216.2	194.0	-2.2	19.9	62.0	26
1988	248.2	206.0		42.2	104.2	29
1989	271.2	218.2		52.9		38
Alternative II-A:		2.0.2		32.8	157.2	56
1985	182.5	172.9	-4.4	5.3	00.4	
1986	199.1	183.6	-8.7	6.7	32.4	24
1987	218.2	198.5	-4.4	15.3	39.1	25
1988	248.0	209.8	7.7	38.2	54.4	27
1989	270.6	223.8		47.1	92.6	34
Alternative II-B:		220.0	_	47.1	139.7	50
1985	181.5	172.9	-4.4	4.2		
1986	197.1	184.1	-7.5	5.5	31.3	24
1987	214.4	198.5	-5.6	10.3	36.8	24
1988	246.8	214.2	-0.0	32.6	47.1	26
1989	270.9	230.2		40.7	79.7	30
Alternative III:		200.2	_	40.7	120.4	43
1985	178.1	173.1	4.4	•		
1986	187.7	186.4	-4.4 -2.8	.8	27.8	24
1987	204.7	203.2	-2.0	-1.6	26.1	22
1986	233.4	218.6	-4.6	1.5	27.6	20
1989	248.1	236.2	-5.7	10.2 6.2	37.8 44.0	20 23

Negative figures represent interfund loan repayments from the OASI Trust Fund to the DI and HI Trust Funds.

*Assets at the beginning of the year are defined as assets at the end of the prior year, plus advance tax transfers for the prior year.

*Figures for 1984 represent actual experience.

Note: Totals do not necessarily equal the sums of rounded components.

The increases in estimated income shown in table 12 on the basis of each set of assumptions reflect the increases in estimated taxable earnings, as described above. In addition, the estimated income to the fund is affected by the scheduled changes in contribution rates.

Rising disbursements during calendar years 1985-89 reflect the effects of the assumed future automatic benefit increases previously shown, as well as the long-range upward trend in the numbers of beneficiaries and in the amounts of average monthly earnings underlying benefits payable under the program. The growth in the number of beneficiaries in the past and the expected growth in the future result partly from the increase in the aged population and partly from two other factors: (1) in each succeeding year, a larger proportion of the persons attaining age 62 is eligible for benefits, and (2) the amendments during 1950-84 modified the eligibility provisions and extended coverage to additional categories of employment.

Growth has also occurred, and will continue to occur, in the proportion of eligible persons who, in fact, receive benefits. This growth is due to several factors, among which are (1) the amendments enacted during 1950-84 which affect the conditions governing the receipt of benefits, and (2) the increasing percentage of eligible persons who are aged 70 and over and who therefore receive benefits regardless of earnings. (The age at which eligible persons may begin to receive full benefits regardless of earnings was reduced from 72 to 70 beginning in 1983.)

The estimates shown in table 12 indicate that income would exceed disbursements in every year, based on each of the four alternative sets of assumptions used in this report. The assets of the OASI Trust Fund at the beginning of 1984, including advance tax transfers for January and amounts owed to the DI and HI Trust Funds, were equal to about 20 percent of the fund's disbursements in 1984. During 1984, income exceeded disbursements by \$7.4 billion. At the beginning of 1985, the assets of the OASI Trust Fund represented about 24 percent of estimated annual expenditures.

Assets are estimated to remain at roughly 25-35 percent of annual expenditures through 1987, based on alternatives I, II-A, and II-B, and to increase rapidly thereafter. Based on alternative III, assets would decrease to about 20 percent of annual expenditures at the beginning of 1988. While not shown in table 12, assets as a percentage of expenditures would begin to grow slowly for the next several years, primarily as a result of the increases in OASI tax rates scheduled for 1988 and 1990 and, to a lesser degree, because of the benefit-increase limitation in 1989, under the stabilizer provision, as described in the preceding subsection. In interpreting the trust fund ratios in table 12, it should be noted that, at the beginning of any month, assets of at least 8-9 percent of annual expenditures are required to make the benefit payments that are due, generally, on the third day of the month. Therefore, the difference between the estimated assets as a percentage of expenditures shown above, and the minimum level of 8-9 percent, represents the reserve available to handle adverse contingencies.

DI Trust Fund operations

The estimated operations and status of the DI Trust Fund during calendar years 1985-89 on the basis of the four sets of assumptions are shown in table 13, together with figures on actual experience in 1984. On the basis of each alternative, income is estimated to increase gradually

from its level in 1984. This increase reflects the same factors, insofar as they apply to income to the DI Trust Fund, that are reflected in the estimated increase in income to the OASI Trust Fund during the same period.

TABLE 13.—ESTIMATED OPERATIONS OF THE DI TRUST FUND BY ALTERNATIVE, CALENDAR YEARS 1984-89
[Amounts in billions]

Calendar year	Income	Disbursements	Interfund borrowing transfers ¹	Net increase in fund	Fund at end of year	Fund at begin- ning of year as a percentage of disburse- ments during year
1984*	\$17.3	\$18.5		-\$1.2	\$4.0	35
Alternative I:	*****	4.5.5		-91.2	94. 0	33
1985	18.2	19.8	\$2.5	1.0	4.9	07
1986	19.3	19.2	2.5	2.6	7.6	27
1987	20.9	20.5	2.5	.4	8.0	33
1988	23.7	21.2		2.5	10.6	44
1989	25.8	22.0		3.8		45
Alternative II-A:		LL.U	_	3.6	14.3	56
1985	16.2	20.3	2.5	.4	4.4	•
1988	19.4	20.3	2.5	1.6		26
1987	20.6	21.3	2.5	6	8.0	26
1988	23.5	22.4		1.1	5.4	35
1989	25.4	23.6	_	1.8	6.5	31
Alternative II-8:	20.4	25.0	_	1.0	6.2	35
1985	16.1	20.3	2.5	•		
1986	19.2	20.4	2.5	.3	4.3	26
1987	20.6	21.5	2.5	1.4	5.6	27
1986	23.3	21.5 22.6		9	4.7	33
1989	25.4	24.2	_	.5	5.2	28
Alternative III:	23.4	24.2	_	1.2	6.4	29
1985	17.7	20.0	0.5			
1988	16.2	20.6 21.2	2.5	3	3.8	26
19874	19.5		2.5	4	3.2	23
19884		22.8	_	-3.3	1	20
19894	21.6	24.2	_	-2.4	-2.5	6
1908'	22.6	25.9	_	-3.1	-5.7	-3

Positive figures represent repayments of amounts lent to the OASI Trust Fund in 1982.

Note: Totals do not necessarily equal the sums of rounded components.

Disbursements are estimated to increase because of automatic benefit increases and because of projected increases in the amounts of average monthly earnings on which benefits are based. In addition, on the basis of all but alternative I, the number of DI beneficiaries is projected to continue increasing throughout the short-range projection period. Based on alternative I, the number of DI beneficiaries is projected to stabilize at roughly its current level before beginning to increase in about 1987.

During 1979-83, the number of disability terminations exceeded the number of disability awards and, consequently, the number of persons receiving benefits under the DI program declined. This decline resulted from (1) disability incidence rates that were significantly lower than those experienced prior to 1978, and (2) benefit termination rates that have been somewhat higher, in part as a result of the increased reviews of the continuing eligibility of disabled beneficiaries as required by legislation enacted in 1980, and amended in 1983 and 1984. This experience was not expected to continue indefinitely (see discussion in

^{*}See footnote 2 of table 12.

^{*}See footnote 3 of table 12.

Figures are theoretical. Based on the alternative III assumptions, corrective legislation would be required to enable the timely payment of DI benefits beginning late in 1987. Theoretical figures shown are based on the assumption that funds could be lent to the DI Trust Fund to meet DI expenditures. The income and asset figures are reduced by the amount of interest payable on these theoretical loans.

1983 and 1984 Annual Reports, for example), and the number of disability awards in 1984 exceeded the number of disability terminations. While the greater number of awards was consistent with the estimates in the 1984 Annual Report, terminations were substantially fewer than anticipated, as a result of certain court orders, State-ordered moratoria, and the national moratorium announced in April 1984, which suspended the processing of continuing disability reviews. The actual number of terminations in the near future will depend on the manner in which the processing of these reviews is resumed; if actual processing differs from that assumed, actual DI costs could vary from the estimates shown in table 13. Based on the updated incidence and termination assumptions prepared for this report, the number of disability awards is projected to exceed the number of terminations each year on the basis of alternatives II-A. II-B, and III.

At the beginning of 1984, the assets of the DI Trust Fund (including advance tax transfers for January) represented about 35 percent of annual expenditures. During 1984, DI expenditures exceeded DI income by about \$1.2 billion. The DI Trust Fund assets at the beginning of 1985 amounted to about 26 percent of estimated outgo in 1985. Based on the two intermediate sets of assumptions, DI assets are projected to remain in the vicinity of 30 percent of annual expenditures during 1985-89. Using alternative I assumptions, DI assets would increase to 56 percent of annual expenditures at the beginning of 1989.

Under the conditions assumed for alternative III, DI assets would decline to about 20 percent of outgo at the beginning of 1987 and would be insufficient to allow the timely payment of DI benefits by the end of the year. Interfund borrowing is authorized under present law through the end of 1987, but all interfund loans must be repaid by December 31, 1989. While an interfund loan could postpone the depletion of the DI Trust Fund, the amount borrowed could not be repaid by the mandated deadline without corrective legislation. The estimates shown in table 13 do not reflect an interfund loan to the DI Trust Fund; theoretical operations of the fund subsequent to its depletion are shown for informational purposes.

As indicated in table 13, the balance of the loans made in 1982 from the DI Trust Fund to the OASI Trust Fund is assumed to be repaid in 1986 on the basis of each alternative set of assumptions. (The law provides that repayment of amounts owed to the DI Trust Fund must be completed by the end of 1989; the schedule of repayments is otherwise at the discretion of the Managing Trustee.) Financial problems would not result on the basis of alternatives I, II-A, and II-B if the repayment did not occur in 1986. Based on alternative III, however, the repayment would be required to prevent depletion of the DI fund late in 1986 or early in 1987. As described above, further action would be necessary to avoid financial problems 1 year later.

Combined OASI and DI Trust Fund operations

The estimated operations and status of the OASI and DI Trust Funds, combined, during calendar years 1985-89 on the basis of the four alternatives, are shown in table 14, together with figures on actual experience in 1984. These figures are the sums of the corresponding figures shown in tables 12 and 13.

TABLE 14.—ESTIMATED OPERATIONS OF THE OASI AND DI TRUST FUNDS, COMBINED, BY ALTERNATIVE, CALENDAR YEARS 1984-89 [Amounts in billions]

\$186.6 201.1 216.9 237.1 271.9	\$160.4 192.5 196.7	-\$1.6	\$6.2	\$31.1	
216.9 237.1 271.9	192.5 196.7	-\$1 <i>B</i>	₩.E	3 01.1	21
216.9 237.1 271.9	196.7	-\$18			21
237.1 271.9			6.8	37.8	0.4
271.9		-8.4	11.9	49.7	24
	214.5	-2.2	20.3	70.0	27
	227.2		44.7	114.8	31
297.0	240.3	_	56.7	171.5	39
	2.0.0		30.7	171.5	56
200.7	193.2	-1 A	5.7	20.0	
					24
					25
		7.7			26
		_			34
			70.0	147.9	48
199.5	193.2	-1 A	4.5	25.0	•
216.4					24
					25
		-3.0			27
					30
	204.0	_	41.0	120.8	41
195.8	193.7	-10	•	04.4	
					24
		3			22
		46			20
		-5.7	7.8 3.1	35.3 38.4	19
	200.7 218.5 237.0 271.5 296.0 199.5 216.4 235.0 270.1 296.3 195.8 205.9 224.2 255.2 270.9	218.5 204.0 237.0 217.8 237.0 217.8 232.2 266.0 247.2 199.5 193.2 246.4 204.5 235.0 220.0 270.1 237.0 254.5 195.8 193.7 205.9 207.6 224.2 226.0 255.2 242.8	218.5 204.0 8.2 237.0 217.8 4.4 271.5 232.2 — 199.5 193.2 -1.8 216.4 204.5 -5.6 235.0 220.0 -5.6 270.1 237.0 — 296.3 254.5 — 195.8 193.7 -1.8 205.9 207.6 -3 224.2 226.0 — 6 255.2 242.8 4.6	218.5 204.0 8.2 8.3 237.0 217.8 -4.4 14.7 271.5 232.2 - 39.3 296.0 247.2 - 48.8 199.5 193.2 -1.8 4.5 216.4 204.5 -5.0 6.8 235.0 220.0 -5.6 9.4 270.1 237.0 - 33.1 296.3 254.5 - 41.9 195.8 193.7 -1.8 3 205.9 207.6 -3 -2.0 224.2 226.0 - -1.9 255.2 242.8 -4.6 7.8	218.5 204.0 -8.2 8.7 35.3 237.0 217.8 -4.4 14.7 59.8 271.5 232.2 - 39.3 99.1 296.0 247.2 - 48.8 147.9 199.5 193.2 -1.8 4.5 35.6 216.4 204.5 -5.0 8.8 42.4 235.0 220.0 -5.6 9.4 51.8 270.1 237.0 - 33.1 84.9 296.3 254.5 - 41.9 126.8 195.8 193.7 -1.8 .3 31.4 205.9 207.6 3 -2.0 29.3 224.2 228.0 - -1.9 27.5 255.2 242.8 -6 7.8 35.3

Negative figures represent interfund loan repayments from the OASI Trust Fund to the HI Trust Fund.

Note: Totals do not necessarily equal the sums of rounded components.

At the beginning of 1984, the combined assets of the OASI and DI Trust Funds (including advance tax transfers for January and amounts owed to the HI Trust Fund) were equal to 21 percent of the disbursements in 1984, as shown in table 14. During 1984, total income to the two trust funds was \$6.2 billion higher than total expenditures, resulting in combined OASDI assets at the beginning of 1985 which represented 24 percent of estimated combined expenditures for the year. Based on alternatives II-A and II-B, the combined funds are projected to increase gradually to roughly 40-50 percent of annual outgo at the beginning of 1989. Somewhat faster growth would occur on the basis of alternative I, with combined assets reaching about 56 percent of annual outgo at the beginning of 1989. Based on the alternative III assumptions, assets would decline from their current level to 19 percent at the beginning of 1988, before beginning to increase. The projections in table 14 indicate that a sufficient reallocation of tax rates between OASI and DI would prevent the depletion of the DI Trust Fund on the basis of the alternative III

^{*}See footnote 2 of table 12.

^{*}See footnote 3 of table 12.

^{*}Figures are theoretical. See footnote 4 of table 13 and text for details.

assumptions. The projections also show that an interfund loan from OASI to DI in 1987 would allow satisfactory operation of the DI Trust Fund in 1987-89. Under present law, however, such loans must be repaid by December 31, 1989, and the DI program would be unable to do so without corrective legislation. For this reason, the combined operations shown in table 14 based on alternative III are theoretical for 1987 and later. On the basis of alternatives I, II-A, and II-B, combined assets would increase substantially in 1988 and later, primarily as a result of the scheduled increases in OASDI tax rates. Assets would increase at a more gradual rate, based on alternative III, beginning in 1990.

The Social Security Act contains several provisions requiring automatic actions if certain "trust fund ratios" are above or below specified levels. Each of these provisions has a unique definition of the ratio to be used, and none of these definitions coincides with the one that is generally used to evaluate the financial status of the Social Security program. Table 15 presents detailed information on the calculation of the usual trust fund ratio and two other ratios used for specified purposes under the law.

TABLE 15.--ESTIMATED OASDI "TRUST FUND RATIOS" BASED ON VARIOUS DEFINITIONS. BY ALTERNATIVE, CALENDAR YEARS 1985-89 [Amounts in millions, ratios in percent]

Calendar year	Cash and invested assets of OASI and DI Trust Funds on January 11	Advance tax transfers for January	Amounts owed to HI Trust Fund on January 1	OASDI outgo during year	"Contingency reserve trust fund ratio"s	"Fund ratio" for December benefit increase*	"Trust fund ratio" for Hi loan repay- ment in January
Alternative I:							
1985	\$31,075	\$15,316	\$12,437	\$192,525	24.1	17.8	16.1
1986	37.846	15,058	10.613	196,692	26.9	21.5	19.2
1987	49,700	16,126	2,213	214,519	30.7	29.7	23.2
1988	70,045	16,433	·-	227,175	38.9	38.9	(*) (*)
1989	114,790	20,115		240,274	56.1	56.1	(*)
Alternative II-A:	,			-			
1985	31,075	15,316	12,437	193,180	24.0	17.6	16.1
1986	36,777	15.079	10,613	203,961	25.4	20.2	18.0
1987	45,071	16,186	4,413	217,846	28.1	26.1	20.7
1988	59,776	18,452	· —	232,197	33.7	33.7	(s) (s)
1969	99,074	20,124	_	247,207	48.2	48.2	(*)
Alternative II-B:							
1985	31,075	15,316	12,437	193,190	24.0	17.6	16.1
1986	35,602	14.939	10,613	204,532	24.7	19.5	17.4
1987	42,421	16,046	5,613	220,028	28.6	24.0	19.3
1988	51,605	16,377	_	237,005	29.6	29.6	(*)
1989	84,946	20,139	_	254,456	41.3	41.3	(*)
Alternative III:							
1985	31,075	15,316	12,437	193,676	24.0	17.5	16.0
1986	31,365	14,197	10,613	207,822	21.9	16.6	15.1
19674	29,338	15,363	10,313	226,041	19.8	15.2	13.0
1988	27,487	17,674	10,313	242,834	16.6	14.4	11.3
19894	35,252	18,853	5,739	262,100	20.6	16.5	13.4

^{*}Before appropriation of advance tax transfers for January. Includes amounts owed to the HI Trust Fund.

^{*}Combined assets of OASI and DI Trust Funds, plus advance tax transfers for January, as a percentage of OASDI outgo during year. This is the ratio normally used to evaluate the financial status of the trust funds. See estimates in tables 12-14, for example.

^aFor 1985 and later, combined assets of OASI and DI Trust Funds, plus advance tax transfers for January, minus mounts owed to the HI Trust Fund, as a percentage of OASDI outgo during year. See section 215(i) of the Social Security Act.

^{*}Combined assets of OASI and DI Trust Funds, as a percentage of OASDI outgo during year. See section 201(1) of the Social Security Act.

^{*}Based on this set of assumptions, amounts owed to the HI Trust Fund are repaid by this year.

^{*}Figures are theoretical. See footnote 4 of table 13 and text for details.

Note: Outgo figures for 1987 and 1988 are adjusted to reflect 12 months of benefit payments in each year; this adjustment also affects assets at the beginning of 1988. See text for details.

The usual definition of the ratio of assets to expenditures, denoted in table 15 as the "contingency reserve trust fund ratio," has already been described. Its purpose is to measure the amount of assets that is readily available for the payment of monthly benefits.

Section 215(i) of the Social Security Act defines an "OASDI fund ratio" for the purpose of determining automatic benefit increases in 1984 and later. If this ratio is below a specified threshold, the benefit increase would be based on the lesser of certain wage and price increases. The projections in table 15 indicate that on the basis of alternatives I, II-A, and II-B, the ratio would not be lower than the 15.0-percent threshold applicable in 1985-88 or the 20.0-percent threshold applicable in 1989. Based on alternative III, the ratio would exceed 15.0 percent during 1985-87 (by relatively small amounts) but would be less than 15.0 percent in 1988 and less than 20.0 percent in 1989.

Table 16 presents the relevant wage and price assumptions for 1985-89. These figures are not exactly the same as similar ones shown previously in table 10, because their definitions are not the same. For example, the wage increases shown in table 16 are based on the same wage series which is used for indexing the contribution and benefit base and other wage-indexed program amounts. The earnings increases shown in table 10 are based on average earnings in covered employment.

TABLE 16.—APPLICABLE INCREASES IN WAGES AND PRICES FOR PURPOSES OF COMPUTING BENEFIT INCREASES UNDER THE OASDI PROGRAM, BY ALTERNATIVE, CALENDAR YEARS 1985-89

	Applicable percentage incre	ease in	
Calendar year	Average wages	CP!*	Resulting benefit in- creases (percent)
Alternative I:			
1985	5.4	2.9	
1986	•9.2		_(
1987	5.1	16.7	-6 .
1986		3.6	3.
1989	5.5	3.5	3.
Viternative II-A:	5.4	3.1	3.
1985	5.2	3.4	3.
1988	3.8	4.2	4
1987	5.4	41	4.
1988	5.6	4.0	
1989	5.5	3.6	4.
Itemative II-B:	5.5	3.0	3.
1985	4.9		
1986		3.7	3.
1987	3.6	5.0	5.
1000	5.4	5.3	5.
1986	6.3	5.0	5.
1989	6.0	4.6	4.
INSLIETAGO (II):			7.
1985	4.5	4.6	
1986	3.2	8.1	4.
1987	4.3	0.1	6.
1988	6.9	4.9	4.
1989		5.5	5.5
	5.1	6.0	5.

Increase in average total wages (both covered and noncovered) in preceding year as compared to second preceding year.

Increase in average Consumer Price Index from third quarter of preceding year through third quarter of year shown. *Equals increase in Consumer Price Index unless "OASDI fund ratio" (as shown in table 15) is less than 15.0 percent for 1985-88 or 20.0 percent for 1989 and later, in which case equals lesser of wage increase or price increase. Effective for December of year shown.

Based on the alternative I assumptions, no benefit increase would occur for December 1985, because the assumed

increase in the CPI is less than 3 percent, which is the minimum required to trigger a benefit increase

^{*}Following a year in which no automatic benefit increase was effective, the applicable wage and price increases are measured relative to the last benefit increase. Consequently, figures shown represent increases over a 2-year period.

Based on alternative I, the applicable wage increases are assumed to exceed the corresponding price increases (taking into account the difference in measuring periods) for 1985 and later. Based on alternatives II-A and II-B, this relationship is assumed for all years except 1986, for which the applicable trust fund ratio exceeds 15.0 percent. Based on these three sets of assumptions, then, the benefit-increase stabilizer provision would not affect the automatic benefit increases in 1985-89. Based on the pessimistic alternative III assumptions, such a limitation would occur in 1989, as described in the preceding subsection.

In general, the stabilizer provision would help to prevent the depletion of the trust funds during periods when prices are increasing but real wages are falling. Such conditions persisted during the late 1970s, when the economy experienced slow growth and double-digit inflation. Under certain other types of adverse conditions, however, this provision could have little or no effect. The income of the trust funds depends directly on the size of the taxable payroll, whereas the operation of the stabilizer provision is linked to the growth in average wages. A situation could arise under which the taxable payroll is growing slowly, or even declining, due to high unemployment, but average wages are increasing at a greater rate than are prices. In addition, the stabilizer could fail to trigger even when real wages are falling, because the applicable wage and price indices are measured over time periods which are not contemporaneous. The price index measures changes in current prices, but the wage index measures changes that occurred about a year earlier. Under such circumstances, the relatively low level of OASDI assets through about 1987 could be insufficient to meet the shortfall between income and outgo, without corrective action. After 1987, the expected increases in trust fund assets would make the program less vulnerable to adverse economic conditions.

The benefit increase for December 1985 will not be affected by the stabilizer provision. The 1984 Annual Report cautioned that the "OASDI fund ratio" for 1985 would be very near the threshold level of 15.0 percent; this ratio is currently estimated to be 17.6 percent. The final ratio cannot differ significantly from this amount.

Table 15 also presents OASDI trust fund ratios as used for determining the minimum schedule of repayments on amounts owed from the OASI Trust Fund to the HI Trust Fund. If the combined assets of the OASI and DI Trust Funds exceed 15 percent of the annual expenditures (as defined by section 201(l) of the Social Security Act), the excess must be used to repay any outstanding amount owed. On this basis, \$1,824 million was transferred from the OASI Trust Fund to the HI Trust Fund on January 31, 1985. Repayment of the remaining amount owed would occur in 1986-87, based on alternatives I, II-A, and II-B. Based on alternative III, a small repayment would be required in 1986, and the remainder would be repaid in 24 monthly installments during 1988-89.

As in prior years' reports, for purposes of evaluating the financial status of the program, the amounts lent to the OASI Trust Fund from the DI and HI Trust Funds are included in the invested assets of the OASI Trust Fund. This procedure is followed because such amounts are readily available for the payment of benefits and thus should be

considered when determining the ability of the OASI program to meet its benefit-payment obligations. Similarly, the amounts owed to the DI and HI Trust Funds are not included in the assets of those funds, because these amounts are not readily available for the payment of DI or HI benefits.

It can be argued that a more proper accounting treatment would be to exclude interfund loans from the borrowing fund's assets and to include them in the assets of the lending funds. This "net value" basis would recognize the obligation of the OASI Trust Fund to repay the amounts owed and would reflect the fact that, to the lending funds, such amounts are investments for which interest is received and return of principal is promised. While these are sound arguments, the existing treatment is used to facilitate the evaluation of the trust funds' actual cash operations—in particular, whether sufficient invested assets (borrowed or otherwise) are available at the beginning of any given month to pay the benefits for that month.

For informational purposes, table 17 presents (1) the estimated assets of the OASI and DI Trust Funds, as shown elsewhere in this report, (2) the amounts owed to or owing from other trust funds, and (3) the "net value" of trust fund assets. For the OASI Trust Fund, this last figure represents invested assets, plus cash balances, less amounts owed to the DI and HI Trust Funds. For the DI Trust Fund, the "net value" represents invested assets, plus cash balances, plus amounts owing from the OASI Trust Fund. As indicated, the "net value" of the OASI Trust Fund is low at this time and will remain relatively low for several years. The low "net values" do not imply an inability to pay benefits on time, however, for the reasons described above. Thus, the "net value" is not particularly useful as an indicator of a trust fund's ability to operate satisfactorily, although it may be of interest as an additional indicator of the trust fund's underlying financial status.

TABLE 17.—ASSETS, INTERFUND LOANS OUTSTANDING, AND "NET VALUES" OF THE OASI AND DI TRUST FUNDS AT END OF CALENDAR YEAR, 1981-84, AND ESTIMATES BY ALTERNATIVE, CALENDAR YEARS 1985-89 [In Dillions]

			[
	0	ASI Trust Fund		DI	Trust Fund	
Calendar year	Assets ¹	Outstanding amounts borrowed ²	"Net value"	Assets ¹	Outstanding amounts lent	"Net value"
Past experience:						
1981	\$21.5	_	\$2 1.5	\$3.0	_	\$3.0
1982	22.1	\$17.5	4.6	2.7	\$5.1	7.6
1983	19.7	17.5	2.2	5.2	5.1	10.3
1984	27.1	17.5	9.6	4.0	5.1	9.0
Alternative I:						
1985	32.9	13.2	19.7	4.9	2.5	7.5
1986	42.1	2.2	39.9	7.6		7.6
1987	62.0		62.0	6.0		6.0
1988	104.2	_	104.2	10.6		10.6
1989	157.2	_	157.2	14.3	_	14.3
Alternative II-A:						
1985	32.4	13.2	19.2	4.4	2.5	6.9
1986	39.1	4.4	34.7	6.0		6.0
1987	54.4	<u></u> .	54.4	5.4	_	5.4
1988	92.6	_	92.6	6.5		6.9
1989	139.7	_	139.7	6.2	_	8.2
Alternative II-B:	100.7			V.		
1985	31.3	13.2	18.2	4.3	2.5	6.8
1986	36.8	5.6	31.2	5.6		5.6
1987	47.1	3.0	47.1	4.7	_	4.7
1988	79.7		79.7	5.2	_	5.2
1989	120.4	_	120.4	6.4	_	6.4
Alternative III:	120.4	_	120.4	0.4		0
1985	27.8	13.2	14.6	3.6	2.5	6.2
1988	26.1	10.3	15.8	3.2	2.5	3.2
1987'	27.6	10.3	17.3	3. <u>2</u> 1	=	-,1
1988*	27.6 37.8	5.7	17.3 32.0	-2.5	_	-2.5
1900"	37.8 44.0	5./	32.0 44.0	-2.5 -5.7	_	-2.5 -5.7
1989*	44.0		44.0	-5./		-0./

¹Represents invested assets, plus cash balance at end of year.

Note: Totals do not necessarily equal the sums of rounded components.

Assets as a percentage of annual expenditures for selected years prior to 1985 are shown in table 18 for both funds combined and for each fund separately. These figures represent "contingency reserve trust fund ratios," as defined previously.

TABLE 18.—ASSETS AT THE BEGINNING OF THE YEAR AS A PERCENTAGE OF EXPENDITURES DURING THE YEAR, BY TRUST FUND, SELECTED CALENDAR YEARS 1950-84

d DI Trust Fund
0 01 11031 1 011
6 -
5 —
0 304
9 121
1 126
7 46
8 2
5 17
5 14
065433211

^{*}Represents total amounts owed to the DI and HI Trust Funds at end of year.

^{*}See text for description of "net value."

^{*}Represents total amounts lent to OASI Trust Fund, less repayments made by end of year.

^{*}Figures for DI Trust Fund are theoretical. See footnote 4 of table 13 and text for details.

Expenditures in calendar year 1984 from both trust funds, combined, were about 11.3 percent of taxable payroll for the year—0.3 percentage point less than the income rate of 11.6 percent. Based on alternatives I, II-A, and II-B, cost rates are estimated to decline slowly during the short-range projection period, reaching 10.43, 10.73, and 11.00 percent, respectively, in 1989. Based on alternative III, cost rates would increase somewhat, to 12.14 percent in 1989. These percentages are shown in table 19 for both trust funds, separately and combined. Table 19 also shows cost rates for years prior to 1984 and a comparison of the cost rates with the corresponding income rates. As explained previously, the income rate represents the sum of the combined employee-employer contribution rate and the income derived from the Federal income taxation of OASDI benefits, expressed as a percentage of effective taxable payroll.

TABLE 19.—COMPARISON OF COST RATES AND INCOME RATES, BY TRUST FUND, SELECTED CALENDAR YEARS 1950-83, AND ESTIMATED RATES BY ALTERNATIVE, CALENDAR YEARS 1984-89

[As a percentage of taxable payroll]

OASI and DI Trust Funds. OASI Trust Fund DI Trust Fund combined Cost Income Cost Income Cost Income Calendar year Balance rate Balance rate rate rate Balance Past experience: 1950...... 3.00 1.83 1955 3.34 4.00 5.50 .66 .66 .11 -.66 3 34 4.00 6.00 0.20 -.20 .29 -.21 1960 5.59 7.23 -.09 0.30 0.50 5.89 1965 6.75 7.30 .70 .81 .50 -.48 7.93 7.25 1970 7.32 -.02 1.10 8.12 8.40 9.90 .75 -.54 -.67 -.71 -.74 1975 9.29 1.36 1.15 10.65 1976 9.42 9.46 8.75 1.15 -.29 10.86 9.90 .96 1977 8.75 1.50 1.15 -.35 10.97 9.90 1.07 9.29 8.55 1.45 1.55 1.50 .10 10.74 -.64 -.07 1979 8.88 8.66 -.22 1.35 .15 - 26 10.23 10.16 19801 9.36 9.04 -.32 1.12 10.16 10.70 10.75 -.59 19811..... 9 98 9.40 9.15 -.58 1.39 11.37 - 67 19821 10.65 -1.50 .30 1.35 1.65 -1.20 1983¹ 10.36 *9.92 -.44 1.23 *1.33 11.59 Alternative I: 10.58 10.59 10.60 .49 .55 .97 10.09 1.16 1.01 -.14 11.25 11.59 .34 1985 10.05 1.15 1.04 .41 .94 1.01 11.20 11.61 9.83 1.01 1.01 -.03 10.67 11.61 1987 1988 10.62 .92 1.02 -.01 10.72 10.58 11.8391 9.59 11.30 .09 1.80 1989 9.48 11 31 1.84 .96 1.08 10.43 12.39 1.96 Alternative II-A: 10.11 10.08 .47 .54 .74 1984 10.58 1.16 1.01 11.27 11.24 -.15 -.17 11.59 .32 1985 10.59 1.01 11.61 11.62 .37 .66 1986 9.87 10.61 10.62 1.09 1.01 10.98 1987 9.81 61 1.07 1.01 -.05 10.87 11.84 .76 1086 10.79 10.73 1.08 .03 12.38 1.59 1989 11.32 9.70 1.03 .05 12.40 1.67 Alternative II-B: .45 .49 .83 .66 10.13 10.58 1.01 11.29 11.29 11.09 1.16 -.15 -.17 10.10 9.98 9.97 1965 10.59 1.19 1.01 .32 .53 .59 11.61 1986 10.61 10.63 1.01 -.09 11.62 1987 1.08 1.02 .07 11.05 11.64 1988 1.33 .01 11.04 11.00 12.38 1989 9.95 11.33 1.38 1.05 1.08 Alternative III: 12.40 1984 10.17 10.58 .40 .31 1.17 1 01 -.15 1985 10.29 10.58 10.60 1.23 1.01 -.21 -.19 11.52 11.79 11.61 .10 1986 10.62 .04 1.20 1.02 -.15 -.10 1164 1987 10.57 10.64 1.02 1.19 11.66 69 1.18 1.08 -.10 11.81 1969 10.94 1.08 1.20 - 12 12.14 12.43

Note: Totals do not necessarily equal the sums of rounded components.

^{*}Cost rates for 1980-83 are preliminary.

^{*}Income rates for 1983 are adjusted to include the lump-sum payment from the general fund of the Treasury for the cost of noncontributory wage credits for military service in 1940-56.

As stated previously, estimates of the operations of the trust funds during calendar years 1985-89 have been presented in the preceding tables of this section on the basis of four different sets of economic assumptions, because of the uncertainty of future economic and demographic developments. Under the provisions of the Social Security Act, estimates of the expected operations and status of the trust funds during the next 5 fiscal years are required to be shown in this report. Accordingly, detailed estimates of the expected operations and status of the trust funds during each fiscal year 1985-89 are shown in the remaining tables of this section for the two intermediate sets of assumptions (alternatives II-A and II-B) only. Similar detailed estimates are also shown on a calendar-year basis for 1985-89.

Data on the actual operations of the OASI Trust Fund for selected years during 1940-84, and estimates of the expected operations of the trust fund during 1985-89 on the basis of the intermediate sets of assumptions, are shown in tables 20 and 21 on a fiscal- and calendar-year basis, respectively. Corresponding figures on the operations of the DI Trust Fund are shown in tables 22 and 23. Operations of both trust funds combined are shown in tables 24 and 25. (Data relating to the operations of the two trust funds for years not shown in tables 20-25 are contained in earlier annual reports.) The figures shown in tables 21, 23, and 25 for 1981 and 1982 are adjusted to reflect 12 months of benefit payments in each year. As stated previously, the estimated figures for 1987 and 1988 are also so adjusted.

