Table 11.—Statement of transactions in public-debt securities for the disability insurance trust fund during the fiscal year 1961

[All amounts represent par values]

	Acquisitions	Dispositions
Public issues:		
Treasury notes:	l f	
25%-percent, series A, 1963	0	\$10,000,000
33/-percent, series C. 1962	0 1	7, 000, 000
4-percent, series B, 1963	1 0 1	5, 000, 000
Treasury bonds:	! !	
2½-percent, 1967-72	\$1,500,000	0
3½-percent, 1990	6,000,000	0
3½-percent, 1998	3, 500, 000	0
3½-percent, 1967	10,000,000	0
3%-percent, 1968	3, 750, 000	0
4-percent, 1969	1,000,000	0
Total public issues	25, 750, 000	22, 000, 000
Public-debt obligations (special issues): 1		
Certificates of indebtedness:	l 1	
2%-percent, 1961	245, 829, 000	302, 223, 000
35%-percent, 1961	381, 424, 000	381, 424, 000
334-percent, 1961	343, 947, 000	343, 947, 000
3¾-percent, 1962	34, 096, 000	010, 011, 000
4-percent, 1961	87, 885, 000	87, 885, 000
Notes:	01,000,000	01,000,000
2½-percent, 1961	0	37, 500, 000
25%-percent, 1961	ň	63, 000, 000
384-percent, 1963	19, 389, 000	00,000,000
384-percent, 1964	19, 389, 000	ŏ
3%-percent, 1965	19, 389, 000	ŏ
3%-percent, 1966	19, 389, 000	ŏ
Bonds:	10,000,000	· ·
3¾-percent, 1967	19, 389, 000	0
3¾-percent, 1968	19, 389, 000	ŏ
3¾-percent, 1969		ŏ
3¾-percent, 1970		ŏ
3%-percent, 1971		ŏ
3¾-percent, 1971	19, 389, 000	ŏ
3¾-percent, 1972	19, 389, 000	ŏ
3%-percent, 1974	19, 389, 000	ő
3%-percent, 1974	19, 389, 000	ŏ
3¾-percent, 1975		0
Total public-debt obligations	1, 497, 521, 000	1, 215, 979, 000
Total transactions	1, 523, 271, 000	1, 237, 979, 000

¹ All special issues—certificates, notes, and bonds—mature June 30 of the year shown.

EXPECTED OPERATIONS AND STATUS OF THE TRUST FUNDS DURING THE PERIOD JULY 1, 1961, TO DECEMBER 31, 1966

In the following statement of the expected operations and status of the trust funds during the period July 1, 1961, to December 31, 1966, it is assumed that present statutory provisions affecting the old-age, survivors, and disability insurance program remain unchanged throughout the period. The income and disbursements of the program, however, are affected by general economic conditions as well as by legislative provisions. Because it is difficult to foresee economic developments, the assumptions and the resulting estimates here presented are subject to some uncertainty. This statement of the expected operations of the trust funds should therefore be read with full recognition of the difficulties of estimating future trust fund income and disbursements under changing economic conditions.

Estimates are presented in table 12 to show the expected operations of the old-age and survivors insurance trust fund in fiscal years 1962-66. They are based on the assumption that economic activity will expand throughout the period, with employment and earnings increasing steadily through 1966. Figures on actual experience in

earlier fiscal years are also presented. The increase in estimated income from contributions in fiscal years 1962–66 reflects the assumed upward trend in the levels of employment and earnings as well as the effect of the several scheduled increases in contribution rates, effective on January 1 of 1962, 1963, and 1966. Benefit disbursements increase because of the recent amendments and also because of the long-range upward trend in the number of beneficiaries under the program.

Table 12.—Operations of the old-age and survivors insurance trust fund, fiscal years 1937-66

[In millions]								
	,		Transact	ions during	g period		·	
		Income		D	isbursemer			
Fiscal year	Tax contri- butions	Interest on invest- ments ²	Reimburse- ment for additional cost of noncontrib- utory credit for military service	Benefit payments	Admin- istrative expenses ³	Transfers to rail- road retire- ment account	Net increase in fund 4	Fund at end of period 4
Past experience: 1937-61 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1956	2, 106 3, 120 3, 594 4, 097 4, 589 5, 087 6, 442	\$6, 597 56 71 87 103 124 148 163 191 230 257 287 334 387 451 448 495	(3) 1 3 4 4 4	\$67, 346 64 110 149 185 240 321 426 512 607 727 1, 498 1, 982 2, 627 3, 276 4, 333 5, 361 6, 518	\$1, 910 27 27 27 27 33 27 37 41 47 53 57 70 85 89 89 103	\$1,027	\$20, 900 653 830 1, 041 1, 178 1, 167 1, 028 1, 167 1, 248 1, 263 1, 553 1, 843 1, 864 1, 766 1, 676 1, 098 1, 452	\$20, 900 2, 398 3, 227 4, 268 5, 446 6, 613 7, 641 10, 047 11, 310 12, 893 14, 736 16, 600 18, 366 20, 043 21, 141 22, 593
1957 1958 1959 1960 1961 Estimated future	6, 540 7, 267 7, 565 9, 843 11, 293	561 557 540 500 522		6, 515 7, 875 9, 049 10, 270 11, 185	150 166 206 202 236	121 583 322	436 -216 -1, 271 -712 72	23, 029 22, 813 21, 541 20, 829 20, 900
experience: 1962 1963 1964 1965 1966	11, 620 13, 506 15, 290 15, 898 17, 477	513 526 547 605 691	78 156 150 142	12, 625 13, 538 14, 157 14, 658 15, 081	254 257 262 269 279	330 365 355 345 360	-1,076 -50 1,219 1,381 2,590	19, 825 19, 774 20, 993 22, 374 24, 964

¹ Beginning December 1952, includes adjustment for refunds.

² Includes (1) net profits on marketable investments, (2) for fiscal years 1954-58, interest transferred from the railroad retirement account and, beginning in 1959, adjustment for interest transferred to the railroad retirement account, and (3) beginning in 1958, interest on administrative expenses reimbursed by the disability insurance trust fund.

NOTE.—In interpreting the estimates, reference should be made to the accompanying text which describes the underlying assumptions. Estimates were prepared in December 1961.

