

Actuarial Valuation Report

Educational Employees' Supplementary Retirement System of Fairfax County

For the Fiscal Year Ending June 30, 2020

Based on a June 30, 2020 Measurement Date



Introduction

This report documents the results of the actuarial valuation for the fiscal year ending June 30, 2020 for the Educational Employees' Supplementary Retirement System of Fairfax County ("ERFC"). The plan is a single-employer plan and does not issue a separate financial statement. As a result, all reporting requirements are included in the employer's financial statement. These results are based on a Measurement Date of June 30, 2020. The information provided in this report is intended strictly for documenting information relating to ERFC and plan disclosure and reporting requirements.

Determinations for purposes other than the financial accounting requirements may be significantly different from the results in this report. Thus, the use of this report for purposes other than those expressed here may not be appropriate.

This valuation has been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board. In addition, the valuation results are based on our understanding of the financial accounting and reporting requirements under U.S. Generally Accepted Accounting Principles as set forth in Government Accounting Standards Board Statement 68 (GASB 68) including any guidance or interpretations provided by ERFC and/or its audit partners prior to the issuance of this report. The information in this report is not intended to supersede or supplant the advice and interpretations of ERFC's auditors. Additional disclosures have been included as per GASB 67 requirements.

Future actuarial measurements may differ significantly from the current measurements presented in this report due (but not limited to) to such factors as the following:

- Plan experience differing from that anticipated by the economic or demographic assumptions;
- Changes in actuarial methods or in economic or demographic assumptions;
- Increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and
- Changes in plan provisions or applicable law.

Due to the limited scope of our assignment, we did not perform an analysis of the potential range of such future measurements.

Funded status measurements shown in this report are determined based on various measures of plan assets and liabilities. For entity and plan disclosure and reporting purposes, funded status is determined using plan assets measured at market value. Plan liabilities are measured based on the interest rates and other assumptions summarized in the Actuarial Assumptions and Methods section of this report.

These funded status measurements may not be appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, and funded status measurements for ERFC and plan disclosure and reporting purposes may not be appropriate for assessing the need for or the amount of future contributions.

In conducting the valuation, we have relied on personnel, plan design, and asset information supplied by ERFC as of the valuation date. While we cannot verify the accuracy of all the information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy or completeness of the information and believe that it has produced appropriate results.

The actuarial assumptions and methods used in this valuation are described in the Actuarial Assumptions and Methods section of this report. ERFC selected the economic and demographic assumptions and prescribed them for use for purposes of compliance with GASB 68. Aon provided guidance with respect to these assumptions, and it is our belief that the assumptions represent reasonable expectations of anticipated plan experience.

The undersigned are familiar with the near-term and long-term aspects of pension valuations and collectively meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained herein. The information provided in this report is dependent upon various factors as documented throughout this report, which may be subject to change. Each section of this report is considered to be an integral part of the actuarial opinions.

To our knowledge, no colleague of Aon providing services to ERFC has any material direct or indirect financial interest in ERFC. Thus, we believe there is no relationship existing that might affect our capacity to prepare and certify this actuarial report for ERFC.

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Accounting Requirements

Development of GASB 68 Net Pension Expense

Calculation Details

The following table illustrates the Net Pension Liability under GASB 68.

		cal Year Ending /30/2019	Fiscal Year Ending 06/30/2020
(1) Pension Liability	\$ 3,406,	340,888	\$ 3,543,956,246
(2) Plan Fiduciary Net Position	2,521.	441,472	 2,593,383,175
(3) Net Pension Liability	\$ 884,	899,416	\$ 950,573,071
(4) Plan Fiduciary Net Position as a Percentage of the Total Pension Liability		74.02%	73.18%
(5) Deferred Outflow of Resources for Contributions Made After Measurement Date	\$	0	\$ 0

Expense

The following table illustrates the pension expense under GASB 68.

	Fiscal Year Ending 06/30/2019	Fiscal Year Ending 06/30/2020
(1) Service Cost	\$ 90,633,074	\$ 92,719,549
(2) Interest Cost	231,477,042	243,578,788
(3) Expected Investment Return	(175,812,278)	(181,480,264)
(4) Employee Contributions	(46,645,396)	(49,095,601)
(5) Administrative Expense	4,262,159	4,381,191
(6) Plan Changes	0	0
(7) Amortization of Unrecognized		
(a) Liability (Gain)/Loss	1,708,604	1,230,490
(b) Asset (Gain)/Loss	48,689,414	37,063,484
(c) Assumption Change (Gain)/Loss	10,447,431	 10,447,431
(8) Total Expense	\$ 164,760,050	\$ 158,845,068

Shown below are details regarding the calculation of Service and Interest Cost components of the Expense.

			Fiscal Year Ending 06/30/2019	Fiscal Year Ending 06/30/2020
(1)	Dev	velopment of Service Cost:		
	(a)	Normal Cost at Beginning of Measurement Period	\$ 90,633,074	\$ 92,719,549
(2)	Dev	velopment of Interest Cost:		
	(a)	Total Pension Liability at Beginning of Measurement Period	\$ 3,238,436,290	\$ 3,406,340,888
	(b)	Normal Cost at Beginning of Measurement Period	90,633,074	92,719,549
	(c)	Actual Benefit Payments	(181,932,073)	(185,986,496)
	(d)	Discount Rate, Beginning of Measurement Period	7.25%	7.25%
	(e)	Interest Cost	\$ 231,477,042	\$ 243,578,788
(3)	Dev	velopment of Expected Investment Return:		
	(a)	Plan Fiduciary Net Position at Beginning of		
		Measurement Period	\$ 2,446,279,897	\$ 2,521,441,472
	(b)	Actual Contributions—Employer	96,982,911	104,741,255
	(c)	Actual Contributions—Employee	46,645,396	49,095,601
	(d)	Actual Benefit Payments	(181,932,073)	(185,986,496)
	(e)	Administrative Expenses	(4,262,159)	(4,381,191)
	(f)	Other	0	0
	(g)	Expected Return on Assets, Beginning of Measurement Period	7.25%	7.25%
	(h)	Expected Return	\$ 175,812,278	\$ 181,480,264

Reconciliation of Net Pension Liability

Shown below are details regarding the Total Pension Liability, Plan Fiduciary Net Position, and Net Pension Liability for the Measurement Period from June 30, 2019 to June 30, 2020:

Increase (Decrease)

	7	Total Pension Liability (a)		an Fiduciary Net Position (b)		Net Pension Liability (c) = (a) – (b)
Balance Recognized at 06/30/2019 (Based on 06/30/2019 Measurement Date)	\$:	3,406,340,888	\$ 2	,521,441,472	\$	884,899,416
(Based on 66/66/2010 Measurement Bate)	Ψ	5,400,040,000	Ψ 2	,021,441,472	Ψ	004,000,410
Changes Recognized for the Fiscal Year:						
Service Cost	\$	92,719,549		N/A	\$	92,719,549
Interest on the Total Pension Liability		243,578,788		N/A		243,578,788
Changes of Benefit Terms		0		N/A		0
Differences Between Expected and						
Actual Experience		(12,696,483)		N/A		(12,696,483)
Changes of Assumptions		0		N/A		0
Benefit Payments		(185,986,496)		(185,986,496)		0
Contributions From the Employer		N/A		104,741,255		(104,741,255)
Contributions From the Employee		N/A		49,095,601		(49,095,601)
Net Investment Income		N/A		108,472,534		(108,472,534)
Administrative Expense		N/A		(4,381,191)		4,381,191
Net Changes	\$	137,615,358	\$	71,941,703	\$	65,673,655
Balance Recognized at 06/30/2020						
(Based on 06/30/2020 Measurement Date)	\$ 3	3,543,956,246	\$2	,593,383,175	\$	950,573,071

Liability (Gain)/Loss

The following table illustrates the liability gain/loss under GASB 68.

		Fiscal Year Ending 06/30/2019		Fiscal Year Ending 06/30/2020
(1)	Pension Liability at Beginning of Measurement Period	\$ 3,238,436,290	\$	3,406,340,888
(2)	Service Cost	90,633,074		92,719,549
(3)	Interest on the Total Pension Liability	231,477,042		243,578,788
(4)	Changes of Benefit Terms	0		0
(5)	Changes of Assumptions	0		0
(6)	Benefit Payments	 (181,932,073)	_	(185,986,496)
(7)	Expected Pension Liability at End of Measurement Period	\$ 3,378,614,333	\$	3,556,652,729
(8)	Actual Pension Liability at End of Measurement Period	 3,406,340,888		3,543,956,246
(9)	Pension Liability (Gain)/Loss	\$ 27,726,555	\$	(12,696,483)
(10)	Average Future Working Life Expectancy	6.7688		6.6962
(11)	Total Pension Liability (Gain)/Loss Amortization	\$ 4,096,229	\$	(1,896,073)
(12)	Pension Overall Liability (Gain)/Loss Amortization	4,096,229		(1,896,073)
(13)	Pension Assumption Change (Gain)/Loss Amortization	0		0

Liability (Gain)/Loss Impact on Expense

The following table details the allocation of the FY2020 liability gain/loss in the expense calculation under GASB 75.

		Fiscal Year Ending 6/30/2019	Fiscal Year Ending 6/30/2020
(1)	Total Liability (Gain)/Loss	\$ 27,726,555	\$ (12,696,483)
(2)	Recognized in Current Year Expense	4,096,229	(1,896,073)
(3)	Amount to be recognized in Future Years as		
	Deferred Outflow (1. – 2.)	\$ 23,630,326	\$ (10,800,410)

Assumptions Change Impact on Expense

The following table details the allocation of the FY2020 liability assumption change in the expense calculation under GASB 75.

		Fiscal Year Ending 6/30/2019			Fiscal Year Ending 6/30/2020	
(1)	Total Liability Assumption Change (Gain)/Loss	\$	0	\$	0	
(2)	Recognized in Current Year Expense		0		0	
(3)	Amount to be recognized in Future Years as					
	Deferred Inflow (1. – 2.)	\$	0	\$	0	

Asset (Gain)/Loss

The following table illustrates the asset gain/loss under GASB 68.

			Fiscal Year Ending 06/30/2019	Fiscal Year Ending 06/30/2020
(1)	Pension Asset at Beginning of Measurement Period	\$	2,446,279,897	\$ 2,521,441,472
(2)	Contributions—Employer		96,982,911	104,741,255
(3)	Contributions—Employee		46,645,396	49,095,601
(4)	Expected Investment Income		175,812,278	181,480,264
(5)	Benefit Payments		(181,932,073)	(185,986,496)
(6)	Administrative Expense		(4,262,159)	(4,381,191)
(7)	Other	_	0	 0
(8)	Expected Pension Asset at End of Measurement Period	\$	2,579,526,250	\$ 2,666,390,905
(9)	Actual Pension Asset at End of Measurement Period	_	2,521,441,472	 2,593,383,175
(10)	Pension Asset (Gain)/Loss	\$	58,084,778	\$ 73,007,730
(11)	Amortization Factor		5	5
(12)	Pension Asset (Gain)/Loss Amortization	\$	11,616,956	\$ 14,601,546

Asset (Gain)/Loss Impact on Expense

The following table details the allocation of the FY2020 asset gain/loss in the expense calculation under GASB 75.