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TABLE 20.—OPERATIONS OF THE OASI TRUST FUND DURING SELECTED FISCAL YEARS 1940-84 AND ESTIMATED FUTURE OPERATIONS DURING FISCAL YEARS 1985-89 ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS

[In millions]

		· · · · ·	Income			llionsj	Disbursen	nente				
-				Payments			Distruiser	I POTILIS				
Fiscal year ¹	Total	Net contri- butions ^a	Income from taxa- tion of benefits	from the general fund of the Treasury	Net interest ⁴	Total	. Benefit	Adminis- trative expenses	Transfers to Railroad Retirement Account	Interfund berrowing transfers*	Net increase in fund	Fund (end (perio
Past experience:	***						· · · · · · · · · · · · · · · · · · ·					
1940	\$592	\$550	_	_	\$42	\$28	\$16	\$12			\$564	\$1,74
1945	1,434	1,310	_	_	124	267	240	27		_	1,167	6.6
1950	2,367	2,106	_	\$4	257	784	727	57		=	1,583	12.81
1955	5,525	5.087	_		438	4,427	4,333	103	- \$ 10	_		
1960	10,360	9,843		_	517	11,073	10,270	202	600	_	1,098 -713	21,14
1965	16,443	15,857	_	_	586	15,962	15,226	300	436	_		20,82
1970	31,746	29,955	_	442	1,350	27,321	26.268	474	579	_	482	20,18
1975	58,757	56,017		447	2,292	56,676	54,647	848	982	_	4,425	32,61
1976	62,327	59,555	_	425	2,347	64,295	62,148	935		_	2,081	39,94
July-Sept. 1976.	16,186	16,106			80	17,111	16,877	234	1,212	_	-1,968	37,98
1977	71,796	68,895	_	614	2,287	73,479	71,278	993	4 000	-	-925	37,05
1978	76,811	74.047	_	613	2,152	81,205	78,531	1,086	1,208 1,589	_	-1,683	35,37
1979	86,893	64,358	_	615	1.920	90,128	87,609			_	-4,394	30,97
1980	100,051	97,608		557	1,886	103.228	100,626	1,072 1,180	1,448	_	-3,235	27,74
1981	121,572	119,016	_	540	2,016	122,304	119,421		1,442	_	-3,177	24,56
1982	126,629	124,246	_	675	1,708	137,928	134,661	1,298	1,585	_	-732	23,83
1983	148,434	136,127	_	6.096	6,210	151,827		1,474	1,793		-11,299	12,53
1964	160,729	156,553	\$2,132	125	1,919	159,820	148,025	1,551	2,251	\$17,519	14,125	26,66
stimated future	100,723	100,000	ΦZ, 13Z	125	1,919	159,620	155,831	1,585	2,404	_	909	27,57
expenence:												
Alternative II-A:												
1985	180,013	175.610	3,206	105	1.092	170,883	166,824	1,725	2,334	-4,364	4,766	32.33
1986	194,757	188,745	3,720	90	2,202	180,911	176,758	1,725	2,359	-8,741	5,104	
1987	211,590	203,587	4,315	72	3,616	193,321	188,918	1,937	2,359 2,466			37,44
1988	241.032	230,336	5,004	. 59	5,633	206,483	201.867	2,085		-4,413	13,855	51,29
1989	264,270	249,377	5,795	. 48	9,050	220,113	215,355	2,065	2,531	_	34,549	85,84
Alternative II-B:		2 10,011	0,700	• +0	3,030	220,113	215,355	2,244	2,514	_	44,157	130,00
1985	179,495	175,100	3,206	105	1.083	170.894	166,835	1,725	0.004	4 204	4.007	04.00
1986	192,758	186,877	3,728	90	2.063	181,305	177,146		2,334	-4,364 7,544	4,237	31,80
1987	209,902	202,175	4,352	72	3,303	194,950		1,795	2,364	-7,541	3,912	35,71
1988	239,859	229,667	5,098	60	5,034	210,288	190,518 205,610	1,948	2,484	-5,613	9,339	45,05
1989	264,086	249,908	5,957	49	8,172	226,223		2,108	2,570	_	29,571	74,62
See following page for t		=-3,500	3,837	49	0,172	220,223	221,351	2,281	2,591		37,862	112,48

See following page for footnotes.

¹Under the Congressional Budget Act of 1974 (Public Law 93-344), fiscal years 1977 and later consist of the 12 months ending on September 30 of each year. The act further provides that the calendar quarter July-September 1976 is a period of transition from fiscal year 1976, which ended on June 30, 1976, to fiscal year 1977, which began on October 1, 1976.

*Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. The amount shown for 1983 includes, in addition to the annual contributions on 1983 wage credits, a net amount of \$5,388 million representing (1) retroactive contributions on deemed wage credits for military service in 1957-82, less (2) all reimbursements received prior to 1983 for the costs of such credits. An adjustment to these amounts totaling \$466 million was transferred to the trust fund from the general fund of the Treasury in 1984.

*Includes payments (1) in 1947-52 and in 1967 and later, for costs of noncontributory wage credits for military service performed before 1957; (2) in 1972-83, for costs of deemed wage credits for military service performed after 1956; and (3) in 1969 and later, for costs of benefits to certain uninsured persons who attained age 72 before 1968. The amount shown for 1978 also includes \$2,724,000 as a single reimbursement for the estimated total costs of granting noncontributory wage credits to individuals who were interned during World War II at places within the United States operated by the Federal Government for the internment of persons of Jananese ancestry.

"Net interest includes net profits or losses on marketable investments. Beginning in 1967, administrative expenses are charged currently to the trust fund on an estimated basis, with a

final adjustment, including interest, made in the following fiscal year. The amounts of these interest adjustments are included in net interest. For years prior to 1967, a description of the method of accounting for administrative expenses is contained in the 1970 Annual Report. Beginning in 1983, these figures reflect payments from a borrowing trust fund to a lending trust fund for interest on amounts owed under the interfund borrowing provisions. Also, beginning in 1983, interest paid from the trust fund to the general fund on advance tax transfers is reflected. The amount shown for 1983 includes \$6,677 million in interest on (1) retroactive government contributions on deemed wage credits for military service in 1957-82, and (2) unnegotiated benefit checks issued before 1983. The amount shown for 1984 includes an interest adjustment of \$1,732 million on government contributions on deemed wage credits for military service in 1957-83.

*Beginning in 1967, includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts are reduced by amount of reimbursement for unnegotiated benefit checks. The amount shown for 1983 is reduced by \$288 million for all unnegotiated checks issued before 1983; reductions in subsequent years are relatively small.

*Positive figure represents amounts lent to the OASI Trust Fund from the DI and HI Trust Funds. Negative figures represent amounts repaid from the OASI Trust Fund to the DI and HI Trust Funds.

TABLE 21.—OPERATIONS OF THE OASI TRUST FUND DURING SELECTED CALENDAR YEARS 1940-84 AND ESTIMATED FUTURE OPERATIONS DURING CALENDAR YEARS 1985-89 ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS

[In millions]

_			Income				Disbursen	nents				
Calendar year	Total	Net contri- butions ¹	Income from taxa- tion of benefits	Payments from the general fund of the Treasury ²	Net interest*	Total	Benefit payments	Adminis- trative expenses	Transfers to Railroad Retirement Account	Interfund borrowing transfers	Net increase in fund	Fund at
Past experience:									7.0000111		III IUNO	period
1940	\$368	\$325	_	_	\$43	\$ 62	\$35	***				
1945	1,420	1,285	_	_	134	304	274	\$26	_	_	\$306	\$2,031
1950	2,928	2.667	_	\$4	257	1,022	2/4 961	30	_	_	1,116	7,121
1955	6,167	5.713	_		454	5.079		61		-	1,905	13,721
1960	11,382	10,866	_	_	516	11,198	4,968	119	-\$7		1,087	21,663
1965	16,610	16,017	_	_	593	17,501	10,677	203	318	_	184	20,324
1970	32,220	30,256	_	449	1,515	29,848	16,737	328	436		-890	18,235
1975	59,605	56,816	_	425	2.364		28,798	471	579	_	2,371	32,454
1976	66,276	63,362	_	614	2,301	60,395	58,517	898	982	_	-790	36,987
1977	72,412	89,572	_	613	2,301	67,876	65,705	959	1,212	_	-1,600	35,388
1978	78,094	75,471	_	615	2,008	75,309	73,121	981	1,208	_	-2,897	32,491
1979	90,274	87,919	_	557	1,797	83,064	80,361	1,115	1,589	_	-4,971	27,520
1980	105,641	103,456	_	540	1,797	93,133	90,573	1,113	1,448	_	-2,860	24,660
1981	125,361	122,627	_	675	2,060	107,678	105,083	1,154	1,442	_	-1,837	22.823
1982	125,198	123,673	_	680	2,060 845	128,695	123,803	1,307	1,585		-1,334	21,490
1983	150,584	138,337	_	5,541		142,119	136,806	1,519	1,793	\$17,519	598	22,088
1984	169,328	164,121	\$2,835	105	6,706	152,999	149,215	1,534	2,251	_	-2,416	19,672
Estimated future	.00,020	104,121	⊕£,0 000	105	2,267	161,883	157,847	1,632	2,404	_	7.445	27,117
experience:											•	,
Alternative II-A:												
1985	182,536	177,599	3,336	90		470.00						
1986	199,069	192,472	3,848	90 72	1,511	172,897	168,821	1,742	2,334	-4,364	5,274	32,391
1987	216,197	207,225	4,470	59	2,677	183,621	179,435	1,828	2,359	-8,741	6,706	39,098
1968	246,008	235,573	5,182	48	4,443	196,499	192,062	1,971	2,466	-4,413	15,285	54,383
1989	270,645	253,679	6,000	39	7,205	209,772	205,119	2,122	2,531	_	36,236	92,619
Alternative II-B:	2.0,043	233,078	0,000	39	10,928	223,575	218,781	2,280	2,514	_	47,071	139,689
1985	161,470	176,563	3,336		4 404							
1986	197,147	190,764	3,859	90 72	1,481	172,908	168,632	1,742	2,334	-4,364	4,198	31,315
1987	214,434	205,915	4.515		2,452	184,141	179,947	1,830	2,364	-7,541	5,465	36,779
1968	246,799	234,992	5,291	80	3,943	198,489	194,020	1,985	2,484	-5,613	10,332	47,111
1989	270,935	254,651		49	6,467	214,169	209,452	2,148	2,570		32,630	79,740
	2,0,000	204,001	6,179	40	10,064	230,238	225,326	2.321	2.591	_	40,697	120,437

See following page for footnotes.

¹Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. The amount shown for 1983 includes, in addition to the annual contributions on 1983 wage credits, a net amount of \$5,388 million representing (1) retroactive contributions on deemed wage credits for military service in 1957-82, less (2) all reimbursements received prior to 1983 for the costs of such credits. An adjustment to these amounts totaling \$466 million was transferred to the trust fund from the general fund of the Treasury in 1984.

*Includes payments (1) in 1947-51 and in 1966 and later, for costs of noncontributory wage credits for military service performed before 1957; (2) in 1971-82, for costs of deemed wage credits for military service performed after 1956; and (3) in 1968 and later, for costs of benefits to certain uninsured persons who attained age 72 before 1968. The amount shown for 1977 also includes \$2,724,000 as a single reimbursement for the estimated total cost of granting noncontributory wage credits to individuals who were interned during World War II at places within the United States operated by the Federal Government for the internment of persons of Japanese ancestry.

Net interest includes net profits or losses on marketable investments. Beginning in 1967, administrative expenses are charged currently to the trust fund on an estimated basis, with a final adjustment, including interest, made in the following fiscal year. The amounts of these interest adjustments are included in net interest. For years prior to 1967, a description of the

method of accounting for administrative expenses is contained in the 1970 Annual Report. Beginning in 1983, these figures reflect payments from a borrowing trust fund to a lending trust fund for interest on amounts owed under the interfund borrowing provisions. Also beginning in 1983, interest paid from the trust fund to the general fund on advance tax transfers is reflected. The amount shown for 1983 includes \$6,677 million in interest on (1) retroactive government contributions on deemed wage credits for military service in 1957-82, and (2) unnegotiated benefit checks issued before 1983. The amount shown for 1984 includes an interest adjustment of \$1,732 million on government contributions on deemed wage credits for military service in 1957-83.

*Beginning in 1966, includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts are reduced by amount of reimbursement for unnegotiated benefit checks. The amount shown for 1983 is reduced by \$288 million for all unnegotiated checks issued before 1983; reductions in subsequent years are relatively small.

*Positive figure represents amounts lent to the OASI Trust Fund from the DI and HI Trust Funds. Negative figures represent amounts repaid from the OASI Trust Fund to the DI and HI Trust Funds.

TABLE 22.—OPERATIONS OF THE DI TRUST FUND DURING SELECTED FISCAL YEARS 1960-84 AND ESTIMATED FUTURE OPERATIONS DURING FISCAL YEARS 1985-89 ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS
[In millions]

<u></u>			Income				Disbursen	nents				
Fiscal year ¹	Total	Net contri- butions ^a	Income from taxa- tion of benefits	Payments from the general fund of the Treasury ^a	Net interest	Total	Benefit payments	Adminis- trative expenses	Transfers to Railroad Retirement Account	Interfund borrowing transfers	Net increase in fund	Fund at end of period
Past experience:												
1960	\$1,034	\$987	_	_	\$47	\$533	\$528	\$32	-\$27	_	\$501	\$2,167
1965	1,237	1,175		_	62	1,495	1,392	79	24	=	-257	2,007
1970	4,380	4,141		\$16	223	2,954	2,795	149	10	=	1,426	5,104
1975	7,920	7,356	_	52	512	7,982	7,701	253	29		-62	8,191
197 6	8,355	7,797	_	90	468	9,606	9.314	266	26	_	-1,251	8,939
July-Sept. 1976.	2,172	2,159	_		13	2,653	2,582	71	20.	_	-1,251 -481	6,459
1977	9,374	8,900	_	103	372	11,590	11,212	378				
1978	12,784	12,404	_	128	251	12,655	12,298	327	30	=	-2,215 129	4,243 4,372
1979	15,196	14,750	_	142	305	13,944	13,507	407	30		1,252	
1980	17,376	16,805	_	118	453	15,320	14,998	334	-12	_	2.056	5,624 7,680
1981	12,993	12,589		130	273	17.280	16,846	405	29	_	-4,288	
1982	21,398	20,866	_	166	363	18,035	17,437	572	26	_	3,363	3,392
1983	21,848	19,036	_	1,295	1,515	18,231	17,544	659	26 28 22	-\$5,081	-1, 466	6,755
1984	17,732	16,394	\$143		1,195	18,379	17,772	585	20	-95,001	-1,466 -647	5,290
stimated future	•	•	*		.,	.0,0,0	.,,,,,	300		_	-047	4,643
experience:												
Alternative II-A:												
1985	17,891	18,820	222	_	849	19,916	19,121	732	63	2,540	515	E 157
1986	19,021	18,146	251	_	624	20,297	19,442	787	68	2,541	1,265	5,157 6,422
1987	20,442	19.579	286	_	577	21,074	20,208	800	66	2,541	-631	5,791
1988	22,953	22,093	330	_	530	22,147	21,243	839	66	_	806	
1989	24,907	23,898	382	_	628	23,321	22,366	893	62	=	1.586	6,597 8,183
Alternative II-B:		•	-			,,	,000	000	UZ	_	1,000	0, 183
1985	17,843	16,773	222	_	848	19,916	19,122	732	63	2,540	467	5,109
1986	18,836	17,968	251	_	816	20,336	19,461	787	68	2,541	1,041	6,150
1987	20,276	19,443	288		544	21,232	20,361	804	67	2,041	-956	5,150 5,194
1986	22,822	22,029	336	_	458	22,505	21,588	846	70	_	-936 317	
1989	24,854	23,953	391	_	511	23,863	22,891	906	66	_	991	5,512 6,503

See following page for footnotes.

¹Under the Congressional Budget Act of 1974 (Public Law 93-344), fiscal years 1977 and later consist of the 12 months ending on September 30 of each year. The act further provides that the calendar quarter July-September 1976 is a period of transition from fiscal year 1976, which ended on June 30, 1976, to fiscal year 1977, which began on October 1, 1976.

*Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. The amount shown for 1983 includes, in addition to the annual contributions on 1983 wage credits, a net amount of \$402 million representing (1) retroactive contributions on deemed wage credits for military service in 1957-82, less (2) all reimbursements received prior to 1983 for the costs of such credits. An adjustment to these amounts totaling \$62 million was transferred to the trust fund from the general fund of the Treasury in 1984.

*Includes payments (1) in 1967 and later, for costs of noncontributory wage credits for military service performed before 1975; and (2) in 1972-8.3, for costs of deemed wage credits for military service performed after 1936. The amount shown for 1978 also includes \$3,000 as a single reimbursement for the estimated total costs of granting noncontributory wage credits to individuals who were interned during World War II at places within the United States operated by the Federal Government for the internment of persons of Japanese ancestry.

*Net interest includes net profits or losses on marketable investments. Beginning in 1967, administrative expenses are charged currently to the trust fund on an estimated basis, with a final adjustment, including interest, made in the following fiscal year. The amounts of these

interest adjustments are included in net interest. For years prior to 1967, a description of the method of accounting for administrative expenses is contained in the 1970 Annual Report. Beginning in 1983, these figures reflect payments from a borrowing trust fund to a lending trust fund for interest on amounts owed under the interfund borrowing provisions. Also, beginning in 1983, interest paid from the trust fund to the general fund on advance transfers is reflected. The amount shown for 1983 includes \$660 million in interest on (1) retroactive government contributions on deemed wage credits for military service in 1984 includes an interest adjustment of \$169 million on government contributions on deemed wage credits for military service in 1987-83.

*Beginning in 1967, includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts are reduced by amount of reimbursement for unnegotiated benefit checks. The amount shown for 1983 is reduced by \$48 million for all unnegotiated checks issued before 1983; reductions in subsequent years are relatively small.

*Negative figure represents amounts lent by the DI Trust Fund to the OASI Trust Fund. Positive figures represent repayment of these amounts.

**Less than \$500,000 was transferred from the Railroad Retirement Account to the DI Trust Fund.

TABLE 23.—OPERATIONS OF THE DI TRUST FUND DURING SELECTED CALENDAR YEARS 1960-84 AND ESTIMATED FUTURE OPERATIONS DURING CALENDAR YEARS 1985-89 ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS
[In millions]

			income				Disbursen	nents				
Calendar year	Total	Net contri- butions	Income from taxa- tion of benefits	Payments from the general fund of the Treasury*	Net	Total	Benefit payments ⁴	Adminis- trative expenses	Transfers to Railroad Retirement Account	Interfund borrowing transfers	Net increase in fund	Fund at end of period
Past experience:												
1960	\$1,063	\$1,010	_		\$53	\$600	\$568	\$36	-\$5		\$464	\$2,289
1965	1,247	1,168	_	_	59	1,687	1,573	90	24	_	-440	1,606
1970	4.774	4,481	_	\$16	277	3,259	3,085	164	10	_	1,514	5,614
1975	8,035	7,444	_	90	502	6,790	8,505	256	29	_	-754	3,014
1976	8.757	8,233	_	103	422	10,368	10,055	285	26	_		7,354
1977	9,570	9,138		128	304	11,945	11,547	399		_	-1,609 -2,375	5,745
1978	13,810	13,413	_	142	256	12.954	12,599	325	(°) 30		-2,375 856	3,370
1979	15,590	15,114	_	118	358	14,166	13,786	371	30	_	1,404	4,226 5,630
1980	13,871	13,255	_	130	485	15,872	15,515	368	-12	_	-2,001	
1981	17,078	16,738		168	172	17,658	17,192	436	29	_	-2,001 -580	3,629 3,049
1982	22,715	21,995		174	546	17,992	17,376	590	26	- \$ 5,081	-358	2,691
1983	20,682	17,991	_	1,121	1,569	18,177	17,524	625	28	-\$5,00 i		2,091
1984	17,309	15,945	\$190	',''	1,174	18,546	17,898	626	20	_	2,505 -1,237	5,195
stimated future	,	. 0,0 .0	•,00		1,174	10,540	17,030	020	22	_	-1,237	3,959
experience:												
Alternative II-A:												
1985	18,170	17.125	233		812	20,282	19,459	761	63	2,540	427	4,386
1986	19,386	18,505	257	_	824	20,339	19,481	790	68	2,541	1,588	5,974
1987	20,768	19,927	296	_	544	21,348	20,473	809	68	2,541	-580	5,393
1988	23,487	22,579	342	_	567	22,426	21,508	651	66	_	1,062	6,455
1989	25,404	24,311	395	_	698	23,633	22,664	907	62	_	1,771	8,227
Alternative II-B:		= .,•			300	25,000	22,004	501	UZ.	_	1,771	0,227
1985	18,071	17,029	233	_	809	20,282	19,458	761	63	2,540	329	4,287
1986	19,203	18,340	258		606	20,390	19,531	791	68	2,541	1,354	5,641
1987 <i></i>	20,592	19,801	299	_	492	21,539	20,659	813	67	2,541	1,354 -947	
1988	23,347	22,526	348	_	473	22,835	21,905	860	70	_	-94/ 511	4,694 5,206
1989	25,375	24,409	405	_	561	24,218	23,230	922	66	_	1,157	5,206 6,363

See following page for footnotes.

¹Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. The amount shown for 1983 includes, in addition to the annual contributions on 1983 wage credits, a net amount of \$402 million representing (1) retroactive contributions on deemed wage credits for military service in 1957-82, less (2) all reimbursements received prior to 1983 for the costs of such credits. An adjustment to these amounts totaling \$62 million was transferred to the trust fund from the general fund of the Treasury in 1984.

⁸Includes payments (1) in 1966 and later, for costs of noncontributory wage credits for military service performed before 1957; and (2) in 1971-82, for costs of deemed wage credits for military service performed after 1956. The amount shown for 1977 also includes \$3,000 as a single reimbursement for the estimated total costs of granting noncontributory wage credits to individuals who were interned during World War II at places within the United States operated by the Federal Government for the internment of persons of Japanese ancestry.

*Net interest includes net profits or losses on marketable investments. Beginning in 1967, administrative expenses are charged currently to the trust fund on an estimated basis, with a final adjustment, including interest, made in the following fiscal year. The amounts of these interest adjustments are included in net interest. For years prior to 1967, a description of the method of accounting for administrative expenses is contained in the 1970 Annual Report. Beginning in 1983, these figures reflect payments from a borrowing trust fund to a lending trust

fund for interest on amounts owed under the interfund borrowing provisions. Also, beginning in 1983, interest paid from the trust fund to the general fund on advance tax transfers is reflected. The amount shown for 1983 includes \$660 million in interest on (1 retroactive government contributions on deemed wage credits for military service in 1957-82, and (2) unnegotiated benefit checks issued before 1983. The amount shown for 1984 includes an interest adjustment of \$169 million on government contributions on deemed wage credits for military service in 1957-83.

*Beginning in 1966, includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts are reduced by amount of reimbursement for unnegotiated benefit checks. The amount shown for 1983 is reduced by \$48 million for all unnegotiated checks issued before 1983; reductions in subsequent years are relatively small.

*Negative figure represents amounts lent by the DI Trust Fund to the OASI Trust Fund. Positive figures represent repayment of these amounts.

*Less than \$500,000 was transferred from the Railroad Retirement Account to the DI Trust Fund.

TABLE 24.—OPERATIONS OF THE OASI AND DI TRUST FUNDS, COMBINED, DURING SELECTED FISCAL YEARS 1960-84 AND ESTIMATED FUTURE OPERATIONS DURING FISCAL YEARS 1985-89 ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS
[In millions]

			Income				Disbursen	nents				
Fiscal year ¹	Total	Net contri- butions ²	Income from taxa- tion of benefits	Payments from the general fund of the Treasury ³	Net interest	Total	Benefit payments*	Adminis- trative expenses	Transfers to Railroad Retirement Account	Interfund borrowing transfers*	Net increase in funds	Funds at end of period
Past experience:		_										
1960	\$11,394	\$10,830	_	_	\$564	\$11,606	\$10,798	\$234	\$574	_	-\$212	\$22,996
1965	17,681	17,032	_	_	648	17,456	16,618	379	459	_	224	22,187
1970	36,127	34,096	_	\$458	1.572	30,275	29.063	623	589	_	5,851	37,720
1975	66,677	63,374		499	2,804	64,658	62,547	. 1,101	1,010	_	2,018	46,138
1976	70,682	67,352		515	2,815	73,901	71,462	1,200	1,239		-3,219	44,919
July-Sept. 1976 .	18,359	18,265	_	_	94	19,764	19,460	304	-,	_	-1,405	43,514
1977	81,170	77,794	_	717	2,659	85,068	82,490	1,370	1,208	_	-3,898	39,815
1976	89,595	86,451	_	741	2,403	93,861	90,829	1,413	1,618	_	-4,265	35,350
1979	102,089	99,108	_	757	2,225	104,072	101,116	1,479	1,477		-1.983	33,367
1960	117,427	114,413	_	675	2,339	116,548	115,824	1,494	1,430	_	-1,121	32,246
1961	134,565	131,606	_	670	2,289	139,584	136,267	1,703	1,614	_	-5,019	27,226
1982	148,027	145,113	_	843	2,072	155,963	152,097	2.046	1,820	_	-7,936	19,290
1983	170, 26 0	155,163		7,391	7,725	170,058	165,569	2,210	2,279	\$12,437	12,660	31,950
1984	178,461	172,946	\$2,275	125	3,115	178,199	173,603	2,171	2,426	<u> </u>	262	32,212
stimateci future					•			-•	_,			,
experience:												
Alternative II-A:												
1985	197,904	192,431	3,428	105	1,940	190,799	185,945	2,457	2,397	-1,824	5,281	37,493
1986	213,778	206,891	3,970	90	2,826	201,208	196,199	2,582	2,427	-6,200	8,369	43,862
1987	232,032	223,166	4,601	72	4,193	214,395	209,126	2,737	2,532	-4,413	13,224	57,086
1988	263,985	252,429	5,334	59	6.163	228,630	223,110	2,924	2,597	",•	35,355	92,441
1989	289,178	273,275	6,177	48	9.678	243,435	237,722	3.137	2,576	_	45,743	138,184
Alternative II-B:			•		-•-		,	-,	_,		,	,
1985	197,338	191,874	3,428	105	1,932	190,810	185,956	2,457	2,397	-1.824	4,704	36,916
1986	211,594	204,845	3,979	90	2,679	201.641	196,627	2,582	2,432	-5,000	4.953	41,869
1987	230,178	221,618	4,640	72	3,847	216,182	210,879	2,752	2,551	-5,813	8,382	50,251
1988	262,681	251,696	5,433	80	5,492	232,793	227,199	2,954	2,640	0,010	29,888	80,139
1989	288,940	273,861	6,348	49	8,682	250.087	244,242	3,188	2,657	_	36.853	118,993

See following page for footnotes.

¹Under the Congressional Budget Act of 1974 (Public Law 93-344), fiscal years 1977 and later consist of the 12 months ending on September 30 of each year. The act further provides that the calendar quarter July-September 1976 is a period of transition from fiscal year 1976, which ended on June 30, 1976, to fiscal year 1977, which began on October 1, 1976.

*Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. The amount shown for 1983 includes, in addition to the annual contributions on 1983 wage credits, a net amount of \$5.790 million representing (1) retroactive contributions on deemed wage credits for military service in 1957-82, less (2) all reimbursements received prior to 1983 for the costs of such credits. An adjustment to these amounts totaling \$528 million was transferred to the trust funds from the general fund of the Treasury in 1984.

*Includes payments (1) in 1947-52 and in 1967 and later, for costs of noncontributory wage credits for military service performed before 1957; (2) in 1972-83, for costs of deemed wage credits for military service performed after 1956; and (3) in 1969 and later, for costs of benefits to certain uninsured persons who attained age 72 before 1968. The amount shown for 1978 also includes \$2,727,000 as a single reimbursement for the estimated total costs of granting noncontributory wage credits to individuals who were interned during World War II at places within the United States operated by the Federal Government for the internment of persons of Jananese ancestry.

Net interest includes net profits or losses on marketable investments. Beginning in 1967, administrative expenses are charged currently to the trust funds on an estimated basis, with a

final adjustment, including interest, made in the following fiscal year. The amounts of these interest adjustments are included in net interest. For years prior to 1967, a description of the method of accounting for administrative expenses is contained in the 1970 Annual Report. Beginning in 1983, these figures reflect payments from a borrowing trust fund to a lending trust fund for interest on amounts owed under the interfund borrowing provisions. Also, beginning in 1983, interest paid from the trust funds to the general fund of the Treasury on advance tax transfers is reflected. The amount shown for 1983 includes 37,337 million in interest on (1) retroactive government contributions on deemed wage credits for military service in 1957-82.

and (2) unnegotiated benefit checks issued before 1983. The amount shown for 1984 includes an interest adjustment of \$1,901 million on government contributions on deemed wage credits for military service in 1957-83.

⁸Beginning in 1967, includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts are reduced by amount of reimbursement for unnegotiated benefit checks. The amount abown for 1983 is reduced by \$336 million for all unnegotiated checks issued before 1983; reductions in subsequent years are relatively small.

*Positive figure represents amounts lent to the OASI Trust Fund from the HI Trust Fund.

Negative figures represent amounts repaid from the OASI Trust Fund to the HI Trust Fund.

TABLE 25.—OPERATIONS OF THE OASI AND DI TRUST FUNDS, COMBINED, DURING SELECTED CALENDAR YEARS 1960-84 AND ESTIMATED FUTURE OPERATIONS DURING CALENDAR YEARS 1985-89 ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS
[In millions]

			Income	,			Disbursen	ents				
Calendar year	Total	Net contri- butions ¹	Income from taxa- tion of benefits	Payments from the general fund of the Treasury ²	Net interest ^a	Total	Benefit payments ⁴	Adminis- trative expenses	Transfers to Railroad Retirement Account	Interfund borrowing transfers*	Net increase in funds	Funds at end of period
Past experience:												
1960	\$12,445	\$11,876	_	_	\$569	\$11,798	\$11,245	\$240	\$314	_	\$647	\$22,613
1965	17.857	17,205	_		651	19,187	18,311	418	459	_	-1.331	19.841
1970	36,993	34,737	_	\$46 5	1,791	33,108	31,884	635	589	_	3.886	38,068
1975	67,640	64,259	-	515	2.866	69,184	67,022	1,152	1,010	_	-1.544	44,342
1978	75,034	71,595	_	717	2,722	78,242	75,759	1,244	1,239	_	-3.209	41,133
1977	81,982	78,710	_	741	2,531	87,254	84,667	1,379	1,208	_	-5,272	35,861
1978	91,903	88.883	_	757	2,264	96,018	92,960	1,440	1,618	_	-4.115	31,746
1979	105.864	103,034		675	2,155	107,320	104,359	1,483	1,477	_	-1.456	30,291
1980	119,712	116,711	_	670	2,330	123,550	120,598	1,522	1,430	_	3,838	26,453
1981	142,438	139,364	_	843	2,231	144,352	140,995	1,743	1,614	_	-1.914	24,539
1982	147,913	145,667	_	854	1,391	160,111	156,182	2,109	1,820	\$12,437	239	24,778
1983	171,266	156,328	_	6,662	8,276	171,177	166,739	2,159	2,279	_	89	24,867
1984	186,637	180,066	\$3,025	105	3,441	180,429	175,746	2.258	2,426	_	6,208	31,075
Estimated future												
experience:												
Alternative II-A:												
1985	200,705	194,724	3,568	90	2,323	193,180	188,280	2,503	2,397	-1,824	5,702	36,777
1986	218,455	210,977	4,105	72	3,301	203,961	198,916	2,618	2,427	-6,200	8,294	45,071
1987	236,964	227,152	4,766	59	4,987	217,846	212,535	2,780	2,532	-4,413	14,705	59,776
1988	271,495	258,152	5,523	48	7,772	232,197	226,627	2,973	2,597	_	39,296	99,074
1989	296,049	277,990	6,395	39	11,626	247,207	241,444	3,187	2,576	_	48,842	147,916
Alternative II-B:												
1985	199,541	193,592	3,568	90	2,290	193,190	188,290	2,503	2,397	-1,824	4,526	35,602
1986	216,350	209,104	4,116	72	3,058	204,532	199,478	2,621	2,432	-5,000	6,819	42,421
1987	235,025	225,716	4,814	60	4,435	220,028	214,678	2,798	2,551	-5,613	9,385	51,805
1988	270,146	257,518	5,639	49	6,939	237,005	231,357	3,008	2,640	·—	33,141	84,946
1989	296,309	279,060	6,584	40	10,625	254,456	248,556	3,243	2,657	-	41,854	126,800

See following page for footnotes.

¹Beginning in 1983, includes government contributions on deemed wage credits for military service in 1957 and later. The amount shown for 1983 includes, in addition to the annual contributions on 1983 wage credits, a net amount of 55,790 million representing (1) retroactive contributions on deemed wage credits for military service in 1957-82, less (2) all reimbursements received prior to 1983 for the costs of such credits. An adjustment to these amounts totaling \$528 million was transferred to the trust funds from the general fund of the Treasury in 1984.

*Includes payments (1) in 1947-51 and in 1966 and later, for costs of noncontributory wage credits for military service performed before 1957; (2) in 1971-82, for costs of deemed wage credits for military service performed after 1956; and (3) in 1968 and later, for costs of benefits to certain uninsured persons who attained age 72 before 1968. The amount shown for 1977 also includes \$2,727,000 as a single reimbursement for the estimated total costs of granting noncontributory wage credits to individuals who were interned during World War II at places within the United States operated by the Federal Government for the internment of persons of Japanese ancestry.

Net interest includes net profits or losses on marketable investments. Beginning in 1967, administrative expenses are charged currently to the trust funds on an estimated basis, with a final adjustment, including interest, made in the following fiscal year. The amounts of these

interest adjustments are included in net interest. For years prior to 1967, a description of the method of accounting for administrative expenses is contained in the 1970 Annual Report. Beginning in 1983, these figures reflect payments from a borrowing trust fund to a lending trust fund for interest on amounts owed under the interfund borrowing provisions. Also, beginning in 1983, interest paid from the trust funds to the general fund of the Treasury on advance tax transfers is reflected. The amount shown for 1983 includes \$7,337 million in interest on (1) retroactive government contributions on deemed wage credits for military service in 1957-82, and (2) unnegotiated benefit checks issued before 1983. The amount shown for 1984 includes an interest adjustment of \$1,901 million on government contributions on deemed wage credits for military service in 1957-83.