Aggregate income of the old-age and survivors insurance trust fund is expected to exceed aggregate outgo in the 5-year period

Ferriement account, and (3) beginning in 1958, interest on administrative expenses relinoursed by the disability insurance trust fund.

Receipts from sale of surplus materials, services, etc., are deducted from gross administrative expenses. For fiscal years 1954-64, includes cost of construction of an office building for the Bureau of Old-Age and Survivors Insurance. Beginning fiscal year 1957, expenses incurred by the Department of Health, Education, and Welfare under the disability insurance program are initially charged to the old-age and survivors insurance trust fund; reimbursements, including interest, are then made from the disability insurance trust fund in the following fiscal year.

⁴ Totals do not necessarily equal the sum of rounded components.

Less than \$500,000.

covering fiscal years 1962-66. During this period, there is an estimated net increase in the trust fund of \$4.1 billion.

Estimates consistent with those shown on a fiscal-year basis in table 12 are presented in table 13 to show the progress of the old-age and survivors insurance trust fund on a calendar-year basis. During calendar years 1961–62 the outgo of the trust fund is expected to exceed the income. With the tax rate increase scheduled to take place in 1963, total income is expected to exceed total disbursements and the upward trend in the size of the fund will be resumed.

Benefit disbursements will continue to increase over the next 5 calendar years as the number of beneficiaries under the program increases. Table 14 shows the annual amount of benefit payments

distributed by classification of beneficiaries.

Benefit payments were 5.29 percent of taxable earnings for calendar year 1960. The percentage will continue to increase until 1964 when benefit expenditures will be 6.28 percent of taxable payrolls. The percentage will then decline somewhat in 1965 and 1966 as the effect of rising taxable earnings more than offsets the gradual long-term rise in the amount of benefit payments. Figures for each of the calendar years 1940–66 are shown in table 15.

Table 13.— Operations of the old-age and survivors insurance trust fund, calendar years 1937-66

			[In mi	llions]				
		•	Transact	ions during	g period			
	Income Disbursements				Income Disbursements			
Calendar year	Tax contri- butions	Interest on invest- ments	Reimburse- ment for additional cost of noncontrib- utory credit for military service	Benefit payments	Admin- istrative expenses	Transfers to rail- road retire- ment account	Net increase in fund	Fund at end of period
Past experience: 1937-60 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953	3, 819 3, 945 5, 163	\$6, 338 56 72 88 107 134 152 164 221 146 257 417 365 414 408	\$15 	\$61, 588 88 131 166 209 274 378 466 556 667 961 1, 885 2, 194 3, 006 3, 670	\$1,764 26 28 29 29 30 40 46 51 54 61 81 88 88 88	\$704	\$20, 324 731 928 1, 132 1, 184 1, 116 1, 029 1, 210 1, 362 1, 094 1, 905 1, 818 1, 902 1, 265 1, 869	\$20, 324 2, 762 3, 683 4, 820 6, 005 7, 121 8, 150 9, 360 10, 722 11, 816 13, 721 15, 540 17, 442 18, 707 20, 576 21, 663
1955 1956 1957 1958 1959 1960 Estimated future	5, 713 6, 172 6, 825 7, 566 8, 052 10, 866	461 531 557 549 525 506		4, 968 5, 715 7, 347 8, 327 9, 842 10, 677	119 132 162 194 184 203	121 275 308	1, 087 856 -126 -528 -1, 724 184	21, 663 22, 519 22, 393 21, 864 20, 141 20, 324
experience: 1961	11, 285 12, 167 14, 601 15, 570 16, 130 18, 940	539 519 536 576 648 760	78 156 150 142 138	11, 862 13, 194 13, 857 14, 420 14, 887 15, 294	239 252 256 262 269 277	322 330 365 355 345 360	-599 -1, 012 815 1, 259 1, 419 3, 907	19, 725 18, 713 19, 528 20, 787 22, 206 26, 113

Note.—In interpreting the above experience, reference should be made to the footnotes in table 12.

Table 14.—Old-age and survivors insurance benefit payments, distributed by classification of beneficiaries, calendar years 1940-66

[In millions]

				Disburse	ed to survivo wor		d insured			
	Total	Disbursed	Disbursed Disbursed		Monthly benefits					
Calendar year	benefit disburse- ments t	to old-age beneficiar- ies	to dependents of oldage bene- ficiaries	Total 1	Aged widows, dependent widowers, and depend- ent parents	Widowed mothers, dependent divorced wives, and dependent children	Lump- sum pay- ments			
Post expersince: 2										
Past expereince: 4 1940	3, 006. 3 3, 670. 2 4, 968. 2	\$14. 8 43. 6 64. 8 79. 1 96. 6 125. 8 189. 1 244. 7 299. 9 372. 9 556. 9 1, 132. 7 1, 884. 2 2, 339. 6 3, 252. 9 3, 792. 8 4, 888. 4 5, 566. 5 6, 548. 0 7, 052. 9	\$2.4 7.6 11.4 13.9 16.9 22.3 33.2 42.9 52.2 64.5 186.1 211.6 221.1 358.4 494.9 568.5 799.4 907.4 1,059.0 1,143.3	\$6. 4 23. 6 39. 5 55. 2 73. 5 99. 6 127. 9 149. 1 171. 8 196. 6 276. 9 500. 8 591. 5 743. 5 880. 0 1, 107. 5 1, 220. 7 1, 720. 1 2, 063. 3 2, 316. 2	\$0. 5 2. 7 5. 9 9. 9 14. 6 21. 0 29. 3 38. 3 49. 4 62. 2 92. 3 164. 5 260. 2 260. 2 260. 2 2486. 1 1671. 7 777. 5 946. 1 1,085. 3	\$5. 9 20. 9 33. 7 45. 2 58. 8 78. 6 98. 7 110. 8 122. 4 134. 3 184. 6 342. 3 390. 3 483. 4 563. 0 695. 4 758. 0 849. 0 942. 7 1, 117. 2 1, 230. 9	\$11. 8 13. 3 15. 0 17. 8 22. 0 26. 1 27. 9 29. 5 32. 3 33. 2 32. 7 57. 3 63. 3 87. 5 92. 2 112. 9 109. 3 138. 8 132. 9 171. 3 164. 3			
experience: 1961	11, 862. 0 13, 194. 0 13, 857. 0 14, 420. 0 14, 887. 0 15, 294. 0	7, 803. 0 8, 683. 0 9, 078. 0 9, 416. 0 9, 691. 0 9, 922. 0	1, 229. 0 1, 401. 0 1, 459. 0 1, 506. 0 1, 535. 0 1, 561. 0	2, 654. 0 2, 918. 0 3, 116. 0 3, 286. 0 3, 443. 0 3, 588. 0	1, 261. 0 1, 475. 0 1, 594. 0 1, 712. 0 1, 828. 0 1, 941. 0	1, 393. 0 1, 443. 0 1, 522. 0 1, 574. 0 1, 615. 0 1, 647. 0	176. 0 192. 0 204. 0 212. 0 218. 0 223. 0			

 $^{^{\}rm I}$ Totals do not necessarily equal the sum of rounded components. $^{\rm 2}$ Partly estimated.