		Fiscal Year Ending 6/30/2019	Fiscal Year Ending 6/30/2020
(1)	Total Asset (Gain)/Loss	\$ 58,084,778	\$ 73,007,730
(2)	Recognized in Current Year Expense	 11,616,956	 14,601,546
(3)	Amount to be recognized in Future Years as		
	Deferred Inflows (1. – 2.)	\$ 46,467,822	\$ 58,406,184

Deferred Outflows/Inflows

The following table illustrates the Deferred Inflows and Outflows as of June 30, 2020 under GASB 68.

	Deferred Outflows	Deferred Inflows
(1) Difference Between Actual and Expected Experience	\$ 33,994,254	\$ (14,658,210)
(2) Net Difference Between Expected and Actual Earnings		
on Pension Plan Investments	\$ 93,257,050	\$ (29,133,086)
(3) Assumption Changes	20,364,115	0
(4) Sub Total	\$ 147,615,419	\$ (43,791,296)
(5) Contributions Made in Fiscal Year Ending 2020		,
After Measurement Date	0	0
(6) Total	\$ 147,615,419	\$ (43,791,296)

Amortization of Deferred Inflows/Outflows

The table below lists the amortization bases included in the deferred inflows/outflows as of June 30, 2020.

Date		Period Balance		Period Balance		Period Balan		Period Balance		Balance		Period Balance		Period Balance		Period Balance		Annual
Established	Type of Base	Original	Remaining	Original	Remaining	Payment												
06/30/2014	Liability (Gain)/Loss	6.4496	0.4496	(17,051,192)	(1,188,632)\$	(1,188,632)												
06/30/2015	Liability (Gain)/Loss	6.5997	1.5997	(11,011,883)	(2,669,168)\$	(1,668,543)												
06/30/2015	Assumptions	6.5997	1.5997	45,752,095	11,089,840 \$	6,932,451												
06/30/2016	Liability (Gain)/Loss	6.6385	2.6385	19,857,344	7,892,384 \$	2,991,240												
06/30/2016	Asset (Gain)/Loss (Net)	5.0000	1.0000	(100,149,602)	(20,029,922)\$	(20,029,922)												
06/30/2016	Assumptions	6.6385	2.6385	23,334,195	9,274,275 \$	3,514,980												
06/30/2017	Liability (Gain)/Loss	6.5355	3.5355	12,140,768	6,567,773 \$	1,857,665												
06/30/2017	Asset (Gain)/Loss (Net)	5.0000	2.0000	(22,757,907)	(9,103,164)\$	(4,551,581)												
06/30/2018	Liability (Gain)/Loss	6.7688	4.7688	27,726,555	19,534,097 \$	4,096,229												
06/30/2018	Asset (Gain)/Loss (Net)	5.0000	3.0000	58,084,778	34,850,866 \$	11,616,956												
06/30/2019	Liability (Gain)/Loss	6.6962	5.6962	(12,696,483)	(10,800,410)\$	(1,896,073)												
06/30/2019	Asset (Gain)/Loss (Net)	5.0000	4.0000	73,007,730	<u>58,406,184</u> \$	14,601,546												
	Total Charges			\$ 96,236,398	\$ 103,824,123													

Amounts Recognized in the deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in the pension expense as follows:

Year End December 31:

2021	\$ 16,276,316
2022	\$ 35,387,724
2023	\$ 34,430,540
2024	\$ 17,796,480
2025	\$ 1,253,108
Total Thereafter	\$ (1,320,045)

¹ In the final year of amortization, the amount recognized is set equal to the outstanding amount of the base at the beginning of that year.

Statement of Fiduciary Net Position

		Fiscal Year Ending June 30, 2019		Fiscal Year Ending June 30, 2020
Assets				
Cash Equivalents	\$	209,727,176	\$	320,782,707
Receivables				
Contributions	\$	0	\$	0
Investment Income		3,809,682		5,982,466
Accounts Receivable – Sale of Investments		8,109,883		8,069,804
Other receivables		0		0
Total Receivables	\$	11,919,565	\$	14,052,270
Investments				
Equities	\$	670,619,312	\$	405,308,672
Bonds and Mortgage Backed Securities		83,451,025		449,083,485
U.S. Government Obligations		20,877,635		127,212,756
Preferred Securities		5,189,750		126,688
Real Estate		218,025,785		175,740,685
Global Asset Allocation		247,355,510		209,334,379
Better Beta		130,756,594		138,261,722
Hedge Fund of Funds		117,526,120		94,317,040
Private Equity		115,300,063		134,084,397
Commingled Fixed Income Funds		575,050,619		100,776,981
Commingled Equity Funds		267,951,298		641,004,139
Total Investments	\$	2,452,103,711	\$	2,475,250,944
Prepaid Expenses	\$	4,772	\$	8,433
Other	\$	38,238	\$	25,035
Total Assets	\$	2,673,793,462	\$	2,810,119,389
Liabilities				
Payables				
Accounts Payable & Securities Purchased	\$	8,702,006	\$	90,344,539
Securities lending Collateral	·	143,637,529	·	126,382,893
Other		12,455		8,782
Total Liabilities	\$	152,351,990	\$	216,736,214
Net Position Restricted for Pensions	\$	2,521,441,472	\$	2,593,383,175

Statement of Change in Fiduciary Net Position

	Fiscal Year Ending June 30, 2019	Fiscal Year Ending June 30, 2020
Additions		
Contributions:		
Employer	\$ 96,982,911	\$ 104,741,255
Employee	46,645,396	49,095,601
Total Contributions	\$ 143,628,307	\$ 153,836,856
Investment Income:		
Net Increase in Fair value of Investments	\$ 96,217,852	\$ 42,105,584
Interest and Dividends	30,432,169	23,332,691
Real Estate	4,227,412	58,903,601
Less Investment Expense	(13,768,175)	(16,307,839)
Net Investment Income	\$ 117,109,258	\$ 108,034,037
Other	618,242	438,497
Total Additions	\$ 261,355,807	\$ 262,309,390
Deductions		
Benefit Payments/Refunds	\$ 181,932,073	\$ 185,986,496
Administrative Expenses	4,262,159	4,381,191
Other	0	0
Total Deductions	\$ 186,194,232	\$ 190,367,687
Net Increase in Net Position	\$ 75,161,575	\$ 71,941,703
Net Position restricted for Postemployment benefits Other than Pensions		
Beginning of year	\$ 2,446,279,897	\$ 2,521,441,472
End of Year	\$ 2,521,441,472	\$ 2,593,383,175

Plan Fiduciary Net Position Projection

GASB Statement Number 67 includes specific instructions on how to determine the discount rate that should be used for the purposes of measuring the Total Pension Liability, by factoring in the ability of the plans assets to pay benefit obligations in future years. This is done by projecting employer contributions, employee contributions, benefit payments, expenses and investment return into the future. The Fiduciary Net Position (or fund assets) determined each year is then compared with the benefit obligations that are expected to be paid in those years. If the fund has sufficient assets to pay the projected benefit payments in a future year, the assumed expected return on plan assets is used. In years where assets are not projected to be sufficient to meet benefit payments, the use of a municipal bond rate is required, as described in the following paragraph.

The Single Discount Rate (SDR) is equivalent to applying these two rates to the benefits that are projected to be paid during the different time periods. The SDR reflects (1) the long-term expected rate of return on pension plan investments (during the period in which the fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on pension plan investments is 7.25%; the municipal bond rate is 2.21%; and the resulting SDR is 7.25%. We have relied on the information provided by ERFC's investment advisors, SegalMarco Advisors, for purposes of determining the expected rate of return on pension plan investments. We believe the analysis reasonably supports the use of a 7.25% expected rate of return.

The tables in this section provide background for the development of the SDR.

The Projection of Contributions table shows the development of expected contributions in future years. Normal cost contributions for future hires are not included (nor are their liabilities).

The Projection of Plan Fiduciary Net Position table shows the development of expected asset levels in future years.

The Present Values of Projected Benefit Payments table shows the development of the SDR. It breaks down the benefit payments into present values for funded and unfunded portions and shows the equivalent total at the SDR.

Plan Fiduciary Net Position Projection

Projection of Contributions¹

Fiscal Year	Payroll for Current Employees	Contributions from Current Employees	Service Cost and Expense Contributions	UAL Contributions	Total Contributions
2020					
2021	1,646,399,825	49,391,995	44,617,435	65,691,353	159,700,783
2022	1,548,609,675	46,458,290	41,967,322	65,661,050	154,086,662
2023	1,498,325,659	44,949,770	40,604,625	71,722,903	157,277,298
2024	1,452,122,149	43,563,664	39,352,510	77,452,422	160,368,596
2025	1,407,810,868	42,234,326	38,151,675	82,787,870	163,173,871
2026	1,363,448,310	40,903,449	36,949,449	87,635,371	165,488,269
2027	1,318,266,277	39,547,988	35,725,016	91,940,509	167,213,513
2028	1,274,500,830	38,235,025	34,538,972	95,858,017	168,632,014
2029	1,234,709,506	37,041,285	33,460,628	99,617,481	170,119,394
2030	1,198,599,834	35,957,995	32,482,056	103,258,903	171,698,954
2031	1,164,791,030	34,943,731	31,565,837	106,716,182	173,225,750
2032	1,132,820,462	33,984,614	30,699,435	109,982,149	174,666,198
2033	1,100,774,352	33,023,231	29,830,985	112,890,693	175,744,909
2034	1,066,864,771	32,005,943	28,912,035	115,247,436	176,165,414
2035	1,031,749,536	30,952,486	27,960,412	117,096,463	176,009,361
2036	995,980,331	29,879,410	26,991,067	118,483,623	175,354,100
2037	959,529,416	28,785,882	26,003,247	119,394,736	174,183,865
2038	922,764,279	27,682,928	25,006,912	119,866,353	172,556,193
2039	885,483,110	26,564,493	23,996,592	119,866,000	170,427,085
2040	847,892,248	25,436,767	22,977,880	119,414,273	167,828,920
2041	809,742,370	24,292,271	21,944,018	0	46,236,289
2042	769,023,426	23,070,703	20,840,535	0	43,911,238
2043	722,053,072	21,661,592	19,567,638	0	41,229,230
2044	669,011,492	20,070,345	18,130,211	0	38,200,556
2045	612,160,281	18,364,808	16,589,544	0	34,954,352
2046	553,621,276	16,608,638	15,003,137	0	31,611,775
2047	495,241,968	14,857,259	13,421,057	0	28,278,316
2048	436,962,571	13,108,877	11,841,686	0	24,950,563
2049	382,286,526	11,468,596	10,359,965	0	21,828,561
2050	334,085,006	10,022,550	9,053,704	0	19,076,254
2051	289,500,932	8,685,028	7,845,475	0	16,530,503
2052	243,105,432	7,293,163	6,588,157	0	13,881,320
2053	193,268,244	5,798,047	5,237,569	0	11,035,616
2054	144,158,552	4,324,757	3,906,697	0	8,231,454
2055	101,027,433	3,030,823	2,737,843	0	5,768,666
2056	66,165,326	1,984,960	1,793,080	0	3,778,040
2057	38,622,813	1,158,684	1,046,678	0	2,205,362
2058	18,555,161	556,655	502,845	0	1,059,500
2059	8,575,743	257,272	232,403	0	489,675
2060	5,303,989	159,120	143,738	0	302,858
2061	3,472,543	104,176	94,106	0	198,282
2062	2,293,507	68,805	62,154	0	130,959
2063	1,511,814	45,354	40,970	0	86,324
2064	992,135	29,764	26,887	0	56,651
2065	648,079	19,442	17,563	0	37,005
2066	420,450	12,614	11,394	0	24,008
2067	268,769	8,063	7,284	0	15,347

