RRB - SSA - CMS FINANCIAL INTERCHANGE

Calculations for Fiscal Year 2023 With Respect to OASI, DI, and HI Trust Funds

Summary and Documentation

72nd Determination

Prepared jointly by

U.S. RAILROAD RETIREMENT BOARD SOCIAL SECURITY ADMINISTRATION and CENTERS FOR MEDICARE & MEDICAID SERVICES

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> Compiled by U.S. RAILROAD RETIREMENT BOARD CHICAGO, ILLINOIS 2024

INTRODUCTION

The financial interchange between the railroad retirement and social security systems is intended to place the Social Security Old-Age and Survivors Insurance (OASI) and Disability Insurance (DI) Trust Funds and the Centers for Medicare and Medicaid Services Hospital Insurance (HI) Trust Fund in the same condition they would have been had railroad employment been covered by the Social Security and Federal Insurance Contributions Acts. Every year estimates are made of the additional benefits and administrative expenses that would have been paid from the Trust Funds as well as the additional payroll taxes and income taxes that would have been received by them, with allowances for interest.

This booklet documents the determination through fiscal year 2023. Included are the official determination and certification documents and a summary of the results of the determination. Exhibit 1 provides details on the benefit, administrative cost, income tax, and interest calculations for the determination. Exhibit 2 covers the payroll calculations.

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DETERMINATIONS PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

DETERMINATION PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

Pursuant to the provisions of section 7(c)(2) of the Railroad Retirement Act of 1974, as amended, the Commissioner of Social Security and the Railroad Retirement Board have determined that, as of the close of the fiscal year ended September 30, 2023, the subtraction of \$5,757,500,000 from the Federal Old-Age and Survivors Insurance Trust Fund and \$72,400,000 from the Federal Disability Insurance Trust Fund would place such Funds in the same position in which they would have been if service as an employee after December 31, 1936, covered by said Railroad Retirement Act, had been included in the term "employment" as defined in the Social Security Act and in the Federal Insurance Contributions Act.

The amount of \$5,757,500,000 for the Federal Old-Age and Survivors Insurance Trust Fund is based on expenditures of \$8,239,100,000 in benefit payments, \$14,900,000 in administrative expenses, less payroll taxes of \$2,203,400,000 and net income taxes of \$383,100,000, plus net interest of \$90,000,000. The amount of \$72,400,000 for the Federal Disability Insurance Trust Fund is based on expenditures of \$439,600,000 in benefit payments, \$4,600,000 in administrative expenses, less payroll taxes of \$374,000,000 and net income taxes of \$3,100,000, plus net interest of \$5,300,000.

It is understood by the Commissioner and the Board that the determination of the amounts specified herein is made without prejudice to settlement of any unresolved questions between the Commissioner and the Board, relative to the provisions of section 7(c)(2) of the Railroad Retirement Act, in making any subsequent determinations pursuant to such section.

IN WITNESS WHEREOF the Commissioner of Social Security and the Railroad Retirement Board, by its Secretary to the Board, have hereunto set their respective hands and caused, respectively, the seals of the Social Security Administration and the Railroad Retirement Board to be affixed.

Social Security Administration ssioner of Social Secu

Railroad Retirement Board

By

FOR THE BOARD Secretary to the Board

DETERMINATION PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

Pursuant to the provisions of section 7(c)(2) of the Railroad Retirement Act of 1974, as amended, the Secretary of Health and Human Services and the Railroad Retirement Board have determined that, as of the close of the fiscal year ended September 30, 2023, the addition of \$658,800,000 to the Federal Hospital Insurance Trust Fund would place such Fund in the same position in which it would have been if service as an employee after December 31, 1936, covered by said Railroad Retirement Act, had been included in the term "employment" as defined in the Social Security Act and in the Federal Insurance Contributions Act.

The amount of \$658,800,000 for the Federal Hospital Insurance Trust Fund is based on payroll taxes of \$639,100,000 and net income taxes of \$8,600,000, less administrative expenses of \$2,500,000, plus net interest of \$13,600,000.

It is understood by the Secretary and the Board that the determination of the amounts specified herein is made without prejudice to settlement of any unresolved questions between the Secretary and the Board, relative to the provisions of section 7(c)(2) of the Railroad Retirement Act, in making any subsequent determinations pursuant to such section.

IN WITNESS WHEREOF the Administrator of the Centers for Medicare & Medicaid Services, acting herein by virtue of authority vested in them by the Secretary of Health and Human Services, and the Railroad Retirement Board, by its Secretary to the Board, have hereunto set their respective hands and caused, respectively, the seals of the Department of Health and Human Services and the Railroad Retirement Board to be affixed.

Secretary of Health and Human Services

Administrator of the Centers for

Administrator of the Centers for Medicare & Medicaid Services

May 28, 2024 Date signed

Applying my electronic signature here is the Equivalent of my hand-written signature and certification of the contents of the reports.

Railroad Retirement Board

JILFH	ANIE	Digitally signed by STEPHANIE
By_HILLY/	ARD	Date: 2024.05.06 13:00:06 -05'00'

FOR THE BOARD Secretary to the Board

May 6, 2024

Date signed

Applying my electronic signature here is the Equivalent of my hand-written signature and certification of the contents of the reports.

CERTIFICATIONS PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

CERTIFICATION PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

Pursuant to the provisions of section 7(c)(2) of the Railroad Retirement Act of 1974, as amended, the Commissioner of Social Security and the Railroad Retirement Board have determined that, as of the close of the fiscal year ended September 30, 2023, the amount of \$5,757,500,000 if subtracted from the Federal Old-Age and Survivors Insurance Trust Fund, would place such Fund in the same position in which it would have been if service as an employee after December 31, 1936, covered by said Railroad Retirement Act, had been included in the term "employment" as defined in the Social Security Act and in the Federal Insurance Contributions Act.

The amount of \$5,757,500,000 for the Federal Old-Age and Survivors Insurance Trust Fund is based on expenditures of \$8,239,100,000 in benefit payments, \$14,900,000 in administrative expenses, less payroll taxes of \$2,203,400,000 and net income taxes of \$383,100,000, plus net interest of \$90,000,000.

The Commissioner of Social Security hereby certifies to the Secretary of the Treasury, pursuant to the provisions of such section 7(c)(2), the amount of \$5,859,775,000 including interest of \$102,275,000 for the period October 1, 2023 to the date of certification, for transfer from the Federal Old-Age and Survivors Insurance Trust Fund to the Social Security Equivalent Benefit Account.

Certified as of the 3rd day of June 2024.

IN WITNESS WHEREOF the Commissioner of Social Security has hereunto set their hand and caused the seal of the Social Security Administration to be affixed.

Social Security Administration

mmissioner of Social Security

CERTIFICATION PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

Pursuant to the provisions of section 7(c)(2) of the Railroad Retirement Act of 1974, as amended, the Commissioner of Social Security and the Railroad Retirement Board have determined that, as of the close of the fiscal year ended September 30, 2023, the amount of \$72,400,000, if subtracted from the Federal Disability Insurance Trust Fund, would place such Fund in the same position in which it would have been if service as an employee after December 31, 1936, covered by said Railroad Retirement Act, had been included in the term "employment" as defined in the Social Security Act and in the Federal Insurance Contributions Act.

The amount of \$72,400,000 for the Federal Disability Insurance Trust Fund is based on expenditures of \$439,600,000 in benefit payments, \$4,600,000 in administrative expenses, less payroll taxes of \$374,000,000 and net income taxes of \$3,100,000, plus net interest of \$5,300,000.

The Commissioner of Social Security hereby certifies to the Secretary of the Treasury, pursuant to the provisions of such section 7(c)(2), the amount of \$73,686,000, including interest of \$1,286,000 for the period October 1, 2023 to the date of certification, for transfer from the Federal Disability Insurance Trust Fund to the Social Security Equivalent Benefit Account.

Certified as of the 3rd day of June 2024.

IN WITNESS WHEREOF the Commissioner of Social Security has hereunto set their hand and caused the seal of the Social Security Administration to be affixed.

Social Security Administration sioner of Social

CERTIFICATION PURSUANT TO SECTION 7(c)(2) OF THE RAILROAD RETIREMENT ACT OF 1974, AS AMENDED

Pursuant to the provisions of section 7(c)(2) of the Railroad Retirement Act of 1974, as amended, the Secretary of Health and Human Services and the Railroad Retirement Board have determined that, as of the close of the fiscal year ended September 30, 2023, the amount of \$658,800,000, if added to the Federal Hospital Insurance Trust Fund, would place such Fund in the same position in which it would have been if service as an employee after December 31, 1936, covered by said Railroad Retirement Act, had been included in the term "employment" as defined in the Social Security Act and in the Federal Insurance Contributions Act.

The amount of \$658,800,000 for the Federal Hospital Insurance Trust Fund is based on payroll taxes of \$639,100,000 and net income taxes of \$8,600,000, less administrative expenses of \$2,500,000, plus net interest of \$13,600,000.

The Railroad Retirement Board hereby certifies to the Secretary of the Treasury, pursuant to the provisions of such section 7(c)(2), the amount of \$670,503,000, comprised of \$645,200,000 in principal, net interest of \$13,600,000 through September 30, 2023, plus \$11,703,000 in interest for the period October 1, 2023 to the date of certification, for transfer from the Social Security Equivalent Benefit Account to the Federal Hospital Insurance Trust Fund.

Certified as of the 3rd day of June 2024.

IN WITNESS WHEREOF the Secretary to the Board of the Railroad Retirement Board, acting herein by virtue of authority vested in them by the Railroad Retirement Board, has hereunto set their hand and caused the seal of the Railroad Retirement Board to be affixed.

Railroad Retirement Board

BV HILLYARD Date: 2024.05.06 12:55:36 -05'00'

FOR THE BOARD Secretary to the Board

May 6, 2024

Date signed

Applying my electronic signature here is the Equivalent of my hand-written signature and certification of the contents of the reports.

RESULTS OF DETERMINATION THROUGH FISCAL YEAR 2023

RRB-SSA-CMS Financial Interchange Results of Determination through Fiscal Year 2023

As of September 30, 2023, the Social Security Equivalent Benefit Account (Account) was due \$5,757.5 million from the OASI Trust Fund and \$72.4 million from the DI Trust Fund; \$658.8 million was due from the Account to the HI Trust Fund. With the inclusion of interest to June 3, 2024, the anticipated date of transfer, the amounts to be transferred are \$5,859,775,000 from the OASI Trust Fund, \$73,686,000 from the DI Trust Fund and \$670,503,000 to the HI Trust Fund. This will result in a net transfer of \$5,262,958,000 to the Account.

The results of the calculations, including adjustments, for fiscal year 2023 are shown below, separately for each of the trust funds:

	OASI Trust Fund	Amount (millions)
Amount du	e to Social Security Equivalent Benefit Account:	
	aber 30, 2022	\$5,516.3
Plus:	Benefit payments	8,239.1
	Administrative expenses	14.9
	Interest	150.2
Less:	Payroll taxes at OASI rates on railroad payroll	2,203.4
	Income taxes (after Treasury reconciliation)	383.1
	Transferred to Social Security Equivalent Benefit	
	Account on June 3, 2023 (principal of \$5,516.3 million,	
	plus interest of \$60.2 million)	5,576.5
Amount due	e to Social Security Equivalent Benefit Account:	
Septen	aber 30, 2023	\$5,757.5
June 3	, 2024 (including interest at 2.625 percent)	\$5,859.8

DI Trust Fund

Amount du	e to Social Security Equivalent Benefit Account:	
Septer	nber 30, 2022	\$59.1
Plus:	Benefit payments	439.6
	Administrative expenses	4.6
	Interest	5.9
Less:	Payroll taxes at DI rates on railroad payroll	374.0
	Income taxes (after Treasury reconciliation)	3.1
	Transferred to Social Security Equivalent Benefit	
	Account on June 3, 2023 (principal of \$59.1 million,	
	plus interest of \$0.6 million).	59.7
Amount du	e to Social Security Equivalent Benefit Account:	
Septer	nber 30, 2023	\$72.4
June 3	2024 (including interest at 2.625 percent)	\$73.7

	HI Trust Fund	Amount (millions)
	e to HI Trust Fund:	
Septen	nber 30, 2022	\$582.1
Plus:	Payroll taxes at HI rates on railroad payroll	639.1
	Income taxes (after Treasury reconciliation)	8.6
	Interest	19.9
Less:	Administrative expenses	2.5
	Transferred to HI Trust Fund on June 2, 2023	
	(principal of \$582.1 million, plus interest of \$6.3 million)	588.4
Amount due	e to HI Trust Fund:	
Septen	nber 30, 2023	\$658.8
	, 2024 (including interest at 2.625 percent)	\$670.5

The net payment of \$5,263.0 million due the Social Security Equivalent Benefit Account is \$215.2 million more than the previous determination. This increase consists of the following changes: increases of \$590.5 million in benefit payments, \$2.8 million in administrative costs, and \$34.5 million in interest charges, offset by increases of \$389.5 million in payroll tax revenues, and \$23.1 million in income tax revenues.

Presented below is a more detailed comparison between the current and prior determinations.

Benefit Amounts

Overall, the additional social security benefits that would have been payable if railroads had been covered by the Social Security Act increased by 7.3 percent, or \$590.5 million, to \$8,678.7 million from the previous determination amount of \$8,088.2 million. Even with a declining number of beneficiaries again this year, higher wages for more recent retirees have resulted in larger benefit awards. Furthermore, cost-of-living increases of 5.9 percent were applied to all benefits for the first 3 months in fiscal year 2023 and 8.7 percent for the last 9 months in the fiscal year.

Payroll Taxes

The combined payroll tax amount creditable to the OASDHI Trust Funds increased by 13.8 percent, or \$389.5 million, to \$3,216.5 million from the previous determination amount of \$2,827.0 million. This increase was due to higher wages including one-time retroactive pay under union contracts, a higher taxable wage limit and a higher level of average employment which increased from 188,000 in fiscal year 2022 to the preliminary level of 197,000 in fiscal year 2023.

Income Taxes

Federal income taxes credited to the OASDHI Trust Funds increased by 6.2 percent, or \$23.1 million, to \$394.8 million from the previous determination amount of \$371.7 million. The current determination reflects OASDI and HI reconciliations for 2017.

Administrative Expenses

Administrative expense reimbursements increased by 14.6 percent, or \$2.8 million, to \$22.0 million from the previous determination amount of \$19.2 million. OASI administrative expense reimbursements increased from \$13.1 million to \$14.9 million due primarily to an increase in new OASI enrollments that was offset by a decrease in unit costs. DI administrative expense reimbursements increased from \$4.2 million to \$4.6 million due to increases in new DI employee enrollments and in unit costs. HI administrative expense reimbursements increased from \$1.9 million to \$2.5 million, due to increases in new enrollments and in unit costs.

Interest Charges

Total interest charges to the OASI, DI and HI trust funds increased by \$34.5 million to \$173.6 million from the previous determination amount of \$139.1 million. This compares to a decrease in total interest charge of \$12.4 million in last year's determination. The increase was primarily due to a significant increase in interest credit rate, which increased from 1.625% to 2.625%, used to compute interest charges from the end of the fiscal year to the transfer date. The interest charges to transfer date increased by \$37.4 million to \$91.9 million this year from \$54.5 million in the prior determination, offset by a \$1.9 million decrease in interest charges on OASI, DI and HI combined during the determination year. There was also a \$1.0 million decrease in interest charges due to adjustments for previous years.

							Interest	Interest factor ⁴		Decrease in Trust
Calendar	Appropriations	Income	Benefit	Administrative	Military Service	Transfers to	First	Second	Interest Creditable	Fund Balance at
Year	(Payroll Taxes) ¹	Taxes	Payments ²	Expenses	Adjustments	SSEB Account ³	Semi-Annual %	Semi-Annual %	to SSEB Account ⁵	End of Year ⁶
	Total \$78,682.6	\$5,644.2	\$250,078.4	\$1,057.9	\$1,220.0	\$170,904.1			\$11,072.1	
1937	37.2		0.1				0.8819		(0.2)	(\$37.3)
1938	24.7		0.9				2.2607		(1.1)	(62.2)
1939	40.3		1.3				2.3651		(1.9)	(103.1)
1940	44.2		6.0	1.9			2.6680		(3.2)	(142.6)
1941	49.7		14.1	1.9			2.6440		(4.2)	(180.5)
1942	62.3		20.2	2.0			2.4610		(4.9)	(225.5)
1943	74.7		25.7	2.2			2.2530		(5.6)	(277.9)
1944	83.5		32.1	2.5			2.1450		(6.4)	(333.2)
1945	84.7		40.7	2.6			2.1010		(7.4)	(382.0)
1946	87.8		52.5	2.9			2.0470		(8.1)	(422.5)
1947	91.5		61.5	3.2			2.0240		(8.8)	(458.1)
1948	95.4		71.8	3.4			2.1150		(6.8)	(488.1)
1949	87.8		84.6	3.6			2.1620		(10.4)	(498.1)
1950	131.6		112.2	3.7			2.1520		(10.9)	(524.7)
1951	153.6		184.8	3.7			2.1510		(10.7)	(500.5)
1952	154.8		200.9	3.9			2.2050		(10.4)	(460.9)
1953	154.5		241.4	4.0			1.1200	1.1760	(9.4)	(379.4)
1954	179.6		270.6	3.6		(21.1)	1.1700	1.1150	(7.1)	(270.8)
1955	193.5		337.7	5.0		(7.4)	1.0510	1.1330	(3.9)	(118.1)
1956	208.1		371.1	4.4		(5.2)	1.1430	1.2430	(0.5)	54.0
1957	205.6		413.2	4.8		(1.6)	1.2390	1.2400	4.3	272.3
1958	178.8		451.8	5.5		124.4	1.2570	1.2470	9.3	435.7
1959	203.2		516.3	5.8		282.0	1.2740	1.2940	12.3	484.9
1960	259.0		578.6	6.1		318.4	1.2850	1.2940	12.8	505.0
1961	230.0		606.8	6.5		331.7	1.3410	1.3840	14.8	571.4
1962	236.9		640.8	6.3		360.8	1.3850	1.4080	17.2	638.0
1963	268.7		662.9	7.1		422.5	1.4160	1.4750	18.7	635.5
1964	265.6		675.5	7.3		402.6	1.5000	1.5510	20.0	670.1
1965	259.4		732.9	6.9		435.6	1.5490	1.5940	22.1	737.0

Table 1. - RRB-SSA Financial Interchange: Change in Balance of OASI Trust Fund at End of Each Calendar Year 1937-2022, and on September 30, 2023

							Interesi	Interest factor ⁴		Decrease in Trust
Calendar	Appropriations	Income	Benefit	Administrative	Military Service	Transfers to	First	Second	Interest Creditable	Fund Balance at
Year	(Payroll Taxes) ¹	Taxes	Payments ²	Expenses	Adjustments	SSEB Account ³	Semi-Annual %	Semi-Annual %	to SSEB Account ⁵	End of Year ⁶
1967	\$334.3		\$759.2	\$9.1		\$508.0	1.7750	1.9040	\$24.6	\$690.8
1968	336.6		851.7	9.8		437.6	1.9120	1.9570	27.7	805.8
1969	374.3		878.7	10.2		491.5	2.0510	2.2440	34.5	863.4
1970	366.5		1,012.7	10.6		578.8	2.3520	2.5400	43.1	984.5
1971	403.4		1,119.0	11.1		613.0	2.5140	2.5740	51.7	1,149.9
1972	441.9		1,189.7	10.8		724.3	2.5840	2.6340	58.6	1,242.8
1973	544.8		1,461.4	10.6		783.0	2.7080	2.8740	68.5	1,455.5
1974	647.3		1,581.6	11.8		908.6	2.9100	3.1530	83.5	1,576.5
1975	640.6		1,708.8	13.2		981.8	3.1670	3.2940	103.5	1,779.6
1976	707.6		1,838.2	13.1	\$47.0	1,212.3	3.2720	3.3460	112.4	1,776.4
1977	760.8		1,945.5	13.6	2.6	1,207.8	3.3650	3.4570	118.4	1,882.7
1978	795.9		2,069.1	14.0		1,588.7	3.5070	3.5370	117.2	1,698.4
1979	990.4		2,261.4	16.2		1,447.5	3.6270	3.6850	114.6	1,652.7
1980	1,089.7		2,526.5	15.0		1,442.0	4.1560	4.1810	134.6	1,797.1
1981	1,173.6		2,863.0	17.5		1,584.9	4.7750	4.9190	175.7	2,094.8
1982	1,106.9		3,167.6	19.9		1,793.3	5.0270	5.8080	238.6	2,620.7
1983	1,146.0		3,252.1	21.0		2,250.8	5.3020	5.2950	270.7	2,767.7
1984	1,303.7	\$57.0	3,370.4	21.8		2,404.0	5.1510	6.1970	284.5	2,679.7
1985	1,261.7	65.0	3,506.7	23.3		2,310.2	5.7970	5.2900	290.2	2,863.0
1986	1,235.3	68.3	3,619.0	21.4		2,585.1	5.5630	5.4800	299.1	2,913.8
1987	1,236.7	(12.0)	3,686.1	20.4		2,557.3	5.1190	4.7940	283.4	3,121.7
1988	1,289.4	4.2	3,832.6	23.2		2,790.0	4.7850	4.7740	283.3	3,177.2
1989	1,271.7	14.0	3,992.3	19.3		2,845.3	4.7436	4.6028	286.9	3,344.7
1990	1,270.5	30.5	4,182.5	18.6		2,969.3	4.5631	4.5323	298.4	3,573.9
1661	1,299.1	47.2	4,391.1	18.6		3,374.6	4.4871	4.3982	300.2	3,562.9
1992	1,329.6	53.9	4,522.8	19.1		3,148.4	4.3350	4.2187	302.3	3,875.2
1993	1,355.6	58.7	4,644.5	18.4		3,352.5	4.1602	3.9913	306.2	4,077.5
1994	1,249.5	49.4	4,693.0	17.6		3,419.6	3.9462	3.9283	317.5	4,387.1
1995	1,253.4	40.0	4,723.5	16.0	51.2	4,052.3	3.9134	3.8165	307.0	4,036.7
1996	1.285.4	55.9	4,759.8	16.8		3,554.1	3.7763	3.7618	295.6	4.213.5