Table 15.—Old-age and survivors insurance benefit payments as a percentage 1 of taxable earnings, calendar years, 1940-66

Calendar year	Benefit pay- ments as a percentage of taxable earnings	Calendar year	Benefit payments as a percentage of taxable earnings
Pust experience: 19401941	0. 11 . 21	Past experience—Continued 19541955	2. 83 3. 26
1942 1943	. 25 . 27 . 32	1956 1957 1958	3. 48 4. 20 2 4. 77
1945 1946	. 44 . 55	1959	² 5. 02 ² 5. 29
1947 1948 1949	. 59 . 66 . 82	Estimated future experience: 1961	
1950 1951 1952	1. 10 1. 60 1. 76	1963 1964 1965	6. 26 6. 28 6. 27
1953	2. 28	1966	6. 18

¹ For years 1951 and later, percentage takes into account (1) lower contribution rate payable by the self-employed compared with combined employer-employee rate, and (2) employee contributions subject to

Preliminary, subject to revision on complete tabulation of taxable self-employment earnings for 1958-60 and of taxable wages for 1959-60.

The growth in the number of beneficiaries in the past and the expected growth in the future is attributable in large measure to the rising number of aged workers eligible for and receiving old-age (primary) benefits. This is illustrated in table 16 which contains an analysis of workers aged 65 and over eligible for old-age (primary) benefits by age attained as of the beginning of each of the calendar years 1941 through 1966.

Table 16.—Workers aged 65 and over eligible for and receiving old-age (primary) benefits, by attained age, calendar years 1941-66

			[Numb	ers in thou	ısands]				
	All workers aged 65 and over			Wor	kers aged	65-69	Workers aged 70 and over		
Beginning of calendar year	Number	Persons receiving benefits		Persons i		ersons receiving benefits		Persons receiving benefits	
caientar year	eligible for bene- fits 1	Number		eligible for bene- fits ¹	Number	Percent of number eligible	cligible for bene- fits ¹	Number	Percent of number eligible
Past experience: 1941	1, 637 1, 813 1, 990 2, 164 3, 139 3, 504 4, 366 4, 786 5, 879 6, 856 7, 538 8, 009	112 200 260 306 378 518 702 875 1, 048 1, 286 1, 771 2, 278 3, 275 4, 474 4, 474 4, 474 6, 608 7, 191 7, 704	20 29 31 30 30 35 43 48 53 59 56 65 61 67 71 76 73 79 83 85	376 445 522 608 805 805 868 930 1, 060 1, 663 1, 825 2, 260 2, 418 2, 636 2, 821 3, 203 3, 448 3, 579 3, 622 3, 764	85 134 153 156 167 212 221 271 325 380 474 721 1,055 1,300 1,518 1,744 1,742 2,257 2,475 2,475 2,475 2,475 2,644 2,795	23 29 26 24 26 31 31 35 38 44 43 52 47 54 62 59 65 69 73 74	172 235 309 408 536 664 7699 883 990 1, 476 2, 106 2, 368 2, 670 3, 053 4, 490 4, 480 5, 198	28 66 107 151 201 306 430 550 668 812 1,050 1,337 1,589 1,922 2,257 2,723 3,675 4,133 4,547 4,909	16 28 35 37 39 46 56 62 67 74 71 80 75 81 85 89 90 93
experience: 1962 1963 1964 1966	9,747 10,108 10,486	8, 256 8, 870 9, 222 9, 587 9, 933	88 91 91 91 91	3, 856 3, 909 3, 984 4, 097 4, 228	2, 956 3, 163 3, 229 3, 326 3, 434	77 81 81 81 81	5, 522 5, 838 6, 124 6, 389 6, 628	5, 300 5, 707 5, 993 6, 261 6, 499	96 98 98 98 98

¹ Figures for 1941-61 are partly estimated. No adjustments have been made to reflect changes arising from (1) provisions that coordinate the old-age, survivors, and disability insurance and the railroad retirement programs, and (2) noncontributory wage credits for military service.

² Data are as of Dec. 1, 1958.

The growth in the number of eligible workers aged 65 and over was gradual but uninterrupted during the calendar years 1941 to 1949, inclusive. This growth resulted partly from the increase in the population at these attained ages, but primarily from the fact that in each passing year a larger proportion of the persons attaining age 65 had fully insured status.

The marked increase in the number of workers eligible for benefits in 1951 was due to the liberalized insured-status provisions of the 1950 amendments to the Social Security Act. Although the same factors that contributed before 1951 to the growth in the number of eligible persons aged 65 and over have continued to be operative after

1950, the amendments during the period 1950-61 which liberalized the insured-status provisions and extended coverage to new areas of

employment have an even greater effect.

As is indicated in table 16, a considerable proportion of the workers aged 65 and over who were eligible for old-age (primary) benefits in the past remained in covered employment (or, if they left covered employment, later returned to it) and did not receive benefits. Since January 1, 1945, however, the proportion of eligible workers receiving retirement benefits has been increasing except for temporary halts due to special circumstances resulting from the amendments of 1950 In general, due to the increasing percentage of eligibles aged 72 or over who receive benefits regardless of earnings, the upward trend in this proportion is expected to continue, although at a slower rate than in the past.

The expected operations and status of the disability insurance trust fund during the next 5 fiscal years are presented in table 17 together with the figures on actual experience in earlier years. Income of the disability insurance trust fund is expected to exceed outgo by a relatively small amount in each of the 5 fiscal years 1962-66. During this 5-year period, it is estimated that the disability insurance trust fund will increase by about \$82 million and will amount to \$2,586

million on June 30, 1966.