¹ The projections in this report are strictly for the purposes of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

Educational Employees' Supplementary Retirement System of Fairfax County Proprietary & Confidential

Fiscal Year	Payroll for Current Employees	Contributions from Current Employees	Service Cost and Expense Contributions	UAL Contributions	Total Contributions
2068	166,564	4,997	4,514	0	9,511
2069	99,801	2,994	2,705	0	5,699
2070	56,310	1,689	1,526	0	3,215
2071	27,678	830	750	0	1,580
2072	10,692	321	290	0	611
2073	2,844	85	77	0	162
2074	457	14	12	0	26
2075	106	3	3	0	6
2076	30	1	1	0	2
2077	5	0	0	0	0
2078	0	0	0	0	0

Plan Fiduciary Net Position Projection

Projection of Plan Fiduciary Net Position Ending June 30, 21201

2021 2,593,383,175 159,700,783 190,384,479 4,506,185 186,886,255 2,745,061,549 2022 2,745,061,549 154,006,662 195,806,619 4,769,737 197,455,719 2,865,337,574 157,257,298 203,431,488 5,031,884 208,232,195 3,052,983,865 2024 3,052,983,685 160,386,596 213,229,545 5,304,773 219,371,413 3,3741,189,376 2025 3,214,189,376 163,173,871 22,2857,374 5,584,879 230,907,638 3,379,728,632 2026 3,379,728,632 2029 165,484,250 2024 154,264,264 5,672,2515 242,246,661 3,458,653,003 167,213,513 244,684,951 6,166,555 244,427,428 3,719,773,038 168,832,014 265,590,881 6,166,555 244,427,428 3,719,773,038 168,832,014 265,590,881 6,166,555 244,427,428 3,719,774,045 170,119,394 267,988,829 6,762,237 278,545,823 4,065,982,356 2030 4,065,982,356 177,526,275 266,429,99 7,373,311 303,980,026 4,244,036,665 173,225,750 266,429,99 7,373,311 303,980,026 4,244,036,665 173,225,750 266,429,99 7,373,311 303,980,026 4,244,036,665 173,225,750 266,429,99 7,373,311 303,980,026 4,244,036,665 175,244,036,665 206,437,022 2034 4,269,866,141 174,666,198 295,075,683 7,692,164 316,303,388 4,615,367,880 2033 4,615,367,880 303,309,813 8,101,525 329,886,570 4,064,302 2034 4,809,473,022 175,165,414 312,024,67 8,356,766 343,462,221 2037 5,426,822,121 174,183,865 331,562,012 9,429,483 387,055,265 5,213,915,814 2036 5,213,915,614 175,354,100 325,826,510 9,595,544 372,435,262 5,426,822,121 2037 5,426,822,121 174,183,865 31,362,012 9,429,483 387,014,484 5,647,638,946 172,556,193 377,076,99 9,191,188 403,354,451 5,647,638,946 172,556,193 377,076,99 9,191,188 403,354,451 5,647,638,946 172,556,193 377,076,99 9,191,188 403,354,451 5,647,638,946 172,556,193 377,076,99 9,191,188 403,354,451 5,647,638,946 172,556,193 377,076,99 9,191,188 403,354,451 5,647,638,946 172,556,193 377,076,99 9,191,188 403,354,451 5,647,638,946 172,556,193 377,076,98,291 377,174,171 466,140,86 6,666,663 170,427,085 342,963,670 11,247,171 466,140,86 6,666,663 377,354,454 5,647,638,946 172,556,193 377,076,98,291 377,174,171 466,140,86 6,666,663 377,174,874,174,174 466,140,86 6,666,663 377,174,874,174 4	Fiscal Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings at 7.25%	Projected Ending Plan Net Position
2022 2,745,061,549 154,086,682 195,896,619 4,769,737 197,485,719 2,895,937,574 157,277,286 3,062,943,686 100,386,596 213,229,545 5,304,773 219,371,413 3,052,943,686 100,386,596 213,229,545 5,304,773 219,371,413 23,214,189,376 123,214,189,376 223,219,573,744 5,864,879 230,807,638 3,379,728,632 226,873,744 5,864,879 230,807,638 3,719,773,038 186,632,614 266,590,861 6,166,555 254,427,428 3,719,773,038 186,632,014 266,590,861 6,166,555 254,427,428 3,719,773,038 186,632,014 266,590,861 6,163,366 266,427,880 3,811,778,405 3,719,773,038 3,811,778,405 3,719,773,038 3,811,778,405 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,038 3,719,773,041	2020						
2023 2,895,937,574 157,277,298 203,431,488 5,031,894 208,232,195 3,052,983,685 2024 3,052,983,686 1103,083,980 213,229,645 5,304,773 219,371,413 3,214,189,376 2026 3,214,189,376 163,173,871 222,857,374 5,584,879 203,607,638 3,379,728,632 2026 3,379,728,632 165,489,280 232,915,444 5,872,515 242,524,661 3,549,953,603 2028 3,719,773,038 168,632,014 256,590,861 6,463,366 266,427,580 3,891,778,405 2030 4,065,982,356 171,699,895 277,454,219 7,064,929 290,874,443 4,460,966,923 2031 4,244,036,605 173,225,750 286,29,929 7,374,311 305,508,026 4,426,966,141 2032 4,245,966,141 174,689 255,756,83 7,692,164 315,503,388 4,815,367,809 2033 4,615,367,880 175,744,909 303,509,813 8,019,525 332,809,570 4,809,473,022 2034 4,809,473,022 176,165,414	2021	2,593,383,175	159,700,783	190,384,479	4,506,185	186,868,255	2,745,061,549
2024 3,052,983,885 160,388,598 213,229,545 5,304,773 219,371,413 3,214,189,376 163,773,871 222,857,374 5,584,679 230,807,638 3,379,728,632 165,488,698 232,916,444 5,584,679 230,807,638 3,379,728,632 165,489,698 232,916,444 5,582,679 220,807,638 3,379,728,632 3,584,953,603 167,213,513 244,654,951 6,166,555 254,427,428 3,719,773,038 168,682,014 256,689,881 6,166,555 254,427,428 3,719,773,048 2029 3,891,778,405 170,119,394 267,688,829 6,762,237 278,545,623 4,065,982,356 171,699,954 277,454,219 7,064,929 29,374,443 4,240,966,005 2031 4,240,966,005 173,225,750 286,429,929 7,374,311 303,509,263 4,615,367,880 175,744,909 303,509,813 8,019,525 329,889,570 4,869,961,411 174,666,188 29,075,883 7,892,164 316,503,388 4,615,367,880 175,744,909 303,509,613 8,019,525 329,889,570 4,869,473,022 104,641,444 1,302,447 8,367,698,673 343,852,	2022	2,745,061,549	154,086,662	195,896,619	4,769,737	197,455,719	2,895,937,574
2025 3,214,189,376 163,173,871 222,857,374 5,584,879 230,807,638 3,379,728,632 2026 3,379,728,632 165,488,269 232,915,444 5,872,515 224,224,661 3,548,933,603 2028 3,719,773,038 168,632,014 256,590,861 6,463,366 264,227,560 3,911,778,405 2029 3,891,778,405 170,119,394 267,698,829 6,762,237 278,545,623 4,065,992,356 2030 4,065,992,356 171,089,954 277,454,219 7,064,929 290,874,434 4,244,096,606 2031 4,244,036,605 171,757,44,909 303,509,813 7,602,164 316,503,860,066 4,426,966,141 2032 4,269,961,414 174,666,198 295,756,833 7,602,164 316,503,678,80 175,744,909 303,509,813 8,019,525 329,889,570 4,809,473,022 2034 4,809,473,022 176,165,414 312,302,467 8,356,796 343,652,267 5,008,631,440 2035 5,008,513,440 176,089,472 474,689,486 372,374,311 372,438,262	2023	2,895,937,574	157,277,298	203,431,488	5,031,894	208,232,195	3,052,983,685
2026 3,379,728,632 165,488,269 232,915,444 5,872,515 242,524,661 3,548,953,003 2027 3,548,953,003 168,052,014 256,590,861 6,165,555 254,427,428 3,719,773,038 2029 3,791,773,038 168,052,014 256,590,861 6,463,366 266,427,569 3,891,778,405 2030 4,065,982,356 171,198,954 277,454,219 7,064,929 290,874,443 4,244,036,605 2031 4,244,036,605 173,225,750 286,429,929 7,374,311 203,500,66 4,426,966,141 174,666,188 295,075,683 7,682,164 316,503,388 4,615,367,880 2033 4,815,367,880 175,744,999 303,509,891,873 301,952 329,889,573 5,008,631,440 2035 5,008,631,440 175,564,90 305,982,164 8,702,648 357,805,265 5,213,915,814 2036 5,213,915,814 175,554,910 328,865,107 9,824,433 387,614,454 5,647,638,22,121 2037 5,428,822,121 174,183,865 331,562,012 9,429,483 3	2024	3,052,983,685	160,368,596	213,229,545	5,304,773	219,371,413	3,214,189,376
2027 3,548,953,603 167,213,513 244,654,951 6,166,565 254,427,428 3,719,773,038 168,632,014 266,590,861 6,463,366 266,427,680 3,811,778,405 170,119,394 267,698,829 6,762,237 276,545,623 4,065,982,356 103,088,2366 171,698,954 277,454,219 7,044,929 290,874,443 4,244,036,605 4,244,036,605 173,225,750 286,429,929 7,374,311 303,508,026 4,426,966,141 174,666,198 286,756,883 7,692,164 316,503,388 4,615,367,880 4,426,966,141 746,666,198 286,756,883 7,692,164 316,503,388 4,615,367,880 4,615,367,880 175,744,909 303,509,181 8,019,625 329,889,570 4,809,473,022 176,165,414 312,302,467 8,702,848 357,805,265 5213,915,814 2034 4,809,473,022 176,165,414 312,327,404 8,702,848 357,805,265 5213,915,814 2035 5,268,822,121 174,183,865 315,827,144 8,702,848 357,805,265 5213,915,814 2036 5,273,916,814 175,584,202 328,826,51	2025	3,214,189,376	163,173,871	222,857,374	5,584,879	230,807,638	3,379,728,632