Table 1. - RRB-SSA Financial Interchange: Change in Balance of OASI Trust Fund at End of Each Calendar Year 1937-2022, and on September 30, 2023 (Continued)

							Interest	Interest factor ⁴		Decrease in Trust
Calendar	Appropriations	Income	Benefit	Administrative	Military Service	Transfers to	First	Second	Interest Creditable	Fund Balance at
Year	(Payroll Taxes) ¹	Taxes	Payments ²	Expenses	Adjustments	SSEB Account ³	Semi-Annual %	Semi-Annual %	to SSEB Account ⁵	End of Year ⁶
1997	\$1,338.2	\$55.5	\$4,814.8	\$16.2		\$3,688.1	3.7287	3.6895	\$298.5	\$4,261.2
1998	1,407.9	72.1	4,824.9	14.1		3,662.2	3.6343	3.5192	288.6	4,246.6
1999	1,427.1	103.4	4,795.5	14.4		3,681.4	3.4594	3.4101	272.0	4,116.6
2000	1,413.3	124.5	4,815.2	13.2	\$326.1	3,538.2	3.4051	3.3607	259.2	3,802.1
2001	1,401.4	89.5	4,858.8	14.0		3,273.1	3.3149	3.2369	248.6	4,159.5
2002	1,388.3	106.7	4,857.5	14.6		3,493.3	3.2021	3.1118	253.6	4,296.9
2003	1,405.3	108.6	4,879.9	15.4		3,580.0	3.0557	2.8726	242.4	4,340.7
2004	1,468.8	107.3	4,863.8	14.5		3,628.1	2.8360	2.7672	227.2	4,242.0
2005	1,543.2	111.5	4,921.7	21.4		3,579.3	2.7386	2.6368	212.3	4,163.4
2006	1,592.8	124.5	5,076.6	18.1		3,458.0	2.6274	2.6119	207.3	4,290.1
2007	1,654.5	128.2	5,196.5	1.91		3,574.6	2.6010	2.5769	210.2	4,358.6
2008	1,715.4	104.2	5,289.7	18.1		3,632.3	2.5465	2.4784	206.6	4,421.1
2009	1,622.8	128.5	5,643.9	19.1		3,689.7	2.4377	2.3513	207.2	4,850.3
2010	1,634.8	151.3	5,682.9	22.1		3,929.7	2.3340	2.2338	212.3	5,051.8
2011	1,755.5	170.0	5,759.0	19.0		4,109.5	2.2167	2.1109	203.0	4,997.8
2012	1,837.0	273.8	6,046.0	18.7	154.8	4,139.2	2.0820	1.9380	185.3	4,843.0
2013	1,882.7	238.7	6,193.3	20.4		3,948.4	1.9143	1.8135	174.0	5,160.9
2014	2,035.8	243.8	6,359.1	20.3		4,257.1	1.8017	1.7191	169.0	5,172.6
2015	2,117.2	291.4	6,537.6	17.3		4,258.0	1.7046	1.6139	158.8	5,219.7
2016	1,834.9	295.2	6,617.4	20.8	228.9	4,286.9	1.6037	1.5197	154.7	5,366.7
2017	1,854.1	287.6	6,714.3	18.3		4,315.8	1.5130	1.4498	153.3	5,795.1
2018	1,971.5	288.8	6,920.2	16.9		4,768.9	1.4470	1.4274	155.1	5,858.1
2019	2,032.2	264.2	7,126.3	15.2		4,880.4	1.4182	1.3640	152.2	5,975.0
2020	1,850.5	288.5	7,293.0	15.8	409.4	4,844.0	1.3479	1.2630	148.0	6,039.4
2021	1,810.8	313.5	7,396.4	14.3		4,792.5	1.2501	1.1785	144.6	6,677.9
2022	1,971.9	360.9	7,769.6	14.6		5,315.8	1.1749	1.1507	147.8	6,961.3
2023 (9 month estimate)	1,735.6	279.9	6,261.6	11.0		5,576.5	1.1537	1.1929	115.6	5,757.5
Appropriations are net of payroll tax refunds for the calendar year.	roll tax refunds for the c_i	alendar year.								
Uncollectible benefits overpayments are included in annual benefit payments.	yments are included in ar	mual benefit paymen	its.							
· · · · · · · · · · · · · · · · · · ·										

 6 Figures in parentheses represent increases in trust fund balances at end of year.

NOTE - Detail may not add to totals shown because of rounding.

							Interest	Interest factor ⁴		Decrease in Trust
Calendar	Appropriations	Income	Benefit	Administrative	Military Service	Transfers to	First	Second	Interest Creditable	Fund Balance at
Year	(Pa)	Taxes	Payments ²	Expenses	Adjustments	SSEB Account ²	Semi-Annual %	Semi-Annual %	to SSEB Account ²	End of Y car ^o
	Total \$11,982.1	\$133.8	\$19,672.4	\$252.9	\$139.6	\$8,473.7			\$875.9	
1957	23.2		2.6	0.4			1.0830	1.1680	(0.2)	(\$20.4)
1958	22.6		19.4	0.7			1.1900	1.2240	(0.5)	(23.4)
1959	22.7		26.0	0.9		(22.0)	1.2310	1.2560	(0.2)	2.6
1960	23.8		31.8	1.1		(4.9)	1.2880	1.3160	0.3	16.9
1961	20.9		34.3	1.2		5.1	1.3840	1.4460	0.6	27.0
1962	20.7		36.5	1.3		11.0	1.4280	1.4720	0.9	34.0
1963	19.9		38.1	1.6		19.6	1.4730	1.5060	1.0	35.2
1964	19.7		39.3	2.0		19.1	1.5320	1.6030	1.2	38.9
1965	19.2		48.1	1.7		23.6	1.5930	1.7350	1.4	47.3
1966	33.0		52.1	2.0		25.0	1.8360	1.8570	1.7	45.1
1967	33.0		53.2	2.3		30.6	1.9810	2.1040	1.6	38.6
1968	48.0		59.0	2.0		20.4	1.9860	2.3090	1.5	32.7
1969	48.0		59.5	1.7		21.3	2.4080	2.6100	1.4	26.0
1970	55.1		67.8	2.6		10.4	2.7940	2.9450	1.6	32.5
1971	54.8		71.0	3.5		13.2	2.9450	2.9580	2.0	41.0
1972	60.0		75.2	2.8		24.2	2.9500	2.9520	2.0	36.8
1973	69.7		91.7	4.2		19.5	2.9960	3.0870	2.3	45.8
1974	85.1		103.4	1.9		22.3	3.1260	3.2700	2.7	46.4
1975	84.2		112.5	2.2		28.5	3.2890	3.3320	3.1	51.5
1976	93.0		123.1	2.5	28.4	26.4	3.3040	3.3450	2.7	32.0
1977	100.0		137.2	2.2	3.8	(0.3)	3.4430	3.5700	3.7	71.6
1978	143.6		146.3	2.8		29.8	3.5990	3.7240	4.3	51.6
1979	171.7		151.9	2.7		29.9	3.8690	3.9280	2.1	6.7
1980	136.1		165.0	2.5		(12.1)	4.3330	4.2770	2.7	52.9
1981	161.9		190.2	4.4		29.4	4.8340	5.0380	5.5	61.7
1982	198.0		195.7	4.4		26.4	5.5220	5.9770	6.3	43.7
1983	152.0		188.4	3.8		27.8	5.1070	5.0260	5.4	61.5
1984	126.7	1.8	186.8	2.3		21.6	5.1510	5.2820	8.9	109.4
1985	121.3	2.0	183.4	1.4		42.7	5.3420	4.9420	12.6	140.8
1986	118.8	2.1	182.5	2.3		67.7	4.9890	4.8360	14.0	151.0
1987	118.9	(1.8)	179.6	3.3		56.9	4.8620	4.5870	15.1	175.0
1988	123.6	(0.7)	187.3	3.3		61.3	4.6890	4.7030	17.0	198.4
1989	121.9	0.2	197.1	3.4		88.2	4.7092	4.6612	18.3	206.9
1990	135.7	0.3	193.8	3.8		79.9	4.6134	4.5708	18.6	207.2
1661	130 7	20	0 0 0 0			1.00	CEC3 1			0.000

Calendar Approj Year (Payrol 1992 1994 1994							Interes	Interest factor ⁴		Decrease in Trust
	Appropriations	Income	Benefit	Administrative	Military Service	Transfers to	First	Second	Interest Creditable	Fund Balance at
	(Payroll Taxes) ¹	Taxes	Payments ²	Expenses	Adjustments	SSEB Account ³	Semi-Annual %	Semi-Annual %	to SSEB Account ⁵	End of Year ⁶
1993 1994 1995	\$142.4	\$0.8	\$236.1	\$3.1		\$58.0	4.3697	4.3236	\$21.8	\$283.6
1994 1995	145.2	1.2	247.2	3.1		82.8	4.2213	4.1717	24.9	329.6
1995	223.4	1.1	248.7	3.8		106.0	4.0431	3.9940	23.8	275.4
	224.0	1.0	261.7	3.6	\$41.5	67.8	3.9499	3.3458	18.6	225.0
1996	229.7	1.2	273.2	4.9		2.2	3.3242	3.4263	17.3	287.3
1997	212.6	1.5	302.0	4.5		59.1	3.4160	3.4207	21.1	341.7
1998	223.7	1.8	314.7	6.4		156.8	3.3774	3.2997	20.7	301.2
1999	226.7	2.6	338.3	6.2		134.6	3.2486	3.2498	18.8	300.6
2000	240.0	3.5	369.7	4.4	145.0	159.4	3.2600	3.2483	16.2	143.0
2001	237.9	2.9	396.5	5.6		9.7	3.2049	3.1466	14.2	308.8
2002	235.7	3.8	441.4	4.2		153.5	3.1153	3.0480	20.4	381.8
2003	238.7	4.5	525.5	5.3		167.4	2.9995	2.8445	25.4	527.4
2004	249.4	4.9	567.8	6.5		215.4	2.8170	2.2766	29.5	661.5
2005	262.1	5.0	587.8	10.4		337.9	2.7455	2.6705	35.0	689.7
2006	270.5	5.8	630.3	9.3		388.3	2.6628	2.6440	35.0	699.7
2007	280.9	6.5	678.3	8.1		445.2	2.6336	2.6097	34.5	688.0
2008	291.2	5.4	691.4	5.4		417.6	2.5890	2.5282	34.1	704.7
2009	275.6	7.6	728.7	7.1		447.6	2.4937	2.4602	34.0	743.7
2010	277.6	7.6	739.2	6.1		461.9	2.4392	2.4164	35.3	777.2
2011	298.1	6.7	735.8	7.9		464.7	2.3802	2.3650	35.4	786.8
2012	311.9	4.4	743.2	6.7	(74.5)	511.8	2.3306	2.2930	34.5	817.6
2013	319.7	4.5	719.4	5.2		550.6	2.2281	2.2010	31.9	699.3
2014	345.7	8.0	700.1	4.4		443.7	2.2198	2.2442	28.3	634.7
2015	359.5	6.2	668.9	6.2		418.6	2.2479	2.2560	25.3	550.8
2016	433.8	6.1	625.5	4.1	0.7	375.7	1.9036	1.6935	16.0	380.1
2017	438.1	7.1	543.7	4.5		206.7	1.6224	1.5138	10.2	286.6
2018	465.9	1.3	518.3	4.3		173.5	1.5216	1.5720	9.9	175.1
2019	344.9	4.9	481.2	4.4		66.0	1.5628	1.5167	6.5	251.4
2020	314.2	4.9	433.7	2.5	(5.3)	143.8	1.4966	1.4163	6.8	236.8
2021	307.4	0.8	401.9	3.5		107.1	1.4099	1.3302	6.4	233.3
2022	334.9	4.5	388.3	4.1		155.6	1.3238	1.3121	4.7	135.4
2023 (9 month estimate)	294.7	1.2	287.1	3.1		59.7	1.3953	1.4881	2.4	72.4
Appropriations are net of payroll tax refunds for the calendar year.	inds for the cal	lendar year.								
² Tincollectible henefits overnavments are included in a mula l henefit navments	inchded in ann	uial henefĭt navmen:	ts							
Givenes in momentasses remeased amounts creditable or transferred to trust find	s creditable or	transferred to trust	find							

Table 2.-- RRB-SSA Financial Interchange: Change in Balance of DI Trust Fund at End of Each Calendar Year 1957-2022, and on September 30, 2023 (Continued)

⁵ The Social Security Equivalent Benefit (SSEB) Account replaced the Railroad Retirement Account (RRA) as the Financial Interchange depository beginning in 1984. 6 Figures in parentheses represent increases in trust fund balances at end of year.

NOTE - Detail may not add to totals shown because of rounding.

					Interest	Interest Factor ²			Increase in Trust
Calendar Year	Appropriations (Payroll Taxes) ¹	Income Taxes	Administrative Expenses	Transfers to HI Trust Fund	First Semi-Annual %	Second Semi-Annual %	Interest Creditable to HI Trust Fund ³	Tax Refunds	Fund Balance at End of Year
	Total \$20,666.0	\$29.1	\$119.9	\$21,390.9			\$1,457.8	\$18.5	
1966	33.1		0.4	16.3	2.1800	2.4200	0.5		\$16.9
1967	47.2		0.1	44.0	2.1400	2.3800	1.4	0.1	21.4
1968	60.7		0.1	54.2	2.4200	2.5200	1.7	0.4	29.5
1969	60.7		0.1	63.5	2.7100	2.8000	2.2	1.1	28.8
1970	60.3		0.1	62.9	3.0900	3.1700	2.5	0.8	25.6
1971	59.8		0.1	66.1	3.2900	3.2600	2.3	0.6	21.5
1972	65.5		0.1	63.2	3.2800	3.1600	2.4	0.8	26.1
1973	126.3		0.1	99.2	3.1800	3.2300	4.1	0.7	57.2
1974	133.2		0.1	132.5	3.3800	3.5000	6.2	1.2	64.0
1975	131.7		0.1	137.7	3.5500	3.5100	7.0	0.8	64.9
1976	145.6		0.8	142.9	3.5700	3.6000	7.6	0.6	74.4
1977	156.5		1.0	0.0	3.6200	3.7200	11.6	0.7	241.5
1978	185.8		1.2	213.7	3.5900	3.7200	16.0	0.5	228.4
1979	240.1		1.7	191.1	3.8200	3.8900	19.0	1.5	294.7
1980	253.4		1.5	244.3	4.1000	4.1700	23.7	0.9	326.0
1981	323.2		1.9	276.5	4.4900	4.8800	31.4	0.7	402.2
1982	314.3		2.5	351.4	5.0700	5.4200	38.3	0.7	400.9
1983	312.5		2.3	357.7	5.4800	5.6000	40.0	0.6	393.4
1984	326.7		2.0	350.6	5.7800	5.9300	43.3	0.5	410.8
1985	327.2		2.1	371.4	5.8900	5.6600	43.7	0.8	408.2
1986	343.8		2.1	364.4	5.1500	4.9800	38.6	0.8	424.1
1987	344.9		2.2	368.0	4.8800	4.8400	38.5	0.5	437.3
1988	338.8		2.6	363.8	4.8500	4.8200	39.6	0.9	449.3
1989	333.5		2.7	378.8	4.8200	4.7200	39.2	0.9	440.5
1990	329.1		2.5	367.4	4.7100	4.6700	38.2	0.7	437.9
1991	347.3		2.4	352.2	4.6300	4.5400	38.0	0.5	468.6
1992	363.7		2.7	374.5	4.5200	4.4200	39.3		494.4
1993	375.3		2.7	400.5	4.3900	4.2700	40.2		506.7
1994^{4}	362.6	0.0	2.7	412.9	4.2600	4.2100	38.5	0.2	492.2
1005									

					Interest	Interest Factor ²			Increase in Trust
Calendar Vear	Appropriations	Income	Administrative Evnenses	Transfers to HI Trust Fund	First Semi-Annual %	Second Semi-Annual %	Interest Creditable	ACA A diustments	Fund Balance at End of Vear
1996	(1 a J1011 1 axes) \$375 1	0.08	\$3.7	\$401.3	4 0900	4 0600	6 233 0	arrange for t	\$508.4
1997	382.2	(0.1)	3.0	419.1	4 0100	4 0100	37.2		505.6
1998	411.7	0.0	3.0	419.4	3.9800	3.9200	37.9		532.8
1999	416.4	0.0	2.8	429.9	3.8800	3.7200	38.1		554.6
2000	407.4	0.0	2.1	465.3	3.6800	3.6200	36.4		531.0
2001	397.6	(0.2)	2.4	469.7	3.5200	3.4100	32.7		489.0
2002	393.3	(0.3)	2.2	424.7	3.3400	3.2300	29.6		484.7
2003	402.8	0.2	2.4	426.3	3.1800	2.9200	27.5		486.5
2004	423.8	0.3	2.6	418.6	2.9500	2.9200	27.2		516.6
2005	447.2	0.0	3.5	444.9	2.8100	2.7000	27.0		542.4
2006	469.0	(0.4)	3.4	471.5	2.7000	2.6500	27.7		563.8
2007	488.5	(0.2)	3.5	483.3	2.6500	2.6200	28.7		594.0
2008	519.5	(0.2)	3.3	525.7	2.5900	2.5100	28.8		613.1
2009	470.9	0.0	3.3	524.3	2.4800	2.4200	27.4		583.8
2010	472.0	0.0	3.9	535.1	2.4000	2.3800	24.6		541.4
2011	517.8	0.3	3.7	477.2	2.3500	2.3700	25.2		603.8
2012	566.1	0.6	3.5	510.9	2.2900	2.2900	27.8		683.9
2013	548.1	0.7	2.5	576.6	2.2300	2.2200	28.4		682.0
2014	607.9	1.0	2.5	611.6	2.1900	2.1800	28.2		705.0
2015	624.8	1.4	2.6	594.7	2.1700	2.0900	29.6	\$1.2	764.7
2016	571.2	1.9	2.9	656.8	2.0300	1.8800	27.0	1.4	706.5
2017	576.7	1.8	2.3	637.4	1.8500	1.8100	23.6	1.7	670.6
2018	603.4	1.8	2.2	596.5	1.8200	1.7800	23.2	1.8	702.1
2019	589.5	1.5	2.2	570.3	1.7400	1.5900	23.0	2.4	746.0
2020	525.0	2.3	1.8	606.4	1.4400	0.9300	16.6	1.8	683.5
2021	521.1	3.9	1.9	568.2	0.9700	1.0100	12.2	3.0	653.6
2022	570.0	6.1	2.2	515.9	1.0800	1.3100	15.2		730.1
2023 (9 month estimate)	496.4	6.5	1.7	588.4	1.4000	1.5700	15.9		658.8

¹ Appropriations are net of payroll tax retunds for the calendar year.
² Represents rate derived from average interest carned by trust fund in indicated six month period. Interest factor applied to balance at beginning of period plus weighted net income in period.
³ Figures adjusted to allow for interest on cash transfers to trust fund, at rates shown in table, from date of transfer to end of year.

⁴ Tax refunds ceased after 1994.

NOTE - Detail may not add to totals shown because of rounding.