Table 17.—Operations of the disability insurance trust fund, fiscal years 1957-66 [In millions]

	i							
	Transactions during period							
		Income		Disbursements				
Fiscal year	Tax contri- butions 1	Interest on invest- ments ²	Reimburse- ment for additional cost of noncontrib- utory credit for military service	Benefit payments	Admin- istrative expenses ³	Transfers to rail- road retire- ment account	Net increase in fund 4	Fund at end of period 4
Past experience: 1957-61. 1957- 1958- 1959. 1960. 1961. Estimated future experience: 1962.	\$4, 168 337 926 895 987 1, 022	\$159 1 16 33 48 60		\$1,740 168 339 528 704	\$103 1 12 21 32 36	-\$21 -26 5	\$2,504 337 762 568 501 337	\$2, 504 337 1, 099 1, 667 2, 167 2, 504
1963 1964 1965 1966	1, 089 1, 137 1, 186 1, 235	72 73 75 76	1 4 6 7	1, 073 1, 129 1, 182 1, 229	65 66 67 69	10 10 10 10	14 9 8 10	2, 559 2, 568 2, 576 2, 586

Adjusted for refunds.

4 Totals do not necessarily equal the sum of rounded components.

NOTE.—Reference should be made to the text which describes the underlying assumptions and limitations. Estimates were prepared in December 1961.

Includes (1) net profits on marketable investments, (2) for fiscal year 1960, interest transferred from the railroad retirement account and, beginning in 1961, adjustment for interest transferred to the railroad retirement account, and (3) beginning in 1958, adjustment for interest on administrative expenses reimbursed to the old-age and survivors insurance trust fund.

Expenses of the Department of Health, Education, and Welfare under the disability insurance program as initially observed to the old-age and survivors insurance trust fund; raimbursements including interest.

are initially charged to the old-age and survivors insurance trust fund; relimbursements, including interest, are then made from the disability insurance trust fund in the following fiscal year.

Table 18.—Operations of the disability insurance trust fund, calendar years 1957-66 [In millions]

	Transactions during period							
		Income		Di	isbursemer			
Calendar year	Tax contri- butions	Interest on invest- ments	Reimburse- ment for additional cost of noncontrib- utory credit for military service	Benefit payments	Admin- istrative expenses	Transfers to rail- road retire- ment account	Net increase in fund	Fund at end of period
Past experience: 1957-60	\$3, 568 702 966 891 1, 010	\$127 7 25 41 53		\$1, 331 57 249 457 568	\$101 3 12 50 36	-\$26 	\$2, 289 649 729 447 464	\$2, 289 649 1, 379 1, 825 2, 289
experience: 1961 1962 1963 1964 1965 1966	1, 038 1, 064 1, 110 1, 156 1, 204 1, 251	66 70 72 74 76 77	\$1 4 6 7 8	887 1, 031 1, 101 1, 155 1, 204 1, 248	64 65 66 67 69 71	5 10 10 10 10 10	148 29 9 4 4 7	2, 437 2, 466 2, 475 2, 479 2, 483 2, 490

Note.—In interpreting the above experience, reference should be made to the footnotes in table 17.

Estimates consistent with those shown on a fiscal-year basis in table 17 are presented in table 18 to show the progress of the disability

insurance trust fund on a calendar-year basis.

The total amount of benefit payments under the disability insurance program will continue to increase over the next 5 calendar years as the number of beneficiaries increases. Benefit expenditures as a percentage of payroll will also increase. Benefit payments were 0.28 percent of taxable earnings for calendar year 1960. It is estimated that, in 1961, benefit expenditures from the disability insurance trust fund will rise sharply, to 0.43 percent of payroll, as a result of removing the age 50 limitation. During 1962-66, benefit payments are expected to be about one-half percent of payroll. Figures for each of the calendar years 1957-66 are shown in table 19.

Table 19.—Disability insurance benefit payments as a percentage 1 of taxable earnings, calendar years 1957-66

Calendar year	Benefit pay- ments as a percentage of taxable earnings	Calendar year	Benefit pay- ments as a percentage of taxable earnings
Past experience: 1957	0.03 2.14 2.23 2.28	Estimated future experience—Con. 1962	0. 48 . 50 . 50 . 51 . 50

¹ Takes into account (1) lower contribution rate payable by the self-employed compared with combined employer-employee rate, and (2) employee contributions subject to refund.

1 Preliminary, subject to revision on complete tabulation of taxable self-employment earnings for 1958-60 and of taxable wages for 1959-60.

Reference has been made in earlier sections to the financial interchanges between the railroad retirement account and the two trust funds under the provisions of the Railroad Retirement Act. The estimates shown in tables 12, 13, 17, and 18 reflect the effect of future financial interchanges.

Public Law 881, approved August 1, 1956, provides that the old-age and survivors insurance trust fund, and where appropriate the disability insurance trust fund, shall be reimbursed from general revenues for past and future expenditures resulting from the provisions that granted noncontributory \$160 monthly wage credits to persons who served in the Armed Forces at some time during the period September 16, 1940, through December 31, 1956, and from the provisions enacted in 1946 that granted survivor protection to certain World War II veterans for a period of 3 years after leaving service. The arrangements for annual reimbursements are based on the following plan: The total additional costs arising from payments during the period September 1950 through June 1960 are to be amortized in annual installments over a 7-year period, the first installment of which will be paid on July 1, 1962. The Budget of the U.S. Government for the fiscal year 1963 (p. 189) makes provision for this reimbursement. The additional costs arising from payments made after June 1960 will be repaid annually on a current basis, the first such repayment to be made on July 1, 1963. The estimates shown in the various tables in this section of the report reflect the effect of these reimbursements. description of the legislative history of provisions relating to credit for military service, including the provisions for reimbursement for the additional costs arising from payments made before September 1950, is contained in appendix II.

As already indicated earlier in this section, forecasts of the income and disbursements of the trust funds involve many uncertainties. For that reason, estimates are presented in table 20 to show the effects on the operations and status of the old-age and survivors insurance trust fund in the unlikely event of a sharp reduction in the level of economic activity during calendar years 1962–66, with a relatively high rate of unemployment during the entire period. Under this assumption, contributions would be lower and benefit payments higher

than estimated above under high employment conditions.