2028 3,719,773,038 168,632,014 256,590,861 6,463,366 266,427,580 3,891,778,405 2029 3,891,778,405 170,119,894 267,698,829 6,762,237 278,645,623 4,065,982,356 2031 4,065,982,356 171,698,984 277,745,4219 7,064,929 290,874,443 4,244,036,605 2031 4,240,366,051 173,225,750 286,429,929 7,374,311 303,508,026 4,426,966,141 2032 4,465,567,880 175,744,909 303,509,813 8,019,525 329,889,670 4,809,473,022 2034 4,809,473,022 176,165,414 312,302,467 8,365,766 343,652,267 5,088,631,440 2035 5,008,631,440 176,009,361 319,827,404 8,702,848 367,605,265 5,213,915,814 2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,876,665,663 2039 5,876,665,663 170,427,065 342,983,771 10,211,118 419,657,651 6,113,575,509 2042 6,482,807,172 43,911,233	2026	3,379,728,632	165,488,269	232,915,444	5,872,515	242,524,661	3,548,953,603
2029 3,891,778,405 170,119,394 267,688,829 6,762,237 278,545,623 4,065,982,356 2030 4,065,982,356 171,589,596 277,454,219 7,064,929 290,874,443 4,244,036,605 2031 4,244,036,605 173,225,750 266,429,929 7,374,311 303,509,602 4,426,966,141 2032 4,426,966,141 174,666,198 295,075,683 7,692,144 316,503,388 4,615,367,860 2034 4,809,473,022 176,165,414 312,302,467 3,365,769 343,652,267 5,008,631,440 2035 5,008,631,440 176,009,361 319,827,404 8,702,848 367,805,265 5,213,915,814 2036 5,213,915,814 175,354,100 325,826,510 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 174,183,865 331,552,012 9,429,483 367,614,454 5,647,638,946 2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,876,665,663 170,427,825 342,963,771 10,211,118 419	2027	3,548,953,603	167,213,513	244,654,951	6,166,555	254,427,428	3,719,773,038
2030 4,065,982,356 171,698,954 277,454,219 7,064,929 290,874,443 4,244,036,605 4,226,966,141 173,666,181 290,874,341 303,060,026 4,426,966,141 174,666,198 290,975,431 303,060,026 4,426,966,141 174,666,198 290,975,214 316,503,388 4,615,367,800 4,809,473,022 176,165,414 312,302,467 8,356,796 343,652,267 5,008,631,440 176,009,361 318,827,404 8,702,848 357,806,265 5,213,915,414 2036 5,213,915,814 175,354,100 325,826,510 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 174,183,865 331,552,012 9,429,483 387,614,454 5,647,688,946 2038 5,647,688,946 172,556,933 370,707,59 9,813,168 403,354,451 5,676,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2041 6,357,117,885 46,23,289 386,82,537 110,45,937 449,931,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,	2028	3,719,773,038	168,632,014	256,590,861	6,463,366	266,427,580	3,891,778,405
2031 4,244,036,605 173,225,750 286,429,929 7,374,311 303,508,026 4,426,966,141 2032 4,426,966,141 174,666,198 295,075,683 7,692,164 316,503,388 4,615,367,880 2033 4,615,367,880 175,744,909 30,509,813 8,019,625 329,889,570 4,809,473,022 2034 4,809,473,022 176,165,414 312,302,467 8,356,796 343,652,267 5,008,631,440 2035 5,008,631,440 176,009,361 319,827,404 8,702,848 357,805,265 5,213,915,614 2036 5,213,915,614 175,354,100 325,826,510 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 174,183,865 331,552,012 9,429,483 387,614,454 5,647,638,946 2039 5,876,665,663 170,427,085 342,963,771 10,211,118 419,667,651 6,113,575,509 2040 6,113,575,509 167,828,920 356,132,205 10,622,765 436,469,425 6,337,117,885 2041 6,387,117,885 46,236,289	2029	3,891,778,405	170,119,394	267,698,829	6,762,237	278,545,623	4,065,982,356
2032 4,426,966,141 174,666,198 295,075,683 7,692,164 316,503,388 4,615,367,880 2033 4,615,367,880 175,744,909 303,509,813 8,019,525 329,889,570 4,809,473,022 2035 5,006,631,440 176,009,361 319,827,404 8,762,848 357,805,265 5,213,915,814 2036 5,213,915,814 175,354,100 325,826,610 9,059,544 372,439,262 5,426,822,121 2037 5,426,822,121 174,183,865 315,552,012 9,429,483 387,614,454 5,647,638,946 2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,876,665,663 2040 6,113,675,509 167,828,920 350,133,205 10,622,765 436,469,425 6,357,117,865 46,236,289 386,892,537 11,045,937 449,391,473 6,482,807,172 43,911,238 369,900,670 11,264,331 456,019,825 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,828 6,613,682,333 40,414,171 466,214,828,333 46,614,828,629	2030	4,065,982,356	171,698,954	277,454,219	7,064,929	290,874,443	4,244,036,605
2033 4,615,367,880 175,744,909 303,509,813 8,019,525 329,889,570 4,809,473,022 2034 4,809,473,022 176,165,414 312,302,467 8,356,796 343,652,267 5,008,631,440 2036 5,038,631,440 176,009,361 319,827,404 8,702,848 357,805,265 5,213,915,814 2036 5,213,915,814 175,364,100 325,826,510 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 174,183,865 331,552,012 9,429,483 387,614,454 5,647,638,946 2038 5,876,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2040 6,13,575,509 167,828,202 350,133,205 10,622,765 436,499,425 6,357,117,885 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2045 6,819,862,372 34,954,352	2031	4,244,036,605	173,225,750	286,429,929	7,374,311	303,508,026	4,426,966,141
2034 4,809,473,022 176,165,414 312,302,467 8,356,796 343,652,267 5,008,631,440 2035 5,008,631,440 176,009,361 319,827,404 8,702,848 357,805,265 5,213,915,814 2036 5,213,915,814 175,354,100 325,826,510 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 174,183,865 331,552,012 9,429,483 387,614,454 5,647,639,946 2038 5,647,638,946 172,555,193 337,070,759 9,813,168 403,354,451 5,876,665,663 2040 6,113,575,509 167,829,203 301,33,205 10,622,765 436,469,425 6,357,117,885 2041 6,357,117,885 46,236,289 358,892,537 11,045,937 449,391,473 6,482,807,172 2042 6,803,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2044 6,716,822,091 38,200,556 397,278,648 11,679,949 473,789,322 6,819,662,372 2045 6,881,9862,372 34,954,352	2032	4,426,966,141	174,666,198	295,075,683	7,692,164	316,503,388	4,615,367,880
2035 5,008,631,440 176,009,361 319,827,404 8,702,848 357,805,265 5,213,915,814 2036 5,213,915,814 175,354,100 325,826,610 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 174,183,865 331,552,012 9,429,483 387,614,454 5,647,638,946 2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,676,665,663 2039 5,676,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2041 6,1357,117,885 46,236,289 358,892,537 11,045,937 449,391,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2045 6,819,862,372 34,954,352 413,566,663 11,849,988 480,555,602 6,909,956,275 2046 6,995,108,345 28,278,316	2033	4,615,367,880	175,744,909	303,509,813	8,019,525	329,889,570	4,809,473,022
2036 5,213,915,814 175,354,100 325,826,510 9,059,544 372,438,262 5,426,822,121 2037 5,426,822,121 1174,183,865 331,552,012 9,429,483 387,614,454 5,647,633,946 2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,876,665,663 2039 5,876,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2040 6,113,575,509 167,828,920 350,133,205 10,622,765 436,469,425 6,357,117,885 2041 6,557,117,885 46,236,289 388,892,537 11,045,937 449,91,473 6,482,807,172 2042 6,482,807,172 43,911,238 389,900,570 11,264,331 458,019,822,29 6,603,573,334 2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,556,602 6,999,956,275 2046 6,909,561,275 31,611,775 </td <td>2034</td> <td>4,809,473,022</td> <td>176,165,414</td> <td>312,302,467</td> <td>8,356,796</td> <td>343,652,267</td> <td>5,008,631,440</td>	2034	4,809,473,022	176,165,414	312,302,467	8,356,796	343,652,267	5,008,631,440
2037 5,426,822,121 174,183,865 331,552,012 9,429,483 387,614,454 5,647,638,946 2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,876,665,663 2039 5,876,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2040 6,113,575,509 167,828,920 350,133,205 10,622,765 436,469,425 6,357,117,885 2041 6,357,117,885 46,236,289 358,892,537 11,045,937 449,391,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,279,365	2035	5,008,631,440	176,009,361	319,827,404	8,702,848	357,805,265	5,213,915,814
2038 5,647,638,946 172,556,193 337,070,759 9,813,168 403,354,451 5,876,665,663 2039 5,876,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2040 6,113,575,509 167,828,920 350,133,205 10,622,765 436,469,425 6,357,117,885 2041 6,357,117,885 46,236,289 368,892,577 11,045,937 449,391,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,954,352 413,566,663 11,849,988 490,555,602 6,999,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563	2036	5,213,915,814	175,354,100	325,826,510	9,059,544	372,438,262	5,426,822,121
2039 5,876,665,663 170,427,085 342,963,771 10,211,118 419,657,651 6,113,575,509 2040 6,113,575,509 167,828,920 350,133,205 10,622,765 436,469,425 6,357,117,885 2041 6,357,117,885 46,236,289 358,892,537 11,045,937 449,391,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,203 382,720,390 11,474,171 466,214,088 6,716,822,091 2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,555,602 6,995,108,345 2047 6,985,108,345 28,278,316 449,503,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2051 7,100,883,227 19,076,254	2037	5,426,822,121	174,183,865	331,552,012	9,429,483	387,614,454	5,647,638,946