EXHIBIT 1 – BENEFIT, ADMINISTRATION COST, INCOME TAX, INTEREST CHARGES CALCULATIONS AND CORRESPONDENCE

Part I. Summary of Benefit, Administrative Cost, Income Tax, and Interest Charges Calculations

Benefit Calculations

The benefit calculations for each determination include estimating, from one-percent sample data, the additional benefit amounts payable on the basis of railroad employment for the calendar year ending in the fiscal year covered by the determination. A preliminary estimate is also made of the benefit amounts for the last nine months of the fiscal year. In addition, adjustments in benefit calculations for prior years are made to reflect new information or to correct processing errors.

The railroad beneficiary universe for the calendar year, to which sample amounts are inflated, consists of all accounts on which a monthly benefit was in force (payable or withheld) under the Railroad Retirement Act (RRA) for at least one month of the year and on which a monthly benefit might have been payable under Social Security Administration (SSA) eligibility conditions. Also included are those on which an SSA lump sum based on death in the year would have been payable. The corresponding one-percent sample consists of cases carried over from earlier determinations and new cases in the universe with employee SSA account number ending in the digits "30."

The sample also includes cases with employee SSA number ending in "30" of non-retired employees full retirement age and over, employees (and their auxiliaries) eligible for RRA benefits but only paid benefits by SSA, and of widows ages 60 and over not on the RRB rolls (due to election of residual payment) where SSA benefits would have been payable in the year. The universe numbers for these railroad non-beneficiaries are assumed to be 100 times the sample numbers.

For each railroad employee beneficiary in the sample, a gross benefit amount was calculated on the basis of the employee's combined railroad and social security earnings record. Appropriate reductions for benefits payable on other earnings records and for earnings received during the year were then applied. Auxiliary benefits are either computed or estimated. Beginning with the 60th determination for calendar year 2010, auxiliary benefits are only computed when there is a spouse under full retirement age whose annuity is not reduced for early retirement. For all other cases, auxiliary benefits are estimated by applying factors based on SSA experience by gender (Tables 1 and 2) to the employee's benefit amounts. The gross amounts were reduced by the amounts of actual SSA payments, to obtain net additional amounts that would be paid on the basis of railroad employment. Separate OASI and DI amounts were developed for employee disability beneficiaries who were paid actual old-age benefits by SSA.

Separate OASI life and survivor amounts were developed in cases where the employee annuitant died during the year. For all survivor cases, the gross amount is computed based on the employee's combined earnings, with reduction when needed for beneficiary earnings in the year. Survivor gross amounts are reduced for actual SSA payments based on other earnings records (in most cases the beneficiary's) to obtain the net additional OASI amounts based on railroad service.

For employees who retired after 1956 and for non-retired employees who died after 1956, actual earnings under social security annual limits have been obtained from railroad employers. For cases on the rolls before 1957, however, annual benefits before reduction for SSA payments were increased by fixed ratios according to year of accrual. (Development of the ratios is described in the Financial Interchange Summary and Documentation for Fiscal Year 1957-58, pages 135-142.) The distribution of OASI and DI sample amounts by type of benefit is shown in Table 3.

The sample and universe are stratified to improve the accuracy of the benefit estimates. The retirement beneficiary stratification is based on the employee's age in the determination year, the year their RRA annuity began and whether an RRA spouse annuity was payable. Monthly survivor beneficiary records are stratified on the basis of number of beneficiaries, type of benefit, beneficiary's age, and year of employee's death, or, if applicable, year retired employee had attained age 66. There is a single stratum for lump-sum death benefits and one for the railroad non-beneficiary group. Employee disability benefit strata are based entirely on employee's age. The composition of the 2022 strata is shown in Table 4.

Universe and sample counts were obtained for each stratum and the sample benefit payment amounts were tabulated by stratum (Tables 5 and 5a). These sample benefit payment amounts were then inflated by multiplying each stratum total by the ratio of the universe number to the sample number.

On an accrual basis, the uninflated additional OASI benefits for 2022 totaled \$78,557,964 and the inflated amount was \$7,819,146,666. The standard error of the OASI inflated amount was \$58,515,896 and the 95-percent confidence interval for the amount of OASI benefits was \$7,704,455,510 to \$7,933,837,821.

The uninflated amount of additional DI benefits accrued in 2022 was \$3,358,006. The inflated amount was \$387,967,691. The standard error of the DI inflated amount was \$10,124,115 and the 95-percent confidence interval for the amount of DI benefits was \$368,124,426 to \$407,810,956.

The preliminary estimates of additional benefit payments in January-September 2023 were made largely on the basis of the net sample amounts in current-payment status at the end of 2022. Allowances were made for lump-sum payments and the effect of family composition factors. The estimated cash amounts payable in the 9-month period were \$6,261.6 million in OASI and \$287.1 million in DI benefits. These figures will be superseded in the next determination by a calendar year 2023 estimate based on the one-percent sample.

Adjustments were made to the benefit calculations for years prior to 2022. These adjustments primarily involved the late receipt of data on benefit payments or earnings from RRB or SSA and the correction of processing errors. OASI adjustments increased benefits by \$15,790,000 for calendar years 2009-2021 and DI adjustments increased benefits by \$40,286,000 for calendar years 2014-2021.

The inflated adjustments and adjusted benefit amounts are shown by Trust Fund in Tables 6 and 6a.

The adjusted benefit payments for a year are the latest estimates of the amounts that would have been payable for that period on an accrual basis. Beginning with the 39th determination, second-degree curves are fit to annual accrued benefit amounts to estimate accrued benefit payments by month. The payments are then converted from an accrual to a cash basis by adding the estimated amount accrued in the preceding year but paid in the current year to the estimated amount both accrued and paid in the current year. These amounts are estimated from the number of lag months, i.e., the average length of time from date of accrual to payment, under SSA experience.

Beginning with the 46th determination (see Financial Interchange Summary and Documentation for Fiscal Year 1997, pages 42-46), the calculation of the float period reflects cycled benefit payments initiated by SSA. The float is the average number of days between the beginning of the month and the day on which Treasury clears funds for benefit payments. Effective June 1997, SSA began paying monthly benefits on staggered Wednesdays in the month (cycles 2 through 4) in addition to the third of the month (cycle 1). Almost all the SSA benefits paid in cycles 2 through 4 payments are to new beneficiaries, and the formula assumes all cycle 2 through 4 payments are by electronic funds transfer

(EFT). The methodology to calculate a cycled float utilizes RRB experience on the percentage of annuitants receiving payments by EFT and SSA experience on the proportion of payments made in cycle 1 versus cycles 2 through 4. Table 7 displays the calculation of the float.

Beginning with the 53rd determination (see Financial Interchange Summary and Documentation for Fiscal Year 2004, pages 36-48), benefit overpayments written off as uncollectible are included in the calculations. Table 8 displays the calculation of the uncollectible overpayment amounts included in the benefit calculations for calendar years 1999-2022.

The Financial Interchange is liable under Public Law 88-133 for crediting SSA with benefits they have paid that are associated with pre-1957 military service covered under both the RRA and SSA. These benefits paid during 1952-1972, 1973-1974, 1975-1979, 1980-1991, 1992-1997, 1998-2005, and 2006-2018 were reimbursed in the 25th, 26th, 44th, 49th, 61st, 65th, and 69th determinations, respectively. No pre-1957 military service adjustment is included in the 72nd determination.

Administrative Costs Calculations

The additional administrative expenses that would have been paid by the OASDHI Trust Funds with respect to coverage of railroad employment were estimated to total \$20.9 million for 2022 (Tables 9 and 9a). Expenses are based on unit cost factors supplied by SSA (see Correspondence) and workload estimates developed from the financial interchange one-percent sample of beneficiaries, the gross earnings one-percent sample of active railroad employees and actual RRB wage reports processing.

Beginning with the 38th determination, administrative expense calculations reflect an agreement on the treatment of dually entitled annuitants (discussed in the Financial Interchange Summary and Documentation for Fiscal Year 1986 (pages 76-95), Fiscal Year 1987 (pages 49-59) and Fiscal Year 1988 (pages 70-77)). The following discussion is a simplified explanation of how cases receiving SSA benefits are treated under the agreement.

The estimated net additional number of OASI cases for which there would have been a determination of insured status and computation of the primary insurance amount (PIA) is based on the financial interchange sample. It is 100 times the difference between (1) the number of new awards to employees and survivors where no previous FI or SSA award had been based on the account and (2) the number of accounts on the FI employee and survivor rolls on which SSA awarded benefits in the determination year.

Additional DI cases requiring determination of insured status and computation of PIA are based on the inflated number of disability freeze decisions reached in the determination year, less the number where SSA made the first freeze determination.

The number of additional cases that would have required adjudication of OASI auxiliary benefits was estimated from financial interchange sample data. It is the difference (inflated) between (1) the number of new OASI awards to spouses and children not receiving SSA benefits or to survivors who were not receiving life benefits in the month prior to the employee's death and (2) the number of aged widows (not on the RRA rolls), spouses, and children on the FI rolls who were awarded SSA benefits in the determination year.

The approximate increase in administrative costs due to the maintenance of benefit rolls is based on the number of benefits in the financial interchange sample. It is the average of the inflated number of financial interchange benefits (excluding those to individuals receiving SSA benefits) payable at the end

of the determination year and at the end of the preceding determination year.

The number of compensation reports that would have been received by SSA from railroad employers was estimated from RRB experience during the year. Included are allowances for compensation adjustments and additional reports for employees with more than one railroad employer. The cost is apportioned between the OASI, DI, and HI Trust Funds. A portion of the costs for both OASI and DI awards is charged to the HI Trust Fund as it pays the hospital insurance benefits that are charged to these accounts. This portion of the OASI and DI costs is supplied by SSA in the form of unit cost factors. Table 9 shows the 2022 OASI and DI administrative cost calculations. The 2022 HI administrative cost calculation is shown in Table 9a.

Income Tax Calculations

At the beginning of each quarter, Treasury transfers the estimated increase in tax liability to the OASI and DI Trust Funds and the Social Security Equivalent Benefit Account for benefit payments to be received during such quarters. Proper adjustments to the transfers are made whenever the actual increase in tax liability is determined.

Income tax transfers in the financial interchange are calculated as a proportion of railroad retirement Tier 1 to social security equivalent benefit income taxes. Children of life annuitants are excluded from the calculations because it can be assumed that they would have negligible tax liability. All other non-RRB annuitants (primarily widow(er)s and spouses) are assumed to have proportionate tax liability.

Beginning with the 36th determination, income tax calculations reflect prior year income tax reconciliations. Financial interchange income tax adjustments are made in the year of the Treasury reconciliation.

The Omnibus Budget Reconciliation Act of 1993 legislation raised the level of taxes imposed on Social Security beneficiaries beginning in 1994. The increased tax revenues resulting from this legislation are payable to the HI Trust Fund. The manner of financial interchange tax liability calculations and Treasury payments to the HI Trust Fund are similar to that for OASDI. Beginning with the 43rd determination, annual adjustments are calculated to equate Treasury's quarterly and adjustment payments to what they would have been had they been calculated under the financial interchange methodology.

Table 10 shows the results of the OASDI calculations for calendar years 1984-2022 and January-September 2023. Table 10a shows the results of the HI calculations for calendar years 1994-2022 and January-September 2023.

Interest Charges Calculations

Interest charges on income taxes, administrative expense, payroll taxes (including refunds), and benefits (including prior year amendments) accrue at interest rates earned by the OASI and DI Trust Funds on a semi-annual basis. The effective interest rates for the first and second halves of 2023 are 1.15374% and 1.19293% for the OASI Trust Fund, and 1.39528% and 1.48807% for the DI Trust Fund. The interest charges for the current determination reflect a cumulative interest accrual on \$15.8 million in OASI prior year benefit charges from 2009 through 2021 and \$40.3 million in DI prior year benefit credits from 2014 through 2021.

Communications

The Correspondence and Memoranda section in Part V contains letters and memoranda sent between the RRB and SSA and the RRB and CMS on financial interchange related matters.

<u>Part II.</u>

Tables Pertaining to Benefit Calculations

Table 1 Computation of Family Composition Factors and Factors for Child's Benefits for Calendar Year 2022
Applied to Male Old-Age Employees

	Social S	ecurity Data	
	(A)	(B)	(C)
		Family	Family
Age Last Birthday of	Child	Composition	Composition
Old-Age Beneficiary	Factors	Factors I	Factors II
	<u>(1)-(7)+(3)-(9)</u>	(5)+(6)	(2)-(5)+(3)+(10)-(6)
	(1)-(7)	(5)	(2)-(5)
62	1.0230		
63	1.0232		
64	1.0213		
65	1.0178	1.0152	1.0164
66	1.0147	1.0131	1.0149
67	1.0139	1.0134	1.0145
68	1.0131	1.0149	1.0138
69	1.0122	1.0132	1.0128
70	1.0102	1.0108	1.0112
71	1.0098	1.0107	1.0104
72	1.0093	1.0110	1.0098
73	1.0088	1.0108	1.0091
74	1.0084	1.0113	1.0085
75	1.0078	1.0112	1.0077
76	1.0076	1.0114	1.0074
77	1.0073	1.0124	1.0070
78	1.0070	1.0128	1.0066
79	1.0065	1.0135	1.0060
80-84	1.0059	1.0171	1.0053
85 and over	1.0045	1.0153	1.0040

NOTE - Numbers in above column formulae correspond to the columns in Table 1a, which is supplied annually by SSA.

Column (A) - Factors to be applied to amounts of male old-age benefits in area of actual life benefits.

Column (B) - Factors to be applied to amounts of male old-age benefits in area of presumptive life benefits with a spouse on the rolls.

Column (C) - Factors to be applied to amounts of male old-age benefits in area of presumptive life benefits with no spouse on the rolls.

	Ai	All old-age families		male old aged wi whether o	male old-age beneficiary with an aged wife receiving a full benefit whether or not children are present	male old-age beneficiary with an aged wife receiving a full benefit whether or not children are present	o en child	old-age beneficiarty with a wife whose entitlement is based on having an eligible child in her care and is receiving a full benefit	a a wife whose aving an eligible eiving a full benefit	
	(1) Old-ace	(2) Monthly rate	(3) Child	(4) Old-aoe	(5) Monthly rate	(6) Child	(7) Old-aoe	(8) Monthly rate	(9) Child	(10) Wife
Age	benefits	of PIA	benefits	benefits	of PIA	benefits	benefits	ofPIA	benefits	benefits
62	\$384,391,877	\$544,153,391	\$9,554,593	\$979,336	\$1,387,640	\$14,193	\$1,306,273	\$1,852,328	\$762,311	\$594,208
63	636,509,396	877,229,541	15,982,352	2,022,687	2,793,940	32,584	2,256,182	3,126,435	1,278,820	1,017,723
64	773,852,011	1,031,468,430	17,938,652	2,933,280	3,905,878	55,771	2,689,627	3,622,214	1,486,548	1,193,753
65	1,098,508,540	1,381,138,971	21,277,239	5,637,713	7,008,816	106,400	3,347,954	4,306,245	1,763,275	1,428,590
99	2,131,511,420	2,408,636,311	33,876,896	16,100,537	17,679,886	231,856	5,342,298	6,264,431	2,539,950	2,083,551
67	2,907,284,697	3,161,476,982	43,241,462	33,897,701	35,547,230	474,818	6,584,658	7,287,727	2,953,084	2,439,614
68	2,966,304,134	3,181,671,064	41,585,457	50,572,624	51,777,642	772,280	6,321,652	6,869,361	2,829,943	2,282,181
69	2,803,604,620	2,993,970,659	36,577,822	76,033,032	76,777,513	1,010,863	5,263,351	5,658,471	2,315,906	1,904,417
70	3,244,803,226	3,323,841,222	35,310,610	123,637,359	117,775,461	1,273,528	5,154,470	5,410,330	2,197,777	1,832,537
71	3,072,878,556	3,160,413,882	31,550,331	128,910,664	121,454,743	1,295,591	3,815,545	3,969,795	1,604,112	1,354,214
72	2,819,698,513	2,919,113,010	27,564,442	124,246,261	115,616,166	1,272,051	3,106,800	3,217,868	1,317,750	1,083,352
73	2,750,866,673	2,874,682,682	25,406,425	130,310,580	119,679,877	1,297,208	2,940,729	3,044,052	1,260,442	1,027,788
74	2,673,095,704	2,824,651,383	23,500,346	123,403,012	114,021,290	1,288,359	2,300,183	2,393,344	981,146	807,703
75	2,658,824,487	2,836,799,137	21,605,641	116,758,239	108,906,022	1,217,848	2,028,798	2,114,275	891,620	714,812
76	2,318,251,849	2,492,555,681	18,291,192	97,149,540	91,714,774	1,041,114	1,501,893	1,577,343	646,963	538,708
<i>LL</i>	1,796,782,835	1,940,899,568	13,553,530	68,015,355	64,876,117	805,991	1,015,943	1,062,215	447,852	354,351
78	1,705,546,439	1,855,893,610	12,288,527	58,219,501	56,288,544	721,165	748,027	793,604	320,412	275,252
62	1,673,601,452	1,834,781,947	11,205,102	51,984,277	50,827,040	688,049	730,214	782,975	316,553	269,354
80	1,535,870,745	1,688,944,230	9,986,271	41,958,570	41,742,615	635,974	541,731	568,525	229,978	194,820
81	1,286,773,040	1,417,425,200	8,044,311	32,585,701	32,673,564	530,466	439,782	472,382	202,909	157,916
82	1,114,563,073	1,227,605,597	6,670,546	26,584,420	26,969,017	488,496	274,760	298,751	126,213	100,575
83	959,232,675	1,054,855,209	5,568,968	21,128,865	21,500,140	390,722	206,677	226,119	91,040	78,451
84	866,191,565	951,209,354	4,710,069	18,229,061	18,625,415	368,023	143,722	153,097	63,136	53,599
85	733,444,204	801,936,082	3,794,504	15,319,480	15,651,677	298,477	119,867	128,517	54,491	43,510
86	602,075,622	657,982,038	2,956,981	11,950,165	12,238,598	212,036	81,858	86,779	35,972	29,384
87	512,873,355	559,957,731	2,386,918	10,323,272	10,584,931	180,895	58,245	63,091	24,822	20,375
88	429,532,415	466,054,279	1,965,574	9,641,939	9,750,307	161,495	44,401	47,113	19,392	17,084
89	350,006,062	376,754,108	1,521,850	8,546,481	8,445,331	126,540	27,911	29,731	11,454	10,994
90	306,691,401	328,782,814	1,291,797	8,171,603	7,905,414	106,955	21,824	24,109	9,597	8,574
91	247,436,861	262,920,436	1,029,756	6,873,205	6,505,017	74,279	14,062	13,988	5,536	4,985
92	201,657,776	213,577,397	794,542	5,524,044	5,166,381	57,773	17,950	18,333	6,163	6,542
93	150,144,208	158,312,703	564,674	3,948,312	3,655,853	36,280	5,658	5,184	2,332	1,622
94	115,398,496	122,038,270	452,026	2,934,795	2,756,158	37,459	4,124	4,080	1,314	1,314
95	86,368,552	91,001,918	313,866	1,896,342	1,775,853	9,574	4,176	4,611	1,891	1,891
96	59,058,522	62,295,848	201,110	1,119,173	1,055,866	11,141	3,415	3,416	1,333	1,333
76	40,801,419	42,870,451	142,810	740,669	701,729	7,271	1,664	2,067	1,161	387
98	26,736,139	28,071,958	99,848	495,638	465,280	5,097	0	0	0	0
66	16,741,959	17,447,700	50,347	269,763	256,532	2,875	1,435	1,380	577	577
100	9,945,715	10,327,116	34,021	150,755	143,977	4,261	0	0	0	
101 +	12,283,564	12,646,763	35,637	148,915	141,703	0	0	0	0	

Table 1a — Selected benefit estimates relating to male old-age (primary) beneficiary families in current-payment status on 12/31/2022

23

		le Old-Age Employees	
	Social	Security Data	
	(A)	(B)	(C)
		Family	Family
Age Last Birthday of	Child	Composition	Composition
Old-Age Beneficiary	Factors	Factors I	Factors II
	<u>(1)-(7)+(3)-(9)</u>	(5)+(6)	(2)-(5)+(3)+(10)-(6)
	(1)-(7)	(5)	(2)-(5)
62	1.0049		
63	1.0055		
64	1.0052		
65	1.0042	1.0047	1.0035
66	1.0036	1.0039	1.0034
67	1.0036	1.0040	1.0035
68	1.0034	1.0025	1.0033
69	1.0033	1.0028	1.0033
70	1.0026	1.0036	1.0027
71	1.0025	1.0029	1.0025
72	1.0023	1.0031	1.0024
73	1.0021	1.0025	1.0022
74	1.0019	1.0039	1.0020
75	1.0017	1.0021	1.0018
76	1.0017	1.0017	1.0018
77	1.0015	1.0020	1.0016
78	1.0014	1.0019	1.0015
79	1.0012	1.0010	1.0013
80-84	1.0010	1.0025	1.0011
85 and over	1.0005	1.0018	1.0007

Table 2 Computation of Family Composition Factors and Factors for Child's Benefits for Calendar Year 2022
Applied to Female Old-Age Employees

NOTE - Numbers in above column formulae correspond to the columns in Table 2a, which is supplied annually by SSA.