Table 20.—Illustration showing the operations and status of the old-age and survivors insurance trust fund assuming the unlikely event of a sharply reduced level of economic activity, calendar years 1962-66

Hin	mil	lionsl

	Transactions during period							
		Income			Disbursements			
Calendar year	Tax contri- butions	Interest on invest- ments	Reimbursement for additional cost of noncontributory credit for military service	Benefit pay- ments	Admin- istrative expenses	Trans- fers to railroad retire- ment account	Net increase in fund	Fund at end of period
1962	\$11, 584 12, 795 12, 550 12, 410 14, 124	\$504 463 387 328 313	\$78 156 150 142 138	\$13, 387 14, 330 15, 024 15, 416 15, 675	\$264 267 270 275 284	\$330 375 390 400 435	-\$1, 815 -1, 558 -2, 597 -3, 211 -1, 819	\$17, 910 16, 352 13, 755 10, 544 8, 725

Note.—In interpreting the above estimates, reference should be made to the accompanying text which explains the underlying assumptions.

The lower the level of employment during the next 5 years, the larger will be the volume of benefit payments to retired workers and to their eligible dependents. Under the hypothetical lower employment conditions it is estimated that larger proportions of eligible workers would be obliged to leave employment, especially at ages 65–69. Hence, despite a slightly smaller number of eligible workers, the number receiving old-age (primary) benefits under this assumption would considerably exceed that under high employment conditions. Moreover, it is expected that the average old-age (primary) benefit amount payable would be larger inasmuch as many of the more steadily employed higher paid older workers, who would not withdraw from employment under the high employment conditions, would not be employed under these assumed conditions. The foregoing analysis also applies to insured workers aged 62–64.

On the other hand, the larger the volume of employment, the larger will be the number of workers who are insured under the program and therefore the larger will be the number of deaths which will give rise to valid claims for survivor benefits. While favorable opportunities for employment will operate to increase the number of new death claims, such a high employment situation will tend to have counterbalancing effects such as that of inducing many of the widows and older children eligible for survivor benefits to forgo them by working. Therefore, the amount paid out for survivor benefits over the short-range future will not be affected significantly by variations in economic conditions.

ACTUARIAL STATUS OF THE TRUST FUNDS

Old-age, survivors, and disability insurance benefit payments will increase for many years—not only in dollars but also as a percentage of taxable payroll. Long-range estimates are needed, therefore, to show how much the cost is likely to increase and to indicate whether the scheduled tax rates are adequate.

The cost of benefits to aged persons, which constitute almost 90 percent of the total cost, will rise for several reasons. The U.S. population will almost certainly become relatively much older on the average. A relatively older population will result because the present aged population is made up of the survivors from past periods when death rates were much higher than they are now. Also, after the turn of the century, the larger birth cohorts of the 1940's and 1950's will be attaining retirement age. Thus, in the future, relatively more persons, both in total and in each cohort, will attain age 65 and older ages.

The cost of the program is thus closely related to the ratio of the population aged 65 and over (potential beneficiaries) to the population aged 20-64 (potential contributors). At present, this ratio is 16.7 percent. In a stationary population resulting from present death rates the ratio would be 24.9 percent, but such a situation is not likely to occur within the next century. Ultimately it is expected that this ratio will become even greater because of decreases in mortality below

present rates.

Another reason for the increasing cost is that the proportion of the aged population eligible for and receiving benefits will increase. Many of the present persons aged 65 and over were not in covered employment long enough to obtain benefits, or, in the case of widows, their husbands were not sufficiently long in covered employment. Although the system began in 1937, many jobs were not covered until 1951 or 1955. It is estimated that the proportion of the aged population eligible for some type of benefit under the system will increase from the present level of about 75 percent to between 92 and 97 percent

by the end of the century.

Since the future cost of the old-age, survivors, and disability insurance program will be affected by many factors that are difficult to determine, the assumptions used in the actuarial cost estimates may differ widely and yet be reasonable. The long-range cost estimates for the program as it was changed by the 1961 amendments (shown for 1970 and thereafter) are presented here on a range basis to indicate the plausible variation in future costs depending on the actual trends that develop for the various cost factors. Both the low- and high-cost estimates are based on high economic assumptions, intended to represent close to full employment, with average annual earnings at about the level prevailing in 1959. Each estimate provides data on payroll and contributions and on beneficiaries and benefit payments for every future year. The data are presented here for selected future years. All figures are assumed to remain constant after 2050.

It is considered likely, although by no means certain, that actual costs as a percentage of payroll will lie between the low-cost and high-cost figures. Also, a single estimate of costs is needed as a guide in considering proposed legislation and developing tax schedules intended to make the system self-supporting. For these reasons, an intermediate-cost estimate is prepared, in which numbers of beneficiaries, amount of benefit payments, and payrolls are taken halfway between the low-cost and high-cost figures. The intermediate percentage-of-payroll figures are obtained by dividing total benefit payments by taxable payroll, each on the intermediate basis, and are therefore not exactly equal to the average of low-cost and high-cost

percentage-of-payroll figures.

Table A shows benefit payment costs for selected years and the level-premium cost, all expressed as percentages of payroll, under each of the three estimates. The level-premium cost is that constant combined employer-employee tax rate that, together with a tax on the self-employed at 75 percent of such combined rate, would exactly pay for all future benefits and administrative expenses, after making allowance for the effect of the existing trust fund and for future interest earnings. All percentage-of-payroll figures are adjusted so that they represent the tax rate that employees and employers combined, and the self-employed at three-quarters of the combined rate, would have to pay in any given year to meet exactly the disbursements in that year. Tables B and C show, for each set of estimates, the contributions, benefit payments, administrative expenses, amount paid to or received from the railroad retirement system, and the balance in the trust funds for selected years.