2040 6,113,575,509 167,828,920 350,133,205 10,622,765 436,469,425 6,357,117,885 2041 6,357,117,885 46,236,289 358,892,537 11,045,937 449,391,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,555,602 6,909,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,106,533 486,346,865 6,985,108,345 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,616 486,293,393 12,304,133 496,422,527 7,100,883,227 2050 7,102,346,408 16,530,503	2038	5,647,638,946	172,556,193	337,070,759	9,813,168	403,354,451	5,876,665,663
2041 6,357,117,885 46,236,289 358,892,537 11,045,937 449,391,473 6,482,807,172 2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,201 382,725,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,964,352 413,566,063 11,849,988 480,555,602 6,909,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,293,936 12,304,133 496,422,527 7,100,833,227 2050 7,100,832,227 19,076,254 502,445,910 12,332,282 497,171,119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320	2039	5,876,665,663	170,427,085	342,963,771	10,211,118	419,657,651	6,113,575,509
2042 6,482,807,172 43,911,238 369,900,570 11,264,331 458,019,825 6,603,573,334 2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,555,602 6,909,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,066,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,102,346,408 16,530,503 18,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320	2040	6,113,575,509	167,828,920	350,133,205	10,622,765	436,469,425	6,357,117,885
2043 6,603,573,334 41,229,230 382,720,390 11,474,171 466,214,088 6,716,822,091 2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,555,602 6,909,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 466,81,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,100,883,227 19,076,254 502,445,910 12,338,282 497,171,119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320	2041	6,357,117,885	46,236,289	358,892,537	11,045,937	449,391,473	6,482,807,172
2044 6,716,822,091 38,200,556 397,278,648 11,670,949 473,789,322 6,819,862,372 2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,555,602 6,909,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454	2042	6,482,807,172	43,911,238	369,900,570	11,264,331	458,019,825	6,603,573,334
2045 6,819,862,372 34,954,352 413,566,063 11,849,988 480,555,602 6,909,956,275 2046 6,909,956,275 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,669 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,333,3282 497,171,119 7,102,346,408 2050 7,100,883,227 19,076,254 502,445,910 12,238,282 497,171,119 7,102,346,408 2051 7,085,023,402 13,881,320 534,185,903 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454	2043	6,603,573,334	41,229,230	382,720,390	11,474,171	466,214,088	6,716,822,091
2046 6,909,956,275 31,611,775 430,800,036 12,006,533 486,346,865 6,985,108,345 2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,100,883,227 19,076,254 502,445,910 12,338,282 497,171,119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666	2044	6,716,822,091	38,200,556	397,278,648	11,670,949	473,789,322	6,819,862,372
2047 6,985,108,345 28,278,316 449,530,569 12,137,115 491,002,799 7,042,721,776 2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,100,883,227 19,076,254 502,445,910 12,338,282 497,171,119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,849,843,484 3,778,040	2045	6,819,862,372	34,954,352	413,566,063	11,849,988	480,555,602	6,909,956,275
2048 7,042,721,776 24,950,563 468,581,956 12,237,222 494,377,047 7,081,230,208 2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,100,883,227 19,076,254 502,445,910 12,338,282 497,171,119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500	2046	6,909,956,275	31,611,775	430,800,036	12,006,533	486,346,865	6,985,108,345
2049 7,081,230,208 21,828,561 486,293,936 12,304,133 496,422,527 7,100,883,227 2050 7,100,883,227 19,076,254 502,445,910 12,338,282 497,171,1119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500	2047	6,985,108,345	28,278,316	449,530,569	12,137,115	491,002,799	7,042,721,776
2050 7,100,883,227 19,076,254 502,445,910 12,338,282 497,171,119 7,102,346,408 2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 <	2048	7,042,721,776	24,950,563	468,581,956	12,237,222	494,377,047	7,081,230,208
2051 7,102,346,408 16,530,503 518,138,603 12,340,824 496,625,918 7,085,023,402 2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2061 6,077,326,451 198,282	2049	7,081,230,208	21,828,561	486,293,936	12,304,133	496,422,527	7,100,883,227
2052 7,085,023,402 13,881,320 534,185,903 12,310,724 494,703,502 7,047,111,597 2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585	2050	7,100,883,227	19,076,254	502,445,910	12,338,282	497,171,119	7,102,346,408
2053 7,047,111,597 11,035,616 549,891,246 12,244,850 491,294,728 6,987,305,845 2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,34	2051	7,102,346,408	16,530,503	518,138,603	12,340,824	496,625,918	7,085,023,402
2054 6,987,305,845 8,231,454 563,845,813 12,140,933 486,363,859 6,905,914,412 2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,06	2052	7,085,023,402	13,881,320	534,185,903	12,310,724	494,703,502	7,047,111,597
2055 6,905,914,412 5,768,666 574,827,697 11,999,510 479,987,613 6,804,843,484 2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 <td>2053</td> <td>7,047,111,597</td> <td>11,035,616</td> <td>549,891,246</td> <td>12,244,850</td> <td>491,294,728</td> <td>6,987,305,845</td>	2053	7,047,111,597	11,035,616	549,891,246	12,244,850	491,294,728	6,987,305,845
2056 6,804,843,484 3,778,040 583,235,865 11,823,892 472,294,602 6,685,856,368 2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880	2054	6,987,305,845	8,231,454	563,845,813	12,140,933	486,363,859	6,905,914,412
2057 6,685,856,368 2,205,362 589,214,704 11,617,143 463,405,449 6,550,635,332 2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470	2055	6,905,914,412	5,768,666	574,827,697	11,999,510	479,987,613	6,804,843,484
2058 6,550,635,332 1,059,500 591,227,691 11,382,187 453,497,060 6,402,582,015 2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2056	6,804,843,484	3,778,040	583,235,865	11,823,892	472,294,602	6,685,856,368
2059 6,402,582,015 489,675 590,211,222 11,124,934 442,787,903 6,244,523,437 2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2057	6,685,856,368	2,205,362	589,214,704	11,617,143	463,405,449	6,550,635,332
2060 6,244,523,437 302,858 588,057,905 10,850,297 431,408,358 6,077,326,451 2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2058	6,550,635,332	1,059,500	591,227,691	11,382,187	453,497,060	6,402,582,015
2061 6,077,326,451 198,282 585,070,315 10,559,780 419,399,538 5,901,294,175 2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2059	6,402,582,015	489,675	590,211,222	11,124,934	442,787,903	6,244,523,437
2062 5,901,294,175 130,959 581,342,196 10,253,912 406,778,431 5,716,607,457 2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2060	6,244,523,437	302,858	588,057,905	10,850,297	431,408,358	6,077,326,451
2063 5,716,607,457 86,324 576,554,063 9,933,006 393,568,988 5,523,775,700 2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,4444,470	2061	6,077,326,451	198,282	585,070,315	10,559,780	419,399,538	5,901,294,175
2064 5,523,775,700 56,651 570,377,884 9,597,947 379,819,512 5,323,676,032 2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2062	5,901,294,175	130,959	581,342,196	10,253,912	406,778,431	5,716,607,457
2065 5,323,676,032 37,005 562,769,880 9,250,260 365,594,922 5,117,287,820 2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2063	5,716,607,457	86,324	576,554,063	9,933,006	393,568,988	5,523,775,700
2066 5,117,287,820 24,008 553,934,470 8,891,646 350,958,758 4,905,444,470	2064	5,523,775,700	56,651	570,377,884	9,597,947	379,819,512	5,323,676,032
	2065	5,323,676,032	37,005	562,769,880	9,250,260	365,594,922	5,117,287,820
2067 4,905,444,470 15,347 544,040,713 8,523,553 335,965,285 4,688,860,835	2066	5,117,287,820	24,008	553,934,470	8,891,646	350,958,758	4,905,444,470
	2067	4,905,444,470	15,347	544,040,713	8,523,553	335,965,285	4,688,860,835