Column (A) - Factors to be applied to amounts of female old-age benefits in area of actual life benefits.

Column (B) - Factors to be applied to amounts of female old-age benefits in area of presumptive life benefits with a spouse on the rolls.

Column (C) - Factors to be applied to amounts of female old-age benefits in area of presumptive life benefits with no spouse on the rolls.

				remare or aged husb	remate old-age beneficiary with an aged husband receiving a full benefit	L	old en	old-age beneficiary with a husband whose entitlement is based on having an eligible	husband whose ving an eligible	
	Ali	All old-age families		whether o	whether or not children are present		chik	child in his care and is receiving a full benefit	ving a full benefit	
	(1)	(2)	(3)	(4)	(5)	(9)	(L)	(8)	(6)	(10)
-0 V	Old-age henefits	Monthly rate	Child henefits	Old-age henefits	Monthly rate of PLA	Child henefits	Old-age henefits	Monthly rate	Child henefits	Husband
62	\$337.043.208	\$462.489.825	\$1.667.540	\$472.947	\$669.138	\$2.925	\$12.664	\$17.981	\$6.596	\$6.278
63	556.214.002	740.486.029	3.094.812	1.151.912	1.595.626	6.780	18.827	26.336	10.006	9.056
2	686,485,561	876,239,867	3,559,657	2,052,691	2,756,559	15,379	32,460	44,135	17,268	16,225
65	991,920,491	1,186,018,240	4,171,469	3,652,506	4,658,560	21,693	25,337	32,999	14,261	10,688
99	1,771,691,270	1,920,209,123	6,427,790	7,565,465	8,757,906	34,317	25,333	29,453	10,716	11,286
67	2,348,297,158	2,446,624,816	8,558,657	13,919,666	15,042,206	59,931	29,382	33,003	11,478	13,360
68	2,400,787,920	2,448,185,165	8,106,904	19,687,238	20,472,571	51,396	23,199	24,762	9,354	9,354
69	2,183,643,316	2,208,281,988	7,166,269	20,702,713	21,147,757	58,432	30,320	32,536	11,943	12,618
70	2,557,714,055	2,480,354,531	6,695,180	18,035,880	17,385,407	62,529	15,252	16,077	5,904	5,417
71	2,450,663,923	2,363,572,924	6,022,187	13,194,918	12,625,860	36,935	4,289	4,648	2,255	1,059
72	2,265,702,174	2,176,423,551	5,235,042	10,353,368	9,881,378	30,646	8,260	9,041	3,063	3,861
73	2,225,399,674	2,139,605,914	4,680,561	9,116,779	8,682,422	22,125	5,877	6,285	2,201	2,671
74	2,163,544,815	2,084,247,704	4,203,321	7,505,162	7,298,089	28,312	1,596	1,597	621	621
75	2,146,925,069	2,045,270,413	3,697,991	6,116,260	6,039,415	12,494	3,549	4,287	1,792	1,792
76	1,872,362,371	1,778,166,952	3,197,801	4,940,076	4,886,611	8,397	2,367	2,697	1,011	1,011
77	1,463,029,824	1,366,118,598	2,201,667	3,416,184	3,437,175	6,775	0	0	0	
78	1,410,141,542	1,301,845,680	1,926,072	3,008,482	3,022,645	5,732	0	0	0	
79	1,398,977,582	1,278,106,121	1,702,884	2,376,628	2,426,571	2,411	0	0	0	
80	1,289,224,345	1,164,835,848	1,481,496	2,190,871	2,249,056	4,368	0	0	0	
81	1,097,303,448	983,414,539	1,244,634	1,610,169	1,648,380	7,666	0	0	0	
82	966,199,945	853,500,008	916,592	1,249,906	1,274,365	2,335	0	0	0	
83	855,114,206	738,561,574	766,863	1,127,119	1,146,890	2,537	0	0	0	
84	787,624,903	667,863,810	639,439	846,511	865,040	1,325	0	0	0	
85	684,733,630	566,230,087	557,731	663,630	671,088	300	0	0	0	
86	591,484,924	472,005,990	387,968	432,593	438,019	3,380	0	0	0	
87	524,309,708	406,587,882	284,562	339,297	330,999	0	0	0	0	
88	455,423,342	345,346,383	218,317	260,081	260,344	0	0	0	0	
89	382,264,133	285,834,583	170,638	174,291	167,654	37	0	0	0	
90	347,715,337	258,558,187	124,829	141,709	133,443	238	0	0	0	
91	293,372,823	210,432,742	107,068	107,289	102,035	0	0	0	0	
92	250,646,733	175,513,410	82,358	66,737	64,067	162	0	0	0	
93	202,965,368	139,121,131	63,812	45,867	45,060	0	0	0	0	
94	167,920,236	115,892,571	42,710	29,646	27,045	0	0	0	0	
95	134,255,383	92,575,225	38,852	19,538	17,821	0	0	0	0	
96	100,626,684	68,354,324	21,010	6,503	6,536	0	0	0	0	
76	75,304,707	51,792,239	19,676	8,932	7,992	0	0	0	0	
98	54,181,239	36,494,333	12,391	4,628	3,852	0	0	0	0	
66	36,335,286	24,249,115	11,720	3,845	3,661	0	0	0	0	
100	24,508,513	16,130,972	4,803	0	0	0	0	0	0	
101 +	39.171.938	26138236	10.038	0	0	0	0	C	C	

Table 2a — Selected benefit estimates relating to female old-age (primary) beneficiary families in current-payment status on 12/31/2022

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Table	Table 3 Analysis of Net Benefit Amounts (Uninflated) for 2022, By Type of Benefit (Accrual Basis) (in thousands)	Vet Benefit Al	mounts (Uninflated) f (in thousands)	ed) for 2022, By nds)	Type of Benet	it (Accrual Basis)			
		Total			OASI			DI	
Type of Benefit	Net Chargeable	Combined ¹ Earnings	Actual SSA Offsets	Net Chargeable	Combined ¹ Earnings	Actual SSA Offsets	Net Chargeable	Combined Earnings	Actual SSA Offsets
Total	\$81,916	\$90,453	\$8,537	\$78,558	\$86,910	\$8,352	\$3,358	\$3,543	\$185
E	20072		200 0	100 13	100 00		100		201
Kettred Employees, 1 otal	078,40	10//90	C66,6	400,1C	495,CC	00/,6	3,192	115,5	C 01
Full Rate	16,032	18,161	2,129	12,840	14,784	1,944	3,192	3,377	185
Reduced Rate	38,794	40,600	1,806	38,794	40,600	1,806			
Non-Retired Employees, Total	70	260	190	70	260	190			
Presumptives ²	I		ı	I		ı	ı		ı
Regular ³	70	260	190	70	260	190	·	I	ı
Auxiliaries of Retired Employees, Total	11,147	11,196	50	10,980	11,030	50	166	166	
Spouses, Full Rate, Full Retrement Age and Over	668	687	20	656	675	20	12	12	
Spouses, Reduced Rate	10,278	10,308	30	10,198	10,229	30	62	62	ı
Spouses, Full Rate, Under Full Retirement Age	84	2 8		77	LT L		7	7	ı
Children ⁴	117	117	·	50	50	·	68	68	
Auxiliaries of Non-Retired Employees, Total	1	1	ı	1	1	ı	ı		I
Survivors, Total	15,873	20,235	4,363	15,873	20,235	4,363			
Aged Widow(er)s, Full Rate	3,043	4,071	1,027	3,043	4,071	1,027		ı	
Aged Widow(er)s, Reduced Rate	11,336	14,445	3,109	11,336	14,445	3,109	ı	ı	·
Disabled Widow(er)s	475	591	116	475	591	116	,	ı	,
Widowed Mothers/Fathers	125	125	,	125	125	,	,	ı	,
Children and Parents	879	974	95	879	974	95		ı	
Widow(er)s Not on RRB Rolls	-	17	15	-	17	15		ı	
Lump Sum	13	13	ı	13	13	ı	I	ı	ı
¹ Includes amounts due to child and family composition factors.	factors.								
² Benefits for period between earliest retroactivity of application	pplication and date	of first payment	and date of first payment by RRB or SSA.						
³ Benefits paid by SSA, but not RRB.									
4 Actual SSA offsets under OASI were below \$500, and thus were rounded down to \$0.	nd thus were rounde	ed down to \$0.							

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NOTE: For retired employees and auxiliaries, combined earnings are after reduction for receipt of SSA benefits based on other than retired employee's earnings. SSA offsets for retired employees and auxiliaries include only payments based on retired employee's earnings. For survivors, SSA offsets are payments based on other than the employee's earnings. Detail may not add to totals shown because of rounding.

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Bit		Payable Birthday in 2022 Payable in 2022 Anno SURYTYORS INSURANCE TRUST FUND ² CUD-AGE AND SURYTYORS INSURANCE TRUST FUND ² Employee 63-65 Employee 66 or older Yes Employee 66 or older No Employee 66 or older No Aged Widow(er), Parent 62 or older No Sed Widow(er), Parent 62 or older Ed Widow(er), Parent 62 or older Sed Widow(er), Parent 62 or older Mondw(er), Parent 62 or older	Number Payable Brithday in 2022 Payable in 2022 Criterion IV 2 Employee 66 or okkr Y es Before 20 3 Employee 66 or okkr Y es 1995-199 4 Employee 66 or okkr Y es 1995-199 5 Employee 66 or okkr Y es 1995-199 6 Employee 66 or okkr Y es 2012-202 9 Employee 66 or okkr Y es 2012-202 10 Employee 66 or okkr Y es 2012-202 11 Employee 66 or okkr Y es 2012-202 12 Aged Widow(cr) 66 or okkr N os 2012-202 13 Aged Widow(cr) 66 or okkr N os 2012-202 14 Aged Widow(cr) 66 or okkr N os 2012-202 15 Aged Widow(cr) 10 10 1097-203 16 Aged Widow(cr) 10 10 1097-203 16	
CID-AGG AND SURVIYORS INSURANCE TRUST FUND ² Employee 6.2-65 - Employee 6.6 or okkr Yes Employee 6.6 or okkr No Aged Widow(er), Parent 6.2 or okkr No Aged Widow(er), Parent 6.2 or okkr No Aged Widow(er), Parent 6.2 or okkr - Age		<u>OID-AGE AND SURVIVORS INSURANCE TRUND</u> Employee 60-65 — Before 2023 Employee 66 or older Yes 1992-1997 Employee 66 or older Yes 1992-1997 Employee 66 or older Yes 2004-2011 Employee 66 or older Yes 2004-2011 Employee 66 or older No 1992-1997 Employee 66 or older No 1992-1997 Employee 66 or older No 1992-1997 Employee 66 or older No 2012-2022 Employee 66 or older No 2012-2022 Aged Widow(cr) Beret 2012-2022 Employee 66 or older No 2012-2022 Aged Widow(cr) Beret 2012-2022 Employee 66 or older No 2012-2022 Aged Widow(cr) Beret 2012-2022 Employee 66 or older No 2012-2022 Aged Widow(cr), Parent 62 or older No 2012-2022 Employee 62 or older <t< th=""><th>OLD-AGE AND SURVINORS INSURANCE TRUIST FUND: 1 Employee 62-65 Before 20 2 Employee 66 or okkr Yes D992-109 3 Employee 66 or okkr Yes D992-109 4 Employee 66 or okkr Yes D992-109 5 Employee 66 or okkr Yes D092-209 6 Employee 66 or okkr Yes D092-209 10 Employee 66 or okkr No D992-109 11 Employee 66 or okkr No D992-109 12 Aged Widow(cr) 66 or okkr No D092-200 13 Aged Widow(cr) Bertor D07-200 D07-200 14 Aged Widow(cr) Bertor D07-200 D07-200 15 Aged Widow(cr) Bertor D07-200 D07-200 16 Aged Widow(cr) Bertor D07-200 D07-200 17 Aged Widow(cr) Bertor D07-200 D07-200 18 Aged Widow(cr) Bertor D07-200 D07-200 19 Aged Widow(cr) Bertor D07-200 D07-200 10 Aged Widow(cr) Bertor</th><th></th></t<>	OLD-AGE AND SURVINORS INSURANCE TRUIST FUND: 1 Employee 62-65 Before 20 2 Employee 66 or okkr Yes D992-109 3 Employee 66 or okkr Yes D992-109 4 Employee 66 or okkr Yes D992-109 5 Employee 66 or okkr Yes D092-209 6 Employee 66 or okkr Yes D092-209 10 Employee 66 or okkr No D992-109 11 Employee 66 or okkr No D992-109 12 Aged Widow(cr) 66 or okkr No D092-200 13 Aged Widow(cr) Bertor D07-200 D07-200 14 Aged Widow(cr) Bertor D07-200 D07-200 15 Aged Widow(cr) Bertor D07-200 D07-200 16 Aged Widow(cr) Bertor D07-200 D07-200 17 Aged Widow(cr) Bertor D07-200 D07-200 18 Aged Widow(cr) Bertor D07-200 D07-200 19 Aged Widow(cr) Bertor D07-200 D07-200 10 Aged Widow(cr) Bertor	
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Employee Disability 55-59	Employee Disability 55-59 Employee Disability Under 55	3 Employee Disability 55-59	3 Employee Disability 55-59 4 Employee Disability Under 55 nployee benefits, employee amuity accrual year; for monthly survivor benefits, year employee attained age 66, where employe tage 66 or older; in all other cases year of employee death.	
	Employee Disability Under 55	4 Employee Disability Under 55 ployee benefits, employee amuity accrual year; for monthly survivor benefits, year employee attained age 66, where employee had retired and age 66 or older; in all other cases year of employee death.	4 Employee Disability Under 55	
Under 55	متراسية ومراجع والمستريب والمسارية والمسارية والمستريب والمستريب والمستريب والمسترير والمسترير والمسترين والم	ployee benefits, employee annuity accrual year; for monthly survivor benefits, year employee attained age 66, where employee had retired and age 66 or older; in all other cases year of employee death. :s all interim widow(er) benefits, survivor-option annuities, and other survivor benefits based on deaths before April 1938.	nployee benefits, employee annuity accrual year; for monthly survivor benefits, year employee attained age 66, where employe t age 66 or older; in all other cases year of employee death. des all interim widow(er) benefits, survivor-option annuities, and other survivor benefits based on deaths before April 1938.	
³ Employee death in 2022, the determination year, without regard to employee's age or annuity accrual date.	death in 2022, the determination year, without regard to employee's age or annuity accrual date.		Non-retired employees at full retirement age and older, employees (and their auxiliaries) with 10 or more years of railroad service (or 5 or more years of railroad service (or 5 or more years of railroad service) and service is a service of the s	r 5 or more years of

Stratum	Universe	Sample	Sum of	Sum of Squares of
Number ¹	Number	Number	Net Benefit Amounts	Net Benefit Amounts
i	N_i	n_i	$\sum_{j=1}^{n_i} X_{ij}$	$\sum_{j=1}^{n_i} X_{ij}^2$
Total ²	344,928	3,448	\$78,557,964	\$2,334,623,463,671
1	18,842	191	4,578,136	133,642,984,707
2	4,816	47	995,018	24,561,294,570
3	11,295	112	2,702,691	74,846,999,738
4	23,594	241	7,091,213	237,072,257,241
5	49,991	528	16,155,592	566,360,537,070
6	46,504	478	15,610,277	576,259,500,336
7	7,012	67	1,007,684	18,925,778,612
8	10,308	105	1,813,651	37,138,637,641
9	14,208	129	2,634,087	61,587,926,660
10	23,509	223	4,603,052	111,490,765,360
11	27,540	257	5,422,892	136,362,765,744
12	657	12	194,472	4,026,803,022
13	2,438	23	169,073	2,044,995,021
14	6,341	63	852,177	15,209,800,847
15	25,349	268	3,611,766	67,033,517,478
16	14,466	148	2,011,547	40,724,042,965
17	12,959	131	2,231,342	49,173,337,468
18	11,927	111	1,903,586	45,623,275,762
19	12,991	134	2,622,118	66,435,607,792
20	4,511	38	418,721	6,235,191,655
21	3,258	35	489,209	8,678,566,407
22	5,411	42	1,354,378	50,384,320,510
23	5,601	51	13,005	
24	1,400	14	72,277	804,557,064

Table 5. -- Basic Data Used to Compute Inflated Amount of OASI Benefits and Sampling Error, 2022

^{1.} For description of strata, see Table 4.

^{2.} Universe and sample numbers exclude 2,283 and 22 retirement annuities, respectively, from a group that consists almost entirely of non-disabled annuitants under age 62.

NOTE: The inflated amount, A, of the benefits and the sample error, S_a , of the inflated amount are computed from the following formulas:

$$A = \sum_{i=1}^{24} \frac{N_i}{n_i} * \sum_{j=1}^{n_i} x_{ij}$$
$$s_a^2 = \sum_{i=1}^{24} \frac{N_i(N_i - n_i)}{n_i^2(n_i - 1)} \left[n_i \sum_{j=1}^{n_i} x_{ij}^2 - \left(\sum_{j=1}^{n_i} x_{ij} \right)^2 \right]$$

where x_{ij} is the benefit amount for the jth individual in the ith stratum and the remaining symbols are defined by the table caption headings. Detail may not add to totals shown because of rounding.
Stratum	Universe	Sample	Sum of	Sum of Squares of
Number ¹	Number	Number	Net Benefit Amounts	Net Benefit Amounts
i	N_i	n_i	$\sum_{j=1}^{n_i} X_{ij}$	$\sum_{j=1}^{n_i} X_{ij}^2$
Total ²	13,736	119	\$3,358,006	\$102,154,518,042
1	5,281	45	1,236,639	37,517,540,793
2	3,619	36	1,010,286	29,206,968,374
3	2,369	17	491,563	14,559,283,007
4	2,467	21	619,518	20,870,725,868

 Table 5a. -- Basic Data Used to Compute Inflated Amount of DI Benefits and Sampling Error, 2022

^{1.} For description of strata, see Table 4.

^{2.} Universe and sample exclude 6,474 and 68 disability annuities, respectively, composed largely of annuitants denied a disability freeze. Of these, 3,177 and 36, respectively, were annuitants ages 62 to 66 who were included in the OASI strata.

NOTE: The inflated amount, A, of the benefits and the sample error, S_a , of the inflated amount are computed from the following formulas:

$$A = \sum_{i=1}^{4} \frac{N_i}{n_i} * \sum_{j=1}^{n_i} x_{ij}$$
$$s_a^2 = \sum_{i=1}^{4} \frac{N_i (N_i - n_i)}{n_i^2 (n_i - 1)} \left[n_i \sum_{j=1}^{n_i} x_{ij}^2 - \left(\sum_{j=1}^{n_i} x_{ij} \right)^2 \right]$$

where x_{ij} is the benefit amount for the jth individual in the ith stratum and the remaining symbols are defined by the table caption headings. Detail may not add to totals shown because of rounding.