*Beginning in 1966, includes payments for vocational rehabilitation services furnished to disabled persons receiving benefits because of their disabilities. Beginning in 1983, amounts are reduced by amount of reimbursement for unnegotiated benefit checks. The amount shown for 1983 is reduced by \$336 million for all unnegotiated checks issued before 1983; reductions in subsequent years are relatively small.

⁵Positive figure represents amounts lent to the OASI Trust Fund from the HI Trust Fund. Negative figures represent amounts repaid from the OASI Trust Fund to the HI Trust Fund.

D. ACTUARIAL ANALYSIS OF BENEFIT DISBURSEMENTS FROM THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE TRUST FUND WITH RESPECT TO DISABLED BENEFICIARIES

(Required by section 201(c) of the Social Security Act)

Effective January 1957, monthly benefits have been payable from the OASI Trust Fund to disabled children aged 18 and over of retired and deceased workers in those cases for which the disability began before age 18. The age before which disability is required to have begun was subsequently changed to age 22. Effective February 1968, reduced monthly benefits have been payable from this trust fund to disabled widows and widowers at ages 50 and above.

On December 31, 1984, about 574,000 persons were receiving monthly benefits from the OASI Trust Fund because of their disabilities or the disabilities of children. This total includes 52,000 mothers and fathers (wives or husbands under age 65 of retired-worker beneficiaries and widows or widowers of deceased insured workers) who met all other qualifying requirements and were receiving unreduced benefits solely because they had disabled-child beneficiaries in their care. Also included, beginning with 1981, are mothers and fathers, as described above, who are eligible to receive benefits solely because they have disabled children aged 16 or 17 in their care. Benefits paid from this trust fund to the persons described above totaled \$1,899 million in calendar year 1984. Table 26 shows these and similar figures for selected calendar years during 1960-84, and estimated experience for 1985-89.

TABLE 26.—BENEFITS PAYABLE FROM THE OASI TRUST FUND WITH RESPECT TO DISABLED BENEFICIARIES, SELECTED CALENDAR YEARS 1960-89 [Beneficiaries in thousands; benefit payments in millions]

	Disable	d beneficiarie	s, end of year	Amo	unt of benefi	payments ¹
Calendar year	Total	Children ^a	Widows and widowers	Total	Children ^a	Widows and widowers
Past experience:						
1960	117	117	_	\$59	\$59	_
1965	214	214	_	134	134	
1970	316	281	36	301	260	\$41
1975	435	376	59	664	560	104
1976	457	395	62	748	637	111
1977	480	414	65	868	748	120
1978	494	430	64	950	823	127
1979	507	445	62	1.071	948	
1980	519	480	59	1,223	1,097	125
1981	527	473	54	1,421	1,296	126
1982	533	484	49	1,566		125
1983	550	504	46	1,691	1,451	115
1964	574	527	47		1,581	110
stimated future experience:	3/4	JEI	4/	1,899	1,714	185
Alternative II-A:						
1985	566	540	46	0.000	4 007	
1986	600	554		2,080	1,887	193
1987	813	567	46	2,209	2,008	201
1988	826	580	46	2,380	2,168	212
1989	640	594	46	2,559	2,335	224
Alternative II-B:	040	384	46	2,750	2,514	236
1985	586	540	40			
1986	600	554	46	2,080	1,887	193
1987	613	567	46	2,216	2,014	202
1988	626	580	46	2,405	2,190	215
1989	640		48	2,814	2,386	228
1009	040	594	46	2,832	2,589	243

¹Beginning in 1966, includes payments for vocational rehabilitation services.

^{*}Also includes certain mothers and fathers.

^aIn 1983 and prior years, reflects the offsetting effect of lower benefits payable to disabled widows and widowers who continue to receive benefits after attaining age 60 (62, for disabled widowers, prior to 1973) as compared to the higher nondisabled widow's and widower's benefits that would otherwise be payable.

Total benefit payments from the OASI Trust Fund with respect to disabled beneficiaries are estimated to increase from \$2,080 million in calendar year 1985 to \$2,750 million in calendar year 1989, based on alternative II-A, and to \$2,832 million in calendar year 1989, based on alternative II-B.

In calendar year 1984, benefit payments (including expenditures for vocational rehabilitation services) with respect to disabled persons from the OASI Trust Fund and from the DI Trust Fund (including payments from the latter fund to all children and spouses of disabled-worker beneficiaries) totaled \$19,800 million, of which \$1,899 million, or 9.6 percent, represented payments from the OASI Trust Fund. These and similar figures for selected calendar years during 1960-84 and estimates for calendar years 1985-89 are presented in table 27.

TABLE 27.—BENEFIT PAYMENTS UNDER THE OASDI PROGRAM WITH RESPECT TO DISABLED BENEFICIARIES, BY TRUST FUND, SELECTED CALENDAR YEARS 1960-89
[Amounts in millions]

	[Amounts	in millions)		
		Bene	ofit payments: f	тот —
			OASI	Trust Fund
Calendar vear	Total ¹	Di Trust Fund	Amount*	As a percentage of total benefit pay- ments with respect to disabled beneficiaries
Past experience:				
1960	\$627	\$568	\$59	9.4
1965	1,707	1.573	134	7.9
1970	3,386	3,065	301	8.9
1975	9,169	8,505	664	7.2
1976	10.803	10,055	748	6.9
1977	12,415	11,547	868	7.0
	13,549	12,599	950	7.0
1978	14.857	13,786	1.071	7.2
1979	16,738	15,515	1,223	7.3
1980		17,192	1,421	7.5 7.6
1981	18,613			8.3
1982	18,942	17,376	1,566	
1983	19,215	17,524	1,691	6.6
1984	19,797	17,898	1,699	9.6
Estimated future experience:				
Alternative II-A:				
1985	21,539	19,459	2,080	9.7
1986	21,690	19,481	2,209	10.2
1987	22,853	20,473	2,380	10.4
1988	24,067	21,508	2,559	10.6
1989	25,414	22,664	2,750	10.8
Alternative II-B:				
1985	21,538	19,458	2,080	9.7
1986	21,747	19,531	2,216	10.2
1987	23,064	20,659	2,405	10.4
1988	24,519	21,905	2,814	10.7
1989	26,062	23,230	2,832	10.9

¹Beginning in 1966, includes payments for vocational rehabilitation services.

^{*}Benefit payments to disabled workers and their children and spouses.

^aBenefit payments to disabled children aged 18 and over, to certain mothers and fathers (see text), and to disabled widows and widowers (see footnote 3, table 26).

E. ACTUARIAL STATUS OF THE TRUST FUNDS

Historically, the actuarial status of the OASDI program has been measured by the actuarial balance, as described earlier in this section. Recent annual reports have shown both medium-range and long-range actuarial balances, which have been computed, respectively, for the 25-year and 75-year periods beginning with the calendar year of issuance of the report. Accordingly, the medium-range and long-range actuarial balances shown in this report pertain to the periods 1985-2009 and 1985-2059, respectively. Also presented are actuarial balances for the second and third 25-year subperiods of the 75-year projection period.

As described earlier in this section, a single measure of the actuarial balance over a long period may not reveal problems which could occur during that period. Therefore, in addition to the medium-range and long-range actuarial balances, two other indicators of the financial condition of the trust funds are shown in this report. One is the series of annual balances (that is, the year-by-year differences between the estimated total income rates and cost rates), and the other is the series of estimated trust fund ratios (assets at the beginning of the year expressed as a percentage of outgo during the year).

The estimates are sensitive to changes in the underlying economic and demographic assumptions. The degree of sensitivity, however, varies considerably among the various assumptions. For example, variations in assumed fertility rates have little effect on the medium-range estimates, because almost all of the projected covered workers and beneficiaries were born prior to the start of the projection period. Variations in economic factors, however, such as increases in earnings and prices, have significant effects on the estimates, even in the medium-range period. In general, the degree of confidence that can be placed in the assumptions and estimates is greater for the medium-range period than for the long-range period. Nonetheless, even for the medium-range period, the estimates are only an indication of the trend and general range of future program experience. Appendix B contains a more detailed discussion of the effects on the estimates of varying certain economic and demographic assumptions.

Table 28 presents a comparison of the estimated cost rates and total income rates of the OASDI program, based on alternatives II-A and II-B. On the basis of alternative II-A, annual surpluses are estimated until about 2020, after which annual deficits are estimated. These deficits are estimated to increase steadily to a peak of 1.67 percent of taxable payroll in 2035 and then decrease to about 1.3 percent by the end of the longrange projection period. This pattern of annual surpluses and deficits produces a long-range actuarial surplus of 0.38 percent of taxable payroll, which consists of average annual surpluses of 2.42 and 0.09 percent of taxable payroll for the first and second 25-year subperiods, respectively, and an average annual deficit of 1.38 percent for the third 25-year subperiod.

On the basis of alternative II-B, annual surpluses are estimated until about 2015, after which deficits are estimated for each year. These estimated deficits increase more rapidly than those based on alternative II-A, and peak around 2035 at 2.73 percent of taxable payroll. Although

the annual deficits thereafter are significantly larger than those based on alternative II-A, they follow a similar pattern, decreasing to about 2.3 percent by the end of the long-range projection period. This pattern of annual surpluses and deficits produces a long-range actuarial deficit of 0.41 percent of taxable payroll, which consists of an average annual surplus of 2.00 percent of taxable payroll for the first 25-year subperiod, and average annual deficits of 0.78 and 2.46 percent for the second and third 25-year subperiods, respectively.

TABLE 28.—COMPARISON OF ESTIMATED COST RATES AND INCOME RATES OF THE OASDI PROGRAM, ON THE BASIS OF ALTERNATIVES II-A AND II-B, CALENDAR YEARS 1985-2060 [As a percentage of taxable payroll]

	C	ost rate			Income rate		
Calendar year	OASI	DI	Total	Payroll tax	Taxation of benefits	Total	Balanc
Iternative II-A:						44.04	
1985	10.06	1.18	11.24	11.40	0.21	11.61	0.3
1986	9.87	1.09	10.96	11.40	.22	11.62	.6
1987	9.81	1.07	10.87	11.40	.24	11.64	.7
1966	9.75	1.04	10.79	12.12	.26	12.38	1.5
1989	9.70	1.03	10.73	12.12	.28	12.40	1.6
1990	9.77	1.02	10.79	12.40	.30	12.70	1.9
	9.73	1.01	10.74	12.40	.33	12.73	1.9
1991	9.70	1.01	10.71	12.40	.36	12.76	2.0
1992	9.67	1.01	10.69	12.40	.39	12.79	2.1
1993				12.40	.42	12.82	2.1
1994	9.64	1.02	10.66		.38	12.78	2.3
1995	9.46	1.03	10.49	12.40	.38	12.78	2.4
1996	9.26	1.04	10.30	12.40			
1997	9.04	1.05	10.09	12.40	.38	12.78	2.0
1998	8.81	1.06	9.66	12.40	.37	12.77	2.9
1999	8.83	1.06	9.69	12.40	.37	12.77	3.0
2000	8.53	1.08	9,81	12.40	.37	12.77	3.
2001	8.45	1.10	9.56	12.40	.37	12.77	3.
2002	8.38	1.13	9.51	12.40	.37	12.77	3.:
	8.32	1.16	9.48	12.40	.37	12.77	3.:
2003	8.27	1.20	9.46	12.40	.37	12.77	3.
2004		1.23	9.48	12.40	.37	12.77	3.
2005	8.25			12.40	.38	12.78	3.
2006	8.27	1.27	9.54			12.79	3.
2007	8.30	1.31	9.62	12.40	.39		3.
2008	8.36	1.35	9.72	12.40	.39	12.79	
2009	8.48	1.39	9.87	12.40	.40	12.80	2.
2010	8.62	1.41	10.03	12.40	.41	12.81	2.
2015	9.68	1.52	11.20	12.40	.47	12.87	1.
2020	11.06	1.58	12.64	12.40	.55	12.95	
2025	12.28	1.65	13.92	12.40	.63	13.03	٠.
	13.04	1.60	14.64	12.40	.68	13.08	-1.
2030	13.21	1.56	14.77	12.40	.71	13.11	-1.
2035		1.56	14.57	12.40	.72	13.12	-1.
2040	13.01		14.45	12.40	.73	13.13	-1
2045	12.84	1.81			.73	13.13	-1
2050	12.84	1.62	14.45	12.40	.73	13.13	-1.
2055	12.63	1.60	14.43	12.40			-1.
2060	12.79	1.60	14.40	12.40	.73	13.13	-1.
25-year averages:							_
1985-2009	9.06	1.12	10.18	12.26	.35	12.60	2.
2010-2034	11.31	1.57	12.68	12.40	.57	12.97	
2035-2059	12.91	1.59	14.50	12.40	.72	13.12	-1.
75-year average: 1985-2059	11.10	1.43	12.52	12.35	.55	12.90	

TABLE 28.—COMPARISON OF ESTIMATED COST RATES AND INCOME RATES OF THE OASDI PROGRAM, ON THE BASIS OF ALTERNATIVES II-A AND II-B, CALENDAR YEARS 1985-2060 (Cont.)

[As a percentage of taxable payroll]

	(Cost rate					
Calendar year	OASI	DI	Total	Payroll tax	Taxation of benefits	Total	Balanc
Itemative II-B:							
1985	10.10	1.19	11.29	11.40	0.21	11.61	0.3
1986	9.98	1.11	11.09	11.40	.22	11.62	.5
1987	9.97	1.08	11.05	11.40	.24	11.64	
1988	9.97	1.06	11.04	12.12	.26		.5
1989	9.95	1.05	11.00			12.36	1.3
1990	10.03	1.03		12.12	.28	12.40	1.4
1991			11.07	12.40	.31	12.71	1.€
1000	10.01	1.03	11.04	12.40	.34	12.74	1.7
1992	10.00	1.03	11.03	12.40	.37	12.77	1.7
1993	9.98	1.03	11.01	12.40	.40	12.80	1.7
1994	9.96	1.04	11.00	12.40	.43	12.83	1.8
1995	9.81	1.05	10.86	12.40	.40	12.80	1.8
1996	9.65	1.07	10.72	12.40	.40	12.80	2.0
1997	9.47	1.08	10.55	12.40	.39	12.79	2.2
1996	9.26	1.09	10.35	12.40	.39		
1999	9.11	1.10	10.33			12.79	2.4
2000				12.40	.39	12.79	2.5
2004	9.04	1.12	10.17	12.40	.39	12.79	2.6
2001	8.98	1.15	10.13	12.40	.39	12.79	2.6
2002	8.93	1.18	10.11	12.40	.39	12.79	2.6
2003	8.88	1.21	10.09	12.40	.39	12.79	2.7
2004	8.64	1.25	10.09	12.40	.40	12.80	2.7
2005	8.83	1.29	10.12	12.40	.40	12.80	2.8
2006	8.86	1.34	10.20	12.40	.41	12.81	2.8
2007	8.91	1.38	10.29	12.40	.41	12.81	2.5
2008	8.98	1.42	10.40	12.40	.42	12.82	
2009	9.11	1.46	10.56	12.40	.43	12.83	2.4 2.2
2010	9.26	1.48	10.74	12.40	.44	12.84	2.1
2015	10.38	1.60	11.98	12.40	.51		
2020	11.85	1.66	13.51	12.40		12.91	.9
2025	13.17	1.74	14.90		.59	12.99	:
2030	14.01	1.69		12.40	.87	13.07	-1.6
2035			15.70	12.40	.73	13.13	-2.5
2040	14.25	1.64	15.89	12.40	.76	13.16	-2.7
2040	14.06	1.65	15 71	12.40	.77	13.17	-2.5
2045	13.90	1.70	15.59	12.40	.78	13.18	-2.4
2050	13. 8 8	1.70	15.58	12.40	.78	13.18	-2.4
2055	13.86	1.69	15.55	12.40	.78	13.18	-2.3
2060	13.83	1.69	15.51	12.40	.78	13.18	-2.3
25-year averages:			. 3.0 1	40	.70	10.10	-2.0
1985-2009	9.46	1.15	10.62	12.26	20	10.00	
2010-2034	12.14	1.85	13.79		.36	12.62	2.0
2035-2059	13.96			12.40	.61	13.01	7
	13.80	1.68	15.64	12.40	.78	13.18	-2.4
75-year average: 1985-2059	11.85	1.49	13.35	12.35	.58	12.94	4

The estimated average long-range income rates based on alternatives II-A and II-B are about 103.0 and 96.9 percent, respectively, of the estimated average long-range cost rates (of 12.52 and 13.35 percent of taxable payroll). Because, in each case, the estimated average income rate is between 95 and 105 percent of the estimated average cost rate, the program is in close actuarial balance, based on both alternatives II-A and II-B. These balances will tend to decline slowly over time as the valuation period moves forward and near-term years of surplus are replaced by distant years of deficit.

The estimated cost rates increase rapidly after the medium-range period, primarily because the number of beneficiaries is projected to increase more rapidly than is the number of covered workers. This occurs because the relatively large number of persons born during the period of high fertility rates from the end of World War II through the early 1960s will reach retirement age, and begin to receive benefits, while the relatively small number of persons born during the subsequent periods of low fertility rates will comprise the labor force. During the

last years of the projection period, the cost rates generally stabilize at a fairly high level, which reflects the stabilization in the projected ratio of the number of beneficiaries to the number of covered workers. Such stabilization results from the relatively smooth pattern of the assumed fertility rates. A comparison of the numbers of beneficiaries and covered workers, both historical and as projected on the basis of all four alternatives, is shown in table 29.

TABLE 29.—COMPARISON OF OASDI BENEFICIARIES AND COVERED WORKERS BY ALTERNATIVE, CALENDAR YEARS 1945-2060

	Covered —	Beneficiari	ies" (in thousa	nds)	Covered workers per	Beneficiarie per 10
Calendar year	workers¹ (in thousands)	OASI	DI	Total	OASDI beneficiary	covere worker
945	46,390	1,106		1,106	41.9	
950	46,280	2,930	_	2,930	16.5	
955	65,200	7,563	_	7,563	6.6	1
960	72,530	13,740	522	14,262	5.1	2
965	80,680	18,509	1,648	20,157	4.0	2
970	93,090	22,616	2,568	25,186	3.7	2
975	100,200	26,998	4,125	31,123	3.2	3
960	*113,000	30,385	4,734	35,119	*3.2	•3
961	113,400	31,074	4,636	35,710	43.2	*3
982	112,600	31,207	4,184	35,391	*3.2	•3
983	113,400	31,833	3,693	35,726	*3.2	*3
984	116,930	32,251	3,769	36,039	*3.3	•3
Iternative I:						
1965	123,111	32,761	3,857	38,638	3.4	3
1990	135,389	35,610	3,804	39,414	3.4	3
1995	142,242	37,254	3,846	41,100	3.5	
2000	152,565	38,197	4,243	42,440	3.6	3
2005	180,632	39,565	4,901	44,466	3.6	3
2010	165,021	42,929	5,616	46,547	3.4	3
2015	167,830	48,606	6,046	54,652	3.1	3
2020	169,691	55,541	6,268	61,629	2.7	3
2025	172,319	62,207	6,561	68,768	2.5	4
2030	175,696	66,940	6,483	73,423	2.4	•
2035	180,584	68,962	6,425	75,407	2.4	4
2040	165,678	68,930	6,535	75,46 5	2.5	•
2045	191,131	88,959	6,845	75,804	2.5	•
2050	197,070	69,640	7,064	76,704	2.6	;
2055	203,556	70,865	7,259	78,144	2.6	;
2060	210,359	72,441	7,451	79,892	2.6	;
Itemative II-A:						
1985	123,100	32,805	3,878	36,683	3.4	
1990	134,371	35,921	4,046	39,967	3.4	
1995	140,775	37,721	4,467	42,188	3.3	
2000	146,656	39,029	5,145	44,174	3.4	
2005	154,696	40,689	6,070	46,759	3.3	
2010	157,4 56	44,314	7,013	51,327	3.1	
2015	158,093	50,261	7,560	57,821	2.7	;
2020	157, 56 0	57,496	7,846	65,342	2.4	
2025	156,868	64,519	8,154	72,673	2.2	
2030	156,834	69,672	7,993	77,665	2.0	
2035	157,454	72,107	7,842	79,949	2.0	
2040	156,009	72,353	7,884	80,237	2.0	
2045	158,542	72,547	8,155	80,702	2.0	
2050	159,246	73,189	8,244	81,433	2.0	
2055	160,281	73,874	8,248	82,122	2.0	
2060	161,4 69	74,376	6,335	82,711	2.0	
Alternative II-B:			0.070	00.000	0.4	
1985	122,902	32,805	3,878	36,683	3.4	
1990	133,300	35,921	4,043	39,964	3.3	
1995		37,719	4,466	42,165	3.3 3.3	
2000		39,023	5,142	44,165	3.3	
2005		40,676	6,065	46,741		
2010		44,291	7,004	51,295	3.0 2.7	
2015		50,228	7,547	57,775	2.4	
2020		57,452	7,828	65,280	2.4	
2025		64,462	8,131	72,593	2.1	
2030		69,603	7,967	77,570	1.9	
2035		72,028	7,815	79,843	1.9	
2040		72,264	7,855	80,119 80,574	1.9	
2045	155,184	72,450	8,124		1.9	
2050		73,082	8,213	81,295	1.9	
2055		73,759 74,256	8,216 8,303	81,975 82,559	1.9	
2060						

TABLE 29.—COMPARISON OF OASDI BENEFICIARIES AND COVERED WORKERS BY ALTERNATIVE, CALENDAR YEARS 1945-2060 (Cont.)

	0	Beneficiar	ies" (in thouse	ands)	Covered	Beneficiaries
Calendar year	Covered — workers ¹ (in thousands)	OASI	DI	Total	- workers per OASDI beneficiary	per 100 covered workers
Alternative III:						
1985	122.050	32.829	3,893	36,722	3.3	30
1990	129,140	36,211	4.285	40,496	3.2	31
1995	137,035	38,142	5.095	43,237	3.2	32
2000	141,577	39,785	8.031	45.816	3.1	32
2005	145,209	41,784	7,179	48.963	3.0	34
2010	146,028	45.825	8.306	54,131	2.7	37
2015	144,156	52,312	8,934	81 246	2.4	42
2020	140,845	60,222	9,225	89,447	2.0	49
2025	136,365	68,083	9.524	77,607	1.8	57
2030	132,202	74,242	9.230	83,472	1.6	63
2035	128,330	77,743	8.928	86,671	1.5	68
2040	124,090	78,996	8.827	87,823	1.4	71
2045	119,632	80,057	8.958	89,015	1.3	74
2050	115,232	81,261	8.754	90.015	1.3	78
2055	111,200	81,685	8.358	90,043	1.2	81
2060	107,476	81.121	8.017	89,138	1.2	63

Workers who pay OASDI taxes at some time during the year.

Note: The numbers of beneficiaries do not include certain uninsured persons, most of whom both attained age 72 before 1968 and have fewer than 3 quarters of coverage, in which cases the costs are reimbursed by the general fund of the Treasury. The number of such uninsured persons was 45,098 as of June 30, 1984, and is estimated to be less than 500 by the turn of the century.

Table 29 shows that the number of covered workers per beneficiary, which was about 3.3 in 1984, is estimated to decline in the future. Based on alternative I, for which high fertility rates and small reductions in death rates are assumed, the ratio declines to an ultimate level of about 2.6. Based on alternative III, for which low fertility rates and substantial reductions in death rates are assumed, the decline is much greater, reaching 1.2 workers per beneficiary. Based on alternatives II-A and II-B, the ratio declines to 2.0 and 1.9 workers per beneficiary, respectively. The impact of these changes on OASDI financing is indicated by the projected number of beneficiaries per 100 workers. Based on alternatives I, II-A, II-B, and III, this rises by the end of the long-range period to levels of 38, 51, 52, and 83, respectively. These levels are, respectively, 27, 70, 73, and 177 percent higher than the current level of 30 beneficiaries per 100 covered workers.

The implication of this demographic shift is a significantly higher cost rate during the last third of the long-range period than during the first two-thirds. Based on all but the most optimistic of the four alternative sets of assumptions used in this report, the OASDI program is estimated to have substantial annual deficits during the last 25 years. Based on alternatives II-B and III, such deficits are also estimated for the middle 25 years of the long-range projection period; even based on alternative II-A, the estimated average annual surplus for those middle years is small. Therefore, at some point, either the costs would need to be reduced or the income would need to be raised in order to maintain actuarial balance.

Table 30 shows the OASDI cost rates on the basis of the four alternatives. Based on alternatives I and II-A, the cost rates generally decline for the next 20 years. Based on alternative II-B, the cost rates remain fairly level for about a decade before following a similar

Beneficiaries with monthly benefits in current-payment status as of June 30.

Preliminary.

downward pattern. Based on alternative III, the cost rates fluctuate for about a decade at levels higher than currently experienced, and then decline for a few years. During the latter part of the medium-range period, the cost rates begin to rise, based on all four alternatives.

After the medium-range period, on the basis of each alternative, the cost rates increase rapidly (because of the demographic shift discussed earlier). Based on alternative I, the cost rates peak around 2030, after which they decrease through the end of the projection period. Based on alternatives II-A and II-B, they follow a similar pattern, except that the peak occurs about 2035 and the decline thereafter is less. Based on alternative III, the cost rates continuously increase through the end of the long-range projection period.

The OASDI cost rates based on alternatives I and III differ by about 16 percentage points at the end of the long-range period, although the difference is only 3.93 percentage points at the end of the medium-range period. The average long-range cost rate for the OASDI program varies from 10.24 percent on the basis of alternative I, to 17.84 percent on the basis of alternative III, while the average medium-range cost rate varies much less—from 9.44 to 11.85 percent.

TABLE 30.—ESTIMATED COST RATES OF THE OASDI PROGRAM BY ALTERNATIVE, CALENDAR YEARS 1985-2060
[As a percentage of taxable payroll]

	(As a percent	age of taxable payroll		
Calendar year	ı	II-A	II-B	1
1985	11.20	11.24	11.29	11.5
1986	10.67	10.96	11.09	11.79
987	10.72	10.87	11.05	11.7
988	10.58	10.79	11.04	11.8
989	10.43	10.73	11.00	12.1
	10.42	10.79	11.07	12.1
1990	10.42	10.74	11.04	12.0
1991		10.71	11.03	11.9
1992	10.30			11.9
1993	10.10	10.69	11.01	
1994	10.14	10.66	11.00	12.0
1995	9.71	10.49	10.86	11.9
1996	9.63	10.30	10.72	11.8
1997	9.35	10.09	10.55	11.7
1998	9.07	9.86	10.35	11.8
1999	8.85	9.89	10.21	11.5
	8.70	9.81	10.17	11.5
2000		9.56	10.13	11.5
2001	8.59		10.13	11.5
2002	8.50	9.51		11.6
2003	8.42	9.48	10.09	
2004	8.35	9.46	10.09	11.6
2005	8.32	9.48	10.12	11.7
2006	8.34	9.54	10.20	11.9
2007	8.37	9.82	10.29	12.0
2008	8.43	9.72	10.40	12.2
2009	8.54	9.87	10.56	12.4
2010	8.65	10.03	10.74	12.7
2015	9.53	11.20	11.98	14.4
2020	10.58	12.64	13.51	16.0
	11.42	13.92	14.90	19.0
2025	11.72	14.64	15.70	20.
2030		14.77	15.89	22.
2035	11.51			22.
2040	11.04	14.57	15.71	
2045	10.67	14.45	15.59	23.
2050	10.44	14.45	15.58	24.0
2055	10.27	14.43	15.55	25.0
2060	10.15	14.40	15.51	26 .
25-year averages:				
1985-2009	9.44	10.18	10.82	11.5
2010-2034	10.82	12.68	13.79	17.
2035-2059	10.67	14.50	15.64	24.
	10.07	14.50	10.0	
75-year average: 1985-2059	10.24	12.52	13.35	17.0

Future OASDI cost rates will not necessarily be within the range defined by the results based on alternatives I and III. Nonetheless, because alternatives I and III define a reasonably wide range of economic and demographic conditions, the resulting estimates delineate a reasonable range for future program costs.

The variations in cost, as reflected in the patterns of the cost rates based on the four alternative sets of assumptions, are also reflected in the patterns of the cost as a percentage of Gross National Product (GNP) based on the four alternatives. Table 31 shows a comparison of the OASDI cost as a percentage of GNP on the basis of the four alternatives. Various similarities exist between the patterns of these cost percentages and the cost rates shown in the previous table. Based on alternatives I and II-A, the percentages generally decline slowly for the next 20 years. Based on alternative II-B, the percentages remain fairly level for about a decade before following a similar downward pattern. Based on alternative III, the percentages fluctuate for about a decade at levels slightly higher than currently experienced, and then decline for several years. During the latter part of the medium-range period, the percentages begin to rise slightly on the basis of all four alternatives. Shortly after the end of the medium-range period, based on each alternative, the percentages increase rapidly (because of the demographic shift discussed earlier) and peak around 2030 based on alternatives I, II-A, and II-B, while continuing to increase through the end of the longrange projection period based on alternative III.

Another similarity is that the costs as a percentage of GNP also differ by a relatively large amount at the end of the long-range period (about 4.6 percentage points between alternatives I and III), although differing by a much smaller amount at the end of the medium-range period (1.38 percentage points). In addition, the average long-range cost as a percentage of GNP varies by a relatively large amount (from 4.46 percent based on alternative I, to 6.86 percent based on alternative III), while the average medium-range cost varies by a much smaller amount (from 4.16 to 5.03 percent).

TABLE 31.—ESTIMATED COST OF THE OASDI PROGRAM AS A PERCENTAGE OF GNP BY ALTERNATIVE, CALENDAR YEARS 1985-2060

Calendar year I II-A II-B 1985 4.91 4.92 4.94 1986 4.65 4.81 4.86 1987 4.71 4.76 4.82 1988 4.63 4.72 4.80	5.03 5.10 5.06 5.08 5.21
1986 4.65 4.81 4.86 1987 4.71 4.76 4.82	5.10 5.06 5.08
1986 4.65 4.81 4.86 1987 4.71 4.76 4.82	5.10 5.06 5.08
1987 4.71 4.76 4.82	5.06 5.08
	5.08
GARD THE	5.21
1964)	
901 4.57 4.72 4.82	5.17
991 4.43 4.71 4.81	5.13
992 4.53 4.69 4.80	5.11
993 4.41 4.68 4.79	5.11
994 4.46 4.66 4.78	5.16
428 459 471	5.10
4.25 4.50 4.64	5.1Z
997	5.07
401 430 448	5.02
999	4.94
	4.90
(1)))	4.89
002	4.89
nna	4.89
3.73 4.13 4.34	4.89
1004 3.70 4.12 4.33	4.91
0005 3.69 4.12 4.33	4.93
3 70 4 14 4 28	4.97
371 417 400	5.02
3.73 4.21 4.42	5.02 5.08

TABLE 31.—ESTIMATED COST OF THE OASDI PROGRAM AS A PERCENTAGE OF GNP BY ALTERNATIVE, CALENDAR YEARS 1985-2060 (Cont.)

Calendar year	ı	II-A	11-B	III
2009	3.78	4.27	4.48	5.16
2010	3.83	4.34	4.55	5.25
2015	4.21	4.81	5.01	5.86
2020	4.65	5.37	5.57	6.64
2025	4.99	5.86	6.06	7.42
2030	5.10	6.11	8.29	7.98
2035	4.99	6.10	8.28	6.28
2040	4.78	5.98	6.12	8.44
2045	4.58	5.86	5.99	8.62
2050	4.46	5.80	5.90	8.83
2055	4.36	5.74	5.81	8.93
2060	4.29	5.67	5.71	8.95
25-year averages:				
1985-2009	4.16	4.44	4.59	5.03
2010-2034	4.86	5.45	5.64	6.88
2035-2059	4.57	5.86	5.97	8.88
75-year average:				
1965-2059	4.48	5.25	5.40	6.86

Table 32 shows a comparison of the estimated average cost rates and the estimated average total income rates, by trust fund. In the medium range, actuarial surpluses are estimated for the OASI program, on the basis of all four alternatives, and for the DI program on the basis of all but alternative III. The combined OASDI medium-range actuarial surplus ranges from 0.82 percent of taxable payroll based on alternative III, to 3.14 percent based on alternative I.

In the long range, actuarial surpluses are estimated for the OASI program based on alternatives I and II-A, and deficits are estimated based on alternatives II-B and III. For the DI program, similar patterns are estimated, except that a negligible deficit—that is, less than 0.005 percent of payroll—is estimated based on alternative II-A. The combined OASDI long-range actuarial balance ranges from a surplus of 2.55 percent of taxable payroll based on alternative I, to a deficit of 4.69 percent based on alternative III.

TABLE 32.—COMPARISON OF ESTIMATED AVERAGE COST RATES AND TOTAL INCOME RATES
BY ALTERNATIVE AND TRUST FUND
[As a percentage of taxable payroll]

	Avera	ge cost ra	te	Average total income rate			Balance		
Calendar years	OASI	DI	Total	OASI	DI	Total	OASI	DI	Total
Alternative I:									
1985-2009	8.50	0.94	9.44	11.30	1.28	12.58	+ 2.80	+0.34	+3.14
2010-2034	9.51	1.12	10.62	11.40	1.47	12.87	+1.90	+.35	+2.25
2035-2059	9.61	1.06	10.67	11.46	1.47	12.93	+1.85	+.41	+2.28
1985-2059	9.20	1.04	10.24	11.39	1.41	12.79	+2.18	+.37	+2.55
Alternative II-A:	5.25								
1985-2009	9.06	1.12	10.18	11.32	1.29	12.80	+2.26	+.17	+ 2.42
2010-2034	11.31	1.57	12.88	11.48	1.49	12.97	+.17	08	+.09
2035-2059	12.91	1.59	14.50	11.62	1.50	13.12	-1.29	09	-1.38
1985-2059	11.10	1.43	12.52	11.46	1.42	12.90	+.38	00	+.38
Alternative II-B:				•			•		
1965-2009	9.46	1.15	10.62	11.33	1.29	12.62	+ 1.67	+.13	+2.00
2010-2034	12.14	1.65	13.79	11.52	1.49	13.01	62	- 16	78
2035-2059	13.96	1.68	15.64	11.68	1.50	13.18	-2.28	-,18	-2.46
1985-2059	11.85	1.49	13.35	11.51	1.43	12.94	35	07	41
Alternative III:	11.00								
1985-2009	10.46	1.39	11.65	11.37	1.30	12.86	+.91	09	+.62
2010-2034	15.21	2.28	17.49	11.86	1.52	13.16	3.56	76	-4.31
2035-2059	21.63	2.55	24.18	12.06	1.54	13.60	-9.57	-1.01	-10.58
1985-2059	15.77	2.07	17.84	11.69	1.45	13.15	-4.07	62	-4.69

Note: Totals do not necessarily equal the sums of rounded components.