Table A.—Estimated costs of old-age, survivors, and disability insurance system as percent of payroll, high employment, and 1959 level earnings assumptions, 1970–2050

[In bereent)			
Calendar year	Low-cost estimate	High-cost estimate	Intermediate cost esti- mate 2
	Old-age and s	urvivors insur	ance benefits-
1970	7. 78 7. 96 7. 15 8. 04 10. 19	7. 37 8. 78 10. 02 10. 12 13. 30 15. 18 10. 08	7. 20 8. 27 8. 94 8. 51 10. 22 12. 13 8. 79
	Disabil	ity insurance	benefits
1970	. 41 . 39 . 39 . 45 . 49	0. 65 . 72 . 71 . 74 . 82 . 85 . 73	0. 52 . 56 . 54 . 55 . 60 . 63 . 56

¹ Taking into account the lower contribution rate for the self-employed, as compared with the combined employer-employee rate.

² Based on the average of the dollar costs under the low-cost and high-cost estimates. ³ Level-premium contribution rate, at 3.02 percent interest rate, for benefits after 1961, taking into account interest on the trust fund on Dec. 31, 1961, future administrative expenses, the railroad retirement financial interchange provisions, and the lower contribution rates payable by the self-employed.

Table B .- Estimated progress of old-age and survivors insurance trust fund, high employment and 1959 level earnings assumption, equivalent 3.02 percent interest IIn millions)

		[In millio	nsj			
Calendar year	Contri- butions	Benefit payments	Adminis- trative expenses	Financial inter- change 2	Interest on fund	Fund at end of year ?
	Actual data					
1951 1952 1963 1954 1955 1955 1956 1957 1957 1958	\$3, 367 3, 819 3, 945 5, 163 5, 713 6, 172 6, 825 7, 566 8, 052 10, 866	\$1, 885 2, 194 3, 006 3, 670 4, 968 5, 715 7, 347 8, 327 9, 842 10, 677	\$81 88 88 92 119 132 4 162 4 194 184 203	-\$124 -282 -318	\$417 365 414 468 461 531 557 552 532 516	\$15, 54(17, 442 18, 707 20, 576 21, 663 22, 519 22, 393 21, 864 20, 141 20, 324
	Low-cost estimate					
1970	\$20, 640 24, 509 29, 235 35, 050 47, 478	\$16, 588 21, 790 26, 626 28, 644 43, 665	\$230 250 292 332 472	-\$100 41 126 126 126 126	\$1, 384 2, 774 4, 524 7, 460 24, 285	\$44, 311 95, 876 155, 539 257, 577 830, 158
j			High-cost	estimate		
1970	\$20, 527 23, 492 26, 502 29, 721 33, 594	\$17, 306 23, 591 30, 352 34, 408 51, 091	\$260 290 337 379 498	-\$220 -39 46 46 46	\$1, 123 1, 847 1, 685 604 (5)	\$35, 812 62, 779 55, 409 18, 089 (8)
	Intermediate-cost estimate					
1970	\$20, 583 24, 000 27, 869 32, 386 40, 536	\$16, 945 22, 688 28, 489 31, 525 47, 376	\$245 270 315 356 485	-\$160 1 86 86 86 86	\$1, 253 2, 311 3, 106 4, 030 8, 071	\$40, 064 79, 346 105, 517 137, 779 271, 717

¹ An interest rate of 3.02 percent is used in determining the level-premium costs, but in developing the progress of the trust fund a varying rate in the early years has been used, which is equivalent to such fixed rate, when averaged over a long period of time.

² A positive figure indicates payment to the trust fund from the railroad retirement account; a negative

figure indicates the reverse.

Note.—Contributions include reimbursement for additional cost of noncontributory credit for military service.

against indicates the reverse.

3 Not including amounts in the railroad retirement account to the credit of the old-age and survivors insurance trust fund. In millions of dollars, these amounted to \$377 for 1953, \$284 for 1954, and \$163 for 1955, \$60 for 1956, and nothing for 1957 and thereafter.

4 These figures are artificially high because of the method of reimbursements between this trust fund and the disability insurance trust fund (and, likewise, the figure for 1959 is too low).

5 Fund exhausted in 2004.

Table C.—Estimated progress of disability insurance trust fund, high employment and 1959 level earnings assumptions, equivalent 3.02 percent interest basis

	(In millions]			
Calendar year	Contribu- tions	Benefit payments	Adminis- trative expenses	Interest on fund	Fund at end of year
	Actual data				
1957	\$702 966 912 1, 015	\$57 249 457 568	² \$3 ² 12 50 36	\$7 25 41 53	\$649 1, 379 1, 825 2, 289
		L	ow-cost estimat	e	
1970	\$1, 180 1, 401 1, 671 2, 004 2, 714	\$934 1, 160 1, 302 1, 573 2, 456	\$51 58 64 78 115	\$180 285 464 743 1,819	\$5, 622 9, 805 15, 986 25, 537 62, 109
		н	igh-cost estimat	e	<u> </u>
1970	\$1, 174 1, 343 1, 515 1, 699 1, 921	\$1, 525 1, 943 2, 157 2, 522 3, 148	\$55 66 71 82 97	(3) (3) (3) (3) (3)	\$1, 089 (3) (3) (3) (3) (3)
	Intermediate-cost estimate				
1970	\$1, 177 1, 372 1, 593 1, 852 2, 318	\$1, 229 1, 550 1, 730 2, 048 2, 802	\$53 62 68 80 106	\$111 75 19 (4) (4)	\$3, 354 2, 438 557 (4)

An interest rate of 3.02 percent is used in determining the level-premium costs, but in developing the progress of the trust fund a varying rate in the early years has been used, which is equivalent to such fixed rate, when averaged over a long period of time.

These figures are artifically low because of the method of reimbursements between the trust fund and the

old-age and survivors insurance trust fund (and, likewise, the figure for 1959 is too high).

Note.—Contributions include reimbursement for additional cost of noncontributory credit for military service and transfers to or from the railroad retirement account under the financial interchange provisions of the Railroad Retirement Act.