		Benefit Payments		
		Before Adjustments		Adjusted Benefi
Year		(Accrual Basis)	Adjustments ¹	Payments
	Total	\$244,480,966,582	\$15,790,373	\$244,496,756,955
1937-1970 ²		11,739,327,167		11,739,327,167
1971		1,128,570,194		1,128,570,194
1971				
		1,210,965,811		1,210,965,811
1973		1,471,457,246		1,471,457,246
1974		1,590,141,425		1,590,141,425
1975		1,724,239,005		1,724,239,005
1976		1,845,392,953		1,845,392,953
1977		1,955,837,142		1,955,837,142
1978		2,079,934,396		2,079,934,396
1979		2,281,435,049		2,281,435,049
1980		2,552,252,439		2,552,252,439
1981		2,892,694,764		2,892,694,764
1982		3,187,533,843		3,187,533,843
1983		3,257,653,071		3,257,653,071
1984		3,383,732,525		3,383,732,525
1985		3,515,602,903		3,515,602,903
1986		3,623,833,354		3,623,833,354
1987		3,700,591,036		3,700,591,036
1987		3,843,574,962		3,843,574,962
		4,009,931,952		
1989		, , , ,		4,009,931,952
1990		4,199,908,201		4,199,908,201
1991		4,402,929,123		4,402,929,123
1992		4,531,315,765		4,531,315,765
1993		4,653,171,768		4,653,171,768
1994		4,694,292,958		4,694,292,958
1995		4,726,567,302		4,726,567,302
1996		4,764,123,499		4,764,123,499
1997		4,816,342,931		4,816,342,931
1998		4,822,083,266		4,822,083,266
1999		4,796,326,324		4,796,326,324
2000		4,819,460,800		4,819,460,800
2001		4,850,024,182		4,850,024,182
2002		4,855,336,824		4,855,336,824
2003		4,884,879,826		4,884,879,826
2004		4,860,655,159		4,860,655,159
2005		4,937,162,494		4,937,162,494
2005		5,084,038,021		5,084,038,021
2000		5,203,855,693		5,203,855,693
2007		5,313,593,746		5,313,593,746
			(800.852)	
2009		5,650,794,161	(809,852)	5,649,984,309
2010		5,684,790,803	(858,908)	5,683,931,895
2011		5,786,083,897	(883,362)	5,785,200,535
2012		6,059,020,976	(923,660)	6,058,097,316
2013		6,205,694,070	(891,135)	6,204,802,935
2014		6,375,804,308	(1,118,286)	6,374,686,022
2015		6,542,924,703	(1,021,296)	6,541,903,407
2016		6,626,670,639	(437,889)	6,626,232,750
2017		6,730,941,810	(234,818)	6,730,706,992
2018		6,940,253,112	840,899	6,941,094,011
2019		7,132,953,203	1,881,462	7,134,834,665
2019		7,300,035,901	7,475,858	7,307,511,759
2020		7,415,083,214	12,771,360	7,427,854,574
2021		7,819,146,666		7,819,146,666

Table 6. -- OASI Benefit Payments, 1937-2022, Including Adjustments, on an Accrual Basis

¹ Includes revision of work deduction amounts and adjustments based on information received subsequent to the previous determination.

 2 Data for years 1937-1970 are not shown separately as they are not adjusted in this determination.

		Benefit Payments		
		Before Adjustments		Adjusted Benefi
Year		(Accrual Basis)	Adjustments ¹	Payments
	Total	\$19,366,641,749	\$40,285,902	\$19,406,927,651
1957-1988 ²		3,259,212,386		3,259,212,386
1989		197,808,413		197,808,413
1990		193,549,099		193,549,099
1991		220,959,582		220,959,582
1992		236,428,705		236,428,705
1993		248,711,444		248,711,444
1994		248,241,221		248,241,221
1995		264,253,680		264,253,680
1996		273,960,615		273,960,615
1997		305,988,787		305,988,787
1998		314,356,909		314,356,909
1999		341,730,308		341,730,308
2000		371,011,014		371,011,014
2001		398,667,514		398,667,514
2002		446,908,210		446,908,210
2003		534,251,811		534,251,811
2004		566,765,951		566,765,951
2005		591,239,641		591,239,641
2006		633,338,928		633,338,928
2007		681,521,390		681,521,390
2008		691,173,185		691,173,185
2009		730,077,531		730,077,531
2010		738,159,883		738,159,883
2011		736,004,195		736,004,195
2012		741,137,800		741,137,800
2013		715,777,195		715,777,195
2014		697,701,193	386	697,701,579
2015		662,589,532	1,148	662,590,680
2016		620,484,109	1,271	620,485,380
2017		533,952,390	278,487	534,230,877
2018		513,509,456	6,246,940	519,756,396
2019		468,956,508	3,586,083	472,542,591
2020		415,749,408	15,501,561	431,250,969
2021		384,496,064	14,670,026	399,166,090
2022		387,967,691		387,967,691

Table 6a. -- DI Benefit Payments, 1957-2022, Including Adjustments, on an Accrual Basis

¹ Includes revision of work deduction amounts and adjustments based on information received subsequent to the previous determination.

 2 Data for years 1957-1988 are not shown separately as they are not adjusted in this determination.

					È				Cycle 1-4	Cycle 1-4 Payments	2				0	91-11				
					Furst	st Half									Second Half	I Half				
				J	Cycle 1			Cycles 2-4	Combined	ined				Cycle	le 1		<u> </u>	Cycles 2-4	Combined	ned
	RRB EFT	Percentage	ntage	EFT	EFT PCT	EFT	Check		Float	at	RRB EFT	Percentage	ntage	EFT PCT	PCT	EFT	Check		Float	t
Year	PCT	OASI	DI	OASI	DI	Float	Float	Float	OASI	DI	PCT	OASI	DI	OASI	DI	Float	Float	Float	OASI	DI
1997	63.60%	100.00% 100.00%	100.00%	63.60%	63.60%	2.8333	7.6333		4.5805	4.5805	66.30%	99.29%	99.47%	66.06%	66.12%	2.6667	8.1000	17.4339	4.6025	4.5760
1998	68.90%	97.38%	97.31%	68.06%	68.04%	2.5000	7.8333	18.2673	4.5718	4.5828	71.50%	95.35%	94.39%	70.11%	69.81%	2.6667	8.1333	17.4339	4.9114	5.0531
1999	74.20%	93.34%	91.37%	72.36%	71.76%	2.3333	7.7667	18.4339	4.8067	5.1246	75.20%	91.14%	88.11%	72.79%	71.85%	2.5000	8.3000	17.7673	5.2904	5.7536
2000	76.20%	88.87%	85.00%	73.22%	72.00%	2.8333	7.7667	17.9339	5.6883	6.2728	77.00%	85.57%	82.20%	73.12%	72.02%	2.3333	8.1000	18.1006	5.9350	6.4663
2001	77.70%	83.21%	79.38%	73.20%	71.91%	2.3333	7.8000	18.9339	6.3404	6.9760	78.80%	81.06%	76.97%	73.85%	72.46%	2.3333	8.1000	18.2673	6.5735	7.2252
2002	80.90%	78.82%	74.33%	75.77%	74.30%	2.3333	7.6000	17.9339	6.6432	7.3440	81.70%	76.64%	72.06%	76.12%	74.60%	2.5000	8.0000	18.3768	7.2153	7.9428
2003	82.20%	74.55%	70.21%	76.12%	74.65%	2.8333	7.6333	18.1006	7.5731	8.2365	82.90%	72.43%	68.26%	76.39%	74.95%	2.6667	8.1000	17.4339	7.6666	8.2822
2004	83.60%	70.28%	66.68%	76.67%	75.41%	2.6667	7.8000	18.7673	8.2932	8.8730	84.10%	68.29%	65.52%	76.72%	75.73%	2.5000	8.3000	17.7673	8.2635	8.6864
2005	84.80%	66.05%	64.35%	76.99%	76.38%	2.6667	7.8000	17.4339	8.4597	8.7120	85.30%	64.13%	63.29%	77.08%	76.77%	2.3333	7.9333	19.1006	9.1709	9.3114
2006	85.90%	62.05%	62.39%	77.28%	77.40%	2.8333	7.9667	17.6006	9.1610	9.1114	86.40%	60.27%	62.11%	77.43%	78.10%	2.3333	8.1000	18.1006	9.3820	9.0922
2007	87.00%	58.30%	61.26%	77.70%	78.78%	2.3333	7.8000	18.9339	9.9660	9.4751	87.50%	56.61%	61.31%	77.92%	79.61%	2.3333	8.1000	18.2673	9.9672	9.2190
2008	87.90%	54.72%	60.44%	77.89%	79.98%	2.5000	7.6333	18.4339	10.3358	9.4242	88.40%	52.90%	59.97%	78.07%	80.66%	2.6667	8.1000	17.4339	10.2529	9.2087
2009	%00.68	51.00%	59.58%	78.43%	81.54%	2.5000	7.8333	18.2673	10.8124	9.4597	89.60%	49.05%	59.05%	78.80%	82.39%	2.6667	8.1333	17.5459	10.8169	9.3290
2010	90.10%	47.24%	58.37%	79.04%	83.04%	2.3333	7.7667	18.4339	11.3665	9.5746	90.60%	45.47%	57.17%	79.33%	83.56%	2.5000	8.3000	17.7673	11.3703	9.5838
2011	91.30%	43.85%	56.85%	80.16%	84.70%	2.6667	7.8000	17.4339	11.4052	9.4851	93.00%	42.36%	56.61%	83.47%	87.64%	2.3333	7.9333	19.1006	12.3904	10.0003
2012	94.70%	40.85%	56.41%	87.02%	90.60%	2.5000	7.8333	18.1006	12.0112	9.5834	96.00%	39.44%	56.30%	89.86%	92.90%	2.3333	8.1000	18.2673	12.2142	9.5266
2013	98.00%	37.93%	56.36%	94.73%	96.45%	2.3333	7.6000	17.9339	12.1215	9.2469	98.90%	36.60%	56.43%	96.99%	98.05%	2.5000	8.0000	18.3768	12.6268	9.4773
2014	%00.66	35.33%	56.54%	97.17%	98.23%	2.8333	7.6333	18.1006	12.7545	9.5168	99.10%	34.15%	56.70%	97.36%	98.41%	2.6667	8.1000	17.4339	12.4395	9.1098
2015	99.20%	32.97%	56.79%	97.57%	98.59%	2.5000	7.8333	18.2673	13.1118	9.3554	99.20%	31.86%	56.90%	97.49%	98.59%	2.6667	8.1333	17.5459	12.8489	9.1235
2016	99.20%	30.82%	56.94%	97.40%	98.59%	2.1667	7.8000	17.7673	13.0042	8.9298	99.20%	29.86%	56.97%	97.32%	98.60%	2.3333	7.9333	19.1006	14.1393	9.5925
2017	99.20%	28.84%	57.06%	97.23%	98.60%	2.8333	7.9667	17.6006	13.3834	9.2158	99.20%	27.93%	57.10%	97.14%	98.60%	2.3333	8.1000	18.1006	13.7424	9.1436
2018	99.30%	26.97%	57.25%	97.40%	98.78%	2.3333	7.8000	18.9339	14.4947	9.4690	99.30%	26.14%	57.25%	97.32%	98.78%	2.3333	8.4667	18.2673	14.1454	9.1887
2019	99.30%	25.28%	57.21%	97.23%	98.78%	2.3333	7.6000	17.9339	14.0267	9.0464	99.30%	24.52%	57.11%	97.15%	98.77%	2.5000	8.0000	18.3196	14.4790	9.3239
2020	99.30%	23.77%	57.19%	97.05%	98.78%	2.6667	7.8000	17.4339	13.9602	9.0248	99.30%	23.03%	57.41%	96.96%	98.78%	2.6667	8.1333	17.5459	14.1577	9.0417
2021	99.40%	22.27%	57.38%	97.31%	98.95%	2.3333	7.7667	18.4339	14.8811	9.2280	99.40%	21.67%	57.41%	97.23%	98.95%	2.5000	8.3000	17.7673	14.4940	9.0372
2022	99.40%	21.07%	57.57%	97.15%	98.96%	2.6667	7.8000	17.4339	14.3539	8.9627	99.40%	20.56%	57.67%	97.08%	98.96%	2.3333	7.9333	19.1006	15.6870	9.4649
2023	99.40%	20.07%	58.04%	97.01%	98.97%	2.8333	7.9667	17.6006	14.6671	9.0610	99.40%	19.66%	58.05%	96.95%	98.97%	2.3333	8.1000	18.1006	15.0359	8.9819

Table 7. -- Summary of Float Days For Financial Interchange, 1997-2023

	Table	e 8 Summary	of Uncollectible	Benefit Overp	ayment Calcula	ations	
	SSA Equivalent	Sample	Overpayment	DI	Amount	Charged	Ratio of
	Uncollectible	SSEB	Amount	Trust Fund	By Tru	st Fund	Overpayments
Year	Overpayments	Percentage ¹	Charged	Proportion ²	OASI	DI	to FI Benefits ³
1999	\$3,503,422	66.21%	\$2,319,615	0.54304	\$1,059,963	\$1,259,652	0.0452%
2000	2,781,767	66.21%	1,841,808	0.57745	778,261	1,063,548	0.0355%
2001	1,770,787	66.21%	1,172,438	0.58242	489,584	682,854	0.0223%
2002	1,867,458	66.21%	1,236,444	0.61244	479,196	757,248	0.0233%
2003	1,867,671	66.21%	1,236,585	0.64262	441,937	794,649	0.0229%
2004	3,292,057	69.08%	2,274,153	0.64758	801,451	1,472,702	0.0419%
2005	2,304,781	69.08%	1,592,143	0.65361	551,506	1,040,637	0.0289%
2006	2,373,485	69.08%	1,639,603	0.68173	521,833	1,117,770	0.0287%
2007	2,262,935	69.08%	1,563,235	0.68981	484,892	1,078,343	0.0266%
2008	3,612,941	69.08%	2,495,820	0.64597	883,601	1,612,219	0.0417%
2009	2,979,389	60.85%	1,812,958	0.61612	695,967	1,116,992	0.0285%
2010	3,205,170	60.85%	1,950,346	0.62474	731,889	1,218,456	0.0304%
2011	2,246,004	60.85%	1,366,693	0.62422	513,580	853,113	0.0210%
2012	1,826,605	60.85%	1,111,489	0.63410	406,689	704,800	0.0164%
2013	1,503,658	60.85%	914,976	0.61167	355,312	559,664	0.0132%
2014	2,162,281	62.78%	1,357,480	0.59302	552,471	805,009	0.0192%
2015	2,633,041	62.78%	1,653,023	0.53866	762,598	890,426	0.0229%
2016	1,225,186	62.78%	769,172	0.48887	393,145	376,026	0.0106%
2017	924,273	62.78%	580,259	0.45839	314,272	265,987	0.0080%
2018	817,161	62.78%	513,013	0.41349	300,886	212,128	0.0069%
2019	804,726	65.26%	525,164	0.48695	269,438	255,726	0.0069%
2020	692,212	65.26%	451,738	0.67776	145,568	306,170	0.0058%
2021	240,104	65.26%	156,692	0.64229	56,051	100,641	0.0020%
2022	427,242	65.26%	278,818	0.62828	103,641	175,177	0.0034%

Table 8. -- Summary of Uncollectible Benefit Overpayment Calculations

¹ Percentage of SSA equivalent uncollectible overpayments attributable to the SSEB portion of the Tier 1 benefit. Percentages are recalculated every 5 years based on a sample of railroad annuity overpayments written off as uncollectible in the first year of the 5 year grouping.

² OASI/DI allocation is based on overall SSA OASI/DI overpayment experience for the calendar year.

³ The uncollectible overpayment amount, when expressed as a fraction of total benefit payments for the calendar year, is limited to the corresponding ratio of uncollectible overpayments to total benefits experienced by SSA.

Table 9	- Calculation of O	Table 9. – Calculation of OASDI Administrative Expenses - 2022	ve Expenses -	2022	
Source	Total cost		Number of Items	su	
	(thousands)	Total	SSA	Chargeable	Unit cost
Total	\$14,580	C	OASI Trust Fund	nnd	
Determination of eligibility and benefit computations, OASI	7,096	14,300		14,300	
Retired employees		7,800	,	7,800	\$512.17
	2,147	4,500		4,500	477.18
Non-retired employees			ı	ı	512.17
Widow(er)s not on RRB rolls			ı		477.18
Survivor monthly beneficiaries	954	2,000		2,000	477.18
Maintenance of benefit rolls	7,373	396,800	ı	396,800	\$18.58
Handling compensation reports	111	307,000		307,000	0.36
Total	<u>\$4,096</u>		DI Trust Fund	pr	
Determination of eligibility and benefit computations, DI	3,334	1,300		1,300	
Retired employees		006	,	006	\$2,237.37
l empl	1,320	400	·	400	3,299.98
Maintenance of benefit rolls	747	13,200		13,200	56.63
Handling compensation reports	15	307,000		307,000	0.05

<u>Part III.</u>

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Tables Pertaining to Administrative Cost Calculations

Source	Total cost		Number of Items		
	(thousands)	Total	SSA	Chargeable	Unit cost
Total			HI Trust Fund		
Initial enrollment, OASI	1,028	14,300		14,300	
Retired employees	579	7,800		7,800	\$74.22
Dependents of retired employees		4,500	ı	4,500	69.15
Non-retired employees		I	ı	ı	74.22
Widow(er)s not on RRB rolls		I	ı	I	69.15
Survivor monthly beneficiaries	138	2,000		2,000	69.15
Initial enrollment, DI		1,300	ı	1,300	
Retired employees	561	006	ı	006	\$623.20
Dependents of retired employees	368	400		400	919.19
Maintenance of benefit rolls, OASI	158	396,800	ı	396,800	0.40
Maintenance of benefit rolls, Dl		13,200	ı	13,200	5.69
Handling compensation reports	37	307,000	ı	307,000	0.12

Table 9a. -- Calculation of HI Administrative Expenses - 2022

Part IV.

Summary of Income Tax Calculations

Table 10. -- Financial Interchange OASDI Income Tax Transfers, Calendar Years 1984-2022 and

January-September 2023

(in mill				
Adjusted A	Accrual Basis	Final I	FI Adjusted Taxe	s Due
Taxe	es Due ²		Cash Basis ³	
Amount	FI Adjusted	Total	OASI ^{4, 5}	DI ^{4, 5}
\$36.0	\$31.1	\$58.8	\$57.0	\$1.8
33.4	29.1	67.0	65.0	2.0
29.3	29.9	70.4	68.3	2.1
30.4	31.2	(13.8)	(12.0)	(1.8)
32.4	33.2	3.5	4.2	(0.7)
39.0	39.9	14.2	14.0	0.2
45.0	45.7	30.8	30.5	0.3
47.0	47.7	47.8	47.2	0.6
46.0	46.6	54.7	53.9	0.8
47.0	47.8	59.9	58.7	1.2
48.0	48.5	50.5	49.4	1.1
59.0	59.2	41.0	40.0	1.0
75.0	75.1	57.1	55.9	1.2
86.0	86.0	57.0	55.5	1.5
88.0	87.9	73.9	72.1	1.8
94.0	93.9	106.0	103.4	2.6
105.0	105.0	128.0	124.5	3.5
100.0	99.3	92.4	89.5	2.9
93.0	92.5	110.5	106.7	3.8
85.0	86.0	113.1	108.6	4.5
91.0	91.2	112.2	107.3	4.9
125.0	124.4	116.5	111.5	5.0
149.0	148.2	130.3	124.5	5.8
170.0	169.7	134.7	128.2	6.5
168.0	167.6	109.6	104.2	5.4
164.0	164.1	136.1	128.5	7.6
182.0	181.9	158.9	151.3	7.6
192.0	192.9	176.7	170.0	6.7
211.0	212.6	278.2	273.8	4.4
230.0	231.4	243.2	238.7	4.5
251.0	252.8	251.8	243.8	8.0
258.0	260.5	297.6	291.4	6.2
265.0	268.0	301.3	295.2	6.1
287.0	289.7	294.7		7.1
		290.1	288.8	1.3
		269.1	264.2	4.9
		293.4	288.5	4.9
			313.5	0.8
				4.5
		281.1	279.9	1.2
			287.0 289.7 294.7 290.1 269.1 293.4 314.3 365.4	287.0 289.7 294.7 287.6 290.1 288.8 269.1 264.2 293.4 288.5 314.3 313.5 365.4 360.9

¹ Total amount of quarterly transfers from Treasury originally received for the calendar year. ² The FI Amount is the total original Treasury transfers multiplied by a ratio of $\left(\frac{FI Benefits}{SSEB Benefits}\right)$ for the appropriate year.

³ Revised Total Amount and FI Amount based on subsequent reconciliations.

⁴ Sum of FI Amount original transfers and any adjustments made in the year for prior calendar years. Amount for 9-month estimate year is calculated separately based on projected SSEB and FI Benefits for that period.

⁵ OASI/DI allocation is based on overall SSA OASI/DI income tax allocation experience for the calendar year.