Table 33 shows the estimated trust fund ratios for the OASI and DI programs, on the basis of all four alternatives. The OASI and DI ratios are estimated to be relatively low for the next several years, before increasing to very high levels thereafter. Based on alternative I, they increase throughout the long-range projection period to extremely high levels, around 1,700 percent for OASI and 2,600 percent for DI. In contrast, based on alternative III, the OASI ratio, after peaking around 215 percent, decreases rapidly until the fund is exhausted in 2024; the DI ratio decreases rapidly from its current level, and the fund becomes exhausted in 1987.

TABLE 33.—ESTIMATED TRUST FUND RATIOS BY ALTERNATIVE AND TRUST FUND, CALENDAR YEARS 1985-2060

	A	lternative) l	Alte	rnative i	II-A	Alte	emative	II-B	Al	ternative	III
Calendar year	OASI	DI	Total	OASI	DI	Total	OASI	Di	Total	OASI	DI	Total
1985	24	27	24	24	26	24	24	26	24	24	26	24
1986	26	33	27	25	28	25	24	27	25	22	23	22
1987	29	44	31	27	35	28	26	33	27	20	20	20
1988	38	45	39	34	31	34	30	28	30	20		19
1989	56	56	56	50	35	48	43	29	41	23	(3)	
1990	77	72	76	87	41	84	57	33	54		(2)	21
1991	102	108	103	86	81	84	73	50	71	25	(2)	21
1992	126	139	127	106	82	104	/S 88			30	(1)	26
1993	154	177	158	126	103	124		69	87	36	(1)	32
1994	178	210	181	147			105	87	104	43	(1)	39
1995	212	251			123	145	122	105	121	51	(1)	45
1996			218	170	142	167	141	122	139	59	(¹)	53
1007	244	287	248	196	160	192	182	137	159	68	(1)	61
1997	282	329	286	225	176	220	184	151	181	78	(1)	69
1998	325	372	330	257	191	250	210	163	205	90	(4)	79
1999	371	416	375	292	206	282	237	174	230	103	Ċή	89
2000	417	453	420	325	218	313	263	182	254	116	Ċ	99
2001	463	510	468	359	244	345	288	204	279	127	èί	110
2002	512	565	517	393	268	378	314	224	304	139	(4)	119
2003	562	813	568	428	287	411	341	239	328	151	74	129
2004	814	855	818	464	302	444	367	250	353	163	7.5	138
2005	665	692	668	499	313	475	394	258	376	174	(4)	146
2006	716	725	717	534	321	506	420	262	399	185	8	
2007	766	754	784	568	325	535	445	264	420	195		153
2008	813	779	809	599	327	561	468	262	440		(4)	159
2009	853	805	847	625	328	583	487	259	455	203 209	(1) (1)	163 166
2010	889	833	882	847	328	602	503	256	488	040		
2015	1.007	962	1,001	707	315	654	537	223	495	213	(')	166
2020	1.039	1,099	1.046	689	289	639	504			196	(1)	135
2025	1,044	1.220	1.062	635	248	590		177	463	119	(1)	53
2030	1.061	1,419	1.095	572	214		433	115	396	(1)	(¹) ·	(,)
2035	1,117	1,651				533	347	51	315	(4)	(1)	(¹)
2040	1,223		1,187	518	196	484	261	(1)	234	(1)	(1)	(1)
2045		1,857	1,284	478	177	446	180	(1)	156	(1)	(1)	(1)
2043	1,352	2,006	1,418	443	147	410	102	(1)	81	(1)	(1)	(1)
2050	1,479	2,182	1,551	405	112	372	24	(1)	(1)	(1)	(1)	(+)
2055	1,607	2,372	1,686	365	78	333	(')	(1)	(1)	(1)	čή	èή
2060	1,735	2,568	1,822	325	48	294	(י)	Ċί	(4)	ė,	(¹)	(1) (2)
rust fund is estimated to							.,	``	` '	``	()	٠,
be exhausted-												
in:	(*)	(2)	(2)	(*)	(*)	(°)	2050	2034	2049	2024	1987	2021

¹The fund is estimated to be exhausted.

Note: The OASDI ratios shown for years after a given fund is estimated to be exhausted are theoretical and are shown for informational purposes only.

^{*}The fund is not estimated to be exhausted within the projection period.

Table 34 itemizes the reasons for the changes in the medium-range and long-range actuarial balances, based on alternative II-B, between last year's report and this report. Also shown are the estimated effects associated with each reason for change.

TABLE 34.—CHANGE IN ESTIMATED MEDIUM-RANGE AND LONG-RANGE ACTUARIAL BAL-ANCE ON THE BASIS OF ALTERNATIVE II-B BY TRUST FUND AND REASON FOR CHANGE [As a percentage of taxable payroll]

	Ме	dium range		Lo	ong range	
ltem	OASI	DI	Total	OASI	DI	Total
Shown in last year's report:						
Average total income rate	11.29	1.27	12.56	11.48	1.42	12.90
Average cost rate	9.45	1.10	10.54	11.51	1.45	12.95
Actuanal balance	+ 1.84	+.17	+2.01	03	03	06
Changes in actuarial balance due to changes						
in:						
Legislation	00	01	01	00	01	01
Valuation period	+.08	+ .01	+.09	03	+.00	03
Economic assumptions	01	00	01	+.08	+.01	+.09
Demographic assumptions	+.06	+.00	+.06	02	00	02
Disability assumptions	00	05	05	00	04	04
Correction of immigration methods	02	00	02	22	02	24
All other factors	08	+.01	07	12	+.02	09
Total change in actuarial balance	+.03	- 04	01	32	04	35
Shown in this report:						
Actuarial balance	+ 1.87	+.13	+2.00	35	07	41
Average cost rate	9.46	1.15	10.62	11.85	1.49	13.35
Average total income rate	11.33	1.29	12.62	11.51	1.43	12.94

¹Cost rates, total income rates, and taxable payroll are calculated on the basis of the 1984 alternative II-B, for which the ultimate assumptions include annual increases of 5.5 percent in average earnings in covered employment and 4.0 percent in the CPI, an annual unemployment rate of 6.0 percent, and a total fertility rate of 2.0 children per woman. The averages are computed for projection periods commencing with 1984.

^aCost rates, total income rates, and taxable payroll are calculated on the basis of the 1985 alternative II-B, for which the assumptions are described in a preceding subsection. The averages are computed for projection periods commencing with 1985

Note: Totals do not necessarily equal the sums of rounded components.

Since the issuance of last year's report, several laws affecting the OASDI program were enacted. Those having a perceptible effect on the financial status of the program are described in Section III of this report. Most of those laws have only short-term financial implications and, therefore, only negligible effects on the medium-range and long-range actuarial balances. The small effects shown in table 34 for changes in legislation are virtually entirely attributable to the enactment of the Social Security Disability Benefits Reform Act of 1984 (Public Law 98-460).

In changing from the valuation periods of last year's report, which were 1984-2008 and 1984-2058 for the medium-range and long-range periods, respectively, to the valuation periods of this report, 1985-2009 and 1985-2059, 1984 is replaced by 2009 in the medium range and by 2059 in the long range. For the OASI program, the estimated surplus for 1984 shown in last year's report (0.41 percent of taxable payroll) is replaced by a larger surplus for 2009 (2.49 percent) and by a deficit for 2059 (2.14 percent), thereby increasing the medium-range actuarial balance and decreasing the long-range actuarial balance. For the DI program, the estimated deficit for 1984 shown in last year's report (0.14 percent) is replaced by a surplus for 2009 (0.06 percent), thereby increasing the medium-range actuarial balance; it is replaced by a deficit for 2059 of 0.13 percent, which is so similar in magnitude that the resulting increase in the long-range actuarial balance is negligible. The

net effects of the OASI and DI changes are OASDI actuarial balances that are higher in the medium range and lower in the long range.

Various economic assumptions were revised for this year's report. As compared with last year's report, labor force participation rates are assumed to be slightly lower, average real earnings in covered employment through 1994 are assumed to increase slightly more rapidly, the index of average earnings used in the projection of benefits better reflects net earnings from self-employment, and taxable payroll better reflects the relative levels of wages, salaries, and net earnings from self-employment. These changes result in a small decrease in the medium-range actuarial balance and an increase in the long-range actuarial balance.

Various demographic assumptions were changed for this report. The starting population was decreased slightly to reflect updated U.S. population estimates prepared by the Bureau of the Census. The ultimate total fertility rate is the same, but the rates for the early years are lower, because the most recent estimates of the rates for 1983 and 1984 are lower than they were a year ago. Net immigration is assumed to be 500,000 persons per year, rather than 400,000 as in last year's report; the effect of this change alone is an increase in the long-range actuarial balance of 0.11 percent of taxable payroll. The net effect of all the demographic changes is an increase in the medium-range actuarial balance and a decrease in the long-range actuarial balance.

The most significant change in disability assumptions is the use of death-termination rates for disabled-worker beneficiaries that vary with time. For estimates in past reports, these death-termination rates were assumed to remain at constant levels throughout the projection period. For this report, the rates are assumed to decline in a manner similar to that assumed for total U.S. mortality rates. This change results in longer durations of entitlement to disability benefits and, therefore, higher costs and lower actuarial balances.

After last year's report was issued, a computational error was discovered in the method used to develop the age distribution of the assumed number of immigrants, for purposes of projecting the total population. This error had existed since the 1980 Census data were incorporated into the projection methodology, in 1982 (after the issuance of the 1982 Annual Report). Although the error did not distort the aggregate net number of immigrants, it affected the age distribution such that, on average, a lower age was assumed than is indicated by the historical data. Correcting this error in methodology results in higher cost rates and lower actuarial balances, because of decreased taxable payrolls (from the decreased numbers of younger immigrants) and increased aggregate benefits (from the increased numbers of older immigrants).

Numerous changes were made in other items. These changes result in increases in the DI actuarial balances and decreases in the OASI and combined OASDI actuarial balances.

VII. CONCLUSION

The actuarial estimates shown in this report indicate that the assets of the OASI and DI Trust Funds, on a combined basis, will be sufficient to permit the timely payment of OASDI benefits for many years into the future, on the basis of all four sets of economic and demographic assumptions. As before, the trust fund levels are estimated to remain relatively low through about 1987; the financial condition of the DI program, in particular, will need to be carefully monitored for the next several years. After 1987, the OASDI program's ability to withstand temporary economic downturns is expected to improve steadily. The long-range estimates indicate that the program is in close actuarial balance, as defined below, based on the two intermediate sets of assumptions.

In the short range, the estimates for the trust funds, separately, indicate that the OASI program would operate satisfactorily during this period, based on all four sets of assumptions. The DI program would also operate satisfactorily in the short range, based on optimistic or intermediate assumptions like those designated as alternatives I, II-A, and II-B. In the event of adverse experience, however, similar to that illustrated by the pessimistic alternative III set of assumptions, the DI program would become unable to make timely benefit payments by the end of 1987.

The assets of the DI Trust Fund, in the short range, are estimated to be significantly lower than shown in the 1984 Annual Report, primarily because of the effects of higher benefit costs. The higher costs reflect the effects of Administration initiatives concerning the continuing disability review process and the disability reforms that were enacted into law in October 1984. The effect of these changes is to lower the estimated trust fund balances to the extent that, based on the pessimistic assumptions, the DI program would experience near-term financial problems.

In the short range (and for several decades thereafter), the combined assets of the OASI and DI Trust Funds are estimated to increase each year, on the basis of alternatives I, II-A, and II-B. Based on alternative III, the assets of the OASI Trust Fund are estimated to be more than sufficient to prevent the depletion of the DI fund during the short range. Thus, if financial problems similar to those illustrated by alternative III were to become imminent, they could be prevented from occurring by a reallocation of contribution rates between OASI and DI. This remedy would not involve any increases in total OASDI taxes, nor any reductions in OASDI benefits.

The estimates based on alternatives I, II-A, and II-B indicate that the growth in the combined assets of the OASI and DI Trust Funds would require the complete repayment, by January 1987, of the \$10.6 billion currently owed from the OASI Trust Fund to the HI Trust Fund. Based on alternative III, the repayment would take longer, with about \$0.3 billion being repaid in 1986, and the remaining \$10.3 billion being repaid in 24 monthly installments in 1988-89. The \$2.5 billion currently owed from the OASI Trust Fund to the DI Trust Fund is assumed to be repaid in 1986, based on all four sets of assumptions.

For the long-range 75-year projection period, the estimates based on the intermediate alternative II-B assumptions indicate that the OASDI program has an average annual deficit of 0.41 percent of taxable payroll. Although this deficit is larger than the corresponding 0.06-percent deficit shown in the 1984 report, the program is still estimated to be in "close actuarial balance"—that is, the average annual income rate is between 95 and 105 percent of the average annual cost rate. The long-range actuarial deficit represents about 3 percent of the average annual cost rate for the program.

The estimates based on alternative II-B show a pattern of recurring annual surpluses in the first half, and recurring annual deficits in the latter half, of the 75-year projection period. The long-range actuarial deficit of 0.41 percent of taxable payroll consists of an average annual surplus of 2.00 percent of taxable payroll for the first 25-year subperiod, and average annual deficits of 0.78 and 2.46 percent for the second and third 25-year subperiods, respectively. Thus, in the absence of other changes, the long-range actuarial balance will tend to decline slowly over time as the valuation period moves forward and near-term years of surplus are replaced by distant years of deficit.

APPENDIX A.—ASSUMPTIONS AND METHODS UNDERLYING THE MEDIUM-RANGE AND LONG-RANGE ESTIMATES

This appendix describes the assumptions and methods which underlie the medium-range and long-range estimates in this report. Unless specifically stated otherwise, the assumptions and methods were used for each of the four alternatives. Some of the economic and demographic assumptions which vary by alternative are summarized in the section entitled "Actuarial Estimates." Further details about the assumptions, methods, and actuarial estimates are contained in Actuarial Studies published by the Office of the Actuary, Social Security Administration, and are available upon request. Estimates of the trust fund operations during the long-range period expressed in dollar amounts will be published by the Office of the Actuary, shortly after the issuance of this report.

TOTAL POPULATION

Projections were made of the population in the Social Security coverage area by age, sex, and marital status as of July 1 of each year 1984 through 2060. The projections started with the U.S. population, including armed forces overseas, on July 1, 1983, as estimated by the Bureau of the Census, based on the 1980 Census, and adjusted for births, deaths, and net immigration during 1980-83. This population estimate was adjusted for net census undercount and was increased by the estimated populations in the geographic areas covered by the OASDI program but not included in the U.S. population. The population was then projected using assumed rates of birth and death and assumed levels of net immigration.

Historically, fertility rates in the U.S. have fluctuated widely. The total fertility rate is defined to be the average number of children that would be born to a woman in her lifetime if she were to experience the birth rates by age observed in, or assumed for, the selected year, and if she were to survive the entire childbearing period. The total fertility rate decreased from 3.3 after World War I to 2.1 during the Great Depression, rose to 3.7 in 1957, and then fell to 1.7 in 1976. Since then, it has been about 1.8 children per woman.

The past variations in fertility rates have resulted from changes in social attitudes, economic conditions, and the availability and use of birth-control methods. Future fertility rates may exceed the present low level, because such a low level has never been experienced in the United States for a long period of time, and because such a level is well below that needed to maintain the size of the population, in the absence of increased net immigration. The recent historical and projected trends in certain population characteristics, however, are consistent with a continued relatively low fertility rate. These trends include the rising percentages of women who have never married, of women who are divorced, and of young women who are in the labor force. Based on consideration of these factors, ultimate total fertility rates of 2.3, 2.0, 2.0, and 1.6 children per woman were selected for alternatives I, II-A, II-B, and III, respectively. For each alternative, the total fertility rate is assumed to reach its ultimate level in 2009. These ultimate values can be compared to those used by the Bureau of the Census for its latest series of population projections. Those fertility rates range from 2.3 to 1.6, with an intermediate assumption of 1.9.1 A rate of 2.1 would ultimately result in a nearly constant population if net immigration were equal to zero and if death rates were constant at levels close to current U.S. experience.

Historically, death rates in the United States have steadily declined. The age-sex-adjusted death rate—which is the crude rate that would occur in the enumerated total population as of April 1, 1970, if that population were to experience the death rates by age and sex for the selected year—declined at an average rate of 1.3 percent per year between 1900 and 1983. The past reductions in death rates have resulted from many factors, including increased medical knowledge, increased availability of health-care services, and improvements in personal healthcare practices such as diet and exercise. Based on consideration of the likelihood of continued progress in these and other areas, three alternative sets of ultimate annual percentage reductions in central death rates by sex and cause of death were selected for 2009 and later. Of these three sets of assumptions, the intermediate set, which is used for both alternatives II-A and II-B, is considered most likely to be realized. The average annual percentage reductions used for alternative I are smaller than those for alternatives II-A and II-B, while those used for alternative III are greater. Between 1983 and 2009, these reductions in central death rates for alternatives II-A and II-B are assumed to change gradually from the average annual reductions by age, sex, and cause of death observed between 1968 and 1981, to the ultimate annual percentage reductions by sex and cause of death assumed for 2009 and later. Alternative I reductions are assumed to change gradually from 50 percent of the average annual reductions observed between 1968 and 1981, while alternative III reductions are assumed to change gradually from 150 percent of the average annual reductions observed between 1968 and 1981, reaching the assumed ultimate percentage reductions in 2009 in each case.

After adjustment for changes in the age-sex distribution of the population, death rates were projected to decline at an average annual rate of about 0.3 percent, 0.6 percent, and 1.2 percent between 1983 and 2060 for alternative I, alternatives II-A and II-B, and alternative III, respectively.

Net immigration is assumed to be 700,000, 500,000, and 300,000 persons per year for alternative I, alternatives II-A and II-B, and alternative III, respectively. The assumed net immigration does not include aliens who may enter the United States illegally, largely because no reliable estimate of their number exists. For alternatives I, II-A, and II-B, however, numbers of refugees are assumed to be admitted periodically, over and above the annual quotas provided in present law. Those illegal aliens who were enumerated in the 1980 Census were automatically included in the starting population.

Table A1 shows the projected population by broad age group, for each of the four alternatives. Because eligibility for many categories of

¹U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 952, "Projections of the Population of the United States By Age, Sex, and Race: 1983-2080," U.S. Government Printing Office, Washington, D.C., May 1984.

OASDI benefits depends on marital status, the population was projected by marital status, as well as by age and sex. Marriage rates and divorce rates were based on recent data from the National Center for Health Statistics.

TABLE A1.—SOCIAL SECURITY AREA POPULATION AS OF JULY 1 AND DEPENDENCY RATIOS, BY ALTERNATIVE AND BROAD AGE GROUP, CALENDAR YEARS 1960-2060

-		Population (in thousands)								
Calendar year	Under 20	20-64	65 and over	Total	Aged	Tota				
ast experience:	73,108	98.689	17,147	188,944	0.174	0.91				
1965	79,959	104,121	18,952	203.032	.182	.95				
	80,738	112,613	20,684	214,035	.184	.90				
1970	78.586	122,705	23,192	224,483	.189	.82				
1975			26,100	235,884	.194	.74				
1980	74,934	134,850	20,100	200,004	.10-7	., ,				
temative I:			00.074	047.010	.199	.69				
1985	72,877	145,862	29,071	247,810						
1990	74,212	153,502	32,208	259,922	.210	.69				
1995	77,045	160,224	34,325	271,594	.214	.69				
2000		167,740	35,235	282,716	.210	.64				
2005		175.864	36,389	293,917	.207	.8:				
	2	181,942	39,274	305,626	.216	.64				
2010			44.919	317,370	.243	.7				
2015		184,645			.278	.7				
2020	91,558	165,573	51,510	328,841						
2025	95,007	165,478	58,809	339,294	.317	.8:				
2030		187,284	84,249	349,473	.343	.8				
2035		192,355	66,056	359,392	.343	.8				
	12.77.22	198,910	65,827	369,224	.331	.8				
2040			65,304	379,188	.316	.8				
2045		205,591			.311	.8				
2050	112,003	211,844	65,911	389,558		.8				
2055	115,568	218,214	87,020	400,602	.307					
2060		225,446	66,503	413,093	.304	.8				
ternatives II-A and II-B:		•								
	72,728	145,614	29.082	247,424	.200	.6				
1985		152.660	32,448	258,277	.213	.6				
1990				268,230	.220	.6				
1995	74,413	158,802	35,015		.220	.6				
2000	74,969	165,728	36,445	277,142						
2005	74,234	173,228	38,063	285,525	.220	.6				
2010		178.091	41,362	293,679	.232	.6				
2015		178.819	47,438	301,236	.265	.6				
		177,210	54,484	307,745	.307	.7				
2020			62,291	313,079	.358	.7				
2025	76,723	174,065			.396	.8				
2030		172,213	88,260	317,365						
2035	77,024	173,124	70,599	320,747	.408	.8				
2040	77,522	174,997	70,791	323,310	.405	.8				
2045		178,436	70,557	325,218	.400	.8				
		176,638	71,340	326,808	404	.8				
2050		177,221	72,074	328,525	407	.6				
2055					.407	.e				
2060	79,569	178,449	72,633	330,651	.407					
ternative III:					000					
1985	72,572	145,365	29,092	247,029	.200	.6				
1990		151,811	32,875	256,348	.215	.€				
1995		157,345	35,651	264,012	.227	.6				
		163,645	37,573	270.023	.230	.8				
2000		170,499	39,728	274,935	.233	.6				
2005				278,954	.251					
2010		173,909	43,629			ĵ.				
2015		172,209	50,435	281,861	.293					
2020	. 57,489	167,486	58,342	283,317	.348					
2025		160,618	67,161	283,256	.418	.7				
2030		154,338	74,354	281,798	.482	3.				
		150,301	77,892	279,015	.518	.8				
2035					.540	ï.				
2040	. 48,908	148,759	79,248	274,915		.6				
2045		142,320	80,020	269,610	.562					
2050	. 45,660	136,126	81,634	263,420	.600	.9				
2055		130,546	82,291	256,821	.630	3.				
2060		126,016	81,853	250,207	.650	.9				

¹Population aged 65 and over, divided by population aged 20-64.

*Sum of population aged 65 and over, and population under age 20, divided by population aged 20-64.

Note: Totals do not necessarily equal the sums of rounded components.

COVERED POPULATION

The number of covered workers in a year is defined as the number of persons who, at any time during the year, have OASDI taxable earnings. Projections of the numbers of covered workers were made by applying projected coverage rates to the projected Social Security area population. The coverage rates—i.e., the number of covered workers in the year, as a percentage of the population as of July 1—were determined by age and sex using projected labor force participation rates and unemployment rates, and their historical relationships to coverage rates. In addition, the coverage rates were adjusted to reflect the increase in coverage of Federal civilian employment that will result from the 1983 amendments.

Labor force participation rates were projected by age and sex, taking into account projections of the percentage of the population that is married, the percentage of the population that is disabled, the number of children in the population, and the state of the economy. In addition, recent trends in the labor force participation rates that cannot be fully explained by the above factors (such as much of the recent increase in the rate for women) were assumed to continue through 2005. All of these factors vary by alternative. For men, the projected age-adjusted labor force participation rates for alternatives I, II-A, and II-B for 2060 are, respectively, 2.3, 0.8, and 0.2 percentage points higher than the 1984 level of 76.9 percent, while the rate for alternative III is 1.5 percentage points lower. For women, the projected age-adjusted labor force participation rates increase for all of the alternatives. The projected rates for 2060 are 7.3, 6.2, 4.5, and 3.7 percentage points, respectively, above the 1984 level of 53.6 percent.

The total age-sex-adjusted unemployment rate averaged 5.7 percent for the 30 years 1955-84 and 7.3 percent for the 10 years 1975-84. The ultimate total age-sex-adjusted unemployment rate is assumed to be 5.0, 5.5, 6.0, and 7.0 percent for alternatives I, II-A, II-B, and III, respectively. For alternatives I, II-A, and II-B, the unemployment rate is assumed to decline gradually, reaching its ultimate level in 1995. For alternative III, the unemployment rate is assumed to peak in 1986 and again in 1989, because of assumed recessions, and thereafter to decline gradually, reaching its ultimate level in 1995.

The projected age-adjusted coverage rate for men increases from its 1984 level of 73.2 percent to 78.7, 76.9, 76.1, and 74.1 percent in 2060 on the basis of alternatives I, II-A, II-B, and III, respectively. Correspondingly, for women, it increases from its 1984 level of 54.1 percent to 65.1, 63.8, 61.9, and 60.6 percent, respectively.

AVERAGE EARNINGS AND INFLATION

Future increases in average earnings and in the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) will directly affect the OASDI program. Average earnings in covered employment for each year have a direct affect on the size of the taxable payroll and on the future level of average benefits. Increases in the CPI directly affect the automatic cost-of-living benefit increases, while inflation in general affects the nominal levels of average earnings, GNP, and taxable payroll. In addition, increases in average wages in the U.S. economy

directly affect the indexation, under the automatic-adjustment provisions in the law, of the benefit formulas, the contribution and benefit base, the exempt amounts under the retirement earnings test, the amount of earnings required for a quarter of coverage, and under certain circumstances, the automatic cost-of-living benefit increases.

Increases in average earnings were projected in two components increases in real average earnings and increases in the CPI. For simplicity, real-earnings increases are expressed in the form of realearnings differentials—i.e., the percentage increase in average nominal earnings, minus the percentage increase in the CPI. The assumed ultimate real-earnings differentials are based on analysis of trends in productivity gains and the factors linking productivity gains with real-earnings differentials. For the 30 years 1955-84, annual increases in productivity for the U.S. economy averaged 2.0 percent, the result of average annual increases of 2.7, 1.9, and 1.3 percent for the 10-year periods 1955-64, 1965-74, and 1975-84, respectively. Meanwhile, the realearnings differential averaged 1.0 percentage point for the 30 years 1955-84, the result of average annual increases of 2.4 and 1.1 percentage points, and an average annual decrease of 0.4 percentage point, respectively, for the aforementioned 10-year periods. The change in the linkage between annual increases in productivity and the real-earnings differential averaged 1.0 percent for the 30 years 1955-84, and 1.7 percent for the 10 years 1975-84. The change in the linkage reflects changes in such factors as the average number of hours worked per year, the extent to which workers share in the value of production, and the proportion of employee compensation paid as wages.

The ultimate annual increases in productivity are assumed to be 2.67, 2.35, 2.05, and 1.75 percent for alternatives I, II-A, II-B, and III, respectively. The corresponding ultimate annual declines in the linkage are assumed to be 0.2, 0.4, 0.6, and 0.8 percent. The resulting ultimate real-earnings differentials are 2.5, 2.0, 1.5, and 1.0 percent.

For alternative II-A, the CPI-W is assumed to increase ultimately at an annual rate of 3.0 percent. For alternative II-B, the CPI-W is assumed to increase ultimately at an annual rate of 4.0 percent, which is somewhat lower than the average annual increase of 4.6 percent experienced between 1954 and 1984. The ultimate increases in the average annual CPI-W for alternatives I and III of 2.0 percent and 5.0 percent, respectively, were chosen to include a reasonable range of possible values. Ultimate annual increases in the GNP price deflator are assumed to be the same, for each alternative, as for the CPI-W.

The ultimate increases in average annual earnings in covered employment are assumed to be 4.5, 5.0, 5.5, and 6.0 percent, for alternatives I, II-A, II-B, and III, respectively. These were obtained, for each alternative, by adding the assumed annual percentage increase in the CPI-W to the assumed real-earnings differential. Ultimate increases in average wages and earnings for the U.S. economy are very similar to those assumed for average earnings in covered employment.

TAXABLE PAYROLL

The taxable payroll is that amount which, when multiplied by the combined employee-employer tax rate, yields the total amount of taxes

paid by employees, employers, and the self-employed. The taxable payroll is important not just in estimating OASDI income, but also in determining cost rate, income rate, and actuarial balance. These terms are defined in the introduction to the section entitled "Actuarial Estimates."

In practice, the taxable payroll is calculated as a weighted average of the earnings on which employees, employers, and self-employed persons make contributions to the OASDI program. The weighting takes into account the lower tax rates, as compared to the combined employeeemployer rate, which apply to tips and multiple-employer "excess wages," and which did apply, before 1984, to net earnings from selfemployment. For 1984 and later, the amounts of earnings for employees, employers, and the self-employed were projected separately. For 1983 and later, taxable payroll also includes deemed wage credits for military service. Estimates of taxable earnings for employees, employers, and the self-employed were developed from corresponding estimates of earnings in the U.S. economy, by means of factors which adjust for various differences in these measures. The factors adjust total U.S. earnings by removing earnings from noncovered employment, adding earnings from various outlying areas which are covered by Social Security but are not included in published "U.S." data, and removing earnings above the taxable earnings base.

The cost of the OASDI program can also be expressed as a percentage of the Gross National Product (GNP). Such percentages (which are shown in table 31) are based on the estimated cost rates and on the estimated ratios of taxable payroll to GNP, which are presented in table A2. Projections of GNP were made for the first several years based on assumed quarterly changes in real GNP and in the GNP price deflator. Thereafter, projections of GNP were made in relation to the estimated amounts of earnings in the U.S. economy, and thus, indirectly, in relation to assumed increases in productivity. These projections were based on projected or assumed changes in the size of the employed labor force, the level of average earnings, the ratio of earnings to worker compensation, and the ratio of worker compensation to GNP.

The ratio of taxable payroll to GNP has risen since 1960, in part because of ad hoc increases in the contribution and benefit base. The increase in the ratio for 1983 is largely the result of reflecting in the taxable payroll the special lump-sum transfers made in that year, representing contributions on deemed wage credits granted for military service in 1957-83. The ratio was projected to increase generally for several years for each alternative (as compared to the value shown for 1982), because of the expanded coverage resulting from the 1983 amendments. The long-range trend, however, was projected to be downward, because of a continuation of increases in the ratio of nonwage employee compensation—i.e., fringe benefits—to total compensation. The ratio of wages to total employee compensation is assumed to decline ultimately by 0.1, 0.2, 0.3, and 0.4 percent per year for alternatives I, II-A, II-B, and III, respectively. This ratio declined at average annual rates of 0.43 percent for the 30 years 1955-84, and 0.48 percent for the 10 years 1975-84.

TABLE A2.—RATIO OF TAXABLE PAYROLL TO GNP BY ALTERNATIVE, CALENDAR YEARS 1960-2060

		2060		
Calendar year		experi	Past ence	
1960			0.402	
965		•	.350	
1970			.407	
975			.419	
980			.436	
961			.429	
962			434	
983			447	
903				
		Projected, by a	Itemative '	
	ı	II-A	II-B	H
984	.437	.436	.435	.433
985	.439	.436	.438	.437
990	.438	.437	.435	.425
995	.441	.437	.434	.428
2000	.442	.436	.431	.424
005	.443	.435	.428	.419
010	.443	.433	.424	.413
2015	.442	429	.418	.406
020	.439	.425	.412	.398
025	.437	421	.407	.390
030	.435	417	.401	.383
2035	.433	.413	.395	.376
	.431	.409	.390	.369
2040	.429	.405	.384	.362
2045	.42 0 .427	402	.379	.355
2050			.378	.333
2055	.425	.398	.368	
2060	.423	.394	.308	.342

INSURED POPULATION

There are three types of insured status under the OASDI program: fully, currently, and disability. Fully insured status is required of an aged worker for eligibility to a primary retirement benefit and for the eligibility of the worker's spouse and children to auxiliary benefits. Fully insured status is also required of a deceased worker for the eligibility of the worker's survivors to benefits (with the exception of child survivors and parents of eligible child survivors, in which cases the deceased worker is required to have had either currently insured status or fully insured status). Disability insured status, which is more restrictive than fully insured status, is required of a disabled worker for eligibility to a primary disability benefit and for the eligibility of the worker's spouse and children to auxiliary benefits.

Projections of the percentage of the population that is fully insured were made by age and sex, based on past and projected coverage rates, the requirement for fully insured status, and their historical relationships to fully insured rates. Currently insured status was disregarded for purposes of these estimates, because the number of cases in which eligibility for benefits is based solely on currently insured status is relatively small. Projections of the percentage of the fully insured population that is also disability insured were developed from historical trends relating the two. Finally, the fully insured and disability insured populations were developed from the projected total population by applying the appropriate percentages.

The fully insured population by age and sex was further subdivided by marital status, in a manner consistent with the division of the total population by marital status. Married men are assumed to be more likely to be fully insured than are widowers who, in turn, are assumed to be

more likely to be fully insured than are single and divorced men. By contrast, single and divorced women are assumed to be more likely to be fully insured than are widows who, in turn, are assumed to be more likely to be fully insured than are married women. The relative difference between a widowed woman's probability of being fully insured and a married woman's is assumed to decrease through time, reflecting the projected large increase in labor force participation among married women.

OLD-AGE AND SURVIVORS INSURANCE BENEFICIARIES

The numbers of OASI beneficiaries were projected for each type of benefit separately, by the sex of the worker on whose earnings the benefits are based, and by the age of the beneficiary. For selected types of benefits, the numbers of beneficiaries were also projected by marital status.

The numbers of retired-worker beneficiaries were projected as a percentage of the aged fully insured population. The percentages for ages 70 and over are assumed to be 100, because the retirement earnings test and delayed retirement credit do not apply after age 70. For 1990, the percentages for ages 65 through 69 are assumed to increase, reflecting the change effective then in withholding under the retirement earnings test. The percentages for ages 62 through 69 were projected for each year of birth as a function of the ratio of the monthly benefit amount payable at each age of entitlement to the amount payable at entitlement age 70. Thus, the percentages were projected to decline gradually as the increases in the delayed retirement credit become effective, and to decline more rapidly, beginning in 2000, during the years in which the normal retirement age is scheduled to increase. Ultimate percentages are assumed to be reached in 2030.

The numbers of aged-spouse beneficiaries were estimated from the population projected by age, sex, and marital status. The benefits of aged-spouse beneficiaries are based on the earnings records of their husbands or wives, who are referred to as "wage earners." To the numbers of spouses aged 62 and over in the population, a series of factors were applied, representing the probabilities that the spouse and the wage earner meet all of the conditions of eligibility—i.e., the probabilities that (1) the spouse is not insured, (2) the spouse is not earning enough to have his or her benefits withheld, (3) the wage earner is 62 or over, (4) the wage earner is insured, (5) the wage earner is receiving benefits, and (6) a residual factor including the probability that the spouse is not eligible to receive a significant governmental pension based on earnings in noncovered employment.