Annual benefit payments as a percentage of payroll are less than the scheduled tax rates in the early future years (with a few exceptions), but-except under the low-cost disability estimate-eventually rise to well above the ultimate scheduled combined employer-employee tax rate of 8% percent for old-age and survivors insurance and onehalf percent for disability insurance. To measure the extent to which the financing arrangements of the system result in a surplus or deficiency, a level rate equivalent to the actual increasing contribution rates has been computed, taking into account future interest. The level-premium equivalent of contributions minus the level-premium equivalent of benefit and administrative costs, after making allowance for the interest-earning effect of the existing trust fund, gives the amount by which the contribution rate in all years would have to be changed to put the system in exact long-range balance according to the estimate. A negative figure would indicate that an increase in the tax rate is needed to make the system self-supporting. However,

³ Fund exhausted in 1973. 4 Fund exhausted in 1993.

considering the variability of long-range cost estimates and certain elements of conservatism believed to be present in the estimates, small negative figures are not considered significant. The long-range balance of the system is shown by the following level-premium equivalent costs and contributions, in percentages of payroll, which are computed as of the beginning of calendar year 1962, at 3.02 percent interest (the estimated average rate corresponding to the revised method of determining the interest rate on special obligations issued to the trust funds under the provisions of the 1960 amendments.)

	cen	

Item	Low cost	High cost	Intermediate cost
	Old-age and survivors insurance		
Contributions 1	8. 56 7. 71	8. 53 10. 08	8. 55 8. 79
Net difference	. 85	-1.55	24
	Disability insurance		
Contributions 1	0.50 .42	0. 50 . 73	0. 50 . 56
Net difference	. 08	23	06

¹ Based on adjusted payroll that reflects the lower contribution rate for the self-employed as compared

with the combined employer-employee rate.

Including adjustments (a) to reflect lower contribution rate for the self-employed as compared with the combined employer-employee rate, (b) for interest on existing trust fund, (c) for administrative expenses, and (d) for the railroad retirement financial interchange provisions.

The lack of actuarial balance of the old-age and survivors insurance system under the 1961 act (0.24 percent on the intermediate-cost basis) is the same as that shown for the 1960 act in the previous report, since the cost of the liberalized benefits under the 1961 act is met by the additional financing provided. The disability insurance system has a lack of actuarial balance of 0.06 percent of payroll, which also is the same as that shown for the 1960 act, since the disability changes made by the 1961 act are relatively small and involve certain counterbalancing cost factors. The combined old-age, survivors, and disability insurance system has an actuarial deficit of 0.30 percent of payroll, which is within the margin of variation possible in actuarial cost estimates, and which is about the same as has generally prevailed in the past when the system has been considered to be in substantial actuarial balance.

If the cost estimates had been based on a higher interest rate than 3.02 percent (which is somewhat above the current average being earned by the total investments of the trust funds, although considerably below the prevailing market rate of interest on long-term Government obligations, which was about 3% percent in the last part of 1961), the lack of actuarial balance would have been considerably less than 0.30 percent of payroll. In fact, if an interest rate of 3½ percent had been hypothesized, the cost estimates would show no actuarial deficit.

If the experience exactly follows the assumptions, future computations would show a gradual increase in the actuarial lack of balance under the high-cost or intermediate-cost estimate for both the old-age and survivors insurance system and the disability insurance system, while the actuarial surplus would increase under the low-cost estimate. The reason for this is that interest accumulations increase any deficit or surplus in the system. In the case of a surplus, the excess contributions actually earn interest, while a deficit grows because of the absence of the annual interest that would have been earned if the proper contributions had been paid. With continuing study of the emerging experience under the program, there will be ample time to make any changes in the tax rate or other changes that may be

necessary to keep the system in actuarial balance. It is important to note that these estimates are made on the assumption that earnings will remain at about the level prevailing in 1959. If earnings levels rise, as they have in the past, the benefits and the taxable earnings base under the program will undoubtedly be modified. If such changes are made concurrently and proportionately with changes in general earnings levels, and if the experience follows all the other assumptions, the future year-by-year costs of the system as a percentage of taxable payroll would be the same as those shown. However, the existing trust fund accumulated in the past, and its interest earnings, will represent a smaller proportion of the future taxable payrolls than if earnings were not to increase in future years. As a result, since interest earnings of the trust fund will play a relatively smaller role in the financing of the system, the "net" levelpremium cost—taking into account benefit payments, administrative expenses, and interest on the existing trust fund-would be somewhat higher. If benefits were modified to reflect changes in earnings levels, not in full but rather only in part or with a timelag, a still different cost situation would develop. Again, the effect of such events can be observed in ample time to make any needed changes in the contribution schedule or any other changes to improve the actuarial balance of the system.

This analysis includes the benefits and contributions in respect to all persons anticipated to be covered in the future under present legisla-The actuarial deficiency would be larger if account tive provisions. were taken only of (a) the benefits to be paid to workers who have been covered by the system in the past and to their dependents and survivors, (b) the future taxes to be paid by such workers, and (c) the In a private insurance company it is necessary existing trust funds. to set up reserves equal to all currently accrued liabilities, since the company cannot compel individuals to become new policyholders and must be in a position at any time to pay all benefits that will become payable with respect to its present and past policyholders, using only its present assets and the premiums to be paid by present policy-In analyzing the actuarial condition of a compulsory social insurance system that will continue indefinitely, the income and outgo with respect to new entrants should properly be included, thus obviating the need to set up reserves for all currently accrued liabilities.

A discussion of the assumptions under which these estimates have been made is presented in appendix I. The Division of the Actuary of the Social Security Administration is now preparing new long-range cost estimates, which include revision of assumed earnings to reflect levels prevailing in 1961 and revision of basic cost factors in view of experience and trends over past years (including more recent experience). Preliminary results indicate very little change in the overall actuarial balance of the system, compared to that shown in this report.

MEDIUM-RANGE COST ESTIMATES

The preceding sections have presented both short-range cost estimates (the next 5 years) and long-range cost estimates (many decades into the future) for the old-age, survivors, and disability insurance system. The 1957-58 Advisory Council on Social Security Financing, among its recommendations, suggested that a third type of actuarial cost estimate is desirable; namely, medium-range cost estimates for the next 15 to 20 years (see 19th Trustees Report). These estimates, it was suggested, should take into account possible variations in economic factors, such as earnings and employment levels, as well as in demographic developments. The long-range cost estimates encompass the latter factors but, for the reasons given previously, do not take into account changes in such economic factors as general business conditions and earnings levels.

In the 21st Trustees Report, for the first time, such medium-range estimates were presented for the system as it existed following the 1960 The estimates covered the period through 1975.1 The medium-range estimates for the program as it is after the 1961 amendments are summarized in table D.