			Treasury	Adjustment	Final FI
	Original Trea	usury Transfers	Accru	al Basis ²	Adjusted
Year	Amount	FI Adjusted ¹	Amount	FI Adjusted	Total ^{3, 4}
1994	\$14.0	\$14.0	\$1.0	\$0.9	\$0.0
1995	30.0	30.2	29.0	29.2	0.2
1996	30.0	30.0	35.0	35.0	0.0
1997	30.0	30.0	39.0	39.0	(0.1)
1998	31.0	31.0	27.0	27.0	0.0
1999	55.0	55.0	60.0	60.0	0.0
2000	50.0	50.0	52.0	52.0	0.0
2001	57.0	56.8	52.0	51.8	(0.2)
2002	58.0	57.7	53.0	52.7	(0.3)
2003	55.0	55.2	42.0	42.1	0.2
2004	53.0	53.3	46.0	46.3	0.3
2005	54.0	54.0	61.0	60.9	0.0
2006	64.0	63.6	81.0	80.5	(0.4)
2007	67.0	66.8	91.0	90.8	(0.2)
2008	76.0	75.9	97.0	96.9	(0.2)
2009	78.0	78.0	84.0	84.0	0.0
2010	86.0	86.0	89.0	89.0	0.0
2011	101.0	101.3	107.0	107.3	0.3
2012	121.0	121.8	129.0	129.9	0.6
2013	111.0	111.7	112.0	112.7	0.7
2014	153.0	154.0	159.0	160.0	1.0
2015	155.0	156.4	146.0	147.3	1.4
2016	177.0	178.8	165.0	166.7	1.9
2017	180.0	181.8	176.0	177.8	1.8
2018	176.0	177.8			1.8
2019	165.0	166.5			1.5
2020	194.0	196.3			2.3
2021	197.0	201.1			3.9
2022	230.0	236.1			6.1
1/2023 - 9/2023	246.0	252.5			6.5

Table 10a. -- Financial Interchange HI Income Tax Transfers, Calendar Years 1994-2022 andJanuary-September 2023

(in millions)

¹ Total amount of quarterly transfers from Treasury directly to the HI trust fund for the calendar year.

² The FI Amount is the total original Treasury transfers multiplied by a ratio of $\left(\frac{FI Benefits}{SSEB Benefits}\right)$ for the appropriate year.

³ Revised Total Amount and FI Amount based on subsequent reconciliations.

⁴ Since the original Treasury transfers and subsequent reconciliations are made directly to the HI trust fund, the final FI amount results only from the difference between FI Benefits and SSEB Benefits.

<u>Part V.</u>

Correspondence and Memoranda



March 18, 2024

Mr. Keith T. Sartain Chief Actuary Railroad Retirement Board 844 North Rush Street Chicago, Illinois 60611-2092

Dear Mr. Sartain:

This letter provides the items you requested for use in the 72nd financial interchange determination in your letter to us dated January 8, 2024.

Below we present the effective interest rates earned by the Old-Age and Survivors Insurance (OASI) and Disability Insurance (DI) Trust Funds in calendar year 2023 on a semiannual and annual basis.

Period	OASI	DI
January-June 2023	1.15374%	1.39528%
July-December 2023	1.19293%	1.48807%
Calendar year 2023	2.36025%	2.90976%

Attachment A provides a memorandum from Stephen Hull, Director of SSA's Office of Finance within the Office of Financial Policy and Operations (OFPO). The memorandum provides final workload unit cost factors for calendar year 2022 and preliminary factors for 2023. The final factors for 2022 are identical to the preliminary factors we provided in our most recent prior letter dated March 14, 2023. It is worth noting that the preliminary factors for 2023 provided here will be revised when we send final factors for 2023 for use in the 73rd financial interchange determination, as OFPO had to estimate data for December 2023 in order to develop full calendar 2023 preliminary factors.

Attachment B provides a table summarizing the operations of the OASI and DI Trust Funds for December 2023 and calendar year 2023, based on data from the Department of the Treasury and OFPO. The format of the table is consistent with the table for calendar year 2022, which we sent in our letter dated March 14, 2023.

In September 2023, the trust funds transferred amounts to the general fund for estimated refunds of taxes paid by employees whose combined wages from more than one employer exceeded the 2022 taxable maximum.¹ The entire amount of these refunds is included on the line labeled "Multi-employer tax refunds" in the attached table showing the operations of the trust funds (Attachment B). There were no such refunds in any other months of calendar year 2023.

¹ Also includes relatively small adjustments to estimates of prior multi-employer tax refunds for earnings in calendar years 2018 through 2021.

Calendar year 2023 data on cyclical payments by payment method are available on the internet at <u>https://www.ssa.gov/oact/progdata/payment.html</u>. For consistency with our treatment of accelerated benefit payments in our trust fund accounting, this cyclical payment data reflects benefit payments based on the normally scheduled payment date.

The requested annual ratios of uncollectible overpayments to total benefits are in Attachment C. Such ratios are to be used as limits on the amount of estimated uncollectible overpayments to be added to benefit payments chargeable to the Social Security trust funds through the financial interchange, as described in the August 2, 2004, letter from Stephen C. Goss to Frank Buzzi. Similar to such data for calendar years 2020 through 2022, the amounts of uncollectible overpayments in 2023 are significantly higher than in years prior to 2020. Based on previous discussion with OFPO, this higher level is due to a special initiative undertaken by SSA during 2020.

If you require further information about any of this information, please let us know.

Sincerely,

Mihld Aleph

Michael Stephens, A.S.A. Deputy Chief Actuary

Attachments: A-C

cc: Stephen C. Goss Karen P. Glenn 2

Appendix A



MEMORANDUM

Date:	May 14, 2024	Refe	Refer To: S1NN1	
То:	Supervisory Actuary Office of the Chief Actuary			
From:	Director Office of Finance			
Subject:	Workload Unit Cost Factors for the SSA-Railroad Retirement Interchange (Your Memo, 01/08/24)—INFORMATION	nt Boa	rd (RRB) Financial	

This memorandum transmits and documents the final calendar year (CY) 2022 and preliminary CY 2023 unit cost factors for use in the SSA-RRB financial interchange. The CY 2022 calculations have not changed from those transmitted last year. The CY 2023 calculations will be revised due to these numbers using estimates of December Cost Analysis System data.

The unit costs are as follows:

Workload	Fi	CY 2022 nal – Revised*	CY 2023 Preliminary
OASI Maintenance of Earnings Accounts *	\$	0.362029	\$ 0.483944
DI Maintenance of Earnings Accounts *	\$	0.049304	\$ 0.053788
HI Maintenance of Earnings Accounts *	\$	0.118980	\$ 0.150900
OASI Initial Enrollment –Wage Earners	\$	512.169822	\$ 500.380810
DI Initial Enrollment – Wage Earners	\$	2,237.374224	\$ 2,223.407063
HI (OASI Related) Initial Enrollment – Wage Earners	\$	74.223950	\$ 74.04604
HI (DI Related) Initial Enrollment– Wage Earners	\$	623.204957	\$ 703.951077
OASI Initial Enrollment – Auxiliaries	\$	477.177422	\$ 496.736303
DI Initial Enrollment – Auxiliaries	\$	3,299.975842	\$ 3,374.310858
HI (OASI related) Initial Enrollment – Auxiliaries	\$	69.152831	\$ 73.485448
HI (DI related) Initial Enrollment – Auxiliaries	\$	919.185214	\$ 1,068.337778

Workload	CY 2022 <u>Final</u>	CY 2023 reliminary
OASI Maintenance of the Rolls	\$ 18.581268	\$ 17.784566
DI Maintenance of the Rolls	\$ 56.626123	\$ 54.576279
HI (OASI Related) Maintenance of the Rolls	\$ 0.397749	\$ 0.488996
HI (DI Related) Maintenance of the Rolls	\$ 5.689824	\$ 6.580362

Copies of the worksheets and backup materials used to calculate these unit costs are available upon request. Should your staff or the staff of RRB wish to discuss these computations, they should contact Nicole Wartman at (410) 966-9452.

Stephen Digitally signed by Stephen Hull Date: 2024.05.14 Hull 12:15:24 -04'00'

Stephen Hull

Appendix B

Financial Operations of the OASI and DI Trust Funds, December 2023

Old-Age	and Survivors Insurance Trust Fund		
	Current month	Fiscal year to date	Calendar year to date
Total income	\$117,862,740,801.13	\$279,736,597,603.53	\$1,166,885,093,495.00
Payroll tax contributions	88,791,247,646.44	236,495,247,646.44	1,059,443,924,120.21
Multi-employer tax refund	0.00	0.00	-5,366,464,350.00
Net payroll tax contributions	88,791,247,646.44	236,495,247,646.44	1,054,077,459,770.21
Reimbursement income tax credits Reimbursement due to P.L. 111-312, 112-78, and 112-96	725.69 35.261.30	725.69 35.261.30	-1,190.4 147,767.3
General Fund reimbursement subtotal	35,986.99	35,986.99	146,576.8
Income from benefit taxation	23,973,428.60	12,685,534,515.00	49,763,969,512.50
Interest on investments	29,047,462,557,69	30,554,993,384.07	63,048,621,855.9
Interest on reimbursements	14,681,41	773,948.03	-5,152,329,9
Interest subtotal	29,047,477,239.10	30,555,767,332.10	63,043,469,526.0
Gifts & miscellaneous income	6,500.00	12,123.00	48,109.42
Total cost	104,051,758,632.57	312,032,547,773.45	1,237,294,183,152.53
Bene fit payments	103,705,877,638.24	311,037,479,549.51	1,227,389,048,486.9
Reimbursements (uncashed checks & misc.)	-4,961,940.46	-14,733,494.08	-57,694,940.1
Vocational rehabilitation payments Bene fits subtotal	3,049,547.36	5,076,201.40	19,261,253.9
	103,703,965,245.14	311,027,822,256.83	1,227,350,614,800.7 5,576,469,000.0
SSA-RRB Financial Interchange	57,147,493,66		
Treasury administrative expenses SSA salaries & expenses	289.037.026.00	172,653,815.87 789,292,774.00	623,701,560.0 3,623,735,654,3
Construction	2,699,636.00	45,085,729.00	5,625,755,654.5 128,277,731.0
Offsetting miscellaneous income	-20.2 55.62	-35,863,09	-1,741,262.8
Pension reform reimbursement	-20,235.62	-1,200,426.55	-2,915,746.2
Reimbursement for SSA expenses	-1,070,512.61	-1,070,512.61	-3,958,584.4
Administrative expenses subtotal	347,793,387.43	1,004,725,516.62	4,367,099,351.82
Net increase in asset reserves	13,810,982,168.56	-32,295,950,169,92	-70,409,089,657,52
Undisbursed balance	102,173,296.94	102,173,296.94	102,173,296.9
Invested asset reserves (book value)	2,641,387,893,000,00	2,641,387,893,000,00	2,641,387,893,000.00
Asset reserves at end of month	2,641,490,066,296,94	2,641,490,066,296.94	2,641,490,066,296,94

Dis	sability Insurance Trust Fund		
	Current month	Fiscal year to date	Calendar year to dat
Total income	\$17,046,071,711.62	\$42,550,415,338.93	\$183,800,766,643.1
Payroll tax contributions	15,093,050,103.94	40,174,050,103.94	179,933,462,193.4
Multi-employer tax refund	0.00	0.00	-910,849,650.0
Net payroll tax contributions	15,093,050,103.94	40,174,050,103.94	179,022,612,543.4
Reimbursement income tax credits	69.57	69.57	-114.1
Reimbursement due to P.L. 111-312, 112-78, and 112-96	5,987.79	5,987.79	25,092.6
General Fund reimbursement subtotal	6,057.36	6,057.36	24,978.4
Income from benefit taxation	304,235.00	354,923,108.80	949,668,363.7
Interest on investments	1,952,700,790.25	2,021,013,161.60	3,825,610,641.5
Interest on reimbursements	10,525.07	420,262.23	2,816,320.9
Interest subtotal	1,952,711,315.32	2,021,433,423.83	3,828,426,962.5
Gifts & miscellaneous income	0.00	2,645.00	33,795.0
Fotal cost	12,917,853,098.75	38,494,028,910.74	154,815,497,459.2
Bene fit payments	12,659,634,736.24	37,771,856,287.03	151,845,103,530.3
Reimbursements (uncashed checks & misc.)	-2,507,968.32	-7,737,020.98	-29,154,410.5
Vocational rehabilitation payments	15,029,581.10	27,850,338.99	101,130,666.7
Bene fits subtotal	12,672,156,349.02	37,791,969,605.04	151,917,079,786.4
SSA-RRB Financial Interchange	0.00	0.00	59,745,000.00
Treasury administrative expenses	9,668,006.50	29,243,741.47	107,668,670.2
SSA salaries & expenses	234,830,386.00	641,163,760.00	2,642,456,929.6
Construction	1,965,805.00	32,419,252.00	90,749,680.7
Reimbursement for SSA expenses	-767,447.77	-767,447.77	-2,837,899.1
Demonstration projects	0.00	0.00	635,291.2
Administrative expenses subtotal	245,696,749.73	702,059,305.70	2,838,672,672.7
Net increase in asset reserves	4,128,218,612.87	4,056,386,428,19	28,985,269,183.8
Undisbursed balance	80,987,544.55	80,987,544.55	80,987,544.5

Undisbursed balance	80,987,544.55	80,987,544.55	80,987,544.55
Invested asset reserves (book value)	146,892,011,000.00	146,892,011,000.00	146,892,011,000.00
Asset reserves at end of month	146,972,998,544.55	146,972,998,544.55	146,972,998,544.55
Notes:			

 Fiscal year is the 12-month period ending September 30. See summary of fiscal year data.
 Temporary tax credits were established by the 1983 Amendments (see footnote to our tax rate table for applicable years). The OASI and DI Trust Funds are reimbursed from the general fund of the Treasury for these tax credits.

 Income from taxation of benefits paid to non-resident aliens (deducted from monthly benefits). The remainder is transferred to the trust funds at the beginning of each calendar quarter on an estimated basis, with subsequent adjustment for actual income tax data. For further information, see Taxation of Social

remainder is transferred to the trust funds at the beginning of each calendar quarter on an estimated basis, with subsequent adjustment for actual moome tax data. For further information, see <u>laxabon of Social</u> Security benefits. The "SSA-RRB Financial Interchange" is an annual transfer among the Social Security Trust Funds and the Railroad Retirement program's *Social Security Equivalent Benefit Account*. The transfers, computed by the Railroad Retirement Board, are designed to put the Social Security Trust Funds in the same financial position that they would have been if railroad employment had always been covered by Social Security. Offsetting miscellaneous income is composed of miscellaneous income due to the Trust Funds, which can include refunds, penalties, fees, and other income due to the Trust Funds. The Employee Retirement Income Security Act of 1974 requires that SSA furnish information on deferred vested benefits to pension plan participants. The general fund of the Treasury reimburses the OASI Trust Fund for the costs incurred by furnishing such information.

 Net increase in asset reserves is calculated as total income less total cost.
 When a trust fund holds marketable securities, the book value differs from the face value of such securities. The OASI Trust Fund redeemed its marketable securities in November 1982; DI redeemed its last in February 2005. For special issues, book value is the same as face value.

Appendix C

-	OASI Trust Fund			DI Trust Fund			
Calendar year	Uncollectible overpayments	Total benefit payments ^a	Ratio	Uncollectible overpayments	Total benefit payments ^a	Ratio	
1999	\$90,533	\$334,383,416	0.0271%	\$234,852	\$51,313,271	0.4577%	
2000	95,287	352,651,519	0.0270%	264,862	54,920,576	0.4823%	
2001	95,898	372,312,043	0.0258%	262,639	59,558,650	0.4410%	
2002	116,271	388,118,781	0.0300%	342,519	65,627,224	0.5219%	
2003	114,015	399,842,083	0.0285%	337,982	70,885,971	0.4768%	
2004	115,636	415,031,484	0.0279%	343,713	78,180,163	0.4396%	
2005	118,455	435,325,384	0.0272%	367,617	85,373,479	0.4306%	
2006	143,851	460,404,994	0.0312%	498,697	92,357,903	0.5400%	
2007	135,954	485,819,057	0.0280%	473,033	99,057,104	0.4775%	
2008	190,680	508,994,214	0.0375%	556,943	106,271,269	0.5241%	
2009	169,630	557,101,116	0.0304%	448,360	118,298,745	0.3790%	
2010	168,014	577,390,879	0.0291%	463,123	124,162,037	0.3730%	
2011	168,088	596,153,634	0.0282%	473,100	128,904,536	0.3670%	
2012	148,672	637,892,767	0.0233%	450,078	136,849,591	0.3289%	
2013	136,349	672,126,128	0.0203%	385,530	140,046,294	0.2753%	
2014	120,188	706,777,966	0.0170%	319,036	141,600,507	0.2253%	
2015	93,543	742,905,710	0.0126%	206,111	143,263,174	0.1439%	
2016	101,550	768,598,740	0.0132%	190,877	142,684,346	0.1338%	
2017	180,098	798,686,160	0.0225%	336,532	142,720,079	0.2358%	
2018	194,288	844,887,862	0.0230%	311,010	143,637,104	0.2165%	
2019	171,646	902,796,624	0.0190%	387,767	145,029,039	0.2674%	
2020	477,569	952,348,936	0.0501%	2,546,309	143,466,468	1.7748%	
2021	518,071	993,118,329	0.0522%	2,413,116	139,969,197	1.7240%	
2022	411,954	1,088,117,619	0.0379%	1,837,496	143,447,292	1.2810%	
2023	411,519	1,227,331,354	0.0335%	1,784,458	151,815,949	1.1754%	

Ratio of uncollectible overpayments to total benefit payments [Dollar amounts in thousands]

^a Payments are reduced for unnegotiated checks.

Sources: 1. Uncollectible overpayment amounts are from SSA's Office of Financial Policy and Operations (OFPO).

2. Total benefit payments are computed based on input from OFPO and the Bureau of the Fiscal Service in the U.S. Department of the Treasury.

Social Security Administration Office of the Chief Actuary March 18, 2024 DEPARTMENT OF HEALTH & HUMAN SERVICES Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop 00-00-00 Baltimore, Maryland 21244-1850



March 8, 2024

Mr. Carl May Bureau of the Actuary Railroad Retirement Board 844 N. Rush Street Chicago, Illinois 60611-2092

Dear Mr. May:

The effective semi-annual rates of interest earned by the HI Trust Fund during the six months ending June 30, 2023 and December 31, 2023, were 1.40 percent and 1.57 percent, respectively.

If you have any questions, please contact me at Jennifer.lee@cms.hhs.gov.

Sincerely,

Jannijki La Jennifer Lee CMS/OACT



January 12, 2024

Mr. Keith Sartain Chief Actuary Railroad Retirement Board 844 North Rush Street Chicago, Illinois 60611-2092

Dear Mr. Sartain:

The attached tables provide estimated benefits in current-payment status as of December 31, 2022. Table 1 relates to male retired worker beneficiaries and their beneficiary dependents. Table 2 presents the corresponding estimates for female retired worker beneficiaries. We first provided table 2 in our letter dated January 19, 2012, per agreement between our offices in August 2011 to revise the application of child and family composition factors.¹ The attached data were derived from 100-percent sample data.

Sincerely,

Mill Hendy

Michael Stephens, A.S.A. Deputy Chief Actuary

/S/ Craig Feinstein Actuary

Enclosures: Tables 1-2

¹ See letter from Stephen C. Goss, dated August 19, 2011.