In addition, the same factors were applied to the numbers of divorced persons aged 62 and over in the population, with two differences. First, an additional factor is required to reflect the probability that the person's former wage-earner spouse is still alive (otherwise, he or she may be entitled to a divorced widow(er)'s benefit). Second, factor (5) was not applied because, effective for January 1985, divorced persons need not wait to receive benefits until their former wage-earner spouses are receiving benefits.

The projected numbers of children under age 18, and students aged 18, who are eligible for benefits as children of retired-worker beneficiaries, were based on the projected numbers of children in the population with mothers or fathers who are aged 62 and over. To these numbers of children, two factors were applied, representing the probabilities that their mothers or fathers are both insured and receiving benefits. The numbers of disabled children aged 18 and over were projected as a percentage of the adult population. The numbers of young-spouse beneficiaries were estimated as a proportion of the projected numbers of minor-child beneficiaries, taking into account projected changes in average family size.

The numbers of aged-widow(er) beneficiaries were estimated from the population by age, sex, and marital status. Three factors were applied to the numbers of widow(er)s in the population aged 60 and over. These factors represent the probabilities that (1) the deceased wage-earner was fully insured at death, (2) the widow(er) is not fully insured, and (3) the widow(er)'s benefits are not withheld under the retirement earnings test or because of eligibility for a governmental pension based on earnings in noncovered employment. In addition, some insured widow(er)s who had not applied for their retired-worker benefits are assumed to receive widow(er) benefits. Also, the same factors were applied to the numbers of divorced persons aged 60 and over in the population, with an additional factor representing the probability that the person's former wage-earner spouse is deceased.

The projected numbers of children under age 18, and students aged 18, who are eligible for benefits as survivors of deceased workers, were based on the projected numbers of children in the population whose mothers or fathers are deceased. To these numbers of children, one factor was applied, representing the probability that the mother or father was insured at death. The numbers of disabled children aged 18 and over were projected as a percentage of the adult population. The numbers of mother and father survivor beneficiaries were projected from the numbers of minor-child beneficiaries, taking into account projected changes in average family size.

The numbers of parent survivor beneficiaries were projected as a function of the uninsured population aged 62 and over.

Table A3 shows the projected numbers of beneficiaries under the OASI program. Included among the beneficiaries who receive retired-worker benefits are some persons who also receive residual benefits consisting of the excesses of any potential auxiliary benefits over their retired-worker benefits. Estimates of the number of such residual payments were made separately for wives, widows, husbands, and widowers. Residual payments to other beneficiaries were not taken into account, because of the negligible cost involved.

TABLE A3.—OASI BENEFICIARIES WITH MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS AS OF JUNE 30 BY ALTERNATIVE, CALENDAR YEARS 1960-2060 [In thousands]

	Retired workers and auxiliaries Survivors								
		Wife-		Widow-	Mother-	<u> </u>			
Calendar year	Worker	husband	Child	widower	father	Child	Parent	Total	
Past experience: 1960	7.040								
1965	7,813	2,224	260	1,471	368	1,549	35	13,740	
1970	10,843	2,601	429	2,228	472	1,900	36	18,509	
1975	13,066	2,851	535	3,151	514	2,673	29	22,818	
1976	18,210	2,838	633	3,823	568	2,905	22	28,998	
1077	16,789	2,867	638	3,939	576	2,911	21	27,740	
1977	17,380	2,899	870	4,042	573	2,843	19	28,428	
1978 1979	17,924	2,942	862	4,147	569	2,800	18	29.062	
1980	18,590	2,966	651	4,260	567	2,739	17	29.789	
	19,167	2,987	633	4,354	560	2,668	15	30,365	
1981	19,792	3,010	639	4,448	549	2,624	14	31,074	
1982	20,392	3,019	522	4,540	520	2,201	13	31,207	
1983	21,060	3,051	491	4,632	494	2,093	12	31,633	
1984	21,588	3,033	479	4,722	367	2,030	11	32,251	
Alternative I:						-, -		02,20.	
1985	22,096	3,042	468	4,809	381	1.975	10	32,781	
1990	24,610	3,144	451	5,148	388	1.863	7	35,610	
1995	26,296	3,486	411	4,878	358	1,813	14	37,254	
2000	27,312	3,385	427	4,838	358	1,866	15	38,197	
2005	28,777	3,257	472	4,755	352	1,937	15	39,565	
2010	32,104	3,253	554	4,654	345	2.002	18	42,929	
2015	37,554	3,421	636	4,568	345	2,066	18	48,606	
2020	44,069	3,708	711	4,556	347	2,134			
2025	50,285	3,984	757	4,609	357		16	55,541	
2030	54,780	4,069	760	4,896	370	2,199	15	82,207	
2035	56,747	4,003	763	4,773	380	2,249	16	66,940	
2040	58.827	3,768	759	4,796		2,299	18	68,982	
2045	56,890	3,674	792		389	2,354	17	68,930	
2050	57,568	3,634	819	4,773	397	2,415	17	68,959	
2055	58.703	3,707	847	4,713	409	2,480	17	69,840	
2060	60,094	3,816		4,647	421	2,543	16	70,885	
Alternative II-A:	00,094	3,010	869	4,609	433	2,604	15	72,441	
1985	22,122	2040	400						
1990	24,942	3,042	468	4,810	381	1,972	10	32,805	
1995		3,179	450	5,149	378	1,818	7	35,921	
2000	26,815	3,583	408	4,879	334	1,687	14	37,721	
2000	28,223	3,547	418	4,858	318	1,849	16	39,029	
2005	30,030	3,470	447	4,804	299	1.822	17	40,689	
2010	33,671	3,498	507	4,729	284	1,607	18	44,314	
2015	39,457	3,688	563	4,656	276	1,603	18	50,261	
2020	48,352	4,000	612	4,638	271	1,605	18	57,496	
2025	53,002	4,309	639	4,675	270	1,606	18	64.519	
2030	57,974	4,424	633	4,752	271	1,598	19	69,672	
2035	60,395	4,375	627	4.835	269	1,587	20		
2040	80,840	4,159	613	4,879	265	1,567	21	72,107	
2045	61,156	4,033	829	4,880	261	1,576	21	72,353	
2050	61,902	3,975	639	4,832	260	1,567		72,547	
2055	62,643	4,008	645	4,748	259		21	73,189	
2060	63,202	4,060	645	4,748 4.655		1,549	21	73,874	
Mternative II-B:	00,E0E	7,000	040	4,000	258	1,537	20	74,376	
1985	22,122	3,042	468	4 840	204	4.074			
1990	24,941	3,180	466 450	4,810	381	1,972	10	32,805	
1995	26,811	3,180		5,149	378	1,616	7	35,921	
2000	28,204		408	4,880	334	1,686	14	37,719	
2005	29,985	3,557	418	4,863	318	1,648	16	39,023	
2010	29,965 33,594	3,493	446	4,816	299	1,620	17	40,676	
2015		3,534	507	4,750	284	1,604	18	44,291	
2010	39,349	3,735	563	4,688	276	1,599	18	50,228	
2020	46,209	4,059	611	4,682	270	1,601	19	57,452	
2025	52,818	4,385	638	4,732	270	1,601	19	64,462	
2030	57,746	4,518	632	4,822	271	1,593	19	69,603	
2035	60,128	4,484	626	4,919	269	1,582	20	72,026	
2040	60,540	4,278	611	4,978	265	1.571	21	72,284	
2045	60,823	4,162	627	4,994	260	1,561	22	72,450	
2050	61,534	4,116	637	4,959	260	1,553	22		
2055	62,248	4,157	643	4.886	259	1,543	22	73,082	
2060	62,787	4,215	643	4,802	257	1,543		73,759	
		-,= .0	<u> </u>	7,502	201	1,530	21	74,256	

TABLE A3.—OASI BENEFICIARIES WITH MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS AS OF JUNE 30 BY ALTERNATIVE, CALENDAR YEARS 1960-2060 (Cont.) [In thousands]

	Retired workers and auxiliaries							
Calendar year	Worker	Wife- husband	Child	Widow- widower	Mother- father	Child	Parent	Total
Alternative III:		-						
1985	22,147	3,042	468	4,811	381	1,970	10	32,829
1990	25,251	3,215	448	5,150	370	1,770	7	38,211
1995	27,287	3,877	403	4,879	313	1,567	15	38,142
2000	29,044	3,715	404	4,876	283	1,446	17	39,785
2005	31,210	3.720	410	4.853	250	1,323	19	41,784
2010	35,284	3,828	445	4,812	224	1,232	20	45,825
2015	41,598	4.082	475	4.763	208	1,166	22	52,312
2020	49,174	4.471	498	4.752	194	1,110	22	60,222
2025	56,660	4.878	507	4.778	183	1,056	23	68.083
2030	62,811	5,095	493	4,841	174	1,004	24	74,242
2035	66,069	5,131	477	4,927	163	950	26	77,743
2040	67,504	4.964	454	4,998	150	897	28	78,996
2045	68,692	4,862	454	5,034	139	847	29	80.057
	70.014	4,812	447	5,026	131	800	30	81,261
2050			435	4,951	124	754	31	81,685
2055	70,588	4,804			117	709	30	81,121
2060	70,254	4,778	417	4,815	117	/ 08	30	01,12

Note: The numbers of beneficiaries do not include certain uninsured persons, most of whom both attained age 72 before 1968 and have fewer than 3 quarters of coverage, in which cases the costs are reimbursed by the general fund of the Treasury. The number of such uninsured persons was 45,098 as of June 30, 1984 as estimated to be less than 500 by the turn of the century. Totals do not necessarily equal the sums of rounded components.

DISABILITY INSURANCE BENEFICIARIES

The numbers of workers entitled to Disability Insurance benefits were projected from the estimated numbers of such beneficiaries on December 31, 1984, by adding new entitlements, and subtracting terminations. The starting number of entitled disabled-worker beneficiaries was estimated by age, sex, and duration of entitlement. The numbers of new entitlements during each year were projected by applying assumed disability incidence rates, by age and sex, to the projected disability insured population (excluding those already entitled to disabled-worker benefits). The numbers of terminations during each year were projected by applying assumed death and recovery rates, by age, sex, and duration of entitlement, to the disabled-worker population, and adding the number of disabled-worker beneficiaries automatically converted to retired-worker beneficiaries at the normal retirement age (currently, age 65).

The disability incidence rates, which declined during 1975-82 and increased during 1983-84, are assumed to continue increasing from 1984 through 2000, at which time they reach ultimate levels which, for alternatives II-A and II-B, are about 25 percent higher than the corresponding average rates for 1979-83. For the other alternatives, the disability incidence rates follow patterns similar to the one for alternatives II-A and II-B. For alternative I, the ultimate levels are assumed to be about the same as the average for 1979-83, and, for alternative III, about 50 percent higher.

The death and recovery rates were projected by age, sex, and duration of entitlement. For alternatives II-A and II-B, the death rates are assumed to decline steadily throughout the 75-year projection period, reaching levels in 2060 approximately 21 percent lower than those experienced by disabled-worker beneficiaries during 1977-80. The recovery rates are assumed to remain constant at levels about 15 percent higher than those of the same period, thereby allowing for the estimated effect of the periodic reviews required by provisions of law first enacted in 1980, and amended in 1983 and 1984.

For alternative I, the death rates are assumed to remain constant at levels equal to those experienced by disabled-worker beneficiaries during 1977-80, and the recovery rates are assumed to remain constant at levels 30 percent higher than those of the same period. For alternative III, the reductions in death rates are assumed to be double those for alternatives II-A and II-B; the death rates in 2060 are about 42 percent lower than those experienced during 1977-80. The alternative III recovery rates are assumed to be equal to those experienced during 1977-80.

The projected numbers of children under age 18, and students aged 18, who are eligible for benefits as children of disabled-worker beneficiaries, were based on the projected numbers of children in the population by age and sex of each parent. To these numbers of children were applied factors representing the probability that either of their parents is disabled. The numbers of disabled children aged 18 and over were projected as a function of the numbers of disabled-worker beneficiaries and the size of the adult population.

The numbers of young-spouse beneficiaries were projected as a proportion of the projected numbers of child beneficiaries who are either under age 16 or disabled, taking into account projected changes in family size. The numbers of aged-spouse beneficiaries were projected as a proportion of the numbers of disabled-worker beneficiaries, based on recent experience and allowing for projected changes in marriage rates.

Table A4 shows the projected numbers of beneficiaries under the DI program.

TABLE A4.—DI BENEFICIARIES WITH MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS AS OF JUNE 30 BY ALTERNATIVE, CALENDAR YEARS 1960-2060 [In thousands]

		Auxiliarie	98	
Calendar year	Disabled workers	Wives and husbands	Children	Tota
Past experience:				
1960	371	56	94	52
1965	944	187	518	1,64
1970	1,438	271	861	2,56
1975	2,363	420	1.333	4.12
1976	2,602	468	1,462	
1977	2,755	482	1,496	4,53
1978	2,858	491		4,73
1979	2,877	483	1,512	4,86
1980	2,863		1,466	4,82
1981	2,835	468	1,403	4,73
1982		450	1,350	4,63
1983	2,713	399	1,071	4,10
1004	2,591	357	944	3,89
1984 Alternative I:	2,567	305	917	3,78
1985	0.004			
1990	2,631	308	918	3,8
1006	2,630	308	866	3,80
1995	2,637	288	920	3,84
2000	2,942	303	998	4.24
2005	3,496	325	1,080	4.90
2010	4,121	347	1,149	5.81
2015	4,486	360	1,200	6.04
2020	4,668	374	1,246	6.28
2025	4,878	389	1,294	6.56
2030	4,770	386	1,327	6.46
2035	4,879	387	1.359	6.42
2040	4,743	392	1,400	6.53
2045	4,981	411	1.452	6.84
2050	5,133	426	1.505	7.06
2055	5.261	440	1,557	7,00
2060	5.391	453	1,608	7,45

TABLE A4.—DI BENEFICIARIES WITH MONTHLY BENEFITS IN CURRENT-PAYMENT STATUS AS OF JUNE 30 BY ALTERNATIVE, CALENDAR YEARS 1960-2060 (Cont.) [In thousands]

[in thousands]				
		Auxillaries		
Calendar year	Disabled workers	Wives and husbands	Children	Tota
liternative II-A:		040	923	3.87
1985	2,645	310		4.04
1990	2,798	330	919	
1995	3,067	338	1,063	4,46
2000	3,592	369	1,183	5,14
2005	4,393	402	1,275	8,07
2010	5,250	431	1,332	7,01
2015	5.751	446	1,363	7,56
2020	5.998	462	1,387	7,84
2025	8,263	477	1,413	8,15
	6,103	468	1.422	7.99
2030	5.957	461	1.424	7.84
2035	5,993	459	1.432	7.88
2040		474	1.451	8.15
2045	6,231	481	1.468	8.2
2050	8,295		1,483	8.2
2055	8,281	484		8.3
2060	6,324	491	1,520	6,3
Alterrative II-B:				
1985	2,645	310	923	3,8
1990	2,795	330	919	4,0
1995	3.066	338	1,063	4,4
2000	3,589	369	1,183	5,1
2005	4.388	402	1.275	6.0
	5,241	431	1,332	7.0
2010	5,738	448	1.362	7.5
2015	5,730 5,981	462	1.386	7.8
2020		477	1.412	8.1
2025	6,242	468	1.421	7.9
2030	6,079			7.8
2035	5,932	461	1,423	7,8 7.8
2040	5,966	458	1,430	
2045	6,201	474	1,449	6,1
2050	6,265	481	1,466	8,2
2055	8,251	484	1,481	8,2
2060	6.294	491	1,518	8,3
Aitemative III:				
1985	2,654	312	928	3,8
1990	2,965	350	970	4,2
1995	3,509	388	1.196	5,0
	4,261	433	1.337	6.0
2000	5.315	470	1,394	7.1
2005		500	1.398	8.3
2010	6,408		1,377	8.9
2015	7,046	512		9.2
2020	7,348	523	1,354	
2025	7,654	534	1,336	9,5
2030	7,416	513	1,302	9,2
2035	7,181	492	1,256	8,9
2040	7,139	475	1,213	8,8
2045	7.297	481	1,180	6,9
2050	7,135	472	1,147	8,7
	6.793	453	1,111	8.3
2055	6,506	434	1.075	8.0

Note: Totals do not necessarily equal the sums of rounded components.

AVERAGE BENEFITS

Average benefits were projected by type of benefit based on recent historical averages, projected average Primary Insurance Amounts (PIAs), and projected ratios of average benefits to average PIAs. Average PIAs were calculated from projected distributions of beneficiaries by duration from year of award, average awarded PIAs, and increases thereto since the year of award, because of automatic benefit increases, recomputations to reflect additional covered earnings, and other factors. Average awarded PIAs were calculated from projected earnings histories, which were developed from the actual earnings histories associated with a sample of awards made in 1979.

For several types of benefits—retired-worker, aged-spouse, and aged-widow(er) benefits—the percentage of the PIA that is payable depends

on the age at initial entitlement to benefits. Projected ratios of average benefits to average PIAs for these types of benefits were based on projections of age distributions at initial entitlement.

BENEFIT PAYMENTS

For each type of benefit, annual benefit payments were calculated as the product of (1) the number of beneficiaries on June 30, and (2) twelve times the corresponding average monthly benefit. These amounts were adjusted to include retroactive payments to newly awarded beneficiaries.

Lump-sum death payments were calculated as the product of the number of such payments, which was projected on the basis of the assumed death rates, the projected fully insured population, the estimated percentage of the fully insured population that would qualify for benefits, and the amount of the lump-sum death payment, which is \$255.

ADMINISTRATIVE EXPENSES

The projection of administrative expenses through 1994 was based on assumed increases in average wages, increases in the CPI, and increases in the number of beneficiaries. For years after 1994, administrative expenses are assumed to increase with the numbers of beneficiaries and with average earnings in covered employment, taking into account assumed increases in productivity.

RAILROAD RETIREMENT FINANCIAL INTERCHANGE

The effect of the financial interchange with the Railroad Retirement program was evaluated on the basis of trends similar to those used in estimating the cost of OASDI benefits. The resulting effect was an average annual long-range cost to the OASDI program of 0.02 percent of taxable payroll.

BENEFITS TO UNINSURED PERSONS

The law provides for special monthly cash payments to certain uninsured persons who attained age 72 before 1968 or who have 3 quarters of coverage for each year after 1966 and before the year of attainment of age 72. These payments are made from the OASI Trust Fund, which is then reimbursed from the general fund of the Treasury for the costs (including administrative expenses and interest) associated with providing payments to those persons with fewer than 3 quarters of coverage. Neither the payments nor the reimbursements are reflected in the cost rates or the income rates. These amounts are reflected, however, in tables which show trust fund operations.

APPENDIX B.—SENSITIVITY ANALYSIS

This appendix presents estimates which illustrate the sensitivity of the medium-range and long-range estimates to changes in selected individual assumptions. Although the estimates based on the four alternative sets of assumptions illustrate the variations in the estimated actuarial balances resulting from different combinations of assumptions, they do not show the variations resulting from changes in any single assumption. In this sensitivity analysis, alternative II-B is used as the reference point, and one assumption at a time within that alternative is varied. Similar variations in the selected assumptions within the other alternatives would result in similar relative variations in the actuarial balances.

Each table which follows shows the effects of changing the particular assumption under consideration on the average OASDI cost rates, total income rates, and balances. Because the income rates consist mostly of the contribution rates, which are specified in the law, the income rates themselves vary only slightly with changes in assumptions. Consequently, they are not considered in the discussion of the tables. The change in each of the balances is approximately equal to the change in the corresponding cost rate—but in the opposite direction.

TOTAL FERTILITY RATE

Table B1 shows the estimated average OASDI cost rates, income rates, and balances, on the basis of alternative II-B with various assumed ultimate total fertility rates. These assumptions are that the ultimate total fertility rates will be 1.6 children per woman (as assumed for alternative III), 2.0 (as assumed for alternatives II-A and II-B), and 2.3 (as assumed for alternative I). The rates are assumed to change gradually from their current levels and to reach their ultimate values in 2009.

TABLE B1.—ESTIMATED AVERAGE OASDI COST RATES, TOTAL INCOME RATES, AND BAL-ANCES, BASED ON ALTERNATIVE II-B WITH VARIOUS FERTILITY ASSUMPTIONS [As a percentage of taxable payroll]

[As a percentage of taxable payroll]						
	Ultimate					
Calendar years	1.6	2.0	2.3			
Average cost rate:		10.62	10.64			
1985-2009	10.59		13.42			
2010-2034	14.40	13.79	13.99			
2035-2059	18.55	15.64				
1985-2059	14.51	13.35	12.68			
Average total income rate:			12.62			
1985-2009	12.62	12.62				
2010-2034	13.04	13.01	12.99			
2035-2059	13.32	13.18	13.10			
1985-2059	12.99	12.94	12.90			
Balance:			. 4 00			
1985-2009	+2.03	+2.00	+1.98			
2010-2034	-1.36	78	42			
2035-2059	-5.22	-2.46	90			
1985-2059	-1.52	-,41	+.22			
1900-2009			i. b lifesies i			

¹The total fertility rate for any year is the average number of children who would be born to a woman in her lifetime if she were to experience the birth rates by age observed in, or assumed for, the selected year, and if she were to survive the entire child-bearing period. The ultimate total fertility rate is assumed to be reached in 2009.

For the first 25 years, the average cost rate for the three fertility assumptions varies by only 0.05 percent of taxable payroll. In contrast, the average long-range cost rate varies over a wide range, decreasing from 14.51 to 12.68 percent, as the assumed ultimate total fertility rate increases from 1.6 to 2.3. Similarly, while the medium-range actuarial

balance varies by only 0.05 percent of taxable payroll, the long-range actuarial balance varies over a much wider range—from -1.52 to +0.22 percent.

During the medium-range period, changes in fertility affect the working population only slightly and result in relatively minor changes in the number of child beneficiaries. Hence, the program cost is affected only slightly. For the 75-year long-range period, however, changes in fertility have a relatively greater impact on the labor force than on the beneficiary population, thereby resulting in significant changes in cost. Each increase of 0.1 in the ultimate total fertility rate increases the long-range actuarial balance by about 0.25 percent of taxable payroll.

DEATH RATES

Table B2 shows the estimated average OASDI cost rates, income rates, and balances, on the basis of alternative II-B with various assumptions about future reductions in death rates. The analysis was developed by varying the percentage decrease assumed to occur during 1983-2060 in the age-sex-adjusted death rate. The decreases assumed for this period are about 22 percent (as assumed for alternative I), 38 percent (as assumed for alternative II-A and II-B), and 59 percent (as assumed for alternative III).

TABLE B2.—ESTIMATED AVERAGE OASDI COST RATES, TOTAL INCOME RATES, AND BAL-ANCES, BASED ON ALTERNATIVE II-B WITH VARIOUS DEATH-RATE ASSUMPTIONS [As a percentage of taxable payroli]

	Reduction in death rates ¹			
Calendar years	22 percent	38 percent	59 percent	
Average cost rate:			- PO.0011	
1985-2009	40.40			
2010-2034	10.43	10.62	10.81	
AAAF AAFA	13.16	13.79	14.63	
	14.49	15.64	17.52	
1985-2059	12.69	13.35		
Average (dial income rate.	-2.00	10.33	14.32	
1985-2009	12.61	40.00		
2010-2034		12.62	12.63	
2035-2059	12.98	13.01	13.05	
	13.12	13.18	13.27	
1985-2059	12.91	12.94	12.98	
			12.00	
1985-2009	+2.19	+2.00	. 4 00	
2010-2004	18	78	+1.82	
2035-2059	-1.37		-1.58	
1985-2059		-2.46	-4.25	
The measure of the set	+.21	41	-1.34	

'The measure of the reduction in death rates is the percentage decrease in the age-sex-adjusted death rate during 1983-2060.

Because the decreases in death rates are assumed to occur gradually, the variation in program cost for the medium-range period is less pronounced than the variation for the long-range period. The medium-range cost rate increases from 10.43 percent (for 22-percent lower ultimate death rates) to 10.81 percent (for 59-percent lower ultimate rates). The long-range cost rate increases from 12.69 to 14.32 percent. The actuarial balance decreases from +2.19 to +1.82 percent for the medium-range period, and from +0.21 to -1.34 percent for the long-range period.

Lower death rates cause both the income and outgo of the OASDI program to be higher than they would otherwise be. The outgo, however, will increase more rapidly than the income for the mediumand long-range periods. Reductions in the death rates for people who

have attained the normal retirement age (people whose death rates are the highest) extend the length of time that retirement benefits are paid. Although an increase in taxable payroll results from lower death rates at ages 50 through the normal retirement age, this is more than offset by the additional retirement and disability benefits which subsequently result. At ages 20-49, death rates are so low that even substantial reductions would not result in significant increases in the numbers of covered workers or beneficiaries. Lower death rates at ages below 20 have relatively little long-term effect on the relationship between outgo and taxable payroll. Consequently, if death rates by age are lower by the same relative amount, outgo increases at a rate greater than the rate of growth in payroll, thereby resulting in higher cost rates. Each additional 10-percent reduction in the age-sex-adjusted death rate assumed to occur in 1983-2060, relative to the 38-percent reduction assumed for alternative II-B, decreases the long-range actuarial balance by about 0.40 percent of taxable payroll.

DISABILITY INCIDENCE RATES

Table B3 shows the estimated average OASDI cost rates, income rates, and balances, on the basis of alternative II-B with various assumptions about future disability incidence rates. These assumptions are that the ultimate annual age-sex-adjusted disability incidence rate will be about the same as the average of the corresponding annual rates experienced during 1979-83 (as assumed for alternative I), about 25 percent higher than the 1979-83 experience (as assumed for alternatives II-A and II-B), and about 50 percent higher than such experience (as assumed for alternative III). The rates are assumed to change gradually from their current levels and to reach their ultimate values in 2000.

TABLE B3.—ESTIMATED AVERAGE OASDI COST RATES, TOTAL INCOME RATES, AND BAL-ANCES, BASED ON ALTERNATIVE II-B WITH VARIOUS DISABILITY INCIDENCE ASSUMPTIONS [As a percentage of taxable payroll]

Calendar years	Increase in disability incidence rates		
	None	25 percent	50 percent
Average cost rate:			
1985-2009	10.48	10.62	10.76
2010-2034	13.49	13.79	14.10
2035-2059	15.32	15.64	15.94
1985-2059	13.09	13.35	13.60
Average total income rate:			
	12.61	12.62	12.62
1985-2009	13.00	13.01	13.03
2010-2034	13.16	13.18	13.19
2035-2059		12.94	12.9
1985-2059	12.93	12.84	12.8
Balance:			. 4 04
1985-2009	+2.14	+ 2.00	+1.86
2010-2034	49	78	-1.07
2035-2059	-2.16	-2.46	-2.75
1985-2059	17	41	69

¹The increase in disability incidence rates is based on the ratio of the ultimate annual age-sex-adjusted incidence rate (reached in 2000) to the average of the corresponding annual rates experienced during 1979-83.

For the medium-range period, the average cost rate increases with increasing disability incidence rates from 10.48 percent (for no increase) to 10.76 percent (for a 50-percent increase). For the long-range period, it increases from 13.09 to 13.60 percent. The actuarial balance decreases from +2.14 to +1.86 percent for the medium-range period, and from -0.17 to -0.65 percent for the long-range period. Each 10-percent increase

in the assumed ultimate disability incidence rates decreases the long-range actuarial balance by about 0.10 percent of taxable payroll.

DISABILITY TERMINATION RATES

Table B4 shows the estimated average OASDI cost rates, income rates, and balances, on the basis of alternative II-B with various assumptions about future disability termination rates.

For alternative I, death-termination rates by age and sex are assumed to be the same, throughout the long-range projection period, as the corresponding annual rates experienced during 1977-80. For the other alternatives, such rates are assumed to decline throughout the 75-year projection period. At the end of that period, they reach levels that, in comparison with the corresponding annual rates experienced during 1977-80, are about 21 percent lower for alternatives II-A and II-B, and about 42 percent lower for alternative III.

For alternative III, recovery-termination rates by age and sex are assumed to be about the same, throughout the long-range projection period, as the corresponding rates experienced during 1977-80. For alternatives II-A and II-B, such rates are assumed to be about 15 percent higher than those experienced in 1977-80; for alternative I, they are about 30 percent higher than the base-period rates. Recovery-termination rates for alternatives II-A and II-B are 15 percent higher than the rates experienced during 1977-80, in order to reflect the effects of the periodic reviews required by provisions of law first enacted in 1980, and amended in 1983 and 1984.

TABLE 84.—ESTIMATED AVERAGE OASDI COST RATES, TOTAL INCOME RATES, AND BALANCES, BASED ON ALTERNATIVE II-B WITH VARIOUS DISABILITY TERMINATION ASSUMPTIONS

-	Disability termination rates based on alternative-			
Calendar years	I	II-A and II-B		
Average cost rate:				
1985-2009	10.59	40.00		
2010-2034		10.62	10.65	
2035-2059	13.72	13.79	13.88	
1985-2059	15.53	15.64	15.75	
1985-2059	13.28	13.35	13.43	
1085 2000			10.40	
1985-2009	12.62	12.62	40.00	
2010-2034	13.01	13.01	12.62	
	13.17		13.02	
1985-2059		13.18	13.18	
Balance:	12.93	12.94	12.94	
1985-2009				
0040 0004	+2.03	+2.00	+ 1.97	
2005 0050	71	78	88	
1005 0050	-2.35	-2.46	-2.57	
1965-2059	35	41	-2.57 -,49	

For the medium-range period, the average cost rate increases with decreasing disability termination rates from 10.59 percent (for the relatively high rates assumed for alternative I) to 10.65 percent (for the relatively low rates assumed for alternative III). For the long-range period, it increases from 13.28 to 13.43 percent. The actuarial balance decreases from +2.03 to +1.97 percent for the medium-range period, and from -0.35 to -0.49 percent for the long-range period.

CONSUMER PRICE INDEX

Table B5 shows the estimated average OASDI cost rates, income rates, and balances, on the basis of alternative II-B with various assumptions about the rate of increase for the CPI. These assumptions are that the ultimate annual increase in the CPI will be 2.0 percent (as assumed for alternative I), 3.0 percent (as assumed for alternative II-A), 4.0 percent (as assumed for alternative III-B), 5.0 percent (as assumed for alternative III), and 6.0 percent. In each case, the ultimate real-earnings differential is assumed to be 1.5 percentage points (as assumed for alternative II-B), yielding ultimate percentage increases in average annual earnings in covered employment of 3.5, 4.5, 5.5, 6.5, and 7.5 percent, respectively.

TABLE B5.—ESTIMATED AVERAGE OASDI COST RATES, TOTAL INCOME RATES, AND BAL-ANCES, BASED ON ALTERNATIVE II-B WITH VARIOUS CPI-INCREASE ASSUMPTIONS [As a percentage of taxable payrol]

		entage of taxable			
	Uttimate percentage increases in earnings-CPI*				
Calendar years	3.5-2.0	4.5-3.0	5.5-4.0	6.5-5.0	7.5-6.0
Average cost rate:		40.70	10.62	10.51	10.41
1985-2009	10.84	10.73	13.79	13.57	13.35
2010-2034	14.25	14.03		15.38	15.11
2035-2059	16.16	15.90	15.64	13.15	12.96
1965-2059	13.75	13.55	13.35	13.15	12.00
Average total income rate:			441.00	12.62	12.61
1985-2009	12.63	12.62	12.62		12.99
2010-2034	13.03	13.02	13.01	13.00	
2035-2059	13.20	13.19	13.18	13.17	13.15
1985-2059	12.95	12.95	12.94	12.93	12.92
Balance:			. 0.00	+2.10	+2.20
1985-2009	+ 1.79	+ 1.90	+2.00	57	36
2010-2034	-1.22	-1.00	78		-1.96
2035-2059	-2.96	-2.71	-2.46	-2.21	
1985-2059	80	61	-,41	23	04

'The first value in each pair is the assumed ultimate annual percentage increase in average earnings in covered employment. The second value is the assumed ultimate annual percentage increase in the CPI.

For both the medium-range and long-range periods, the average cost rate decreases with greater assumed rates of increase in the CPI. For the medium range, the average cost rate decreases from 10.84 percent (for CPI increases of 2.0 percent) to 10.41 percent (for CPI increases of 6.0 percent). For the long range, it decreases from 13.75 to 12.96 percent. The actuarial balance increases from +1.79 to +2.20 percent for the medium-range period, and from -0.80 to -0.04 percent for the long-range period.

The patterns described above result primarily from the time lag between the effects of the CPI changes on taxable payroll and on benefit payments. When assuming a greater rate of increase in the CPI (in conjunction with a constant real-earnings differential), the effect on taxable payroll of the implied greater rate of increase in average earnings is experienced immediately, while the effect on benefits of the greater rate of increase in the CPI is experienced with a lag of about 1 year. In addition, the effect on benefits of the greater rate of increase in average earnings is experienced no sooner than 2 years later. Thus, the higher taxable payrolls have a stronger effect than the higher benefits have, thereby resulting in lower cost rates. The effect of each 1.0-percentage-point increase in the rate of change assumed for the CPI is an increase in the long-range actuarial balance of about 0.20 percent of taxable payroll.

REAL-EARNINGS DIFFERENTIAL

Table B6 shows the estimated average OASDI cost rates, income rates, and balances, on the basis of alternative II-B with various real-earnings assumptions. These assumptions are that the ultimate real-earnings differential will be 1.0 percentage point (as assumed for alternative III), 1.5 percentage points (as assumed for alternative II-A), and 2.5 percentage points (as assumed for alternative II-A), and 2.5 percentage points (as assumed for alternative I). In each case, the ultimate annual increase in the CPI is assumed to be 4.0 percent (as assumed for alternative II-B), yielding ultimate percentage increases in average annual earnings in covered employment of 5.0, 5.5, 6.0, and 6.5 percent, respectively.