¹ The projections in this report are strictly for the purposes of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

2088 4,688,860,855 9,511 533,15,340 8,147,224 320,685,350 4,486,275,132 2070 4,244,542,098 3,215 507,890,504 7,753,941 305,114,639 4,445,22,098 2071 4,018,584,947 1,580 493,787,561 6,882,573 273,512,158 3,781,328,550 2072 3,791,328,550 611 478,603,337 6,587,699 225,550,693 3,583,728,585 2073 3,653,728,5856 162 482,402,280 6,192,229 241,681,006 3,335,615,617 2074 3,336,815,617 26 482,20,864 5,797,961 22,858,348 3,111,866,562 2076 2,880,049,976 2 486,409,633 5,610,597 1947,729,688 2,670,287,86 2077 2,670,288,786 0 388,966,15 4,638,831 179,580,207 2,465,332,546 2078 2,464,152,776 0 347,988,421 3,506,387 194,729,888 2,670,287,86 2078 2,463,152,776 0 347,988,421 3,506,387 1,987,477,78	Fiscal Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings at 7.25%	Projected Ending Plan Net Position
2070 4,244,542,098 3,216 507,960,524 7,375,199 299,376,346 4,018,844,47 2071 4,018,864,447 1,580 493,787,561 6,687,699 275,90,983 3,791,328,550 2073 3,563,728,968 162 424,02,280 6,687,699 257,890,893 3,336,815,617 2074 3,336,815,617 26 447,284,816 5,797,961 225,863,485 3,111,868,562 2076 2,889,049,976 2 408,400,983 5,019,927 194,726,688 2,889,049,976 2 408,400,983 5,019,927 194,726,688 2,889,049,976 2 408,400,983 5,019,927 194,726,688 2,889,049,976 2 408,400,947 2,248,527,776 0 386,711,867 3,009,323 150,456,708,604 2,248,527,776 0 347,668,421 3,509,323 150,456,708,604,587 1,268,302,448 1,288,050 164,800,147 2,248,152,776 0 367,742,173 3,556,349 136,664,587 1,853,306,288 1,283,306,288 1,283,306,288 1,283,306,288 1,283,306,288 1,283,306,288	2068	4,688,860,835	9,511	533,113,340	8,147,224	320,665,350	4,468,275,132
2071 4.018,584,947 1,580 403,787,581 6,982,573 273,512,158 3,791,328,550 2072 3,791,328,550 611 478,603,397 6,587,699 257,590,883 3,563,728,958 2074 3,356,3728,958 162 482,402,280 6,192,229 241,681,006 3,356,115,617 2074 3,336,815,617 26 445,284,616 5,797,951 225,683,485 3,111,586,562 2076 2,189,049,976 2 408,409,935 5,019,927 194,729,688 2,670,288,786 2077 2,670,288,786 0 388,906,615 4,689,831 179,580,207 2,456,332,546 2078 2,406,332,546 0 368,711,867 4,280,050 104,480,147 2,248,152,776 2080 2,046,736,822 0 326,742,173 3,556,349 136,624,887 1,362,285,589 2081 1,883,902,887 0 305,190,896 3,219,826 123,392,774 1,688,014,943 2082 1,688,014,943 0 263,147,383 2,988,293 110,725,703	2069	4,468,275,132	5,699	521,089,431	7,763,941	305,114,639	4,244,542,098
2072 3,791,226,550 611 478,003,337 6,837,699 257,590,893 3,563,728,958 2073 3,563,728,958 162 462,402,280 6,192,229 241,681,006 3,336,815,617 2076 3,311,586,562 6 427,906,541 5,797,991 225,853,445 2,311,1586,562 2076 2,889,049,976 2 408,460,933 5,101,927 1947,280,88 2,889,049,976 2077 2,670,288,786 0 388,006,815 4,638,831 179,580,207 2,465,332,546 2078 2,486,332,546 0 386,711,867 4,286,650 164,800,147 2,248,152,776 0 347,968,421 3,906,323 150,458,790 2,046,736,822 2080 2,046,736,822 0 326,742,173 3,569,349 136,624,567 1,830,022,887 2081 1,853,002,287 0 305,190,896 3,219,826 123,326,777 1,680,014,943 0 283,428,399 1,898,293 110,725,703 1,492,199,514 2083 1,192,199,514 0 202,137,044	2070	4,244,542,098	3,215	507,960,524	7,375,189	289,375,346	4,018,584,947
2073 3,583,728,958 162 462,402,280 6,192,229 241,681,006 3,336,615,617 2074 3,336,615,617 26,462,246,616 5,797,961 225,853,485 3,111,586,562 2,408,609,9176 2,408,609,92 210,178,548 2,480,049,976 2,408,460,953 5,019,927 194,729,688 2,460,329,786 2,408,460,953 5,019,927 194,729,688 2,460,329,786 2,465,332,546 3,859,6635 4,339,811 179,580,207 2,246,152,776 3,479,684,21 3,906,323 150,458,790 2,046,736,822 2080 2,046,736,822 3,267,424,173 3,556,349 136,624,587 1,485,3062,887 2081 1,853,062,887 0 305,190,896 3,219,826 123,362,777 1,666,014,943 2,682,233 1,492,199,514 0 262,137,064 2,592,801 1,725,703 1,492,199,514 0 262,137,064 2,592,801 1,170,598,982 0 2,404,146,800 2,304,410 87,492,485 1,170,598,982 2085 1,170,598,982 0 219,848,918 2,033,988 76,965,898 1,025,681,984 2,025,899,944 0 199,313,405 1,782,194 67,199,770 991,786,135 2087 467,029,797 0 105,753,763 1,142,226 44,999,425 657,427,060 2087,476,900 44,012,763,46 1,342,26 44,999,425 657,427,060 2094 44,029,977 0 105,753,763 11,422,26 44,564,888 467,029,797 2091 467,029,797 0 105,753,723 11,422,26 44,564,888 467,029,797 2091 467,029,797 0 105,753,723 11,422,26 44,564,888 467,029,797 2091 467,029,797 0 105,753,723 11,422,26 44,564,888 467,029,797 2091 467,029,797 0 105,753,723 11,422,26 44,564,888 467,029,797 2091 467,029,797 0 105,753,723 11,422,26 44,564,888 467,029,797 2091 467,029,797 0 105,753,723 11,422,26 44,564,888 46,584 467,029,797 2091 467,029,797 0 105,753,766 22,183,756 20,173,356 256,190,04 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753 20,174,753	2071	4,018,584,947	1,580	493,787,561	6,982,573	273,512,158	3,791,328,550
2074 3.336,815,617 26 445,284,616 5,797,051 225,853,485 3,111,586,562 2076 3.111,686,562 6 427,308,541 5,406,599 210,178,548 2,889,049,976 2077 2.670,288,786 0 389,906,615 4,639,831 179,590,207 2,450,332,546 2078 2.456,332,546 0 388,711,818 4,280,509 146,800,147 2,248,152,776 2079 2.248,152,776 0 347,968,421 3,906,323 150,458,790 2,046,736,822 2080 2.046,736,822 0 367,742,173 3,556,349 136,624,887 1,858,062,887 2081 1.853,062,887 0 36,192,896 3,219,826 13,362,257,703 1,492,199,514 2082 1,688,014,943 0 283,442,839 2,898,293 110,725,703 1,492,199,514 2083 1,492,199,514 0 220,481,650 2,304,410 87,492,483 1,170,598,982 2084 1,328,225,559 0 249,849,916 2,333,406 2,304,410 87,	2072	3,791,328,550	611	478,603,397	6,587,699	257,590,893	3,563,728,958
2076 3.111.565.692 6 427.308,541 5.406,599 210,178,548 2.880,409,976 2077 2.670,298,766 0 388,906,615 4,639,831 179,590,207 2.456,332,546 2078 2.246,332,546 0 368,711,867 4,268,050 164,800,147 2.248,152,776 2080 2.046,736,822 0 326,742,173 3,556,349 136,624,587 1,653,062,887 2081 1.853,062,887 0 305,190,896 3,219,826 123,392,777 1,668,014,943 2082 1.688,014,943 0 223,342,839 2,988,293 110,725,703 1,492,199,514 2084 1.326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,598,982 0 221,948,918 2,033,998 76,965,598 1,202,581,994 2086 1,256,81,964 0 199,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 193,494,505 1,59,541 56,209,592 167,427,600 </td <td>2073</td> <td>3,563,728,958</td> <td>162</td> <td>462,402,280</td> <td>6,192,229</td> <td>241,681,006</td> <td>3,336,815,617</td>	2073	3,563,728,958	162	462,402,280	6,192,229	241,681,006	3,336,815,617
2076 2.889,049,976 2 408,460,953 5.019,927 194,729,888 2,670,289,786 2077 2.670,289,786 0 388,800,615 4,639,831 179,580,207 2,463,332,464 2078 2.465,332,546 0 368,711,867 4,268,050 164,800,147 2,248,152,776 2080 2.046,736,822 0 36,711,867 3,906,323 150,486,700 2,046,736,822 2081 1.853,062,887 0 305,190,896 3,219,826 123,362,777 1,686,014,943 2082 1,686,014,943 0 262,137,064 2,592,801 39,755,110 1,326,225,559 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,589,882 2085 1,170,598,982 0 199,313,405 1,782,194 67,199,770 891,786,195 2086 0,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,196 2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,196 2086 67,427,060 0 142,716,661 1,442,226 42,564,888 <td< td=""><td>2074</td><td>3,336,815,617</td><td>26</td><td>445,284,616</td><td>5,797,951</td><td>225,853,485</td><td>3,111,586,562</td></td<>	2074	3,336,815,617	26	445,284,616	5,797,951	225,853,485	3,111,586,562
2077 2,670,288,786 0 388,906,615 4,639,831 179,580,207 2,456,332,546 2078 2,466,332,546 0 386,711,667 4,268,050 164,800,147 2,248,152,776 2079 2,248,152,776 0 347,968,421 3,06,323 150,458,769 2,248,753,622 2080 2,046,736,822 0 326,742,173 3,556,349 136,624,587 1,853,002,887 2081 1,855,062,887 0 305,190,866 3,219,826 123,332,777 1,668,014,943 2082 1,666,014,943 0 262,137,064 2,592,801 19,755,910 1,326,225,559 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,683 1,705,688 2086 1,025,681,964 0 199,313,405 1,782,194 67,965,898 1,025,681,964 2087 81,766,135 0 179,406,945 1,549,541 67,997,797 9,009,317,609 67,427,600 1,427,669 1,439,549 41,528,488 7,685,898 1,625,681,962 2,609,742,706	2075	3,111,586,562	6	427,308,541	5,406,599	210,178,548	2,889,049,976
2078 2,456,332,546 0 368,711,867 4,268,050 164,800,147 2,248,152,776 2079 2,248,152,776 0 347,968,421 3,906,323 150,458,760 2,046,736,822 2081 1,853,062,887 0 305,190,866 3,219,826 123,362,777 1,668,014,943 2082 1,668,014,943 0 263,137,064 2,592,801 198,755,910 1,326,225,559 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,598,982 0 219,848,918 2,033,998 76,965,898 1,025,681,964 2086 1,025,681,964 0 199,313,405 1,762,194 67,199,770 891,766,135 2087 891,768,135 0 179,406,945 1,549,5641 58,209,592 769,039,241 2088 657,427,060 0 142,012,661 1,142,326 42,564,888 556,836,962 2091 467,029,797 0 105,553,723 113,497 29,965,176 367,475	2076	2,889,049,976	2	408,460,953	5,019,927	194,729,688	2,670,298,786
2079 2,248,152,776 0 347,968,421 3,906,323 150,458,790 2,046,736,822 2080 2,046,736,822 0 326,742,173 3,556,349 136,624,587 1,658,001,4943 2082 1,686,014,943 0 283,642,839 2,198,268 123,362,775 1,668,014,943 2083 1,492,199,514 0 262,137,064 2,592,801 98,755,910 1,326,225,559 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,598,982 0 219,848,918 2,033,998 76,965,988 1,025,681,984 2086 1,025,681,984 0 199,313,405 1,752,194 58,209,592 769,039,241 2087 891,766,135 0 179,406,945 1,549,541 58,209,592 769,039,241 2088 657,427,060 0 142,012,661 1,42,326 42,564,888 568,896 2099 467,029,797 0 106,357,723 811,497 29,661,76 67,427,606	2077	2,670,298,786	0	388,906,615	4,639,831	179,580,207	2,456,332,546
2080 2,046,736,822 0 326,742,173 3,556,349 136,624,587 1,853,062,887 2081 1,853,062,887 0 305,190,886 3,219,826 123,362,777 1,668,014,943 2082 1,668,014,943 0 283,642,839 2,898,233 110,725,703 1,492,199,514 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,599,992 0 219,848,918 2,033,998 76,965,898 1,025,681,964 2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 179,406,945 1,549,541 58,209,592 769,039,241 2088 769,039,241 0 160,275,346 1,336,260 49,999,425 657,427,060 2099 657,427,060 0 142,012,661 1,142,326 42,564,888 556,836,962 0 124,733,368 967,543 35,893,746 467,029,797 0 108,557,23 811,497 <	2078	2,456,332,546	0	368,711,867	4,268,050	164,800,147	2,248,152,776
2081 1,853,062,887 0 305,190,896 3,219,826 123,362,777 1,668,014,943 2082 1,668,014,943 0 283,642,839 2,898,283 110,725,703 1,492,199,514 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,598,982 0 219,848,918 2,033,998 76,965,988 1,025,681,964 2086 1,025,681,964 0 193,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 179,406,945 1,549,541 58,209,592 769,039,241 2088 769,039,241 0 160,275,346 1,336,260 49,999,425 657,427,060 2099 563,839,962 0 124,733,368 967,543 35,893,746 467,029,797 2091 467,029,797 0 108,535,723 811,497 2,996,176 367,647,753 2092 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164	2079	2,248,152,776	0	347,968,421	3,906,323	150,458,790	2,046,736,822