	All old-age families			male old- aged wife	Beneficiary families consisting of a male old-age beneficiary with an aged wife receiving a full benefit whether or not children are present		old entit	eficiary families -age beneficiary lement is based on h her care and is	with a wife who on having an elig	jble
-	Old-age	Monthly rate	Child	Old-age	Monthly rate	Child		Monthly rate	Child	Wife
Age	benefits	of PIA	benefits	benefits	of PIA	benefits	benefits	of PIA	benefits	benefits
62	\$384,391,877	\$544,153,391	\$9,554,593	\$979,336	\$1,387,640	\$14,193	\$1,306,273	\$1,852,328	\$762,311	\$594,208
63	636,509,396	877,229,541	15,982,352	2.022.687	2,793,940	32,584	2,256,182	3,126,435	1.278.820	1.017.723
64	773,852,011	1,031,468,430	17,938,652	2,933,280	3,905,878	55,771	2,689,627	3,622,214	1,486,548	1,193,753
65	1,098,508,540	1,381,138,971	21,277,239	5,637,713	7,008,816	106,400	3,347,954	4,306,245	1,763,275	1,428,590
66	2,131,511,420	2,408,636,311	33,876,896	16,100,537	17,679,886	231,856	5,342,298	6,264,431	2,539,950	2,083,551
67	2,907,284,697	3,161,476,982	43,241,462	33,897,701	35,547,230	474,818	6,584,658	7,287,727	2,953,084	2,439,614
68	2,966,304,134	3,181,671,064	41,585,457	50,572,624	51,777,642	772,280	6,321,652	6,869,361	2,829,943	2,282,181
69	2,803,604,620	2,993,970,659	36,577,822	76,033,032	76,777,513	1,010,863	5,263,351	5,658,471	2,315,906	1,904,417
70	3,244,803,226	3,323,841,222	35,310,610	123,637,359	117,775,461	1,273,528	5,154,470	5,410,330	2,197,777	1,832,537
71	3,072,878,556	3,160,413,882	31,550,331	128,910,664	121,454,743	1,295,591	3,815,545	3,969,795	1,604,112	1,354,214
72	2,819,698,513	2,919,113,010	27,564,442	124,246,261	115.616.166	1,272,051	3,106,800	3,217,868	1,317,750	1,083,352
73	2,750,866,673	2,874,682,682	25,406,425	130,310,580	119,679,877	1,297,208	2,940,729	3,044,052	1,260,442	1,027,788
74	2,673,095,704	2,824,651,383	23,500,346	123,403,012	114,021,290	1,288,359	2,300,183	2,393,344	981,146	807,703
75	2,658,824,487	2,836,799,137	21,605,641	116,758,239	108,906,022	1,217,848	2,028,798	2,114,275	891,620	714.812
76	2,318,251,849	2,492,555,681	18,291,192	97,149,540	91,714,774	1,217,848	1,501,893	1,577,343	646,963	538,708
77	1,796,782,835	1,940,899,568	13,553,530	68,015,355	64,876,117	805,991	1,015,943	1,062,215	447,852	354,351
78	1,705,546,439	1,855,893,610	12,288,527	58,219,501	56,288,544	721,165	748,027	793,604	320,412	275,252
79	1,673,601,452	1,834,781,947	11,205,102	51,984,277	50,827,040	688,049	730,214	793,004	316,553	269,354
80	1,535,870,745	1,688,944,230	9,986,271	41,958,570	41,742,615	635,974	541,731	568,525	229,978	194,820
81	1,286,773,040	1,417,425,200	8,044,311	32,585,701	32,673,564	530,466	439,782	472,382	202,909	157,916
82	1,114,563,073	1,227,605,597	6,670,546	26,584,420	26,969,017	488,496	274,760	298,751	126,213	100,575
83	959.232.675		5,568,968	21,128,865		390,722	206.677	298,731	91.040	-
83 84		1,054,855,209		· · ·	21,500,140	· · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	78,451
	866,191,565	951,209,354	4,710,069	18,229,061	18,625,415	368,023	143,722	153,097	63,136	53,599
85	733,444,204	801,936,082	3,794,504	15,319,480	15,651,677	298,477	119,867	128,517	54,491	43,510
86	602,075,622	657,982,038	2,956,981	11,950,165	12,238,598	212,036	81,858	86,779	35,972	29,384
87	512,873,355	559,957,731	2,386,918	10,323,272	10,584,931	180,895	58,245	63,091	24,822	20,375
88	429,532,415	466,054,279	1,965,574	9,641,939	9,750,307	161,495	44,401	47,113	19,392	17,084
89 90	350,006,062	376,754,108	1,521,850	8,546,481	8,445,331	126,540	27,911	29,731	11,454	10,994
	306,691,401	328,782,814	1,291,797	8,171,603	7,905,414	106,955	21,824	24,109	9,597	8,574
91	247,436,861	262,920,436	1,029,756	6,873,205	6,505,017	74,279	14,062	13,988	5,536	4,985
92	201,657,776	213,577,397	794,542	5,524,044	5,166,381	57,773	17,950	18,333	6,163	6,542
93	150,144,208	158,312,703	564,674	3,948,312	3,655,853	36,280	5,658	5,184	2,332	1,622
94	115,398,496	122,038,270	452,026	2,934,795	2,756,158	37,459	4,124	4,080	1,314	1,314
95	86,368,552	91,001,918	313,866	1,896,342	1,775,853	9,574	4,176	4,611	1,891	1,891
96	59,058,522	62,295,848	201,110	1,119,173	1,055,866	11,141	3,415	3,416	1,333	1,333
97	40,801,419	42,870,451	142,810	740,669	701,729	7,271	1,664	2,067	1,161	387
98	26,736,139	28,071,958	99,848	495,638	465,280	5,097	0	0	0	0
99	16,741,959	17,447,700	50,347	269,763	256,532	2,875	1,435	1,380	577	577
100	9,945,715	10,327,116	34,021	150,755	143,977	4,261	0	0	0	0
101+	12,283,564	12,646,763	35,637	148,915	141,703	0	0	0	0	0
Total	48,080,143,795	52,196,394,674	492,927,043	1,439,352,866	1,386,749,934	17,345,755	58,467,855	65,504,284	26,803,773	21,936,037

Table 1 — Selected benefit estimates relating to male old-age (primary) beneficiary families in current-payment status on 12/31/2022

Social Security Administration Office of the Chief Actuary January 12, 2024

				Beneficiary families consisting of a female old-age beneficiary with an aged husband receiving a full benefit		old-ag entitle	iciary families con e beneficiary with ment is based on	i a husband wh having an eligi	ose ble	
-	Al		not children are p			his care and is re				
	Old-age	Monthly rate	Child	Old-age	Monthly rate	Child	-	Monthly rate	Child	Husband
Age	benefits	ofPIA	benefits	benefits	ofPIA	benefits	benefits	ofPIA	benefits	benefits
62	\$337,043,208	\$462,489,825	\$1,667,540	\$472,947	\$669,138	\$2,925	\$12,664	\$17,981	\$6,596	\$6,278
63	556,214,002	740,486,029	3,094,812	1,151,912	1,595,626	6,780	18,827	26,336	10,006	9,056
64	686,485,561	876,239,867	3,559,657	2,052,691	2,756,559	15,379	32,460	44,135	17,268	16,225
65	991,920,491	1,186,018,240	4,171,469	3,652,506	4,658,560	21,693	25,337	32,999	14,261	10,688
66	1,771,691,270	1,920,209,123	6,427,790	7,565,465	8,757,906	34,317	25,333	29,453	10,716	11,286
67	2,348,297,158	2,446,624,816	8,558,657	13,919,666	15,042,206	59,931	29,382	33,003	11,478	13,360
68	2,400,787,920	2,448,185,165	8,106,904	19,687,238	20,472,571	51,396	23,199	24,762	9,354	9,354
69	2,183,643,316	2,208,281,988	7,166,269	20,702,713	21,147,757	58,432	30,320	32,536	11,943	12,618
70	2,557,714,055	2,480,354,531	6,695,180	18,035,880	17,385,407	62,529	15,252	16,077	5,904	5,417
71	2,450,663,923	2,363,572,924	6,022,187	13,194,918	12,625,860	36,935	4,289	4,648	2,255	1,059
72	2,265,702,174	2,176,423,551	5,235,042	10,353,368	9,881,378	30,646	8,260	9,041	3,063	3,861
73	2,225,399,674	2,139,605,914	4,680,561	9,116,779	8,682,422	22,125	5,877	6,285	2,201	2,671
74	2,163,544,815	2,084,247,704	4,203,321	7,505,162	7,298,089	28,312	1,596	1,597	621	621
75	2,146,925,069	2,045,270,413	3,697,991	6,116,260	6,039,415	12,494	3,549	4,287	1,792	1,792
76	1,872,362,371	1,778,166,952	3,197,801	4,940,076	4,886,611	8,397	2,367	2,697	1,011	1,011
77	1,463,029,824	1,366,118,598	2,201,667	3,416,184	3,437,175	6,775	0	0	0	0
78	1,410,141,542	1,301,845,680	1,926,072	3,008,482	3,022,645	5,732	0	0	0	0
79	1,398,977,582	1,278,106,121	1,702,884	2,376,628	2,426,571	2,411	0	0	0	0
80	1,289,224,345	1,164,835,848	1,481,496	2,190,871	2,249,056	4,368	0	0	0	0
81	1,097,303,448	983,414,539	1,244,634	1,610,169	1,648,380	7,666	0	0	0	0
82	966,199,945	853,500,008	916,592	1,249,906	1,274,365	2,335	0	0	0	0
83	855,114,206	738,561,574	766,863	1,127,119	1,146,890	2,537	0	0	0	0
84	787,624,903	667,863,810	639,439	846,511	865,040	1,325	0	0	0	0
85	684,733,630	566,230,087	557,731	663,630	671,088	300	0	0	0	0
86	591,484,924	472,005,990	387,968	432,593	438,019	3,380	0	0	0	0
87	524,309,708	406,587,882	284,562	339,297	330,999	0	0	0	0	0
88	455,423,342	345,346,383	218,317	260,081	260,344	0	0	0	0	0
89 90	382,264,133	285,834,583	170,638	174,291	167,654	37 238	0	0	0	0
	347,715,337	258,558,187	124,829	141,709	133,443		0	0	-	0
91	293,372,823	210,432,742	107,068	107,289	102,035	0	0	0	0	0
92	250,646,733	175,513,410	82,358	66,737	64,067	162 0	0	0	0	0
93	202,965,368	139,121,131	63,812	45,867	45,060	0	0	0	0	0
94 95	167,920,236 134,255,383	115,892,571 92,575,225	42,710 38,852	29,646	27,045 17,821	0	0	0	0	0
95				19,538	· · · · ·	0	0	0	0	0
96 97	100,626,684	68,354,324 51,792,239	21,010 19,676	6,503 8,932	6,536 7,992	0	0	0	0	0
97	75,304,707	36,494,333	19,676	8,932 4,628	3,852	0	0	0	0	0
98 99	54,181,239					0	0	0	0	0
99 100	36,335,286	24,249,115	11,720	3,845 0	3,661 0	0	0	0	0	0
100	24,508,513	16,130,972	4,803 10,038	0	0	0	0	0	0	0
Total	39,171,938 40,591,230,788	26,138,236 39,001,680,629	89,523,308	156,598,036	160,249,241	489,554	238,710	285,838	108,469	105,294
Total	40,391,230,788	39,001,080,029	69,223,308	100,098,050	100,249,241	489,004	258,710	283,838	108,409	105,294

Table 2 — Selected benefit estimates relating to female old-age (primary) beneficiary families in current-payment status on 12/31/2022

Social Security Administration Office of the Chief Actuary January 12, 2024

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EXHIBIT 2 – PAYROLL CALCULATIONS AND GROSS EARNINGS SAMPLE

Part I. Pa

Payroll Calculations Summary and Tables

Accrued Taxable Payroll

Accrued taxable payroll, as developed for financial interchange purposes, is the amount of railroad compensation to which combined employee and employer tax rates are applied to obtain additional accrued gross taxes (including overpayments of employee taxes) that would have been paid into the Old-Age and Survivors Insurance (OASI), Disability Insurance (DI) or Hospital Insurance (HI) Trust Funds if railroad employment were covered by the Federal Insurance Contributions Act (FICA).

Table 1 shows the maximum taxable earnings bases under the Railroad Retirement Act (RRA) and FICA. Tables 2 and 3 summarize the various components that determine accrued taxable payroll for calendar years 1937-1965 and 1966-2022, respectively.

The general methodology and assumptions governing the development of the OASDHI taxable payroll for financial interchange purposes are covered individually below.

RRA Creditable Payroll

The RRA creditable payroll for 2022, including sickness payments and miscellaneous compensation, was \$18,631.0 million. This amount is based on reports submitted by the railroads and third-party payors to the Railroad Retirement Board (RRB). Beginning in 1985, RRA compensation is creditable up to an annual limit rather than a monthly limit. This limit, \$147,000 in 2022, is the same as FICA.

Prior year adjustments of \$14.66 million were added to the RRA creditable payrolls for 1994-2021. No prior year adjustments for years before 1982 were made in this determination, and the 1981 prior year adjustment amount remains unchanged.

Inflation Factor for HI Payroll

Inflation factors are developed from the sample gross earnings data, as described in Part II. Prior to 1985, inflation factors were the ratio of compensation under the annual FICA limit to compensation under the monthly RRA limit. Beginning in 1985, the RRA creditable limit became annual and equal to the FICA limit, so inflation factors were unnecessary for calendar years 1985-1990. Beginning in 1991, a higher taxable limit applied to payroll under the HI portion of the FICA contribution rate. Consequently, inflation factors were reinstated for HI payroll calculations. Beginning in 1994, the HI limit was removed entirely and all wages are subject to HI payroll taxes.

The amount of earnings that would have been subject to the HI portion of the FICA tax rate was estimated from a sample of accounts for which records of gross earnings (including sickness payments and miscellaneous compensation) were obtained from railroad employers. From these records, annual earnings data were gathered that indicated the RRA creditable compensation and total HI earnings for each sample record.

For 2022, the total sample amounts subject to HI and RRA taxes were, respectively, \$191,205,536 and \$182,430,792 Therefore, the 2022 ratio for inflating OASDI and HI taxable payroll is 1.0481. HI payroll calculations are elaborated upon further in Part II.

RRA Payroll up to FICA Limit

Prior to 1985, various adjustments and factors have been applied to RRA payroll to inflate it to OASDI levels. A summary of such adjustments and factors is included in the 41st Financial Interchange Summary and Documentation for Fiscal Year 1992, pages 62-63, with accompanying tables. Since 1985, OASDI payroll has been equal to RRA creditable payroll plus other adjustments. HI payroll equaled OASDI payroll through 1990. Since 1991, HI payroll equals the OASDI payroll times the inflation factor.

Multiple Railroads Employment and Miscellaneous Compensation Adjustment

Beginning in 1985, the employer RRA tax applies to the taxable compensation up to the annual limit earned by each employee, as has been the case under FICA. Under both systems, the employee's overall tax is limited by the annual maximum, even if the employee works for more than one employer. Thus, when an employee works with multiple employers and earns more than the FICA limit over the course of a year, the employee excess taxes are refundable, but the employer excess is not.

This is complicated somewhat by the inclusion of miscellaneous compensation, primarily sick pay, which became taxable and creditable in 1982. Third party miscellaneous compensation payors such as insurance companies and the RRB automatically withhold FICA taxes from the employee's payment. Consequently, such withholdings that exceed the maximum taxable amount are refundable to the employee.

The situation for railroad employers, however, is different. Insurance companies and the RRB notify them of the amount of benefits paid, and they in turn remit to the Internal Revenue Service (IRS) only that amount payable up to the annual limit for the employee. Consequently, employers generally do not pay excess FICA taxes on miscellaneous compensation.

Thus, it is necessary to determine both the amount and the source of payroll amounts in excess of annual FICA limits. Excess tax amounts resulting from multiple employment are paid for by both employers and employees, but refundable only to employees. Excess amounts resulting from miscellaneous compensation are paid only by employees and are fully refundable.

Full records of employer and miscellaneous payroll have been kept since 1989. Since records for 1982-1988 are not available, experience for these years was extrapolated from 1989-1991 experience.

The following equations are used to determine the miscellaneous pay/multiple railroad employment adjustment since 1989. They employ the following definitions relating to data for employee i and railroad employer j:

- C_{ij} = Compensation for employee i from railroad j
- B_i = Railroad Retirement Board sickness payments for employee i
- I_i = Insurance company sickness payments for employee i
- L = Annual FICA payroll limit
- R = Number of annual railroad employers
- N = Number of employees

The total excess payroll, A, for a given year is calculated as follows:

$$A = \sum_{i=1}^{N} Max \left\{ \left(\sum_{j=1}^{R} C_{ij} \right) + B_i + I_i - L, 0 \right\}$$

That portion of total excess payroll due to multiple railroads employment, B, is:

$$B = \sum_{i=1}^{N} Max \left\{ \left(\sum_{j=1}^{R} C_{ij} \right) - L, 0 \right\}$$

Therefore, the amount of excess payroll due to multiple railroads employment is given by B, and the excess payroll attributable to miscellaneous compensation is given by (A - B). These formulas are problematic in certain cases where there is a combination of multiple employment and miscellaneous compensation within a year. Experience indicates, however, that these instances are very rare.

Dual Coverage Wage Adjustment and Sampling Error

Dual coverage is the estimate of the amount of Social Security wages earned and taxed that would have exceeded FICA limits had all railroad compensation been subject to FICA. For 2022, the amounts involved for an affected employee would be combined earnings under both systems in excess of \$147,000 but not in excess of \$147,000 under either system separately.

We estimate this adjustment using data received from SSA that contains OASDI wages for the Gross Earnings (see Part II) sample individuals. Combined earnings over the OASDI limit that are subject to the OASDI limits under either system are inflated to yield an estimate of the universe amount of employee refunds that would have been payable from this source.

The dual coverage wage adjustment estimate of \$52.1 million for 2022 was obtained using the formula:

$$A = \frac{N}{n} \sum_{i=1}^{n} X_i$$

where A = estimated dual coverage adjustment for the universe

- X_i = dual coverage amount in excess of the Social Security wage base for sample account i
- N = universe number
- n = sample number

The standard error of \$19.3 million for 2022 was computed for these estimates from the formula:

$$S_A^2 = \frac{N(N-n)}{n^2(n-1)} \left\{ n \sum_{i=1}^n X_i^2 - \left(\sum_{i=1}^n X_i\right)^2 \right\}$$

Using the standard error, the 95 percent confidence interval was \$14.2 million to \$89.9 million for 2022.

Only the employee tax rates apply to dual coverage refunds. For 2022, the OASI inflated tax refund amount was \$2.76 million and the 95 percent confidence interval was \$0.75 million to \$4.77 million, while the DI inflated tax refund amount was \$0.47 million and the 95 percent confidence interval was \$0.13 million to \$0.81 million.

Final FICA Accrued Payroll

The final annual FICA accrued payroll, as shown in Tables 2 and 3, is the amount of railroad compensation to which combined employee and employer tax rates may be applied to obtain additional gross taxes (including overpayments of employee taxes) that would have been paid into the OASI, DI or HI Trust Funds if railroad employment were covered by FICA.

For years 1937-1965, the final accrued payroll is calculated as the net of (1) RRA payroll not in excess of the FICA limit, plus (2) compensation over the RRA monthly limit but not over the FICA limit, plus (3) the multiple railroad employment adjustment, less (4) 75 percent of dual coverage self-employment adjustment.

For years 1966-1987, the final accrued payroll is calculated as the net of (1) RRA creditable payroll inflated to under the annual FICA limit, plus (2) the multiple railroad employment adjustment, less (3) 50 percent of tips, less (4) sickness payments, less (5) the self-employment adjustment.

For years 1988 and later, the final accrued payroll is obtained by adding to the RRA creditable payroll up to the FICA limit the multiple railroad employment/miscellaneous compensation adjustment.

The OASDI accrued payroll for 2022 is \$18,643.0 million. The HI accrued payroll for 2022 is \$19,527.1 million.

Accrued Payroll under the Affordable Care Act

Beginning in calendar year 2013, the Affordable Care Act (ACA) imposes an additional employee Medicare tax of 0.9 percent on earnings above \$200,000 (for those who file an individual return) or \$250,000 (for those who file a joint return). The 0.9 percent tax is withheld from earnings above \$200,000 regardless of filing status. Because the taxable thresholds are applied separately to FICA earnings and railroad compensation, households with both FICA earnings and railroad compensation whose combined earnings are in excess of the taxable limits pay less tax than if all of their earnings were covered under FICA. An adjustment to the total accrued amount over \$200,000, the HI ACA payroll, is therefore required for the resulting shortfall of additional taxes that would have been collected if railroad employment was covered under FICA.

The \$412.3 million HI ACA payroll for 2022 was derived from gross earnings data reported by employers. A shortfall adjustment of \$3.3 million for 2020 was made in December 2022. Table 4 summarizes the various components that determine the HI ACA payroll and the shortfall adjustment.

FICA Payroll Taxes on Cash Basis

The financial interchange requires that both the amount and pattern of FICA taxes that would have been collected from the final accrued OASDHI payroll be determined. To determine the pattern, a quarterly payroll distribution was estimated using the Gross Earnings study (see Part II). Quarterly pay for sample employees was accumulated over each quarter, up to the \$147,000 annual limit for 2022 for each employee. The resulting sample quarterly distribution was then applied to the overall population. Beginning with the 39th determination, the pattern of payment was further refined by applying second-degree curves to the quarterly payrolls to determine hypothetical monthly distributions (see Financial Interchange Summary and Documentation: 35th determination, pages 60-70; 36th determination, pages 41-43; 39th determination, pages 73-77). Finally, for calendar years before 1993, the monthly payroll results were further adjusted to reflect the measurable lag period between payroll disbursement and actual collection of FICA taxes thereon. This was discontinued beginning with calendar year 1993.

The table below shows the quarterly dollar and percentage distributions of the sample OASDI accrued payroll for 2022 and the resulting distribution of the accrued OASDI payroll. For the purpose of these tables, the sample amounts were limited to those employees for whom monthly or quarterly data were reported.

	Sample Amount ¹	Percentage Distribution	OASDI Payroll (millions)
Total	\$140,893,882	100.00	\$18,643.0
1st Quarter	37,157,627	26.37	4,916.2
2nd Quarter	32,798,366	23.28	4,340.1
3rd Quarter	33,937,853	24.09	4,491.1
4th Quarter	37,000,036	26.26	4,895.6

¹ Numbers may not add up due to rounding.

	Sample Amount ¹	Percentage Distribution	HI Payroll (millions)
Total	\$147,261,871	100.00	\$19,527.1
1st Quarter	38,241,953	25.97	5,071.2
2nd Quarter	33,472,798	22.73	4,438.5
3rd Quarter	35,284,655	23.96	4,678.7
4th Quarter	40,262,464	27.34	5,338.7

Similar calculations were performed for HI payroll, with the exception of the application of any annual covered earnings limit.