TABLE B6.—ESTIMATED AVERAGE OASDI COST RATES, TOTAL INCOME RATES, AND BAL-ANCES, BASED ON ALTERNATIVE II-B WITH VARIOUS REAL-EARNINGS ASSUMPTIONS

[As a percentage of taxable payroli]

Calendar years	Ultimate percentage increase in earnings-CPI ¹			1
	5.0-4.0	5.5-4.0	6.0-4.0	6.5-4.0
Average cost rate:		·		0.0 4.0
1985-2009 2010-2034 2035-2059	10.99 14.72 16.82	10.62 13.79	10.27 12.95	9.94 12.18
Average total income rate:	14.17	15.64 13.35	14.57 12.60	13.60 11.91
1985-2009 2010-2034 2035-2059 1985-2059	12.63 13.05 13.24	12.62 13.01 13.18	12.61 12.97 13.12	12.59 12.94 13.08
Balance:	12.97	12.94	12.90	12.87
1985-2009 2010-2034 2035-2059 1985-2059	+ 1.64 -1.66 -3.58	+2.00 78 -2.46	+2.34 +.02 -1.45	+2.65 +.76 53
¹The first value in each pair is the	-1.20	41	+.30	+.96

The first value in each pair is the assumed ultimate annual percentage increase in average earnings in covered the two values is the real-earnings differential.

For the medium-range period, the average cost rate decreases from 10.99 percent (for a real-earnings differential of 1.0 percentage point) to 9.94 percent (for a differential of 2.5 percentage points). For the long-range period, it decreases from 14.17 to 11.91 percent. The actuarial balance increases from +1.64 to +2.65 percent for the medium-range period, and from -1.20 to +0.96 percent for the long-range period.

The average cost rate decreases with increasing real-earnings differentials, because the higher real-earnings levels increase the taxable payroll, while benefit increases are not affected. Although the initial benefit levels are higher because of the higher earnings, these increases are more than offset by the increases in the taxable payroll of future workers. Each 0.5-percentage-point increase in the assumed real-earnings differential increases the long-range actuarial balance by about 0.70 percent of taxable payroll.

VI. ACTUARIAL ESTIMATES

Section 201(c)(2) of the Social Security Act requires the Board of Trustees to report annually to the Congress on the operations and status of the OASI and DI Trust Funds during the preceding fiscal year and on the expected operations and status of those trust funds during the ensuing 5 fiscal years. Such information for the fiscal year that ended September 30, 1984, is presented in the preceding section of this report. Estimates of the operations and status of the trust funds during fiscal years 1985-89 are presented in this section. Similar estimates for calendar years 1985-89 are also presented.

In the short range, the adequacy of the trust fund level is often measured by the "contingency reserve trust fund ratio," which is defined to be the assets at the beginning of the year, including advance tax transfers for January and amounts owed to other trust funds, expressed as a percentage of the outgo during the year. Thus, this ratio represents the proportion of the year's outgo which is available at the beginning of the year. The primary purpose of the trust funds is to act as contingency reserves. During periods when outgo temporarily exceeds income, as might happen during an economic recession, trust fund assets are used to meet the shortfall. In the event of recurring shortfalls for an extended period, the trust funds can allow sufficient time for the development of legislation to restore financial balance to the program. Although there is no general agreement regarding the appropriate size of the trust funds, each of them should be at least large enough to accomplish these purposes. When either trust fund is not this large, its future financing—to be considered adequate—must provide for rebuilding the fund within a reasonable period of time, without significant declines in the interim.

Section 201(c) of the Act also requires that the annual report include "a statement of the actuarial status of the Trust Funds." Such statements have customarily been made for the medium-range period (25 years) and the long-range period (75 years), each period commencing with the calendar year of issuance of the report. The statement of the long-range actuarial status has customarily included the actuarial status during the second and third 25-year subperiods of the long-range projection period. Statements of the current actuarial status are presented in this section. The methods used to estimate the actuarial status are described in Appendix A.

Basic to the discussion of the medium-range or long-range actuarial status are the concepts of "cost rate" and "total income rate," each of which is expressed as a percentage of taxable payroll. The OASDI taxable payroll consists of the total earnings which are subject to OASDI taxes, adjusted to include, after 1982, deemed wages based on military service, and to reflect the lower effective tax rates (as compared to the combined employee-employer rate) which apply to tips and to multiple-employer "excess wages," and which did apply, before 1984, to net earnings from self-employment. The cost rate is the ratio of the cost (or outgo or disbursements) of the program to the taxable payroll. In this context, the outgo is defined to include benefit payments, administrative expenses, net transfers under the financial interchange between the trust funds and the Railroad Retirement Account, and payments for vocation-

APPENDIX C

Federal Register / Vol. 49, No. 212 / Wednesday, October 31, 1984

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Office of the Secretary

Cost-of-Living Increase in Benefits Under Titles II and XVI for 1985; Average of the Total Wages for 1983; Contribution and Benefit Base, Quarter of Coverage Amount, Retirement Earnings Test Exempt Amounts, and Formulas for Computing Benefits for 1985; Old-Age, Survivors, and Disability Insurance (OASDI) Fund Ratio for 1984; and Tables of Benefit Amounts for 1985

AGENCY: Social Security Administration, HHS.

ACTION: Notice.

SUMMARY: The Secretary has determined—

- (1) A 3.5 percent cost-of-living increase in benefits under title II (section 215(i)) of the Social Security Act (the Act);
- (2) An increase in Federal SSI (title XVI) benefits for 1985 to \$3,900 for an eligible individual, \$5,856 for an eligible individual with an eligible spouse, and \$1,956 for an essential person (section 1617 of the Act);
- (3) The average of the total wages for 1983 to be \$15,239.24;
- (4) The Social Security contribution and benefit base to be \$39,600 for remuneration paid in 1985 and selfemployment income earned in taxable years beginning in 1985;

(5) The amount of earnings a person must have to be credited with a quarter of coverage in 1985 to be \$410; and

(6) The monthly exempt amount under the Social Security retirement earnings test for taxable years ending in calendar year 1985 to be \$610 for beneficiaries age 65 through 69 and \$450 for beneficiaries under age 65.

We also describe the computation of benefits for a worker and the worker's family who first become eligible for benefits in 1985, and the computation of the OASDI fund ratio used in the determination of an automatic increase of benefits under titles II and XVI.

Finally, we are publishing two tables of OASDI benefit amounts. The first table reflects: (a) The automatic benefit increase, and (b) the new higher average monthly wage and related benefit amounts made possible by the higher contribution and benefit base. This table will be used primarily to compute the retirement benefits of workers who attained age 62, became disabled or died before 1979, and to compute the related maximum family benefit increase. The second table provides the range of primary insurance amounts and the corresponding maximum family benefits under the "special minimum benefit" provision, as revised to reflect the automatic benefit increase. These benefits are payable to certain individuals with long periods of relatively low earnings.

FOR FURTHER INFORMATION CONTACT:

Clare M. Albrecht, Office of the Actuary, Social Security Administration, 6401 Security Boulevard, Baltimore, Maryland 21235, telephone (301) 594– 3882.

SUPPLEMENTARY INFORMATION: The Secretary is required by the Act to publish within 45 days after the close of the third calendar quarter of 1984 the benefit increase percentage and the tables of benefits (section 215(i)(2)(D)). Also, the Secretary is required to publish before November 1 the average of the total wages for 1983 (section 215(i)(2)(C)(iii)) and the OASDI fund ratio for 1984 (section 215(i)(2)(C)(iii)). Finally, the Secretary is required to publish on or before November 1 the contribution and benefit base for 1985 (section 230(a)), the amount of earnings required to be credited with a quarter of coverage in 1985 (section 213(d)(2)), the monthly exempt amounts under the Social Security retirement earnings test for 1985 (section 203(f)(8)(A)), the formula for computing a primary insurance amount for workers who first

become eligible for benefits or die in 1985 (section 215(a)(1)(D)), and the formula for computing the maximum amount of benefits payable to the family of a worker who first becomes eligible for old-age benefits or dies in 1985 (section 203(a)(2)(C))

Cost-of-Living Increases

General

The cost-of-living increase is 3.5 percent for benefits under titles II and XVI of the Social Security Act.

Under title II, old-age survivors, and disability insurance benefits will increase by 3.5 percent beginning with the December 1984 benefits, which are payable on January 3, 1985. The kinds of benefits payable to individuals entitled under this program are old-age, disability, wife's, husband's, child's, widow's, widower's, mother's, father's, and parent's insurance benefits. This increase is based on the authority contained in section 215(i) of the Act (42 U.S.C. 415(i)), as amended by section 201 of Pub. L. 95-216 enacted December 20, 1977, and sections 111 and 112 of Pub. L. 98-21 enacted April 20, 1983.

Under title XVI, Federal SSI payment levels will also increase by 3.5 percent effective for payments made for the month of January 1985 but paid on December 31, 1984. This is based on the authority contained in section 1617 of the Act (42 U.S.C. 1382f), as amended by section 182 of Pub. L. 97-248 enacted September 3, 1982, and as further amended by section 401 of Pub. L. 98-21, enacted April 20, 1983. The percentage increase effective January 1985 is the same as the title II benefit increase and the annual payment amount is rounded, when not a multiple of \$12, to the next lower multiple of \$12.

Automatic Benefit Increase Computation

Under section 215(i) of the Act, the third calendar quarter of 1984 is a cost-of-living computation quarter for all the purposes of the Act. The Secretary is therefore required to increase benefits, effective with December 1984, for individuals entitled under section 227 or

228 of the Act, to increase primary insurance amounts of all other individuals entitled under title II of the Act, and to increase maximum benefits payable to a family. For 1984, the benefit increase is the percentage increase in the Consumer Price Index for Urban Wage Earners and Clerical Workers for the third quarter of 1984 over the index for the third quarter of 1983. Automatic benefit increases may be modified by a "stabilizer" provision under certain adverse financial conditions that are described in the section on the OASDI fund ratio. The December 1984 benefit increase is not affected by this provision.

Section 215 (i)(1) of the Act provides that the Consumer Price Index for a cost-of-living computation quarter shall be the arithmetical mean of this index for the 3 months in that quarter. The Department of Labor's revised Consumer Price Index for Urban Wage Earners and Clerical Workers for each month in the quarter ending September 30, 1983, was: for July 1983, 298.2; for August 1983, 299.5; and for September 1983, 300.8. The arithmetical mean for this calendar quarter is 299.5. The corresponding Consumer Price Index for each month in the quarter ending September 30, 1984, was for July 1984, 307.5; for August 1984, 310.3; and for September 1984, 312.1. The arithmetical mean for this calendar quarter is 310.0. Thus, because the Consumer Price Index for the calendar quarter ending September 30, 1984 exceeds that for the calendar quarter ending September 30, 1983 by 3.5 percent, a cost-of-living benefit increase of 3.5 percent is effective for benefits under title II of the Act beginning December 1984.

Title II Benefit Amounts

In accordance with section 215(i)(4) of the Act, the primary insurance amounts and the maximum family benefits shown in columns IV and V of the revised benefit table (table 1) were obtained by increasing by 3.5 percent the corrresponding amounts established by: (1) The last cost-of-living increase; (2) the extension of the benefit table made under section 215(i)(4) and published on November 1, 1983 at 48 FR 50414; and by extending the table due to the increase in the contribution and benefit base for 1985, as described below. The table applies only to those persons who attained age 62, became disabled or died before January 1979 and is deemed to appear in section 215(a) of the Act. Note that this table does not apply to those individuals who become eligible (i.e., reach age 62, or become disabled) or die after 1978; their benefits will generally be determined by a benefit formula provided by the Social Security Amendments of 1977 (Pub. L. 95-216), as described below. For persons who first become eligible for benefits or who die before age 62 in the period 1979–1984, the 3.5 percent increase will apply beginning with benefits for December 1984 and will be included in checks received in January 1985; but the 3.5 percent increase will not apply for persons who first become eligible for benefits or die after 1984.

Section 215(i)(2)(D) of the Act also requires that, when the Secretary determines an automatic increase in Social Security benefits, the Secretary shall publish in the Federal Register a revision of the range of the primary insurance amounts and corresponding maximum family benefits based on the dollar amount and other provisions described in section 215(a)(1)(C)(i). These benefits are referred to as "special minimum benefits" and are payable to certain individuals with long periods of relatively low earnings. In accordance with section 215(a)(1)(C)(i), the attached table 2 shows the revised range of primary insurance amounts and corresponding maximum family benefit amounts after the 3.5 percent benefit increase.

Section 227 of the Act as amended by section 304 of Pub. L. 98–21 provides flat-rate benefits to a worker who became age 72 before 1969 and was not insured under the usual requirements, and to his or her spouse or surviving spouse. Section 228 of the Act (also as amended by Pub. L. 98–21) provides

similar benefits at age 72 for certain uninsured persons. The current monthly benefit amount of \$129.90 for an individual under sections 227 and 228 of the Act is increased by 3.5 percent to obtain the new amount of \$134.40. The present monthly benefit amount of \$65.20 for a spouse under section 227 is increased by 3.5 percent to \$67.40.

Title XVI Benefit Amounts

In accordance with section 1617 of the Act, Federal benefit rates for the aged, blind, and disabled are increased by 3.5 percent effective January 1985. Therefore, the yearly Federal SSI rates of \$3,768.00 for an eligible individual, \$5,664.00 for an eligible individual with an eligible spouse and \$1,884.00 for an essential person, which are effective January 1984, are increased, effective with January 1985, to \$3,900.00, \$5,856.00, and \$1,956.00 respectively after rounding. The monthly payment amount is determined by dividing the yearly guarantee by 12, and subtracting monthly countable income. In the case of an eligible individual with an eligible spouse, the amount payable is further divided equally between the two spouses.

Average of the Total Wages for 1983

The determination of the average wage figure for 1983 is based on the 1982 average wage figure of \$14,531.34 announced in the Federal Register on November 1, 1983 (48 FR 50414), along with the percentage increase in average wages from 1982 to 1983 measured by annual wage data tabulated by the Internal Revenue Service (IRS). The average amounts of wages calculated directly from IRS data were \$14,923.19 and \$15,650.18 for 1982 and 1983, respectively. To determine an average wage figure for 1983 at a level that is consistent with the series of average wages for 1951–1977 (published December 29, 1978, at 43 FR 61016), we multiplied the 1982 average wage figure of \$14,531.34 by the percentage increase in average wages from 1982 to 1983 (based on IRS data) as follows (with the

result rounded to the nearest cent): Average wage for 1983=\$14,531.34 \times \$15,650.18 \div \$14,923.19=\$15,239.24. Therefore, the average wage for 1983 is determined to be \$15,239.24.

Contribution and Benefit Base

General

The contribution and benefit base is \$39,600 for remuneration paid in 1985 and self-employment income earned in taxable years beginning in 1985.

The contribution and benefit base serves two purposes:

- (1) It is the maximum annual amount of earnings on which Social Security taxes are paid.
- (2) It is the maximum annual amount used in figuring a person's Social Security benefits.

Computation

Section 230(c) of the Act provides a table with the contribution and benefit base for each year 1978, 1979, 1980, and 1981. For years after 1981, section 230(b) of the Act contains a formula for determining the contribution and benefit base. Under the prescribed formula, the contribution and benefit base for 1985 shall be equal to the 1984 base of \$37,800 multiplied by the ratio of: (1) The average amount, per employee, of total wages for the calendar year 1983 to (2) the average amount of those wages for the calendar year 1982. Section 230(b) further provides that if the amount so determined is not a multiple of \$300, it shall be rounded to the nearest multiple of \$300.

Average Wages

The average wage for calendar year 1982 was previously determined to be \$14,531.34. The average wage for calendar year 1983 has been determined to be \$15,239.24, as stated herein.

Amount

The ratio of the average wage for 1983, \$15,239.24, compared to that for 1982, \$14,531.34, is 1.0487154. Multiplying the 1984 contribution and benefit base of \$37,800 by the ratio 1.0487154 produces

the amount of \$39,641.44 which must then be rounded to \$39,600. Accordingly, the contribution and benefit based is determined to be \$39,600 for 1985.

Quarter of Coverage Amount

General

The 1985 amount of earnings required for a quarter of coverage is \$410. A quarter of coverage is the basic unit for determining whether a worker is insured under the Social Security program. For years before 1978, an individual generally was credited with a quarter of coverage for each quarter in which wages of \$50 or more were paid, or for which \$100 or more of self-employment income were credited, to the individual. Beginning in 1978, wages generally are no longer reported on a quarterly basis; instead, annual reports are made. With the change to annual reporting, section 352(b) of the Social Security Amendments of 1977 (Pub. L. 95-216) amended section 213(d) of the Act to provide that a quarter of coverage would be credited for each \$250 of an individual's total wages and selfemployment income for calendar year 1978 (up to a maximum of 4 quarters of coverage for the year). Section 213(d) also provides that this amount shall be redetermined each year and any change published in the Federal Register no later than November 1 of the year preceding the year for which the change is effective.

Computation

Under the prescribed formula, the quarter of coverage amount for 1985 shall be equal to the 1978 amount of \$250 multiplied by the ratio of: (1) The average amount, per employee, of total wages for calendar year 1983 to (2) the average amount of those wages reported for calendar year 1976. The section further provides that if the amount so determined is not a multiple of \$10, it shall be founded to the nearest multiple of \$10.

Average Wages

The average wage for calendar year 1976 was previously determined to be

\$9,226.48. This was published in the Federal Register on December 29, 1978, at 43 FR 61016. The average wage for calendar year 1983 has been determined to be \$15,239.24 as stated herein.

Quarter of Coverage Amount

The ratio of the average wage for 1983, \$15,239.24, compared to that for 1976, \$9,226.48 is 1.651685. Multiplying the 1978 quarter of coverage amount of \$250 by the ratio of 1.651685 produces the amount of \$412.92 which must then be rounded to \$410. Accordingly, the quarter of coverage amount is determined to be \$410 for 1985.

Retirement Earnings Test Exempt Amounts

(a) Beneficiaries Aged 70 or Over

Beginning with months after
December 1982, there is no limit on the
amount an individual aged 70 or over
may earn and still receive Social
Security benefits. The age at which the
retirement test ceases to apply is
reduced from age 72 to age 70 by Pub. L.
97–35, which amended section 203(c)(1)
of the Act.

(b) Beneficiaries Aged 65 through 69.—The retirement earnings test monthly exempt amount for beneficiaries aged 65 through 69 is stated in the Act at section 203(f)(8)(D) for years 1978 through 1982. A formula is provided in section 203(f)(8)(B) for computing the exempt amount applicable for years after 1982. The monthly exempt amount for 1984 was determined by this formula to be \$580. Under the formula, the exempt amount for 1985 shall be the 1984 exempt amount multiplied by the ratio of: (1) The average amount, per employee, of the total wages for calendar year 1983 to (2) the average amount of those wages for calendar year 1982. This section further provides that if the amount so determined is not a multiple of \$10, it shall be rounded to the nearest multiple of \$10.

Average Wages

Average wages for this purpose are

determined in the same way as for the contribution and benefit base. Therefore, the ratio of the average wages for 1983, \$15,239.24 compared to that for 1982, \$14,531.34, is 1.0487154.

Exempt Amount for Beneficiaries Aged 65 Through 69

Multiplying the 1984 retirement earnings test monthly exempt amount of \$580 by the ratio of 1.0487154 produces the amount of \$608.25. This must then be rounded to \$610. The retirement earnings test monthly exempt amount for beneficiaries aged 65 through 69 is determined to be \$610 for 1985. The corresponding retirement earnings test annual exempt amount for these beneficiaries is \$7,320.

(c) Beneficiaries Under Age 65

Section 203 of the Act provides that beneficiaries under age 65 have a lower retirement earnings test monthly exempt amount that those beneficiaries aged 65 through 69. The exempt amount for beneficiaries under age 65 is determined by a formula provided in section 203(f)(8)(B) of the Act. Under the formula, the monthly exempt amount for beneficiaries under age 65 is \$430 for 1984. The formula provides that the exempt amount for 1985 shall be the 1984 exempt amount for beneficiaries under age 65 multiplied by the ratio of (1) the average amount, per employee, of the total wages for calendar year 1983 to (2) the average amount of those wages for calendar year 1982. The section further provides that if the amount so determined is not a multiple of \$10, it shall be rounded to the nearest multiple of \$10.

Average Wages

Average wages for this purpose are determined in the same way as for the contribution and benefit base. Therefore, the ratio of the average wages for 1983, \$15,239.24, compared to that of 1982, \$14,531.34, is 1.0487154.

Exempt Amount for Beneficiaries Under Age 65.

Multiplying the 1984 retirement

earnings test monthly exempt amount of \$430 by the ratio 1.0487154 produces the amount of \$450.95. This must then be rounded to \$450. The retirement earnings test monthly exempt amount for beneficiaries under age 65 is determined to be \$450 for 1985. The corresponding retirement earnings test annual exempt amount for these beneficiaries is \$5,400.

Computing Benefits After 1978

The Social Security Amendments of 1977 changed the formula for determining an individual's primary insurance amount after 1978. This basic new formula is based on "wage indexing" and was fully explained with interim regulations and final regulations published in the Federal Register on December 29, 1978 (43 FR 60877) and July 15, 1982 (47 FR 30731) respectively. It generally applies when a worker after 1978 attains age 62, becomes disabled, or dies before age 62. This formula uses the worker's earnings after they have been adjusted, or "indexed," in proportion to the increase in average wages of all workers. Using this method, we determines the worker's "average indexed monthly earnings." We then compute the primary insurance amount, using the worker's "average indexed monthly earnings." The computation formula is adjusted automatically each year to reflect changes in general wage levels.

Average Indexed Monthly Earnings

To assure that a worker's future benefits reflect the general rise in the standard of living that occurs during his or her working lifetime, we adjust or "index" the worker's past earnings to take into account the change in general wage levels that has occurred during the worker's years of employment. These adjusted earnings are then used to compute the worker's primary insurance amount.

For example, to compute the average indexed monthly earnings for a worker attaining age 62, becoming disabled, or dying before attaining age 62, in 1985,

we divide the average of the total wages for 1983, \$15,239.24, by the average of the total wages for each year prior to 1983 in which the worker had earnings. We then multiply the actual wages and self-employment income as defined in section 211(b) of the Act credited for each year by the corresponding ratio to obtain the worker's adjusted earnings for each year. After determining the number of years we must use to compute the primary insurance amount, we pick those years with highest indexed earnings, total those indexed earnings and divide by the total number of months in those years. This figure is rounded down to the next lower dollar amount, and becomes the average indexed monthly earnings figure to be used in computing the worker's primary insurance amount for 1985.

Computing the Primary Insurance Amount

The primary insurance amount is the sum of three separate percentages of portions of the average indexed monthly earnings. In 1979 (the first year the formula was in effect), these portions were the first \$180, the amount between \$180 and \$1,085, and the amount over \$1,085. The amounts for 1985 are obtained by multiplying the 1979 amounts by the ratio between the average of the total wages for 1983, \$15,239.24, and for 1977, \$9,779.44. These results are then rounded to the nearest dollar. For 1985, the ratio is 1.558294. Multiplying the 1979 amounts of \$180 and \$1,085 by 1.558294 produces the amounts of \$280.49 and \$1,690.75. These must then be rounded to \$280 and \$1.691. Accordingly, the portions of the average indexed monthly earnings to be used in 1985 are determined to be the first \$280. the amount between \$280 and \$1,691, and the amount over \$1,691.

Consequently, for individuals who first become eligible for old-age insurance benefits or disability insurance benefits in 1985, or who die in 1985 before becoming eligible for benefits, we will compute their primary insurance amount by adding the following:

- (a) 90 percent of the first \$280 of their average indexed monthly earnings, plus
- (b) 32 percent of the average indexed monthly earnings over \$280 and through \$1,691, plus
- (c) 15 percent of the average indexed monthly earnings over \$1,691.

This amount is then rounded to the next lower multiple of \$.10 if it is not already a multiple of \$.10. This formula and the adjustments we have described are contained in section 215(a) of the Act (42 U.S.C. 415(a)) as amended by Pub. L. 97–35.

Maximum Benefits Payable to a Family

The 1977 Amendments continued the long established policy of limiting the total monthly benefits which a worker's family may receive based on his or her primary insurance amount. Those amendments also continued the then existing relationship between maximum family benefits and primary insurance amounts but did change the method of computing the maximum amount of benefits which may be paid to a worker's family. The 1980 Amendments (Pub. L. 96–265) established a new formula for computing the maximum benefits payable to the family of a disabled worker. This new formula is applied to the family benefits of workers who first become entitled to disability insurance benefits after June 30, 1980, and who first become eligible for these benefits after 1978. The new formula was explained in a Final Rule published in the Federal Register on May 8, 1981, at 46 FR 25601. For disabled workers initially entitled to disability benefits before July 1980, or whose disability began before 1979, the family maximum payable is computed the same as the old-age and survivor family maximum.

Computing the Old-Age and Survivor Family Maximum

The formula used to compute the family maximum is similar to that used to compute the primary insurance amount. It involves computing the sum of four separate percentages of portions of the worker's primary insurance amount. In 1979, these portions were the

first \$230, the amount between \$230 and \$332, the amount between \$332 and \$433, and the amount over \$433. The amounts for 1985 are obtained by multiplying the 1979 amounts by the ratio between the average of the total wages for 1983, \$15,239.24, and the average for 1977, \$9,779.44. This amount is then rounded to the nearest dollar. For 1985, the ratio is 1.558294. Multiplying the amounts of \$230, \$332, and \$433 by 1.558294 produces the amounts of \$358.41, \$517.35, and \$674.74. These amounts are then rounded to \$358, \$517, and \$675. Accordingly, the portions of the primary insurance amounts to be used in 1985 are determined to be the first \$358, the amount between \$358 and \$517, the amount between \$517 and \$675 and the amount over \$675.

Consequently, for the family of a worker who becomes age 62 or dies in 1985, the total amount of benefits payable to them will be computed so that it does not exceed:

- (a) 150 percent of the first \$358 of the worker's primary insurance amount, plus
- (b) 272 percent of the worker's primary insurance amount over \$358 through \$517, plus
- (c) 134 percent of the worker's primary insurance amount over \$517 through \$675, plus
- (d) 175 percent of the worker's primary insurance amount over \$675.

This amount is then rounded to the next lower multiple of \$.10 if it is not already a multiple of \$.10. This formula and the adjustments we have described are contained in section 203(a) of the Act (42 U.S.C. 403(a)) as amended by Pub. L. 97–35.

Extension of Benefit Table Effective January 1985

Table 1 includes an extension of the Table for Determining Primary Insurance Amount and Maximum Family Benefits provided in section 215(a)(5) of the Act. This extension reflects the higher average monthly wage and related benefit amounts now possible under the increased

contribution and benefit base published by this Notice effective January 1985 in accordance with section 215(i) of the Act. Table 1 will apply primarily to benefits based on earnings of workers who reached age 62 before 1979.

OASDI Fund Ratio

General

Section 215(i) of the Act was amended by section 112 of Pub. L. 98-21, the Social Security Amendments of 1983, to include a "stabilizer" provision that modifies the automatic OASDI benefit increase under certain circumstances. If the combined assets of the OASI and DI Trust Funds, as a percentage of annual expenditures, are below a specified level, automatic benefit increases are limited to the lesser of the increases in wages or prices. The minimum level specified for the OASDI fund ratio is 15.0 percent for benefit increases for December of 1984 through December 1988, and 20.0 percent thereafter. The amendments also provide for subsequent "catch-up" benefit increases for beneficiaries whose previous benefit increases were affected by this provision. "Catch-up" benefit increases occur only when trust fund assets exceed 32.0 percent of annual expenditures.

Computation

The 1983 Amendments specify the computation and application of the OASDI fund ratio beginning with the

December 1984 benefit increase. The OASDI fund ratio for 1984 is defined as the ratio of (1) the estimated combined assets of the OASI and DI Trust Funds at the end of 1984 (not excluding amounts owed to the Hospital Insurance (HI) Trust Fund), plus advance tax transfers for January 1985, to (2) the estimated expenditures of the OASI and DI Trust Funds during 1984, excluding payments of interest and principal to the HI Trust Fund and transfer payments between the OASI and DI Trust Funds, and reducing any transfers to the Railroad Retirement Account by any transfers from that account into either trust fund.

Ratio

The combined assets of the OASI and DI Trust Funds at the end of 1984 (including amounts owed to the HI Trust Fund and advance tax transfers for January 1985) are estimated to be \$45,245 million, and the expenditures are estimated to be \$180,875 million. Thus, the OASDI fund ratio for 1984 is 25.0 percent, which exceeds the applicable threshold of 15.0 percent. As a result, the "stabilizer" provision is not effective for December 1984.

(Catalog of Federal Domestic Assistance Programs Nos. 13.802–13.805, and 13,807 Social Security Programs.)

Dated: October 29, 1984.

Margaret M. Heckler,

Secretary of Health and Human Services.

BILLING CODE 4190-11-M

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984

I (primary insurance benefit under 1939 act, as modified)—if an individual's primary insurance benefit (as determined under sub- sec. (d)) is—		II (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter-	surance amount flective for Dec. 1983)—or his average monthly wage (as determined under sub- sec. (b)) is-		IV (primary insurance amount)—the amount referred to in the preced- ing paragraphs of	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis of his wages and
At least—	But not more than-	mined under sub-	At '	But not more than-	ing paragraphs of this subsection shall be—	self-employment income shall be-
	16.20	189.30 192.30		76 78	195.90 199.00	293.90 298.50
16.21	16.84 17.60	192.30 196.60	77 79	60	203.60	305.50
16.85 17.61	18.40	200.20	81	81	207.20	311.10
18.41	19.24	203.70	62	83	210.60 215.30	316.5 323.3
19.25	20.00 20.84	208.10 212.10	84 86	85 87	219.50	329.3
20.01 20.65	21.28	215.30	88	89	222.80	334.4
21.29	21.86	219.70	90	90 92	227.30 231.20	341.1 347.0
21.89	22.28 22.68	223.40 227.00	91 93	92 94	234.90	352.5
22.29 22.69	23.08	230.80	95	96	238.60	358.4
23.09	23.44	234.90	97	97 99	243.10 247.10	364.8 370.8
23.45	23.76 24.20	238.80 243.50	98 100	101	252.00	378.0
23.77 24.21	24.20 24.80	243.50 248.80	102	102	255.40	383.3
24.61	25.00	250.90	103	104 108	259.60 264.50	389.5 396.9
25.01	25.48	255.80 259.80	105 107	108 107	268.60	403.4
25.49 25.93	25.92 26.40	263.80 263.80	108	109	273.00 277.20	409.5
26.41	26.94	287.90	110	113	277.20 281.10	415.9 421.0
26.95	27.46	271.80 275.80	114 119	118 122	285.40	428.
27.47 26.01	28.00 28.68	280.10	123	127	289.90	435.0
28.69	29.25	284.30	128	132	294.20 298.10	441.: 447
29.26	29.68	268.10 292.00	133 137	136 141	302.20	453.
29.69 30.37	30.36 30.92	296.30	142	146	306.80	459.
30.93	31,36	300.70	147	150 155	311.20 314.70	466. 472.
31.37	32.00		151 156	160	319.40	479.
32.01 32.61	32.80 33.20	312.70	161	164	323.60	485.
33.21	33.88	316.80	165	169 174	327.60 332.10	491. 498.
33.89	34.50 35.00		170 175	178	336.10	504.
34.51 35.01	35. 6 0	329.20	179	183	340.70	511. 517.
35.81	36.40	333.00	184 189	188 193	344.60 349.20	524.
36.41 37.09	37.08 37.80	341.50	194	197	353.40	53 0.
37.61	38.20	345.50	198	202	357.50	536. 543.
36.21	39.12	350.10	203 208	207 211	362.30 366.30	549.
39.13 39.69	39.68 40.33	354.00 357.20	212	216	369.70	554
40.34	41.12	361.80	217	221	374.40	
41.13	41.76		222 226	225 230		
41.77	42.44 43.20	370.40 374.40	220	235	387.50	581
42.45 43.21	43.76	379.00	236	239	392.20	
43.77	44.44	382.50	240 245	244 249		608
44.45 44.89	44.88 45.80		250	253	404.70	618
44.08	45.60	394.80	254	258		
		398.30 403.30	259 264			652
		403.30 406.90	268	272	421.10	664
		411.40	273	277	425.70 429.80	
		415.30 419.40	278 282		434.00	698
		419.40 423.90	287	291	438.70	711
		427.30	292			720 732
		432.00 436.00		305	5 451.20) 745
		439.70	306	309	455.00	755
		444.20	310		459.70 463.40	
		447.80 451.90	315 320) 32:	467.70	789
		456.20	324	321	3 472.10) 801
		460.00			3 476.10 7 481.10	
		464.90 468.10	338	34	2 484.40	839
		472.50	343	3 34	7 489.00	
		477.00 480.50	348	3 35 2 35		

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

	DENETITS BEGINNING DECEMBER 1984 (Cont.)					
benefit u as mod individe insurand determinased	ary insurance under 1939 act, diffied)—If an ual's primary ce benefit (as ned under sub-c. (d)) is— But not more	II (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter- mined under sub-	wage)—o monthly determine	age monthly r his average y wage (as d under sub- (b)) is-	IV (primary insurance amount)—the amount referred to in the preced- ing paragraphs of this subsection	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis of his wages and self-employment
least	than-	sec.(c)) is—	least—	than—	shall be—	income shall be—
		485.30	357	361	502.20	882.10
		489.00	362	365	506.10	891.60
		492.60	366	370	510.00	904.00
		497.30 501.40	371 376	375 379	514.70 518.90	915.90
		505.70	360	384	523.30	926.10 938.40
		509.40	385	389	527. 2 0	950.40
		513.30 517.90	390 394	393 398	531.20 536.00	960.00
		521.60	399	403	540.00	972.50 984.60
		526.20	404	407	544.60	994.20
		529.60 533.50	408 413	412	548.30	1006.60
		537.20	418	417 421	552.10 556.00	1018.60 1028.40
		541.60	422	426	560.50	1040.70
		545.30 548.60	427	431	564.30	1052.90
		548.60 553.20	432 437	436 440	567.60 572.50	1065.20
		556.60	441	445	572.50 576.00	1069.90 1076.40
		560.40	446	450	580.00	1082.20
		564.40 568.30	451 455	454	564.10	1086.90
		571.90	460	459 4 6 4	588.10 591.90	1093.00 1098.90
		575.50	465	468	595.60	1104.20
		580.10	469	473	600.40	1110.10
		583.30 587.00	474 479	478 482	603.70 607.50	1116.30
		591.10	483	487	611.70	1121.30 1127.60
		595.10	488	492	615.90	1133.70
		598.60 602.90	493 497	496	819.50	1138.60
		606.40	502	501 506	624.00 627.60	1144.30 1150.40
		610.10	507	510	631.40	1155.40
		613.90 618.20	511	515	635.30	1161.50
		621.70	516 521	520 524	639.60	1167.90
		625.30	525	529	643.40 647.10	1172.50 1178.70
		829.90	530	534	651.90	1184.70
		633.10 637.10	535 539	538	655.20	1189.60
		640.90	544	543 548	659.30 663.30	1195.60
		645.00	549	553	667.50	1201.90 1208.00
		648.50 651.60	554 557	556	671.10	1211.50
		655.20	561	560 563	674.40 678.10	1216.50
		656.50	564	567	681.50	1220.20 1225.20
		662.50	568	570	685.60	1228.60
		665.60 668.90	571 575	574 577	688.60	1233.50
		672.00	578	581	692.30 695.50	1237.50 1242.00
		675.50	582	564	699.10	1242.00
		678.40 682.50	585 589	588 501	702.10 706.30	1250.70
		685.80	592	591 595	706.30 709.80	1254.30 1259.20
		889.20	596	598	713.30	1259.20
		692.60 895.90	599 603	602	716.80	1267.90
		699.20	606	605 609	720.20 723.80	1271.40
		702.80	610	612	723.60 727.30	1276.00 1280.00
		706.10	613	816	730.60	1284.80
		709.40 713.00	617 621	620 623	734.20 737.00	1289.60
		716.10	624	827	737.90 741.10	1293.30 1298.40
		719.70	628	630	744.60	1302.90
		723.00 7 26 .50	631 835	634	748.30	1309.30
		730.00	838	637 641	751.90 755.50	1315.40
		733.20	642	644	758.80 758.80	1321.70 1327.80
			OAE	648		1004.00
		738.70	645		762.40	1334.00
		739.90	649	652	765.70	1339.90
		738.70 739.90 742.10 744.20 748.60	649 653 857 661		765.70 768.00 770.20	1334.00 1339.90 1343.80 1347.40