2082 1,668,014,943 0 283,642,839 2,898,293 110,725,703 1,492,199,514 2083 1,492,199,514 0 262,137,604 2,592,801 98,755,910 1,326,225,559 2084 1,326,225,559 0 240,814,650 2,304,410 67,492,483 1,170,598,982 2085 1,170,598,982 0 219,848,918 2,033,998 76,965,898 1,025,681,964 2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 179,406,945 15,495,41 55,209,592 769,039,241 2089 657,427,060 0 142,012,661 1,142,326 42,594,888 566,836,962 2090 656,836,962 0 124,733,368 967,543 35,893,746 467,029,797 2091 467,029,797 0 106,555,723 811,497 29,965,176 387,647,533 318,224,164 0 79,689,518 552,937 20,213,356 268,195,064 2093 316,224,16	2080	2,046,736,822	0	326,742,173	3,556,349	136,624,587	1,853,062,887
2083 1,492,199,514 0 262,137,064 2,592,801 98,755,910 1,326,225,559 2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,598,892 0 219,848,918 2,033,998 76,969,598 1,025,681,964 2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 179,406,945 1,549,541 58,209,592 769,039,241 2088 769,039,241 0 160,275,346 1,336,260 49,999,425 667,427,060 2089 657,427,060 0 142,012,661 1,142,326 42,564,888 566,836,962 2091 467,029,797 0 108,555,723 811,497 2,995,743 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 0 55,891,075 359,525 12,997,735	2081	1,853,062,887	0	305,190,896	3,219,826	123,362,777	1,668,014,943
2084 1,326,225,559 0 240,814,650 2,304,410 87,492,483 1,170,598,982 2085 1,170,598,982 0 219,848,918 2,033,998 76,966,898 1,025,681,964 2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,135 0 179,406,945 1,549,541 58,209,592 769,039,241 2089 657,427,660 0 142,012,661 1,142,326 42,564,888 565,836,902 2090 556,836,962 0 124,733,368 967,543 35,893,746 467,029,797 2091 467,029,797 0 106,535,723 811,497 29,965,176 367,467,753 2092 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 288,195,064 2094 28,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 20,912,312 0 55,891,0	2082	1,668,014,943	0	283,642,839	2,898,293	110,725,703	1,492,199,514
2085 1,170,598,982 0 219,848,918 2,033,998 76,965,898 1,025,681,964 2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 179,406,945 1,540,541 58,200,592 769,039,241 2088 769,039,241 0 160,275,346 1,336,260 49,999,425 667,427,060 2089 657,427,060 0 142,012,661 1,142,328 42,564,888 566,836,962 2090 556,836,662 0 124,733,388 967,543 35,893,746 467,029,797 2091 467,029,797 0 108,555,723 811,497 29,965,176 367,647,753 2093 3318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,652 16,317,714 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 0 45,923,596 284,370 10,219,578 <t< td=""><td>2083</td><td>1,492,199,514</td><td>0</td><td>262,137,064</td><td>2,592,801</td><td>98,755,910</td><td>1,326,225,559</td></t<>	2083	1,492,199,514	0	262,137,064	2,592,801	98,755,910	1,326,225,559
2086 1,025,681,964 0 199,313,405 1,782,194 67,199,770 891,786,135 2087 891,786,135 0 179,406,945 1,549,541 55,209,592 769,039,241 2088 769,039,241 0 160,275,346 1,336,260 49,999,425 657,427,060 2089 657,427,060 0 142,012,661 1,142,326 42,564,888 556,836,962 2090 556,836,962 0 124,733,388 967,543 35,893,746 467,029,797 2091 467,029,797 0 108,535,723 811,497 29,965,176 387,647,753 2092 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 0 55,891,075 359,525 12,997,735 183,669,447 2095 206,914,312 0 37,217,608	2084	1,326,225,559	0	240,814,650	2,304,410	87,492,483	1,170,598,982
2087 891,786,135 0 179,406,945 1,549,541 58,209,592 769,039,241 2088 769,039,241 0 160,275,346 1,336,260 49,994,255 657,427,060 2089 657,427,060 0 142,012,661 1,142,326 42,564,888 556,836,862 2090 556,836,962 0 124,733,368 967,543 38,893,746 467,029,797 2091 467,029,797 0 108,535,723 811,497 29,965,176 387,647,753 2092 387,647,753 0 93,500,409 673,565 24,750,335 318,224,164 2093 318,224,164 0 79,889,518 552,937 20,213,356 288,195,084 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,255 12,997,335 183,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097	2085	1,170,598,982	0	219,848,918	2,033,998	76,965,898	1,025,681,964
2088 769,039,241 0 160,275,346 1,336,260 49,999,425 657,427,060 2089 657,427,060 0 142,012,661 1,142,326 42,564,888 556,836,962 2090 556,836,962 0 124,733,368 967,543 35,893,746 467,029,797 2091 467,029,797 0 108,535,723 811,497 29,965,176 387,647,753 2092 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,37 7,922,718 98,154,332 2098 98,154	2086	1,025,681,964	0	199,313,405	1,782,194	67,199,770	891,786,135
2089 657,427,060 0 142,012,661 1,142,326 42,564,888 556,836,962 2090 656,836,962 0 124,733,368 967,543 35,893,746 467,029,797 2091 467,029,797 0 108,535,723 811,497 29,965,176 387,647,753 2092 387,647,753 0 93,500,409 673,565 24,750,386 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803<	2087	891,786,135	0	179,406,945	1,549,541	58,209,592	769,039,241
2090 556,836,962 0 124,733,368 967,543 35,893,746 467,029,797 2091 467,029,797 0 108,535,723 811,497 29,965,176 387,647,753 2092 387,647,753 0 93,500,409 673,665 24,750,385 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,302 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2100 55,367,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312	2088	769,039,241	0	160,275,346	1,336,260	49,999,425	657,427,060
2091 467,029,797 0 109,535,723 811,497 29,965,176 387,647,753 2092 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 224,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,466 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449	2089	657,427,060	0	142,012,661	1,142,326	42,564,888	556,836,962
2092 387,647,753 0 93,500,409 673,565 24,750,385 318,224,164 2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,678 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,57,298 2100 55,367,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187	2090	556,836,962	0	124,733,368	967,543	35,893,746	467,029,797
2093 318,224,164 0 79,689,518 552,937 20,213,356 258,195,064 2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 </td <td>2091</td> <td>467,029,797</td> <td>0</td> <td>108,535,723</td> <td>811,497</td> <td>29,965,176</td> <td>387,647,753</td>	2091	467,029,797	0	108,535,723	811,497	29,965,176	387,647,753
2094 258,195,064 0 67,145,834 448,632 16,311,714 206,912,312 2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,061,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0	2092	387,647,753	0	93,500,409	673,565	24,750,385	318,224,164
2095 206,912,312 0 55,891,075 359,525 12,997,735 163,659,447 2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 <t< td=""><td>2093</td><td>318,224,164</td><td>0</td><td>79,689,518</td><td>552,937</td><td>20,213,356</td><td>258,195,064</td></t<>	2093	318,224,164	0	79,689,518	552,937	20,213,356	258,195,064
2096 163,659,447 0 45,923,596 284,370 10,219,578 127,671,059 2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2107 4,193,281 0 1,760,3	2094	258,195,064	0	67,145,834	448,632	16,311,714	206,912,312
2097 127,671,059 0 37,217,608 221,837 7,922,718 98,154,332 2098 98,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,750,889	2095	206,912,312	0	55,891,075	359,525	12,997,735	163,659,447
2098 95,154,332 0 29,724,435 170,550 6,051,456 74,310,803 2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,588,52 <t< td=""><td>2096</td><td>163,659,447</td><td>0</td><td>45,923,596</td><td>284,370</td><td>10,219,578</td><td>127,671,059</td></t<>	2096	163,659,447	0	45,923,596	284,370	10,219,578	127,671,059
2099 74,310,803 0 23,374,808 129,120 4,550,423 55,357,298 2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876<	2097	127,671,059	0	37,217,608	221,837	7,922,718	98,154,332
2100 55,357,298 0 18,082,747 96,187 3,365,948 40,544,312 2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738	2098	98,154,332	0	29,724,435	170,550	6,051,456	74,310,803
2101 40,544,312 0 13,748,950 70,449 2,447,274 29,172,187 2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376	2099	74,310,803	0	23,374,808	129,120	4,550,423	55,357,298
2102 29,172,187 0 10,265,030 50,689 1,747,581 20,604,050 2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 <	2100	55,357,298	0	18,082,747	96,187	3,365,948	40,544,312
2103 20,604,050 0 7,518,959 35,801 1,224,725 14,274,015 2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918	2101	40,544,312	0	13,748,950	70,449	2,447,274	29,172,187
2104 14,274,015 0 5,398,885 24,802 841,697 9,692,025 2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752	2102	29,172,187	0	10,265,030	50,689	1,747,581	20,604,050
2105 9,692,025 0 3,797,177 16,841 566,833 6,444,840 2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116<	2103	20,604,050	0	7,518,959	35,801	1,224,725	14,274,015
2106 6,444,840 0 2,614,109 11,198 373,749 4,193,281 2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 4,733 11 294 1,931 2118 1,	2104	14,274,015	0	5,398,885	24,802	841,697	9,692,025
2107 4,193,281 0 1,760,388 7,286 241,056 2,666,663 2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 <td>2105</td> <td>9,692,025</td> <td>0</td> <td>3,797,177</td> <td>16,841</td> <td>566,833</td> <td>6,444,840</td>	2105	9,692,025	0	3,797,177	16,841	566,833	6,444,840
2108 2,666,663 0 1,158,852 4,634 151,895 1,655,072 2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276<		6,444,840				373,749	4,193,281
2109 1,655,072 0 745,089 2,876 93,353 1,000,460 2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481		4,193,281	0	1,760,388	7,286	241,056	2,666,663
2110 1,000,460 0 467,278 1,738 55,829 587,273 2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481		2,666,663	0	1,158,852	4,634	151,895	1,655,072
2111 587,273 0 285,401 1,020 32,376 333,229 2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481		1,655,072	0	745,089		93,353	1,000,460
2112 333,229 0 169,541 579 18,100 181,209 2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481		1,000,460	0	467,278	1,738	55,829	587,273
2113 181,209 0 97,625 315 9,649 92,918 2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481	2111	587,273	0	285,401	1,020	32,376	333,229
2114 92,918 0 53,819 161 4,814 43,752 2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481				169,541			181,209
2115 43,752 0 27,659 76 2,184 18,201 2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481							
2116 18,201 0 12,656 32 868 6,381 2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481							
2117 6,381 0 4,733 11 294 1,931 2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481		43,752				2,184	
2118 1,931 0 1,305 3 93 716 2119 716 0 276 1 42 481							
2119 716 0 276 1 42 481		6,381		4,733			
2120 481 0 69 1 32 444							
	2120	481	0	69	1	32	444