¹ Numbers may not add up due to rounding.

The table below shows the quarterly dollar and percentage distribution of the sample HI ACA accrued payroll for 2022 and the resulting distribution of the HI ACA accrued payroll.

	Sample Amount ¹	Percentage Distribution	HI ACA Payroll (millions)
Total	\$3,366,551	100.00	\$412.3
1st Quarter	763,355	22.67	93.5
2nd Quarter	462,732	13.74	56.7
3rd Quarter	725,414	21.55	88.9
4th Quarter	1,415,051	42.04	173.2

¹ Numbers may not add up due to rounding.

Preliminary estimates were made of the quarterly accrued payroll for the first nine months of 2023 based on presumed employment levels and wage increases. Under the OASDI annual limit of \$160,200 for 2023, estimated accrued payroll for January-September 2023 was \$16,406.0 million. The total HI estimated accrued payroll for January-September 2023 was \$17,003.2 million of which \$367.1 million was subject to the 0.9 percent additional Medicare tax.

		FICA Limits		
Year	RRA Limit ¹	OASDI	HI	
1937-1950	\$300	\$3,000		
1951	300	3,600		
1952	300	3,600		
1953	300	3,600		
1954	$300/350^2$	3,600		
1955	350	4,200		
1956	350	4,200		
1957	350	4,200		
1958	350	4,200		
1959	350/400 ³	4,800		
1960	400	4,800		
1961	400	4,800		
1962	400	4,800		
1963	400/450 ⁴	4,800		
1964	450	4,800		
1965	450	4,800		
1966	550	6,600	\$6,600	
1967	550	6,600	6,600	
1968	650	7,800	7,800	
1969	650	7,800	7,800	
1970	650	7,800	7,800	
1971	650	7,800	7,800	
1972	750	9,000	9,000	
1973	900	10,800	10,800	
1974	1,100	13,200	13,200	
1975	1,175	14,100	14,100	
1976	1,275	15,300	15,300	
1977	1,375	16,500	16,500	
1978	1,475	17,700	17,700	
1979	1,908	22,900	22,900	
1980	2,158	25,900	25,900	
1981	2,475	29,700	29,700	
1982	2,700	32,400	32,400	
1983	2,975	35,700	35,700	
1984	3,150	37,800	37,800	

Table 1. -- Annual Maximum Taxable Earnings Under the RRA and FICA

See footnotes at the end of table.

	ual Maximum Taxable Ea	FICA Limits		
Year	RRA Limit ¹	OASDI	HI	
1985	\$39,600	\$39,600	\$39,600	
1986	42,000	42,000	42,000	
1987	43,800	43,800	43,800	
1988	45,000	45,000	45,000	
1989	48,000	48,000	48,000	
1990	51,300	51,300	51,300	
1991	53,400	53,400	125,000	
1992	55,500	55,500	130,200	
1993	57,600	57,600	135,000	
1994	60,600	60,600	No Limit	
1995	61,200	61,200	No Limit	
1996	62,700	62,700	No Limit	
1997	65,400	65,400	No Limit	
1998	68,400	68,400	No Limit	
1999	72,600	72,600	No Limit	
2000	76,200	76,200	No Limit	
2001	80,400	80,400	No Limit	
2002	84,900	84,900	No Limit	
2003	87,000	87,000	No Limit	
2004	87,900	87,900	No Limit	
2005	90,000	90,000	No Limit	
2006	94,200	94,200	No Limit	
2007	97,500	97,500	No Limit	
2008	102,000	102,000	No Limit	
2009	106,800	106,800	No Limit	
2010	106,800	106,800	No Limit	
2011	106,800	106,800	No Limit	
2012	110,100	110,100	No Limit	
2013	113,700	113,700	No Limit	
2014	117,000	117,000	No Limit	
2015	118,500	118,500	No Limit	
2016	118,500	118,500	No Limit	
2017	127,200	127,200	No Limit	
2018	128,400	128,400	No Limit	
2019	132,900	132,900	No Limit	
2020	137,700	137,700	No Limit	
2021	142,800	142,800	No Limit	
2022	147,000	147,000	No Limit	
2023	160,200	160,200	No Limit	

¹ Earnings bases are monthly through 1984 and annual thereafter.

 2 The RRA limit was \$300 for the first six months of 1954, raised to \$350 for the last six months of the year.

 3 The RRA limit was \$350 for the first six months of 1959, raised to \$400 for the last six months of the year.

⁴ The RRA limit was \$400 for the first six months of 1963, raised to \$450 for the last six months of the year.

				(in millions)			
			RRA Payroll	FICA Level Payroll	Multiple RR		Final FICA
		RRA Creditable	Up to FICA	Exceeding RRA	Employment	Dual Coverage	Accrued
Y	lear	Payroll	Limit ¹	Monthly Limit	Adjustment	Self Employment	Payroll
1	1937	\$2,264.3	\$2,136.2	\$4.0	\$0.5		\$2,140.7
1	1938	2,007.5	1,912.1	4.0	0.5		1,916.6
1	1939	2,145.3	2,118.1	4.0	0.5		2,122.6
1	1940	2,248.2	2,217.6	3.9	0.6		2,222.1
1	1941	2,656.9	2,616.8	4.8	0.8		2,622.4
1	942	3,301.7	3,228.5	8.3	1.4		3,238.2
1	1943	3,944.4	3,825.8	13.0	2.3		3,841.1
1	944	4,301.4	4,134.2	15.0	3.3		4,152.5
1	1945	4,340.0	4,181.3	16.4	3.1		4,200.8
1	946	4,639.5	4,423.9	22.5	4.3		4,450.7
1	947	4,750.3	4,486.8	20.8	5.2		4,512.8
1	1948	4,951.5	4,592.5	24.8	7.1		4,624.4
1	949	4,609.3	4,262.7	26.0	6.8		4,295.5
1	950	4,704.3	4,334.1	29.6	7.3		4,371.0
1	1951	5,111.4	5,111.4	111.9	5.7	\$1.6	5,227.8
1	952	5,046.2	5,046.2	118.4	6.5	2.5	5,169.2
1	953	4,989.3	4,989.3	106.3	7.9	1.2	5,102.6
1	954	4,706.7	4,527.0	55.7	8.4	2.2	4,589.5
	955	4,924.6	4,924.6	116.7	7.0	10.3	5,040.6
1	956	5,059.7	5,059.7	126.5	13.1	14.8	5,188.2
1	957	4,859.5	4,859.5	127.8	16.7	6.6	4,999.1
1	1958	4,246.4	4,246.4	149.9	18.4	8.5	4,408.3
1	959	4,377.1	4,377.1	321.4	22.7	9.7	4,713.9
	960	4,403.8	4,403.8	137.8	16.8	10.6	4,550.5
	961	4,076.5	4,076.5	127.6	14.7	10.1	4,211.2
	962	3,990.8	3,990.8	129.3	15.3	9.8	4,128.1
	963	3,954.8	3,906.7	113.7	18.1	15.7	4,026.7
1	964	4,210.9	3,890.4	75.9	17.4	20.1	3,968.6
1	1965	4,139.5	3,794.1	63.5	16.2	23.1	3,856.5

 Table 2. -- Summary of Accrued Taxable Payroll Calculations, 1937-1965

 $\frac{1965}{1} \frac{4,139.5}{1} \frac{3,794.1}{63.5} \frac{63.5}{1}$

		Prior Year ¹	RRA Payroll	Multiple Railroad			Final OASDI	HI Payroll	Final HI	Final HI ACA
	RRA Creditable	& Coverage	Up to FICA	& Miscellaneous		Miscellaneous	Accrued	Inflation	Accrued	Accrued
Year	Payroll	Adjustments	Limit	Comp Adjustment	1/2 Tips	Adjustments ²	Payroll	Factor	Payroll ³	Payroll ⁴
1966	\$4,717.0	\$1.8	\$4,834.4	\$11.4	\$0.5	\$20.9	\$4,824.5			
1967	4,611.6	1.4	4,747.4	11.7	0.3		4,758.9			
1968	4,994.8	5.1	5,126.1	8.8	0.2		5,134.7			
6961	4,960.3	6.1	5,122.5	8.8	0.1		5,131.2			
1970	4,893.6	2.1	5,062.2	10.9	0.1		5,073.1			
171	4,824.4	5.5	5,023.2	12.6	0.0	1.2	5,034.5			
1972	5,346.5	3.1	5,526.3	8.8	0.0	2.4	5,532.7			
1973	6,262.1	2.6	6,471.2	9.2	0.0	3.6	6,476.9			
1974	7,268.0	2.8	7,458.0	11.3	0.0	3.6	7,465.7			
1975	7,105.8	6.3	7,361.0	9.6	0.0	5.1	7,365.5			
1976	7,833.1	15.0	8,115.7	15.2	0.0	5.6	8,125.3			
1977	8,468.3	14.9	8,725.6	4.7	0.0	1.2	8,729.2			
1978	8,991.1	10.6	9,383.4	8.8	0.0	0.3	9,392.0			
1979	11,132.3	36.6	11,557.3	13.5	0.0	0.2	11,570.6			
1980	11,828.3	42.9	12,163.2	9.7	0.0		12,172.8			
1981	12,333.3	(64.4)	12,572.5	6.3	0.0		12,578.8			
1982	11,785.5	(14.8)	12,152.7	6.8	0.0		12,159.5			
1983	11,711.6	(1.0)	11,964.4	13.4	0.0		11,977.8			
1984	12,332.0	(2.1)	12,570.0	5.6	0.0		12,575.6			
1985	12,113.9	(1.8)	12,112.1	14.2	0.2		12,126.1			
1986	11,968.9	(1.4)	11,967.6	14.2	0.0		11,981.8			
1987	11,878.0	(1.9)	11,876.1	35.3	0.0		11,911.4			
1988	11,661.2	(13.2)	11,648.1	20.5			11,668.5			
1989	11,517.8	(5.0)	11,512.8	12.2			11,525.0			
1990	11,390.4	(7.3)	11,383.1	9.9			11,393.0			
1661	11,575.3	(11.4)	11,563.9	12.4			11,576.4	1.0415	\$12,044.0	
1992	11,901.4	(4.9)	11,896.5	15.7			11,912.3	1.0581	12,588.2	
1993	11,719.8	(3.0)	11,716.8	12.3			11,729.1	1.0612	12,434.4	
1994	11,888.5	2.7	11,891.2	9.8			11,901.0	1.0522	12,511.6	
1995	11,918.0	(3.1)	11,914.9	13.5			11,928.3	1.0644	12,682.2	
1996	12,224.1	(3.4)	12,220.8	14.2			12,235.0	1.0585	12,935.8	
1997	12,508.5	(1.7)	12,506.8	17.2			12,524.0	1.0538	13,179.2	
1998	13,166.1	(3.3)	13,162.8	19.6			13,182.4	1.0785	14,195.8	
1999	13,325.7	(3.8)	13,321.8	38.8			13,360.6	1.0777	14,357.4	
2000	13.362.2	(3.8)	13.358.3	9.5			13.367.8	1 0516	14.047.2	

				(Dollar amounts in millions)	ints in millio	ns)				
		Prior Year ¹	RRA Payroll	Multiple Railroad			Final OASDI	HI Payroll	Final HI	Final HI ACA
	RRA Creditable	& Coverage	Up to FICA	& Miscellaneous		Miscellaneous	Accrued	Inflation	Accrued	Accrued
Year	Payroll	Adjustments	Limit	Comp Adjustment	1/2 Tips	Adjustments ²	Payroll	Factor	Payroll ³	Payroll ⁴
2001	\$13,247.1	(\$3.3)	\$13,243.8	\$8.2			\$13,251.9	1.0352	\$13,710.4	
2002	13,113.3	(3.5)	13,109.8	8.0			13,117.7	1.0345	13,562.3	
2003	13,262.6	(1.5)	13,261.1	9.7			13,270.8	1.0474	13,889.2	
2004	13,871.0	(0.8)	13,870.2	7.8			13,878.0	1.0535	14,612.3	
2005	14,564.7	(0.9)	14,563.8	8.6			14,572.4	1.0588	15,420.3	
2006	15,033.1	(0.4)	15,032.8	9.5			15,042.3	1.0759	16,173.6	
2007	15,619.0	(0.7)	15,618.3	10.7			15,629.0	1.0785	16,844.4	
2008	16,202.5	(0.5)	16,202.0	11.0			16,213.0	1.1057	17,915.0	
2009	15,341.8	(0.5)	15,341.3	7.6			15,348.9	1.0585	16,238.8	
2010	15,439.7	(0.4)	15,439.3	7.7			15,447.0	1.0541	16,274.8	
2011	16,572.4	(0.4)	16,572.0	10.3			16,582.3	1.0775	17,856.1	
2012	17,350.2	(0.3)	17,349.8	11.4			17,361.2	1.1252	19,521.9	
2013	17,771.7	(0.4)	17,771.3	12.7			17,784.0	1.0532	18,716.7	\$593.1
2014	19,215.2	(0.5)	19,214.7	16.7			19,231.4	1.0772	20,697.4	851.6
2015	19,987.2	(0.6)	19,986.6	12.8			19,999.4	1.0684	21,352.7	624.1
2016	18,314.7	(0.1)	18,314.6	9.6			18,324.2	1.0648	19,500.8	629.1
2017	18,504.3		18,504.3	12.1			18,516.4	1.0637	19,683.6	656.8
2018	19,664.6		19,664.6	13.2			19,677.8	1.0517	20,681.1	403.6
2019	19,187.6		19,187.6	11.4			19,199.0	1.0523	20,191.3	444.0
2020	17,476.5		17,476.5	9.3			17,485.7	1.0302	18,004.6	317.9
2021	17,108.4		17,108.4	10.6			17,119.0	1.0479	17,928.0	138.7
2022	18,631.0		18,631.0	12.0			18,643.0	1.0481	19,527.1	412.3
¹ Prior year ac	¹ Prior year adjustments for 1966-1981. Beginning with	981. Beginning w.	ith 1982, prior year	1982, prior year adjustments are reflected in the RRA creditable payroll column.	cted in the RF	A creditable payr	oll column.			
² Self-employ	Self-employment income in 1966, sickness payments in	sickness payments	s in 1971-1979.							
³ RRA payroll	RRA payroll up to FICA limit times HI inflation factor.	es HI inflation fact		After 1993, HI limit on taxable pay was removed and all compensation is taxable.	vas removed	and all compensati	ion is taxable.			
⁴ RRA navroll	l ahove \$200 000 ner i	individual subject t	o additional 0.9 ner	⁴ RRA navroll above \$200 000 ner individual subject to additional 0.9 nercent HI tax under ACA	A					
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	Additional Medicare Tax		Final HI ACA		Shortfall	
	Com	pensation	Accrued Shortfall ¹		Adjustment	
Year	Regular	Miscellaneous	Payroll	Amount	Date ²	
2013	\$592.0	\$1.1	\$593.1	\$1.2	Dec 2015	
2014	839.5	12.1	851.6	1.4	Dec 2016	
2015	624.1	0.0	624.1	1.7	Dec 2017	
2016	628.4	0.7	629.1	1.8	Dec 2018	
2017	655.6	1.2	656.8	2.4	Dec 2019	
2018	403.6	0.0	403.6	1.8	Dec 2020	
2019	444.0	0.0	444.0	3.0	Dec 2021	
2020	317.6	0.3	317.9	3.3	Dec 2022	
2021	138.7	0.0	138.7			
2022	412.3	0.0	412.3			

Table 4 Summary of Accrued Taxable Payroll Calculations Under ACA, 2013-2022
(in millions)

¹ Difference between payroll taxes actually collected and the amount that would have been collected under FICA. ² Adjustments are scheduled for December of the second year after the year for which the tax is collected.

Part II. 2022 Gross Earnings Sample for Financial Interchange Payroll Calculations

Design of the Sample

All railroad employers were asked to report the 2022 gross earnings of a one-percent sample of their employees. Sample employees were those with social security account numbers ending in "30". Employers with 5,000 or more employees were asked to supply monthly or quarterly gross earnings data for the sample employees. Smaller employers could supply monthly, quarterly or annual gross earnings figures. The full 2022 gross earnings one-percent sample consisted of 2,233 records.

The gross earnings sample is used to determine the dual coverage payroll adjustment, the inflation factor for calculating the HI payroll, and the quarterly payroll distribution estimate.

A comparison of the average RRA creditable compensation (exclusive of miscellaneous compensation) and average service months for all employees based on the tabulation of all 2022 creditable earnings records and the gross earnings sample is as follows:

	Number of Employees	Average Compensation	Average Months of Service
All employees	227,168	\$81,148	10.07
Gross earnings sample	2,233	\$80,825	10.06

In addition, the representation of the universe by the sample was checked by means of Chi-square tests applied to distributions of employees by service months and by compensation (excluding miscellaneous compensation) creditable under the RRA. The Chi-square statistics of the gross earnings sample versus the expected numbers based on 100-percent data were tested at a 95-percent credibility level.

Results are shown in the following table.

	Gross			Gross	
Service	earnings	Expected	Taxable	earnings	Expected
months	sample	number	compensation	sample	number
Total	2,233	2,233		2,233	2,233
_					
0	82	90	Under \$5,000	122	130
1	50	56	\$5,000-\$9,999	63	6
2	62	53	\$10,000-\$14,999	52	5
3	60	53	\$15,000-\$19,999	48	41
4	57	50	\$20,000-\$24,999	38	34
5	44	44	\$25,000-\$29,999	33	30
6	43	39	\$30,000-\$34,999	37	30
7	32	41	\$35,000-\$39,999	36	29
8	41	41	\$40,000-\$44,999	24	30
9	42	43	\$45,000-\$49,999	40	30
10	59	50	\$50,000-\$54,999	43	43
11	55	64	\$55,000-\$59,999	49	52
12	1,606	1,609	\$60,000-\$64,999	62	7
			\$65,000-\$69,999	88	100
			\$70,000-\$74,999	108	112
			\$75,000-\$79,999	130	122
			\$80,000-\$84,999	130	138
			\$85,000-\$89,999	141	131
			\$90,000-\$94,999	128	118
			\$95,000-\$99,999	106	113
			\$100,000-\$104,999	132	111
			\$105,000-\$109,999	93	98
			\$110,000-\$114,999	85	86
			\$115,000-\$119,999	64	71
			\$120,000-\$124,999	66	62
			\$125,000-\$129,999	47	52
			\$130,000-\$134,999	45	44
			\$135,000-\$139,999	31	30
			\$140,000-\$144,999	28	3(
			\$145,000-\$146,999	17	1:
			\$147,000	147	152
rees of					
edom		12			30
square		10.087			20.387
Threshold		21.026			43.773

The above Chi-square values are below the acceptable limit defined by the 95-percent credibility level. From this, and the comparison of averages, it may be concluded that the 2022 gross earnings sample adequately represents the universe of employee data and should produce valid estimates.

Sampling Errors in Financial Interchange HI Tax Calculation

It is estimated that accrued HI taxes (excluding ACA amounts) on railroad payrolls in calendar year 2022, had railroad employment been covered under HI, would have amounted to \$566.3 million. The estimate was obtained by applying the HI tax rate to the RRA taxable payroll after it was adjusted to include compensation in excess of the OASDI limit. The estimated 95-percent confidence interval for this adjustment was +/- \$9.6 million. Since the RRA total taxable payroll is available on a 100-percent basis, this is the only error inherent in the estimate. Thus, the 95-percent confidence interval for 2022 HI taxes was \$556.7 million to \$575.8 million.

The adjustment calculation uses the following definitions:

- A = estimated difference between payroll under the RRA annual creditable limit and total HI taxable payroll
- X_i = HI taxable payroll for sample account i
- Y_i = RRA creditable payroll for sample account i
- N = universe number
- n = sample number
- B = Universe amount of RRA creditable payroll

The formula for the adjustment amount, A, is:

$$A = \left[\frac{\sum_{i=1}^{n} X_i}{\sum_{i=1}^{n} Y_i} - 1\right] B$$

This calculation gave A =\$896.1 million.

The standard error S_A associated with this estimate is computed from the formula:

$$S_A^2 = \frac{N(N-n)}{n(n-1)} \left\{ \sum_{i=1}^n X_i^2 + R^2 \sum_{i=1}^n Y_i^2 - 2R \sum_{i=1}^n X_i Y_i \right\}$$

where

$$R = \frac{\sum_{i=1}^{n} X_i}{\sum_{i=1}^{n} Y_i}$$

The standard error computed by the formula was \$168.2 million. The 95-percent confidence interval was \$566.4 million to \$1,225.8 million.