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

penefit ur as mod individu insuranc determin sec.	ry insurance nder 1939 act, iffied)—if an ual's primary se benefit (as ed under sub- (d)) is— But not more	II (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter- mined under sub-	wage)—or monthly determine	ge monthly his average wage (as d under sub- (b)) is- But not more than—	IV (primary insurance amount)—the amount referred to in the preceding paragraphs of this subsection shall be—	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis of his wages and self-employment income shall be—
least—	than-	sec.(c)) is— 749.40	666	670	775.80	1357.40
		752.20	671	675	778.50	1361.80 1366.60
		755.00	878 681	680 685	781.40 784.00	1371.80
		757.50 780.50	666	690	787.10	1376.20
		782.80	691	695 700	789.40 792.00	1381.80 1386.10
		785.30 768.20	696 701	700 705	795.00	1391.00
		770.90	706	710	797.80 800.80	1396.00 1400.50
		773.80	711 716	715 7 2 0	803.40	1405.80
		778.30 779.00	721	725	806.20	1410.30
		781.80	726	730 735	809.10 811.80	1415.40 1420.30
		784.40 787.20	731 736	740	814.70	1424.90
		789.70	741	745	817.30 819.70	1430.10 1434.50
		792.00 794.70	746 751	750 755	822.50	1439.00
		797.00	756	780	824.80	1442.80 1447.00
		799.30	761	765 770	827.20 829.10	1451.20
		801.10 803.80	768 771	775	831.70	1455.00
		805.80	778	780	834.00 838.40	1459.00 1463.10
		808.20	781 786	785 790	838.40	1467.10
		810.10 612.30	791	795	840.70	1471.10
		814.70	796	800 805	843.20 845.50	1475.20 1479.40
		817.00 819.30	801 806	810	847.90	1483.30
		821.40	811	815	850.10	1487.80 1491.40
		823.70	818 821	820 825	852.50 854.80	1495.80
		825.90 828.20	826	830	857.10	1499.50
		830.30	831	835	859.30 861.60	1503.80 1507.50
		832.50 834.80	836 841	840 845	864.00	1512.0
		836.90	846	850	666.10	1515.5 1519.8
		839.30	851		666.60 870.90	1523.8
		841.50 843.70	856 861	865	873.20	1527.9
		848.10	866	870	875.70 877.80	1532.0 1536.0
		848.20 850.40	871 878		860.10	1539.9
		852.70	881	685	882.50	1544.2
		854.80	866		884.70 886.90	1547.9 1552.6
		857.00 859.30	891 896		889.30	1556.1
		881.70	901	905	891.80	
		863.90 886.10	906 911			1568.5
		868.80	916	920	899.00	1572.2
		870.50	921	925		
		872.60 874.80	926 93		905.40	1584.5
		877.20	930	940		
		879.40 881.80		945	910.10 912.40	1596.6
		884.00	95	955	914.90) 1600.9
		866.50	950		917.50 919.80	
		888.70 890.40		B 970	921.50	1613.0
		892.70	97	975	923.90	1617.1 1620.9
•		894.90 897.50			928.90	1624.9
		897.50 899.50	98	6 990	930.90) 1829.0
		901.70	99	1 99:) 1633.2) 1637.0
		904.10 906.20	99		5 937.90	1640.
		907.70) 100	6 101	939.4	D 1644.
		040.00) 101	1 101	5 941.80	, 1047.
		910.00 912.20				o 1651.i

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY
BENEFITS BEGINNING DECEMBER 1984 (Cont.)

insurance benefit (as determined under sub- sec. (d)) is— P		II (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter-	monthly wage (as determined under sub-		IV (primary insurance amount)—the amount referred to in the preced-	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis
At least—	But not more than—	mined under sub- sec.(c)) is—	At least—	But not more than—	ing paragraphs of this subsection shall be—	of his wages and self-employment income shall be-
		918.10 920.00	1031 1036	1035	950.20	1662.60
		922.00	1041	1040 1045	952.20 954.20	1666.10 1670.00
		924.30 925.90	1046 1051	1050	956.60	1673.40
		927.90	1056	1055 1060	958.30 960.30	1676.70
		930.20 932.20	1061	1065	962.70	1680.90 1684.30
		934.10	1066 1071	1070 1075	964.80 966.70	1688.00
		936.10	1078	1080	968.80	1691.80 1695.30
		938.30 940.00	1081 1086	1085	971.10	1698.90
		942.20	1091	1090 1095	972.90 975.10	1702.50
		944.40	1096	1100	977.40	1706.30 1710.10
		948.00 948.20	1101 1106	1105 1110	979.10	1713.40
		950.30	1111	1115	981.30 983.50	1717.20 1720.60
		952.20 954.30	1116 1121	1120 1125	985.50	1724.60
		958.20	1126	1130	987.70 989.60	1728.00
		956.20	1131	1135	991.70	1731.70 1735.10
		960.30 962.50	1136 1141	1140 1145	993.90	1739.20
		964.50	1146	1150	996.10 998.20	1742.80 1746.30
		966.10 968.40	1151 1156	1155	999.90	1749.70
		970.50	1161	1160 1165	1002.20 1004.40	1753.40 1757.30
		972.40 974.50	1166	1170	1006.40	1757.30 1781.00
		974.50 976.40	1171 1176	1175 1160	1008.60 1010.50	1764.60
		978.10	1181	1185	1012.30	1768.20 1771.40
		980.10 981.80	1186 1191	1190 1195	1014.40	1774.70
		983.70	1196	1200	1016.10 1018.10	1778.30 1781.70
		985.70 987.50	1201 1206	1205	1020.10	1784.90
		989.30	1211	1210 1215	1022.00 1023.90	1788.50
		991.20 993.10	1216 1221	1220	1025.80	1791.70 1795.10
		995.10	1221	1225 1230	1027.80	1798.30
		996.80	1231 1238	1235	1029.90 1031.60	1801.90 1805.10
		998.50 1000.60	1238 1241	1240	1033.40	1808.60
		1002.50 1004.20	1246	1245 1250	1035.60 1037.50	1812.10
		1004.20 1006.10	1251 1256	1255	1039.30	1815.40 1818.70
		1008.10	1261	1260 1265	1041.30 1043.30	1822.20
		1009.90 1011.60	1266	1270	1045,20	1825.60 1828.90
		1013.50	1271 1276	1275 1280	1047.00	1832.00
		1015.10	1281	1285	1048.90 1050.60	1835.60 1838.60
		1017.00 1018.90	1286 1291	1290 1295	1052.50	1841.80 1844.90
		1020.50	1296	1300	1054.50 1056.20	1844.90 1848.10
		1022.20 1023.90	1301 1306	1305	1057.90	1851.30
		1025.70	1311	1310 1315	1059.70 1061.50	1854.50
		1027.70 1029.30	1316	1320	1063 60	1857.60 1861.00
		1031.10	1321 1326	1325 1330	1065.30	1863.90
		1032.70	1331	1335	1067.10 1068.80	1867.40 1870.50
		1034.50 1038.30	1336 1341	1340 1345	1070.70	1873.70
		1038.00	1346	1350	1072.50 1074.30	1876.80 1879.90
		1039.80 1041.50	1351 1356	1355	1076.10 1077.90	1883.00
		1043.40	1356 1361	1360 1365	1077.90	1886.20
		1044.90	1366	1370	1079.90 1081.40	1889.30 1892.60
		1046.70 1048.60	1371 1378	1375 1380	1083.30	1895.70
		1050.10 1051.80	1381	1385	1085.30 1086.80	1898.90 1901.80
		1051.80	1388	1390	1088.60	1901.80

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

		BENEFITS BEG	IMMING L	PECEMIDEN 1		
benefit ui as mod individu insurand determin sec	ury insurance nder 1939 act, dified)—if an ual's primary ce benefit (as sed under sub- (d)) is—	II (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter- mined under sub-	wage)or monthly determine	ge monthly r his average r wage (as d under sub- (b)) is-	IV (primary insurance amount)—the amount referred to in the preced- ing paragraphs of this subsection	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis of his wages and self-employment
At least—	than	sec.(c)) is—	least—	than-	shall be-	income shall be-
		1054.90	1396	1400	1091.80	1910.90
		10 56 .70	1401	1405	1093.80	1913.70 1916.80
		1058.20	1406	1410 1415	1095.20 1096.90	1919.80
		1059.90 1061.50	1411 1416	1420	1098.80	1922.90
		1063.20	1421	1425	1100.40	1925.90
		1064.80	1426	1430	1102.00 1104.00	1928.90 1931.80
		1066.70 1068.40	1431 1436	1435 1440	1105.70	1934.80
		1069.90	1441	1445	1107.30	1937.70
		1071.70	1446	1450	1109.20 1110.70	1941.0 1943.8
		1073.20	1451 14 5 8	1455 1480	1110.70	1946.9
		1074.80 1076.80	1456	1465	1114.20	1949.8
		1078.10	1466	1470	1115.80	1952.8
		1079.80	1471	1475	1117.50	1955.8 1958.5
		1081.30	1476 1481	1480 1485	1119.10 1121.00	1961.5
		1063.10 1084.50	1481	1490	1122.40	1964.1
		1066.20	1491	1495	1124.20	1967.1 1969.9
		1087.80	1496	1500	1125.60 1127.30	1972.9
		1089.20 1090.70	1501 1506	1505 1510	1128.80	1975.4
		1092.30	1511	1515	1130.50	1978.2
		1093.90	1516	1520	1132.10 1133.70	1961.1 1964.
		1095.40	1521 1526	1525 1530	1135.20	1986.8
		1096.90 1098.50	1531	1535	1136.90	1989.5
		1100.10	1536	1540	1138.60	1992.4 1995.2
		1101.80	1541	1545	1140.10 1141.80	1997.5
		1103.20 1104.80	1546 1551	1550 1555	1143.40	2000.0
		1106.30	1556	1560	1145.00	2003.0
		1107.80	1561	1565	1146.50	2006. [§] 2009.
		1109.40	1566	1570 1575	1148.20 1149.70	2012.
		1110.90 1112.40	1571 1576		1151.30	2014.
		1114.00	1581	1585	1152.90	2017.
		1115.60	1588		1154.60 1156.10	2020. 2023.
		1117.10	1591 1596	1595 1600	1157.80	2026.
		1118.70 1120.20	1601	1605	1159.40	2029.
		1121.80	1606	1610	1161.00	2031. 2034.
		1123.20	1611		1162.50 1164.20	2034.
		1124.90 1126.40	1616 1621			2040.
		1128.10	1626	1630	1167.50	2042.
		1129.70	1631			2045. 2048.
		1131.10 1132.80	1636 1641	5 1640 1 1645		2051.
		1132.80	1646	1650	1174.00	2054
		1135.90	1651	1655	1175.60	2057 2059
		1137.40	1656 166	1660 1 1665		
		1138.90 1140.50	1666		1180.40	2065
		1142.00	167	1 1675	1181.90	
		1143.80	1670	6 1680 1 1685		
		1145.20 1146.70	168 168	1 1683 6 1690	1186.80	2076
		1148.30	169	1 1895	1188.40	2079
		1149.60	169	6 1700		
		1151.30 1152.70	170 170	1 1705 6 1710	1193.00	2088
		1152.70	171	1 1715	1194.70) 2090
		1155.80	171	6 1720	1196.20	2093 2096
		1157.40	172 172	1 1725 6 1730	5 1197.90 0 1199.50	2099
		1159.00 1180.50	172	1 1739	1201.10	2102
		1,00.50			n 1202.80	2104
		1162.20				
		1163.60	174	1 1749	5 1204.3	n 2110
) 174) 174	1 1749 6 1750	5 1204.30 0 1205.90	2110

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

benefit under 1939 act, as modified)—if an individual's primary insurance benefit (as determined under sub- sec. (d)) is—		il (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter-	wage)—c monthi determina	age monthly or his average y wage (as ed under sub- . (b)) is-	IV (primary insurance amount)—the amount referred to in the preced-	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis
At least—	But not more than	mined under sub- sec.(c)) is—	At least—	But not more than—	ing paragraphs of this subsection shall be—	of his wages and self-employment income shall be-
		1169.90 1171.40	1761 1766	1765	1210.60	2119.
		1171.40	1771	1770 1775	1212.30 1213.90	2121.
		1174.50	1776	1780	1215.60	2124. 2127.
		1176.00 1177.70	1781 1786	1765	1217.10	2130.4
		1179.20	1791	1790 1795	1218.90 1220.40	2132.0 2135.
		1180.80	1796	1800	1222.10	2138.0
		1182.30 1183.90	1801 1806	1805 1810	1223.60	2141.
		1185.40	1811	1815	1225.30 1226.80	2144.; 2147.
		1187.00	1816	1820	1228.50	2149.1
		1188.40 1190.10	1821 1826	1825 1830	1229.90 1231.70	2152.8
		1191.60	1831	1835	1231.70	2155.; 2158.;
		1193.20 1194.80	1836	1840	1234.90	2181.
		1196,20	1841 1846	1845 1850	1236.60 1238.00	2164.
		1197.90	1851	1855	1239.80	2166.9 2169.9
		1199.30 1201.00	1856 1861	1860 1865	1241.20	2172.
		1202.50	1866	1870	1243.00 1244.50	2175.: 2177.:
-		1204.00	1871	1875	1246.10	2180.
		1205.80 1207.10	1876 1881	1880	1247.70	2183.0
		1208.70	1886	1865 1890	1249.30 1251.00	2186.9 2189.2
		1210.20	1891	1895	1252.50	2192.
		1211.80 1213.40	1896 1901	1900 1905	1254.20	2194.1 2197.1
		1214.80	1906	1910	1255,80 1257,30	2197.i 2200.
		1216.40	1911	1915	1258.90	2203.
		1217.70 1219.10	1916 1921	1920 1925	1260.30 1261.70	2205.1
		1220.50	1926	1930	1263.20	2208.: 2210.:
		1222.00 1223.40	1931 1936	1935	1264.70	2213.
		1224.80	1941	1940 1945	1266.20 1267.60	2216. 2218.
		1226.30 1227.70	1946	1950	1269.20	2216.
		1227.70 1229.00	1951 1958	1955 1960	1270.80	2223.
		1230.50	1961	1965	1272.00 1273.50	2226.: 2228.:
		1231.90	1966	1970	1275.00	2231.4
		1233.40 1234.60	1971 1976	1975 1980	1276.50	2233.7
		1236.30	1981	1985	1277.80 1279.50	2236.4 2239.0
		1237.50	1986	1990	1280.80	2241.6
		1238.80 1240.30	1991 1996	1995 2000	1282.10	2244.0
		1241.70	2001	2005	1283.70 1285.10	2246.7 2249.1
		1243.20 1244.50	2006 2011	2010	1286.70	2251.6
		1246.10	2016	2015 2020	1288.00 1289.70	2254.3 2256.9
		1247.40	2021	2025	1291.00	2256.9 2259.5
		1248.80 1250.20	2026 2031	2030 2035	1292.50	2262.1
		1251.70	2036	2035	1293.90 1295.50	2264.4 2267.1
		1253.10	2041	2045	1296.90	2269.5
		1254.50 1256.00	2046 2051	2050 2055	1298.40	2272.3
		1257.40	2056	2060	1299.90 1301.40	2274.8 2277.4
		1258.60	2061	2065	1302.60	2279.7
		1260.10 1261.50	2066 2071	2070 2075	1304.20 1305.60	2282.5
		1263.00	2076	2080	1307.20	2264.9 2287.6
		1264.30 1265.80	2081 2086	2085	1308.50	2290.1
		1267.20	2091	2090 2095	1310.10 1311.50	2292.8
		1268.50	2096	2100	1312.80	2295.2 2297.9
		1270.00 1271.40	2101 2106	2105	1314.40	2300.2
		1272.90	2111	2110 2115	1315.80 1317.40	2303.0 2305.4
		1274.20 1275.70	2116 2121	2120 2125	1318.70 1320.30	2305.4 2308.1

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

I (primary insurance benefit under 1939 act, as modified)—if an individual's primary insurance benefit (as determined under sub- sec. (d)) is—		II (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter-	wage)—or monthly determine	ge monthly his average wage (as d under sub- (b)) is-	IV (primary insurance amount)—the amount referred to in the preced- ing paragraphs of	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis of his wages and
At least—	But not more than—		At least—	But not more than-	this subsection shall be	self-employment income shall be—
		1277.10	2126	2130	1321.70	2313.2
		1278.60 1279.90	2131 2136	2135 2140	1323.30 1324.80	2315.7 2318.4
		1281.20	2141	2145	1326.00	2320.7
		1282.80 1284.10	2146 2151	2150 2155	1327.80 1329.00	2323.5 2325.6
		1285.50	2156	2160	1330.40	2328.
		1286.90 1288.10	2161 2186	21 6 5 2170	1331.90 1333.10	2330.1 2333.1
		1289.40	2171	2175	1334.50	2335.
		1290.60	2176	2180 2185	1335.70 1337.00	2337. 2339.
		1291.80 1293.00	2181 2186	2190	1338.20	2342.
		1294.20	2191	2195	1339.40 1340.80	2344. 2346.
		1295.50 1296.70	2196 2201	2200 2205	1342.00	2348.
		1298.00	2206	2210	1343.40	2351. 2353.
		1299.20 1300.40	2211 2216	2215 2220	1344.60 1345.90	2355. 2355.
		1301.70	2221	2225	1347.20	2357.
		1302.90 1304.20	2226 2231	2230 2235	1348.50 1349.80	2360. 2362.
		1305.40	2236	2240	1351.00	2364.
		1306.50	2241 2246	2245 2250	1352.20 1353.60	2366 2368
		1307.90 1309.10	2251	2255	1354.90	2371
		1310.40	2256	2260	1356.20 1357.50	2373 2375
		1311.80 1312.80	2261 2266	2265 2270	1358.70	2377
		1314.00	2271	2275	1359.90	2380 2382
		1315.20 1316.50	2276 2281	2280 2285	1361.20 1362.50	2384
		1317.80	2286	2290	1363.90	2386 2389
		1319.10 1320.20	2291 2296	2295 2300	1365.20 1366.40	2389 2391
		1321.40	2301	2305	1367.60	2393
		1322.70	2306 2311	2310 2315	1368.90 1370.20	2395 2398
		1323.90 1325.20	2316	2320	1371.50	2400
		1326.40	2321	2325 2330	1372.80 1373.90	2402 2404
		1327.50 1328.90	2326 2331	2335 2335	1375.40	2407
		1330.10	2336	2340	1376.80	2409 2411
		1331.40 1332.80	2341 2346	2345 2350	1377.90 1379.20	2413
		1333.90	2351	2355	1380.50	2416
		1335.00 1336.20	2358 2361	2380 2365	1361.70 1382.90	2418 2420
		1337.50	2366	2370	1384.30	2422
		1338.80	2371 2376	2375 2380	1365.60 1387.00	2424 2427
		1340.10 1341.20	2381	2385	1388.10	2429
		1342.40	2366	2390 2395	1389.30 1390.70	2431 2433
		1343.70 1344.90	2391 2396	2400	1391.90	2435
		1346.20	2401	2405	1393.30	2438 2440
		1347.40 1348.70	2406 2411	2410 2415	1395.90	2442
		1349.90	2416	2420	1397.10	2444
		1351.10 1352.40	2421 2426	2425 2430		
		1353.80	2431	2435	1400.90	2451
		1354.80 1356.00	2436 2441	2440 2445		
		1357.20	2446	2450	1404.70	2458
		1358.50	2451 2456	2455	1406.00 1407.30	2460 2460
		1359.80 1361.10	2461	2465	1408.70	246
		1362.20	2466	2470 2475	1409.80	
		1363.50 1364.60	2471 2476	2460	1412.30	247
		1365.70 1366.80	2481 2486	2485	1413.40) 2473

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

benefit under 1939 act, as modified)—If an individual's primary insurance benefit (as determined under sub- sec. (d)) is—		Il (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as deter-	ill (average monthly wage)—or his average monthly wage (as determined under sub- sec. (b)) is-		IV (primary insurance amount)—the amount referred to in the preced-	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis
At least—	But not more than—	mined under sub- sec.(c)) is	At least	But not more than—	ing paragraphs of this subsection shall be—	of his wages and self-employment income shall be—
		1367.90 1369.00	2491 2496	2495 2500	1415.70	2477.7
		1370 20	2501	2505	1416.90 1418.10	2479.8 2481.8
		1371.20 1372.40	2506 2511	2510	1419.10	2483.7
		1373.50	2516	2515 2520	1420.40 1421.50	2485 P
		1374.80	2521	2525	1422.70	2487.8 2489.8
		1375.70 1376.80	2526 2531	2530 2535	1423.80	2491.8
		1377.90	2536	2540	1424.90 1426.10	2493.9 2495.9
		1379.10 1380.10	2541	2545	1427.30	2497.9
		1381.30	2546 2551	2550 2555	1428.40 1429.60	2499.9
		1382.40	2556	2560	1430.70	2502.0 2503.9
		1383.50 1384.80	2561 2566	2565	1431.90	2505.9
		1385.70	2571	2570 2575	1433.00 1434.10	2506.0 2510.0
		1386.90 1388.00	2576	2580	1435.40	2510.0 2511.9
		1389.00	2581 2586	2585 2590	1436.50 1437.60	2514.1
		1390.20	2591	2595	1438.60	2516.0 2518.0
		1391.30 1392.30	2596 2601	2600 2605	1439.90	2520.0
		1393.50	2606	2610	1441.00 1442.20	2522.1 2524.0
		1394.60 1395.80	2611	2615	1443.40	2526.1 2526.1
		1396.60	2616 2621	2620 2625	1444.60 1445.60	2526.1
		1397.90	2626	2630	1446.80	2530.1 2532.1
		1399.10 1400.20	2631 2636	2635 2640	1448.00	2534 .3
		1401.20	2641	2645	1449.20 1450.20	2536.1 2538.2
		1402.40 1403.50	2646	2650	1451.40	2540.0 2540.0
		1404.70	2651 2656	2655 2660	1452.60	2542.2
		1405.70	2661	2665	1453.80 1454.80	2544.2 2546.2
		1406.80 1408.00	2666 2671	2670	1456.00	2548.2
		1409.10	2676	2875 2680	1457,20 1458,40	2550.3 2552.2
		1410.10 1411.30	2681	2685	1459.40	2554.3
		1412.40	2686 2691	2690 2695	1480.80 1461.80	2556.3
		1413.60	2696	2700	1463.00	2558.3 2560.2
		1414.60 1415.60	2701 2706	2705 2710	1464.10	2562.2
		1416.70	2711	2715	1465.10 1466.20	2564.0 2565.9
		1417.70 1418.70	2716 2721	2720	1467.30	2567.7
		1419.80	2726	2725 2730	1468.30 1469.40	2569.8
		1420.80 1421.80	2731	2735	1470.50	2571.50 2573.40
		1422.90	2736 2741	2740 2745	1471.50	2575.20
		1423.90	2746	2750	1472.70 1473.70	2577.20 2579.00
		1424.90 1426.00	2751 2756	2755	1474.70	2560.90
		1427.00	2781	2760 2765	1475.90 1476.90	2582.70
		1428.00 1429.10	2766	2770	1477.90	2584.70 2586.50
		1430.10	2771 2776	2775 2780	1479.10 1480.10	2588.40
		1431.10	2781	2785	1481.10	2590.20 2592.10
		1432.20 1433.20	2786 2791	2790 2705	1482.30	2594.00
		1434.30	2796	2795 2600	1483.30 1484.50	2595.90 2597.70
		1435.30 1436.30	2801 2806	2805	1485.50	2599.70
		1437.40	2806 2811	2810 2815	1486.50 1487.70	2601.50
		1436.40	2816	2820	1486.70	2803.40 2605.30
		1439.40 1440.50	2821 2826	2825 2820	1489.70	2607.10
		1441.50	2831	2830 2835	1490.90 1491.90	2609.00
		1442.50 1443.60	2836	2840	1492.90	2610.90 2612.70
		1444.60	2841 2646	2845 2850	1494.10 1495.10	2614.70
		1445.80	2851	2855	1495.10 1496.10	2618.40 2618.40

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

I (primary insurance benefit under 1939 act, as modified)—if an individual's primary insurance benefit (as determined under sub- sec. (d)) is—		If (primary insurance amount effective for Dec. 1983)—or his primary insurance amount (as determined in the second second for the second for	wage)—or monthly determine	ge monthly his average wage (as d under sub- (b)) is-	IV (primary insurance amount)—the amount referred to in the preced- ing paragraphs of	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis of his wages and
At least—	But not more than—	amount (as determined under subsection sec. (c)) is— least— than— ing paragraphs of this subsection shall be—	self-employment income shall be			
		1446.70	2856	2860 2865	1497.30 1498.30	2620.3 2622.1
		1447.70 1448.70	2861 2866	2870	1499.40	2624.0
		1449.80	2871 2878	2875 2880	1500.50 1501.50	2625.8 2627.3
		1450.80 1451.80	2881	2885	1502.60	2629.7
		1452.90 1453.90	2866 2891	2890 2895	1503.70 1504.70	2631. 2633.
		1455.00	2896	2900	1505.90	2635.
		1456.00 1457.00	2901 2906	2905 2910	1506.90 1507.90	2637. 2639.
		1456.10	2911	2915	1509.10	2640.
		1459.10 1460.10	2918 2921	2920 2925	1510.10 1511. 2 0	2642. 2644.
		1481.20	2926	2930	1512.30	2646.
		1462.20 1463.20	2931 2938	2935 2940	1513.30 1514.40	2646. 2650.
		1464.30	2941	2945	1515.50	2652. 2654.
		1465.30 1466.30	2946 2951	2950 2955	1516.50 1517.80	2655.
		1467.40	2956	2960	1518.70	2657
		1466.40 1469.40	2961 2966	2965 2970	1519.70 1 52 0.80	2659 2661
		1470.50	2971	2975	1521.90	2663 2665
	•	1471.50 1472.50	2976 2981	2980 2985	1523.00 1524.00	2666
		1473.50	2966	2990	1525.00	2668 2670
		1474.50 1475.50	2991 2996	2995 3000	1526.10 1527.10	2672 2672
		1478.50	3001	3005	1528.10	2674 2676
		1477.50 1478.50	3006 3011	3010 3015	1529.20 1530.20	2677
		1479.50	3016	3020	1531.20	2679 2881
		1480.50 1481.50	3021 3026	3025 3030	1532.30 1533.30	2683
		1482.50	3031	3035	1534.30 1535.40	2665 2686
		1483.50 1484.50	3036 3041	3040 3045	1536.40	2688
		1485.50	3046	3050	1537.40	2690 2692
		1486.50 1487.50	3051 3056	3055 3060	1538.50 1539.50	2694
		1488.50	3061	3065	1540.50	2695 2697
		1489.50 1490.50	3066 3071	3070 3075	1541.60 1542.60	2699
		1491.50	3076	3080	1543.70	2701 2703
		1492.50 1493.50	3061 3086	3085 3090	1544.70 1545.70	2705
		1494.50	3091	3095	1546.60 1547.60	2706 2708
		1495.50 1496.50	3096 3101	3100 3105	1548.60	2710
		1497.50	3106	3110 3115	1549.90 1550.90	2712 2714
		1496.50 1499.50	3111 3116	3120	1551.90	2715
		1500.50	3121	3125	1553.00 1554.00	2717 2719
		1501.50 1502.50	3126 3131	3130 3135	1555.00	2721
		1503.50	3136 3141	3140 3145	1556.10	2723 2724
		1504.50 1505.50	3146	3150	1558.10	2726
			3151 31 5 6	3155 3160	1559.10	2728 2730
			3161	31 6 5	1561.10	2731
			3166 3171	3170 3175	1562.10	2733 2735
			3176	3180	1564.10	2737
			3181 3186	31 8 5 3190		2738 2740
			3191	3195	1567.10	2742
			3196 3201	3200 3205	1569.10	274
			3206	3210	1570.10	274
			3211 3216	3215 3220		

TABLE 1.—TABLE FOR DETERMINING PRIMARY INSURANCE AMOUNT AND MAXIMUM FAMILY BENEFITS BEGINNING DECEMBER 1984 (Cont.)

I (primary insurance benefit under 1939 act, as modified)—if an individual's primary insurance benefit (as determined under sub- sec. (d)) is—		effective for Dec. 1983)—or his primary insurance		age monthly or his average y wage (as ed under sub-	IV (primary insurance amount)—the amount referred to in the preced-	V (maximum family benefits)—and the maximum amount of benefits payable (as provided in sec. 203(a)) on the basis
At least—	But not more than	amount (as deter- mined under sub- sec.(c)) is—	At least—	But not more than—	ing paragraphs of this subsection shall be—	of his wages and self-employment income shall be-
			3221	3225	1573.10	2752.90
			3226	3230	1574.10	2754.60
			3231	3235	1575.10	2756.40
			3236	3240	1576.10	2758.10
			3241	3245	1577.10	2759.90
			3246	3250	1578.10	2761.60
			3251	3255	1579.10	2763.40
			3256	3260	1580.10	2765.10
			3261	3265	1581.10	2766.90
			3266	3270	1582.10	2768.60
			3271	3275	1583.10	2770.40
			3276	3280	1584,10	2772.10
			3281	3285	1585.10	2773.90
			3286	3290	1566.10	2775.60
			3291	3295	1587.10	2777.40
			3296	3300	1588.10	2779.10

TABLE 2.—SPECIAL MINIMUM PRIMARY INSURANCE AMOUNTS AND MAXIMUM FAMILY BENEFITS

Special minimum primary insurance amount payable for Dec. 1983	No. of years required minimum earnings level	Special minimum primary insurance amount payable for Dec. 1984	Special maximum family benefit payable for Dec. 1984
18.10	11	18.70	28.10
35.80	12	37.00	55.60
53.70	13	55.50	83.50
71.50	14	74.00	
89.30	15	92.40	111.10
107.30	16	111.00	138.70
125.10	17		166.60
143.00	18	129.40	194.10
160.80	19	148.00	222.00
178.50	20	166.40	249.60
196.50	21	184.70	277.20
214.30	22	203.30	305.20
232.30		221.80	332.80
250.10	23	240.40	360.80
	24	256.80	388.30
267.90	25	277.20	415.90
285.90	26	295.90	444.00
303.70	27	314.30	471.60
321.50	28	332.70	499.20
339.30	29	351.10	526.90
357.10	30	369.50	554.50

APPENDIX D.—AUTOMATIC ADJUSTMENTS UNDER OLD-AGE, SURVIVORS, AND DISABILITY INSURANCE

The Social Security Act specifies that certain program amounts affecting the determination of OASDI benefits are to be adjusted annually, in general, to reflect changes in the economy. The law prescribes specific formulas which, when applied to reported statistics, produce "automatic" revisions in these program amounts and hence in the benefit-computation procedures.

In this appendix, values are shown for the program amounts which are subject to automatic adjustment, from the time that such adjustments became effective through 1985. Projected values for future years through 1990, based on the two intermediate sets of assumptions (alternatives II-A and II-B), are also shown. Many of these assumptions are described in the subsection of this report entitled "Economic and Demographic Assumptions" and are shown in tables 10 and 11. The subsection entitled "Automatic Adjustments," and Appendix C, provide a more complete description of the program amounts affected by the automatic-adjustment procedures.

Under section 215(b)(3) of the Social Security Act, the average amount of total wages for each year after 1950 is used to index the earnings of most workers first becoming eligible for benefits in 1979 or later. This procedure converts a worker's past earnings to approximately their equivalent values near the time of the worker's retirement or other eligibility, and these values are used to calculate the worker's Average Indexed Monthly Earnings (AIME). The average amount of total wages for each year is also used to adjust most of the program amounts that are subject to the automatic-adjustment provisions. A copy of the notice announcing the average wage for 1983, including a brief description of its derivation, is shown in Appendix C, which also describes the determinations of other program amounts that are in effect for 1985. Table D1 shows the average amount of total wages as announced for each year 1951 through 1983, together with estimated values for 1984 through 1990 based on the two intermediate sets of assumptions.

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TABLE D1.—AVERAGE AMOUNT OF TOTAL WAGES FOR 1951-83 AND ESTIMATED AMOUNTS FOR 1984-90, ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS

Calendar year	Actual amounts	
1951	\$2,799,16	
1952	2,973,32	
1953	3,139.44	
1954	3,155.64	
1955	3,301.44	
1956	3,532.36	
1957	3,641.72	
1958	3,673.80	
1959	3,855.80	
1960		
1800	4,007:12	
1981	4,086,76	
1962	4,291.40	
1963	4,396.64	
1964	4,576.32	
1965	4.658.72	•
1966	4,938.36	
1967		
1968	5,213.44	
1020	5,571.76	
1969	5,893.76	
1970	6,186.24	
1971	8.497.08	
1972	7,133.80	
1973	7,580.16	
1974	8,030.76	
1975	8,630.92	
1978		
4077	9,226.48	
1977	9,779.44	
1978	10,556.03	
1979	11,479.46	
1980	12,513.46	
1981	13,773.10	
1982	14,531.34	
1983	15,239.24	
	Estimated amount by alternative	e-
	II-A	II-B
1984	\$16,031.08	\$15,992,80
1985	16,642.77	16,595.36
1966	17,542.19	17,491.41
1987	18,529,18	18,590.61
1968	19,547.66	19,714.94
1989	20.640.27	20.941.96
1990	21,680.61	
	21,000.01	22,134.72

The provisions for automatic cost-of-living increases in OASDI benefits were originally enacted in 1972 and first became effective with the benefit increase for June 1975. The determination of the benefit increase effective for December 1984 is shown in Appendix C. Table D2 shows the automatic benefit increases determined for each year 1975-84, and the benefit increases for each year 1985-90 on the basis of the two intermediate sets of assumptions.