Table D.—Estimated progress of trust funds, high employment, and increasing earnings assumptions, equivalent 3.02 percent interest rate basis ¹ [Tan and 2112 and 12

Calendar year	Contribu- tions 2	Benefit pay- ments	Administra- tive expenses	Interest on fund	Fund at end of year	
	Old-age and survivors insurance trust fund					
1970	\$24, 445 28, 335 31, 834	\$17, 804 20, 801 24, 673	\$327 402 484	\$1,656 2,868 4,423	\$53, 715 99, 557 152, 918	
	Disability insurance trust fund					
1970	\$1,404 1,615 1,807	\$1,376 1,491 1,692	\$83 104 130	\$82 85 97	\$2, 587 2, 937 3, 403	

¹ On the same interest rate basis as used to develop the progress of the trust funds in tables B and C.

² Includes (1) reimbursements for additional cost of benefits based on noncontributory credits for military service and (2) transfers to or from the railroad retirement account under the financial interchange provisions of the Railroad Retirement Act.

A detailed statement of the economic assumptions underlying the medium-range cost estimates to 1975 has been published.² Briefly, the assumptions through 1965 are those developed in connection with the short-range projections for the 1960 amendments. After 1965, it is assumed that there is an annual increase of 3 percent in the total

¹ For more details on these medium-range cost estimates, see "Actuarial Study No. 53," Social Security

Administration, August 1961.

2 See "Economic Assumptions Underlying the Medium-Range Projections of the Federal Old-Age and Survivors Insurance and Disability Insurance Trust Funds, 1966-75," by Moses Lukaczer, Division of Program Research, Social Security Administration, August 1961.

earnings of each covered worker. Under a fixed maximum taxable earnings base, the average earnings on which contributions are collected and on which benefits are based will not rise at this assumed 3-percent annual rate; rather, the increase in average covered earnings is considerably smaller because of the dampening effect of the fixed base. This effect is well illustrated by the fact that in 1959, 80.7 percent of the total earnings of covered individuals was taxable, but that this proportion will probably drop to slightly less than 60 percent by 1975 if the earnings base remains unchanged.

The medium-range estimates, like the short-range and long-range estimates, assume no future changes in the law. However, over the period covered by the estimates, many changes will undoubtedly be made. In particular, if earnings levels rise, changes will almost certainly be made in benefit levels. The extent and timing of whatever changes are made in the law are, of course, unpredictable.

Both the medium-range and long-range cost estimates consider trends in the labor force participation rates (including increases in these rates among women and changes in these rates among persons aged 65 and over). The medium-range estimates take into consideration the business cycle conditions of the postwar type, in that their effect has been averaged out in the trend projected for the period after 1965.

The medium-range estimates of this report cover the period through 1980 and, for the period through 1966, are the same as the short-range

estimates presented previously in this report.

The results of the medium-range cost estimates are presented in table D, which shows the estimated progress over the next 20 years of the old-age and survivors insurance trust fund and the disability insurance trust fund. The old-age and survivors insurance trust fund grows steadily through the period up to 1980—reaching about \$100 billion in 1975 and \$153 billion in 1980. It is interesting to note that, according to the intermediate-cost long-range estimate, which assumes level earnings, the balance in this trust fund at the end of 1980 is about \$79 billion (see table B), or \$74 billion lower than under the medium-range estimate, which assumes rising earnings;

for 1970 the corresponding difference is \$14 billion.

It is also interesting to note that under the medium-range estimate the old-age and survivors insurance benefit disbursements in 1980 are 9 percent higher than under the long-range cost estimate, whereas the corresponding increase in the contributions is 33 percent. If the conditions assumed in the medium-range estimate actually eventuate, the actuarial balance of the system would, of course, be materially improved, but it is highly improbable that under such conditions there would be no legislation liberalizing the benefits of the program. If benefits are liberalized without provision being made for a corresponding increase in income to the system, through increased contribution rates or otherwise, the estimated size of the trust fund shown in table D would of course be smaller, beginning with the year in which the benefit liberalization took effect.

The disability insurance trust fund under the medium-range cost estimates grows only slowly throughout the period up to 1970, and then rises somewhat during the 1970's, reaching \$3.4 billion at the end of 1980. Of course, this estimated growth is subject to the same

qualification mentioned in the discussion of the progress of the old-age and survivors insurance trust fund, namely, that if benefits are liberalized without provision being made for a corresponding increase in income to the system, either through increased contribution rates or otherwise, the estimated size of the trust fund shown in table D would be smaller, beginning with the year in which the benefit liberalization took effect. It will be observed that the growth in this trust fund is shown to be somewhat smaller than in the previous report (no substantial charges were made in the disability benefit provisions by the 1961 amendments); the reason for this is a moderate upward adjustment in the estimate of benefit disbursements in the next few years of operations. In the later years of the period under consideration, the effect of the assumed rising earnings (in increasing contribution income much more rapidly than benefit outgo) more than offsets the long-term gradual rise in the number of beneficiaries.

CONCLUSION

Total assets of the old-age and survivors insurance trust fund increased by \$72 million during fiscal year 1961. Over the 5 years 1962–66 the fund is expected to increase substantially although, during the early part of this period, income of the fund will be less than outgo. Thus, the assets of the fund are expected to decline by about \$1,076 million in fiscal year 1962 and to remain about level in 1963. Beginning in 1964, the size of the fund will show substantial annual increases largely as a result of the scheduled rises in contribution rates. The disability insurance trust fund will continue to increase during the period ahead as aggregate income remains wholly sufficient to meet aggregate disbursements.

Relatively large margins of possible variation are inherent in longrange cost estimates. Such estimates are therefore the subject of continuing study and appraisal. Present long-range estimates show that the old-age, survivors, and disability insurance program is in close actuarial balance. In other words, the system will have sufficient income from contributions based on the tax schedule now in the law and from interest earned on investments to meet payments for benefits and administrative expenses for many years into the long-range future.

Under section 217(g) of the Social Security Act, as amended, the trust funds are to be reimbursed from general revenues for the additional costs (incurred after August 1950) of benefits based on noncontributory credits for military service performed at some time during the period from September 16, 1940, through December 31, 1956. However, no reimbursements have been made to date. The Board of Trustees therefore strongly recommends enactment of the first appropriation request of \$78.6 millior, contained in the 1963 Budget of the United States as submitted to Congress in January 1962.