TABLE D2.—OASDI PROGRAM AMOUNTS DETERMINED UNDER THE AUTOMATIC-ADJUSTMENT PROVISIONS FOR 1975-85 AND PROJECTED FUTURE AMOUNTS FOR 1986-90, ON THE BASIS OF THE INTERMEDIATE SETS OF ASSUMPTIONS

Calendar year	Benefit	Contribution	"Old-law" contribution -	Retirement earnings test exempt amounts		Amount of earnings	AIME "bend points" in PIA formula		PIA "bend points" in maximum-family- benefit formula		
	increase ¹	increase ¹	and benefit base	and benefit base ²	Under age 65	Ages 65 and over ^a	required for quarter of coverages	First	Second	First	Second
Actual experience:			•								
1975	8.0	\$14,100	(5)	\$2,520	\$2,520	(*)	(5)	(*)	(*)	(*)	(5)
1976	6.4	15,300	(a)	2,760	2,760	(*)	Ìή	(*)	(5)	Ìe)	(*)
1977	5.9	16,500	(4)	3,000	3,000	è	(°)	(a)	(*)	(*)	e)
1978	6.5	17,700	1 45	3,240	74,000	•\$2 50	(°)	(≥)	(4)	(5)	(8)
1979	9.9	722,900	\$18,9 0 0	3,480	74,500	260	•\$18ò	•\$1,08̀5	•\$230	•\$332	•\$433
1980	14.3	725,900	20,400	3,720	75,000	290	194	1,171	248	358	467
1981	11.2	*29,700	22,200	4,080	75,500	310	211	1,274	270	390	508
1982	7.4	32,400	24,300	4,440	76,000	340	230	1,388	294	425	554
1983	3.5	35,700	26,700	4,920	6,600	370	254	1,528	324	468	610
1984	3.5	37,800	28,200	5,160	6,960	390	267	1,612	342	493	643
1985	(°)	39,600	29,700	5,400	7,320	410	280	1,691	358	517	675
Projected future	``	0-,000		-,	.,	•••		1,001	000	• • • • • • • • • • • • • • • • • • • •	0
experience:											
Alternative II-A:											
1986	4.2	41,700	31,200	5,640	7,680	430	295	1.779	377	544	710
1987	4.1	43,200	32,400	5,880	7,920	450	306	1.846	391	565	737
1988	4.0	45,600	34,200	6,240	8,400	480	323	1,946	413	596	777
1989	3.6	48,300	36,000	6,600	8,880	500	341	2,056	436	629	820
1990	3.1	51,000	38,100	6,960	9,360	530	360	2,169	460	664	866
Alternative II-B:	•	.,,		-,	-,		-	_,,	400	00-7	-
1986	5.0	41,700	31,200	5,640	7.680	430	294	1,774	376	543	708
1987	5.3	43,200	32,400	5,880	7.920	450	305	1.841	390	563	735
1988	5.0	45,600	34,200	6,240	8,400	470	322	1,941	411	594	774
1989	4.6	48,600	36,300	6,600	8,880	500	342	2,063	437	631	823
1990	4.1	51,600	38,400	6,960	9,380	530	363	2.187	464	669	873

¹Effective with benefits payable for June in each year 1975-82, and for December in each year after 1982.

^{*}Contribution and benefit base that would have been determined automatically under the law in effect prior to enactment of the Social Security Amendments of 1977.

³In 1955-82, retirement earnings test did not apply at ages 72 and over; beginning in 1983, it does not apply at ages 70 and over.

^{*}See Appendix C for a description of quarter-of-coverage requirements prior to 1978.

^{*}No provision in law for this amount in this year.

^{*}Amount not subject to automatic-adjustment provisions in this year.

⁷Amount specified by Social Security Amendments of 1977.

^{*}Amount specified for first year by Social Security Amendments of 1977; amounts for subsequent years subject to automatic-adjustment provisions.

[&]quot;Actual benefit increase for December 1985 has not been determined. Estimates of that increase, based on alternatives II-A and II-B, are 3.4 percent and 3.7 percent, respectively.

The law provides for an automatic increase in the contribution and benefit base for the year following a year in which an automatic benefit increase became effective. The base for 1975 was the first one determined on this basis. (Amendments enacted in December 1973 provided that the 11-percent general benefit increase that became effective in 1974 would be considered an automatic cost-of-living benefit increase for purposes of the automatic-adjustment provisions.) The bases for 1979-81 were specified by the 1977 amendments at levels above those which were expected to occur under the automatic-adjustment provisions (and which, in fact, as the experience developed, were above such levels). Starting again in 1982, the bases have been determined automatically on the basis of increases in average wages. Table D2 shows actual past and projected future amounts for the contribution and benefit base.

The law provides for the determination of the contribution and benefit bases that would have been in effect in each year after 1978 under the automatic-adjustment provisions as in effect before the enactment of the 1977 amendments. This "old-law" base is used in determining special-minimum benefits for certain workers who have many years of low earnings in covered employment. Beginning in 1986, the old-law base will be used in the calculation of OASDI benefits for certain workers who are eligible to receive pensions based on noncovered employment. It is also used for certain purposes under the Railroad Retirement program and the Employee Retirement Income Security Act of 1974. Table D2 shows the old-law bases for 1979-85, together with estimated amounts for 1986-90 on the basis of the two intermediate sets of assumptions.

The 1972 amendments specified that the amount of earnings exempted from the withholding of benefits under the retirement earnings test would increase automatically in the year following a year in which an automatic cost-of-living benefit increase became effective. The 1977 amendments modified this procedure by establishing two different exempt amounts—one for those under age 65 and another for those aged 65 and over. The former amounts continued to increase automatically, while the latter amounts were specified for 1978-82, after which they again increase automatically. The exempt amounts are shown in table D2 for 1975-90.

The 1977 amendments specified the amount of earnings required in 1978 to be credited with a "quarter of coverage" and provided for automatic adjustment of this amount for future years. Table D2 shows the amounts for 1978-90.

The 1977 amendments substantially revised the method of computing benefits for most workers first becoming eligible for benefits in 1979 and later. The formula used to compute the Primary Insurance Amount (PIA) for workers who first become eligible for benefits, or who died before becoming eligible, in 1979 is:

90 percent of the first \$180 of AIME, plus 32 percent of AIME in excess of \$180 but not in excess of \$1,085, plus 15 percent of AIME in excess of \$1,085.

The amounts separating the individual's AIME into intervals—the "bend points"—are adjusted automatically by the changes in average wages as specified in section 215(a)(1)(B) of the Social Security Act. (A regular-minimum benefit of \$122 and a special-minimum benefit varying by "years of coverage" are also provided, although for most workers first becoming eligible for benefits in 1982 and later, the regular-minimum benefit of \$122 has been eliminated.) The bend points for 1979-85, and the values projected for 1986-90, are shown in table D2.

A similar formula is used to compute the maximum total amount of monthly benefits payable on the basis of the earnings of a retired or deceased individual. This formula is a function of the individual's PIA, and is shown below for workers who first became eligible for benefits, or who died before becoming eligible, in 1979:

150 percent of the first \$230 of PIA, plus
272 percent of the PIA in excess of \$230 but not in excess of \$332, plus
134 percent of the PIA in excess of \$332 but not in excess of \$433, plus
175 percent of the PIA in excess of \$433.

These PIA-interval bend points are adjusted automatically in accordance with section 203(a)(2) of the Act. The maximum-family-benefit bend points for 1979-90 are shown in table D2.

APPENDIX E.—ACTUARIAL ESTIMATES FOR THE OASI, DI, AND HI PROGRAMS, COMBINED

In this appendix, actuarial estimates for the OASI, DI, and Hospital Insurance (HI) programs are combined to facilitate analysis of the adequacy of the combined income and assets of these three trust funds relative to their combined expenditures. These estimates represent the combination of the estimates shown in this report and in the concurrent report for the HI Trust Fund.

Public Law 97-123 granted limited authority for borrowing among the OASI, DI, and HI Trust Funds; this authority expired on December 31, 1982. The Social Security Amendments of 1983 reinstated interfund borrrowing authority and extended it through the end of 1987. In addition, the current provisions of the law (1) prohibit new loans from a trust fund if its assets are below specified levels, and (2) set forth minimum standards for the repayment of interfund loans (including a requirement for the complete repayment of all such loans before 1990). Estimates shown in this appendix for the combined trust funds are theoretical after 1987 because, under present law, no authority exists for transferring assets from one trust fund to another after 1987 except to repay amounts owed. Thus, the emphasis in this appendix on combined operations should not obscure the financial status of the individual trust funds.

Table E1 shows estimated assets of the three funds, separate and combined, as a percentage of annual expenditures for calendar years 1985-94, based on the four alternative sets of assumptions used in this report. These estimates indicate that, except on the basis of alternative III, no further interfund loans would be necessary during 1985-87. On the basis of alternative III, the assets of the DI Trust Fund would be insufficient to allow the timely payment of DI benefits by the end of 1987. As described earlier in this report, an interfund loan could postpone the depletion of the DI fund; the amount borrowed, however, could not be repaid by the mandated deadline of December 31, 1989, without corrective legislation.

The estimates also indicate that, except on the basis of alternative III, the \$10.6 billion owed from the OASI Trust Fund to the HI Trust Fund, after the repayment of \$1.8 billion in January 1985, would be repaid by early 1987 using the minimum standard in the law, based on the trust fund ratio, for repayment of such amounts owed. Based on alternative III, a small repayment would be required to the HI Trust Fund in 1986, with the remainder being repaid in 24 monthly installments in 1988-89, in accordance with procedures specified in the law. Based on all four alternatives, the \$2.5 billion owed from the OASI Trust Fund to the DI Trust Fund, after the repayment of \$2.5 billion in January 1985, is assumed to be repaid in 1986.

Based on alternatives I, II-A, and II-B, the combined assets of the OASI and DI Trust Funds would increase as a percentage of outgo throughout the short-range projection period. Based on alternative III, assets would decline relative to outgo through 1987; after 1989, significant growth would occur. The assets of the HI Trust Fund, as a percentage of annual expenditures, are estimated to increase for at least

the next several years based on all four sets of assumptions. Except for the alternative I projections, HI assets are estimated to begin declining near the end of this decade. As described in the concurrent HI Annual Report, the HI Trust Fund would have sufficient assets to meet obligations throughout the medium-range period based on alternative I, but would be exhausted in 2000 based on alternative II-A, in 1998 based on alternative II-B, and in 1992 based on alternative III. The HI estimates are significantly more favorable than those in last year's report. For alternatives I, II-A, and II-B, this improvement is due to two major actions: (1) The Secretary of Health and Human Services has tentatively decided to set prospective payment rates for fiscal year 1986 at the same level as for fiscal year 1985, and (2) in later years, the limiting annual increase in rates which can be granted without specific justification is equal to the increase in the hospital input price index plus one-quarter percentage point. Prior to the enactment of the Deficit Reduction Act of 1984, the limiting annual increase in rates was equal to the increase in the hospital input price index plus one percentage point. For alternative III, prospective payment rates are assumed to increase by the price index plus one-quarter percentage point in fiscal year 1986 and later.

Table E1 indicates that the combined assets of the OASI, DI, and HI Trust Funds would be sufficient to meet combined obligations through the end of 1994 based on each of the four alternative sets of assumptions. These estimates suggest that a reallocation of tax rates among the OASI, DI, and HI programs, or the extension of interfund borrowing authority beyond 1987, could be sufficient to prevent the potential short-range financing problems of the DI and HI programs for a number of years. Under adverse economic conditions, however, the margin for safety would be small throughout the short-range projection period.

TABLE E1.—ESTIMATED ASSETS: OF THE OASI, DI, AND HI TRUST FUNDS, SEPARATE AND COMBINED, AT BEGINNING OF YEAR, AS A PERCENTAGE OF ANNUAL EXPENDITURES DURING YEAR, CALENDAR YEARS 1985-94

	0461		OASDI	н	Total OASDI and Hi
Calendar year	OASI	DI	UASUI	П	ano ni
Alternative I:					
1985	24	27	24	32	26
1986	26	33	27	42	30
1987	29	44	31	71	39
1988	38	45	39	87	49
1989	56	56	56	98	65
1990	77	72	76	108	83
1991	102	106	103	118	106
1992	126	139	127	125	126
1993	154	177	156	132	150
1994	178	210	181	136	171
	170	210			
Alternative II-A:	24	26	24	32	26
1985	25	28	25	42	29
1986	25 27	35	28	67	36
1987		31	26 34	85	44
1988	34	31	34 48	92	58
1989	50	35		97	71
1990	67	41	64		
1991	86	61	84	98	87
1992	106	82	104	97	102
1993	126	103	124	93	117
1994	147	123	145	86	131
Alternative II-B:					
1985	24	26	24	. 32	26
1986	24	27	25	41	28
1987	26	33	27	63	34
1988	30	28	30	81	40
1989	43	29	41	86	51
1990	57	33	54	88	62
1991	73	50	71	87	74
1992	89	69	87	83	- 86

TABLE E1.—ESTIMATED ASSETS: OF THE OASI, DI, AND HI TRUST FUNDS, SEPARATE AND COMBINED, AT BEGINNING OF YEAR, AS A PERCENTAGE OF ANNUAL EXPENDITURES DURING YEAR, CALENDAR YEARS 1985-94 (Cont.)

Calendar year	OASI	DI	OASDI	HI	Total OASDI and Hi
Alternative II-B: (Cont.)					
1993	105	87	104	77	97
1994	122	105	121	67	108
Alternative III:				٠.	100
1985	24	26	24	32	26
1986	22	23	22	37	25
1987	20	20	20	41	24
1988	20	(ª)	19	41	23
1989	. 23	}	21	43	26
1990	25	} \	21	40	25
1991	30	<i>}</i> √	26	25	26
1992	36	}₂(32	-2	26
1993	43) ₂ (39	/a)	25 25
1994	51) ₂ (45	7.	23

Assets of the OASI and DI Trust Funds include advance tax transfers for January.

Note: The assumptions underlying the estimates for the HI Trust Fund are described in Appendix A of the HI Annual Report. The ratios for OASDI and for OASDI and HI, combined, shown for years after a given fund is estimated to be exhausted, are theoretical and are shown for informational purposes only.

Table E2 shows estimated cost rates for the OASI, DI, and HI programs during 1985-2009, based on alternatives I, II-A, II-B, and III. This table also shows a comparison of total cost rates and total income rates for the three programs combined. As previously discussed, cost rates represent program expenditures as a percentage of taxable payroll. The total income rate represents the combined employee-employer contribution rate for the OASI, DI, and HI programs, plus the OASDI income rate attributable to income from the taxation of OASDI benefits. as described earlier in this report. The definition of taxable payroll is slightly different for OASDI and HI, because of the different coverage provisions for Federal civilian employees and Railroad employees under the two programs. This difference does not materially affect the comparisons. In addition, the cost rates shown for the HI program exclude the cost associated with rebuilding and maintaining the HI Trust Fund at a level suitable for a contingency reserve. Table 8 of the HI Annual Report presents these additional costs.

^{*}The fund is estimated to be exhausted.

TABLE E2.—COMPARISON OF ESTIMATED COST RATES AND TOTAL INCOME RATES FOR THE OASI, DI, AND HI PROGRAMS, BY ALTERNATIVE, CALENDAR YEARS 1985-2009

[As a percentage of taxable payrolis]

[As a percentage of taxable payroll ¹]									
		Cost rate)	Total income					
Calendar year	OASI	Dŧ	HP	Total	rate	Balance*			
Alternative I:				,					
1985	10.05	1.15	2.66	13.85	14.31	0.45			
1986 1987	9.63 9.70	1.04 1.02	2.61	13.28	14.51	1.24 1.20			
1988	9.59	.99	2.62 2.66	13.34 13.24	14.53 15.27	2.03			
1989	9.48	.96	2.69	13.12	15.29	2.17			
1990	9.48	.94	2.74	13.15	15.59	2.44			
1991	9.27	.91	2.80	12.98	15.61	2.63			
1992 1993	9.38 9.20	.92	2.82	13.12	15.64	2.53			
1994	9.23	.90 .91	2.87 2.89	12.97 13.03	15.87 15.70	2.69 2.67			
1995	8.82	.88	2.91	12.61	15.66	3.04			
1996	8.74	.89	2.91	12.55	15. 66	3.11			
1997	8.48	.87	2.92	12.27	15.65	3.38			
1996	8.21 8.00	.86	2.92	11.99	15.64	3.65			
1999 2000	7.85	.85 .88	2.92 2.92	11.76 11.62	15.63 15.63	3.87 4.01			
2001	7.73	.87	2.91	11.50	15.63	4.13			
2002	7.62	.88	2.90	11.40	15.63	4.23			
2003	7.52	.89	2.89	11.31	15.63	4.32			
2004	7.44	.91	2.88	11.23	15.63	4.40			
2005	7.39 7.38	.94 .96	2.87 2.86	11.19	15.63	4.44			
2006 2007	7.38 7.39	.96 .99	2.86 2.85	11.20 11.23	15.63 15.64	4.43 4.41			
2008	7.42	1.01	2.86	11.29	15.64	4.41			
2009	7.50	1.03	2.85	11.39	15.65	4.26			
25-year average:	-								
1985-2009	8.50	.94	2.83	12.26	15.47	3.20			
Alternative II-A: 1985	10.06	1.18	2.66	13.90	14.31	.41			
1986	9.87	1.09	2.59	13.55	14.52	.97			
1987	9.81	1.07	2.65	13.52	14.54	1.01			
1988	9.75	1.04	2.73	13.52	15.28	1.76			
1989	9.70	1.03	2.80	13.53	15.30	1.77			
1990	9.77	1.02	2.90	13.69	15.60	1.91			
1991 1992	9.73 9.70	1.01 1.01	3.00 3.09	13.75 13.81	15.63 15.66	1.88 1.85			
1993	9.67	1.01	3.18	13.87	15.69	1.82			
1994	9.64	1.02	3.26	13.92	15.72	1.80			
1995	9.46	1.03	3.33	13.82	15.68	1.87			
1996	9.26	1.04	3.39	13.69	15.68	1.99			
1997	9.04	1.05	3.44	13.53	15.68	2.14			
1998 1999	8.81 8.63	1.06 1.06	3.50 3.55	13.38 13.24	15.67	2.31			
2000	8.53	1.08	3.55 3.60	13.24	15.87 15.67	2.43 2.46			
2001	8.45	1.10	3.64	13.20	15.67	2.40			
2002	8.38	1.13	3.69	13.20	15.67	2.47			
2003	8.32	1.16	3.73	13.21	15.67	2.46			
2004	8.27 .	1.20	3.78	13.24	15.67	2.43			
2005	8.25	1.23	3.82	13.30	15.67	2.37			
2006 2007	8.27 8.30	1.27	3.87	13.41	15.68	2.27			
2008	8.36	1,31 1,35	3.92 3.99	13.54 13.71	15.69 15.69	2.15 1.98			
2009	8.48	1.39	4.05	13.92	15.70	1.78			
25-year average: 1985-2009									
1985-2009	9.06	1.12	3.37	13.54	15.50	1.95			
Alternative II-B:	40.40	4.40							
1965 1986	10.10 9.98	1.19 1.11	2.67 2.62	13.96 13.71	14.31	.35			
1987	9.97	1.06	2.69	13.74	14.52 14.54	.81 .80			
1988	9.97	1.06	2.78	13.82	15.28	1.46			
1989	9.95	1.05	2.66	13.85	15.30	1.45			
1990	10.03	1.04 1.03	2.97	14.04	15.61	1.57			
1991 1992	10.01 10.00	1.03 1.03	3.06	14.12	15.64	1.52			
1993	9.98	1.03	3.17 3.27	14.20 14.28	15.67 15.70	1.47 1.42			
1994	9.96	1.04	3.36	14.36	15.73	1.37			
1995	9.81	1.05	3.44	14.30	15.70	1.40			
1996	9.65	1.07	3.52	14.24	15.70	1.46			
1997	9.47	1.06	3.58	14.13	15.69	1.56			
1998 1999	9.26	1.09	3.68	14.01	15.69	1.68			
2000	9.11 9.04	1.10 1.12	3.72 3.79	13.94 13.96	15.69 15.69	1.75 1.73			
2001	8.96	1.12	3.79	13.98	15.69	1.73			
2002	8.93	1.18	3.91	14.02	15.69	1.87			
2003	8.88	1.21	3.97	14.06	15.89	1.63			
2004	8.64	1.25	4.03	14.12	15.70	1.57			
2005 2006	8.63 8.88	1.29 1.34	4.09	14.21	15.70	1.49			
			4.15	14.34	15.71	1.36			

TABLE E2.—COMPARISON OF ESTIMATED COST RATES AND TOTAL INCOME RATES FOR THE OASI, DI, AND HI PROGRAMS, BY ALTERNATIVE, CALENDAR YEARS 1985-2009 (Cont.)
[As a percentage of taxable payroli*]

		Cost rate		_	Total income	
Calendar year	OASI	DI	HI	Total	rate	Balance
Alternative II-B: (Cont.)						
2007	8.91	1.38	4.21	14.50	15.71	1.2
2008	8.98	1.42	4.29	14.89	15.72	1.0
2009	9.11	1.46	4.36	14.93	15.73	.8
25-year average:						
1985-2009	9.46	1.15	3.52	14.14	15.51	1.3
Itemative III:	•					_
1985	10.29	1.23	2.74	14.26	14.31	.0
1986	10.58	1.20	2.86	14.65	14.54	1
1987	10.57	1.19	2.96	14.71	14.56	•.1
	10.63	1.18	3.12	14.93	15.30	.3
1988	10.94	1.20	3.30	15.44	15.33	1
1989	10.96	1.19	3.46	15.61	15.64	.0
1990	10.86	1.18	3.65	15.69	15.67	0
1991		1.17	3.82	15.78	15.70	
1992	10.79	1.17	4.00	15.93	15.73	
1993	10.75		4.16	16.19	15.77	4
1994	10.82	1.19	4.36	16.30	15.74	
1995	10.72	1.22			15.74	-,1
1996	10.61	1.26	4.54	16.41		-
1997	10.46	1.30	4.70	16.46	15.74	
1998	10.28	1.33	4.88	16.49	15.74	
1999	10.16	1.36	5.08	18.58	15.74	
2000	10.13	1.40	5.25	16.78	15.74	-1.
2001	10.11	1.45	5.43	16.98	15.74	-1.
2002	10.09	1.49	5.61	17.20	15.75	-1.
2003	10.08	1.54	5.80	17.42	15.75	-1.
2004	10.08	1.60	5.99	17.67	15.76	-1.
2005	10.11	1.66	6.19	17.96	15.76	-2.
2006	10.18	1.72	6.39	18.29	15.77	-2.
2007	10.27	1.78	6.62	18.67	15.78	-2.
2006	10.39	1.85	6.87	19.11	15.79	-3.
	10.59	1.90	7.12	19.58	15.81	-3
2009	10.57	1.50	7.12	10.00		•
25-year average:	10.40	1.39	4.76	16.60	15.56	-1.
1965-2009	10. <u>46</u>	1.39	4.70	10.00	isiona for E	

¹Taxable payroll is slightly different for OASDI and HI, because of different coverage provisions for Federal civilian employees and Railroad employees under the respective programs. The difference does not materially affect the comparison.

The pattern of estimated OASI and DI cost rates for the next 25 years was described earlier in this report. The HI costs as a percentage of taxable payroll are estimated to increase generally through this period based on all four alternatives, for reasons described in the HI Annual Report. Based on alternative I, the combined OASDI and HI cost rates would decline steadily from the 1985 level of 13.85 percent of taxable payroll to 11.19 percent in 2005, and thereafter increase to 11.39 percent in 2009. Based on alternative II-A, the combined cost rate would remain around the 1985 level of 13.90 percent of taxable payroll through 1994, then decline through the end of the century, before increasing to 13.92 percent in 2009. Based on alternative II-B, the combined cost rate would remain around the 1985 level of 13.96 percent of taxable payroll through the end of the century, and thereafter increase, reaching 14.93 percent in 2009. Based on alternative III, the combined cost rate would increase steadily from its 1985 level of 14.26 percent of taxable payroll, reaching 19.58 percent in 2009.

Based on alternatives I, II-A, and II-B, the cost rate for OASDI and HI combined would be less than the combined income rate in each year 1985 through 2009. Based on alternative III, however, the combined cost rate would be greater than the combined income rate for every year

^{*}Cost rates exclude amounts required for trust fund building and maintenance.

^{*}The balance is the total income rate minus the combined OASDI and HI cost rate. Positive balances are surpluses, and negative balances are deficits.

after 1985, except 1988 and 1990, when increases in the OASDI contribution rate are scheduled in the law. On average, for the 25-year period, total income for OASDI and HI would exceed total costs by 3.20, 1.95, and 1.37 percent of taxable payroll, respectively, on the basis of alternatives I, II-A, and II-B, while on the basis of alternative III, the combined income rate would be 1.05 percent of taxable payroll less than the combined cost rate.

Table E3 presents a comparison of the cost and income rates for the long-range 75-year projection period, on the basis of the four alternative sets of assumptions.

TABLE E3.—COMPARISON OF ESTIMATED COST RATES AND TOTAL INCOME RATES FOR THE OASI, DI, AND HI PROGRAMS, BY ALTERNATIVE, CALENDAR YEARS 1985-2060
[As a percentage of taxable payroli*]

[As a percentage of taxable payroll-]									
		Cost rate			Total income				
Calendar year	OASI	DI	HI	Total	rate	Balance			
Alternative I:									
1985	10.05	1.15	2.66	13.85	14.31	0.45			
1990	9.48	.94	2.74	13.15	15.59	2.44			
1995	8.82	.88	2.91	12.61	15.66	3.04			
2000	7.85	.88	2.92	11.62	15.63	4.01			
2005	7.39	.94	2.87	11.19	15.63	4.44			
2010	7.61	1.05	2.83	11.49	15.65	4.17			
2015	8.42	1.11	2.87	12.40	15.70	3.31			
2020	9.45	1.14	3.03	13.81	15.76	2.15			
2025	10.26	1.16	3.28	14.70	15.82	1.11			
2030	10.61	1.11	3.54	15.28	15.84	.58			
2035	10.45	1.07	3.73	15.24	15.85	.81			
	9.99	1.05	3.83	14.87	15.84	.97			
2040	9.59	1.07	3.86	14.52	15.84	1.3			
2045		1.07	3.86	14.30	15.83	1.5			
2050	9.37		3.85	14.12	15.82	1.70			
2055	9.21	1.06			15.81	1.8			
2060	9.10	1.05	3.84	14.00	15.01	1.02			
25-year averages:					45 47	3.20			
1985-2009	8.50	.94	2.83	12.26	15.47				
2010-2034	9.51	1.12	3.18	13.80	15.77	1.97			
2035-2059	9.81	1.06	3.84	14.51	15.83	1.32			
75-year average:									
1985-2059	9.20	1.04	3.26	13.52	15.89	2.17			
Alternative II-A:									
1985	10.06	1,18	2.66	13.90	14.31	.4			
1990	9.77	1.02	2.90	13.89	15.60	1.9			
1995	9.46	1.03	3.33	13.82	15.66	1.8			
	8.53	1.06	3.80	13.21	15.87	2.4			
2000		1.23	3.82	13.30	15.87	2.3			
2005	8.25		4.10	14.14	15.71	1.5			
2010	8.62	1.41		15.75	15.77	0.			
2015	9.66	1.52	4.55		15.85	-1.9			
2020	11.06	1.58	5.13	17.77		-3.8			
2025	12.28	1.65	5.82	19.74	15.93				
2030	13.04	1.60	6.44	21.07	15.98	-5.0			
2035	13.21	1.56	6.62	21.59	16.01	-5.5			
2040	13.01	1.56	7.00	21.57	16.02	-5.5			
2045	12.84	1.61	7.05	21.50	16.03	-5.4			
2050	12.84	1.62	7.06	21.51	18.03	-5.4			
2055	12.83	1.60	7.04	21.46	18.03	-5.4			
	12.60	1.60	7.03	21.42	18.03	-5.4			
2060	12.00	1.00	, .00	21.72		 -			
25-year averages:	0.00	4.40	3.37	13.54	15.50	1.9			
1985-2009	9.06	1.12		18.30	15.87	-2.4			
2010-2034	11.31	1.57	5.42		16.02	-5.5			
2035-2059	12.91	1.59	7.01	21.52	10.02	-5.5			
75-year average:			5 A7	47.50	45.00	4.0			
1985-2059	11.10	1.43	5.27	17.79	15.80	-1.9			
Alternative II-B:						_			
1985	10.10	1.19	2.67	13.96	14.31	.3			
1990	10.03	1.04	2.97	14.04	15.81	1.5			
1995	9.81	1.05	3.44	14.30	15.70	1.4			
2000	9.04	1.12	3.79	13.96	15.89	1.7			
2005	8.83	1.29	4.09	14.21	15.70	1.4			
2010	9.26	1.48	4.42	15.16	15.74	.5			
	10.38	1.60	4.90	16.88	15.81	-1.0			
2015	11.65	1.66	5.53	19.04	15.89	-3.1			
2020			8.27	21.17	15.97	-5.2			
2025	13.17	1.74		22.64	16.03	-6.6			
2030	14.01	1.69	6.94			-0.0 -7.1			
2035	14.25	1.84	7.36	23.24	16.06				
2040	14.06	1.65	7.55	23.26		-7.1 -7.1			
	13.90	1.70	7.81	23.20	16.08				

TABLE E3.—COMPARISON OF ESTIMATED COST RATES AND TOTAL INCOME RATES FOR THE OASI, DI, AND HI PROGRAMS, BY ALTERNATIVE, CALENDAR YEARS 1985-2060 (Cont.) [As a percentage of taxable payroll*]

		Cost rate)		Total income		
Calendar year	OASI	DI	HI	Total	rate	Balance ^s	
Alternative II-B: (Cont.)							
2050	13.88	1.70	7.62	23.20	16.08	-7.12	
2055	13.86	1.69	7.59	23.14	16.08	-7.06	
2060	13.83	1.69	7.58	23.10	16.08	-7.01	
25-year averages:							
1985-2009	9.46	1.15	3.52	14.14	15.51	1.37	
2010-2034	12.14	1.65	5.85	19.64	15.91	-3.73	
2035-2059	13.96	1.68	7.57	23.20	16.08	-7.13	
75-year average:				20.20	10.00	-7.13	
1985-2059	11.85	1.49	5.65	19.00	15.83	-3.16	
Alternative III:					10.00	-0.10	
1985	10.29	1.23	2.74	14.26	14.31	.05	
1990	10.96	1.19	3.46	15.61	15.64	.03	
1995	10.72	1.22	4.36	16.30	15.74	56	
2000	10.13	1.40	5.25	16.78	15.74	-1.04	
2005	10.11	1.66	6.19	17.96	15.76	-2.19	
2010	10.77	1.94	7.36	20.07	15.82	-4.25	
2015	12.31	2.13	8.90	23.34	15.91	-7.43	
2020	14.41	2.27	10.72	27.40	16.03	-11.37	
2025	16.58	2.42	12.74	31.74	16.15	-15.59	
2030	18.41	2.41	14.46	35.28	16.26	-19.02	
2035	19.63	2.40	15.40	37.44	16.35	-21.09	
2040	20.41	2.46	15.82	38.69	16.42	-22.28	
2045	21.23	2.60	15.94	39.76	16.50	-23.27	
2050	22.23	2.63	15.96	40.81	16.55	-23.27	
2055	23.03	2.59	15.90	41.52	16.59	-24.20 -24.94	
2060	23.61	2.57	15.89	42.06	16.62	-24.94 -25.44	
25-year averages:	20.01	2.51	13.03	42.00	10.02	-23,44	
1985-2009	10.46	1.39	4.76	16.60	15.56	1.05	
2010-2034	15.21	2.28	11.49	28.97	16.08	-1.05	
2035-2059	21.63	2.55	15.86	40.04	16.50	-12.90	
75-year average:	21.00	2.33	13.00	40.04	10.50	-23.54	
1985-2059	15.77	2.07	10.70	28.54	16.04	40.40	
T			10.70	40.04	16.04	-12.49	

¹Taxable payroll is slightly different for OASDI and HI, because of different coverage provisions for Federal civilian employees and Railroad employees under the respective programs. The difference does not materially affect the comparison.

The trend in long-range OASDI cost rates was described earlier in this report. The HI cost rates are estimated to increase substantially based on the four alternatives, from the current level of 2.7 percent of taxable payroll to about 3.8, 7.0, 7.6, and 15.9 percent, respectively, in 2060, after having peaked at slightly higher levels around 2050. Combined OASDI and HI cost rates would follow a similar pattern, reaching 14.00, 21.42, 23.10, and 42.06 percent of taxable payroll in 2060. The combined cost rates would be less than the combined total income rates throughout the long-range period based on alternative I, but would exceed the combined total income rates for all years after 2015, based on alternatives II-A and II-B, and for all years after 1990, based on alternative III. The combined average actuarial balances for the 75-year period would be a surplus of 2.17 percent of taxable payroll on the basis of alternative I, and deficits of 1.99, 3.16, and 12.49 percent on the basis of alternatives II-A, II-B, and III, respectively.

As noted previously in this report and in the HI Annual Report, long-range estimates such as these are subject to considerable uncertainty and should be interpreted carefully. Based on alternatives II-A and II-B, however, which represent intermediate economic and demographic conditions, the combined cost of the OASDI and HI programs would significantly exceed their combined income after the turn of the century.

^{*}Cost rates for HI exclude amounts required for trust fund building and maintenance.

⁸The balance is the total income rate minus the combined OASDI and HI cost rate. Positive balances are surpluses, and negative balances are deficits.

APPENDIX F.—STATEMENT OF ACTUARIAL OPINION

It is my opinion that (1) the techniques and methodology used herein in evaluating the actuarial status of the Federal Old-Age and Survivors Insurance and Disability Insurance Trust Funds are generally accepted within the actuarial profession; and (2) the assumptions used and the resulting cost estimates are, in the aggregate, reasonable for the purpose of evaluating the financial and actuarial status of the trust funds, taking into consideration the experience and expectations of the program.

Harry C. Ballantyne,

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