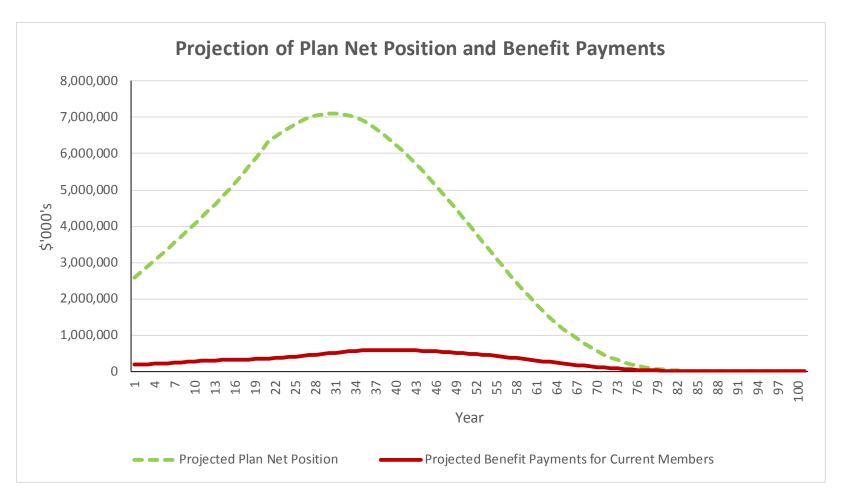
Plan Fiduciary Net Position Projection

Present Values of Projected Benefits Ending June 30, 21201

Fiscal Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Unfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments Using Expected Return Rate	Present Value of Unfunded Benefit Payments Using Municipal Bond Rate	Present Value of Benefit Payments Using Single Discount Rate
2020							
2021	2,593,383,175	190,384,479	190,384,479	0	183,836,985	0	183,836,985
2022	2,745,061,549	195,896,619	195,896,619	0	176,372,548	0	176,372,548
2023	2,895,937,574	203,431,488	203,431,488	0	170,775,248	0	170,775,248
2024	3,052,983,685	213,229,545	213,229,545	0	166,900,189	0	166,900,189
2025	3,214,189,376	222,857,374	222,857,374	0	162,644,415	0	162,644,415
2026	3,379,728,632	232,915,444	232,915,444	0	158,494,112	0	158,494,112
2027	3,548,953,603	244,654,951	244,654,951	0	155,228,533	0	155,228,533
2028	3,719,773,038	256,590,861	256,590,861	0	151,796,384	0	151,796,384
2029	3,891,778,405	267,698,829	267,698,829	0	147,662,227	0	147,662,227
2030	4,065,982,356	277,454,219	277,454,219	0	142,697,701	0	142,697,701
2031	4,244,036,605	286,429,929	286,429,929	0	137,355,716	0	137,355,716
2032	4,426,966,141	295,075,683	295,075,683	0	131,936,349	0	131,936,349
2033	4,615,367,880	303,509,813	303,509,813	0	126,533,778	0	126,533,778
2034	4,809,473,022	312,302,467	312,302,467	0	121,398,090	0	121,398,090
2035	5,008,631,440	319,827,404	319,827,404	0	115,919,049	0	115,919,049
2036	5,213,915,814	325,826,510	325,826,510	0	110,110,378	0	110,110,378
2037	5,426,822,121	331,552,012	331,552,012	0	104,471,109	0	104,471,109
2038	5,647,638,946	337,070,759	337,070,759	0	99,030,350	0	99,030,350
2039	5,876,665,663	342,963,771	342,963,771	0	93,950,302	0	93,950,302
2040	6,113,575,509	350,133,205	350,133,205	0	89,430,556	0	89,430,556
2041	6,357,117,885	358,892,537	358,892,537	0	85,471,192	0	85,471,192
2042	6,482,807,172	369,900,570	369,900,570	0	82,137,794	0	82,137,794
2043	6,603,573,334	382,720,390	382,720,390	0	79,239,610	0	79,239,610
2044	6,716,822,091	397,278,648	397,278,648	0	76,693,517	0	76,693,517
2045	6,819,862,372	413,566,063	413,566,063	0	74,440,798	0	74,440,798
2046	6,909,956,275	430,800,036	430,800,036	0	72,301,042	0	72,301,042
2047	6,985,108,345	449,530,569	449,530,569	0	70,344,599	0	70,344,599
2048	7,042,721,776	468,581,956	468,581,956	0	68,369,088	0	68,369,088
2049	7,081,230,208	486,293,936	486,293,936	0	66,156,996	0	66,156,996
2050	7,100,883,227	502,445,910	502,445,910	0	63,733,672	0	63,733,672
2051	7,102,346,408	518,138,603	518,138,603	0	61,281,343	0	61,281,343
2052	7,085,023,402	534,185,903	534,185,903	0	58,908,430	0	58,908,430
2053	7,047,111,597	549,891,246	549,891,246	0	56,541,136	0	56,541,136
2054	6,987,305,845	563,845,813	563,845,813	0	54,056,856	0	54,056,856
2055	6,905,914,412	574,827,697	574,827,697	0	51,384,343	0	51,384,343
2056	6,804,843,484	583,235,865	583,235,865	0	48,611,614	0	48,611,614
2057	6,685,856,368	589,214,704	589,214,704	0	45,790,153	0	45,790,153
2058	6,550,635,332	591,227,691	591,227,691	0	42,840,643	0	42,840,643
2059	6,402,582,015	590,211,222	590,211,222	0	39,875,981	0	39,875,981
2060	6,244,523,437	588,057,905	588,057,905	0	37,044,753	0	37,044,753
2061	6,077,326,451	585,070,315	585,070,315	0	34,365,082	0	34,365,082
2062	5,901,294,175	581,342,196	581,342,196	0	31,837,859	0	31,837,859
2063	5,716,607,457	576,554,063	576,554,063	0	29,441,149	0	29,441,149
2064	5,523,775,700	570,377,884	570,377,884	0	27,156,894	0	27,156,894
2065	5,323,676,032	562,769,880	562,769,880	0	24,983,366	0	24,983,366
2066	5,117,287,820	553,934,470	553,934,470	0	22,928,793	0	22,928,793
	, ,,	,,	,,	-	,,	•	,,

¹ The projections in this report are strictly for the purposes of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

Fiscal Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Unfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments Using Expected Return Rate	Present Value of Unfunded Benefit Payments Using Municipal Bond Rate	Present Value of Benefit Payments Using Single Discount Rate
2067	4,905,444,470	544,040,713	544,040,713	0	20,996,984	0	20,996,984
2068	4,688,860,835	533,113,340	533,113,340	0	19,184,380	0	19,184,380
2069	4,468,275,132	521,089,431	521,089,431	0	17,484,096	0	17,484,096
2070	4,244,542,098	507,960,524	507,960,524	0	15,891,452	0	15,891,452
2071	4,018,584,947	493,787,561	493,787,561	0	14,403,779	0	14,403,779
2072	3,791,328,550	478,603,397	478,603,397	0	13,017,116	0	13,017,116
2073	3,563,728,958	462,402,280	462,402,280	0	11,726,318	0	11,726,318
2074	3,336,815,617	445,284,616	445,284,616	0	10,528,878	0	10,528,878
2075	3,111,586,562	427,308,541	427,308,541	0	9,420,819	0	9,420,819
2076	2,889,049,976	408,460,953	408,460,953	0	8,396,540	0	8,396,540
2077	2,670,298,786	388,906,615	388,906,615	0	7,454,145	0	7,454,145
2078	2,456,332,546	368,711,867	368,711,867	0	6,589,346	0	6,589,346
2079	2,248,152,776	347,968,421	347,968,421	0	5,798,261	0	5,798,261
2080	2,046,736,822	326,742,173	326,742,173	0	5,076,516	0	5,076,516
2081	1,853,062,887	305,190,896	305,190,896	0	4,421,146	0	4,421,146
2082	1,668,014,943	283,642,839	283,642,839	0	3,831,226	0	3,831,226
2083	1,492,199,514	262,137,064	262,137,064	0	3,301,392	0	3,301,392
2084	1,326,225,559	240,814,650	240,814,650	0	2,827,837	0	2,827,837
2085	1,170,598,982	219,848,918	219,848,918	0	2,407,124	0	2,407,124
2086	1,025,681,964	199,313,405	199,313,405	0	2,034,761	0	2,034,761
2087	891,786,135	179,406,945	179,406,945	0	1,707,728	0	1,707,728
2088	769,039,241	160,275,346	160,275,346	0	1,422,489	0	1,422,489
2089	657,427,060	142,012,661	142,012,661	0	1,175,200	0	1,175,200
2090	556,836,962	124,733,368	124,733,368	0	962,432	0	962,432
2091	467,029,797	108,535,723	108,535,723	0	780,842	0	780,842
2092	387,647,753	93,500,409	93,500,409	0	627,201	0	627,201
2093	318,224,164	79,689,518	79,689,518	0	498,422	0	498,422
2094	258,195,064	67,145,834	67,145,834	0	391,577	0	391,577
2095	206,912,312	55,891,075	55,891,075	0	303,909	0	303,909
2096	163,659,447	45,923,596	45,923,596	0	232,830	0	232,830
2097	127,671,059	37,217,608	37,217,608	0	175,936	0	175,936
2098	98,154,332	29,724,435	29,724,435	0	131,016	0	131,016
2099	74,310,803	23,374,808	23,374,808	0	96,064	0	96,064
2100	55,357,298	18,082,747	18,082,747	0	69,291	0	69,291
2101	40,544,312	13,748,950	13,748,950	0	49,123	0	49,123
2102	29,172,187	10,265,030	10,265,030	0	34,196	0	34,196
2103	20,604,050	7,518,959	7,518,959	0	23,355	0	23,355
2104	14,274,015	5,398,885	5,398,885	0	15,636	0	15,636
2105	9,692,025	3,797,177	3,797,177	0	10,254	0	10,254
2106	6,444,840	2,614,109	2,614,109	0	6,582	0	6,582
2107	4,193,281	1,760,388	1,760,388	0	4,133	0	4,133
2108	2,666,663	1,158,852	1,158,852	0	2,537	0	2,537
2109	1,655,072	745,089	745,089	0	1,521	0	1,521
2110	1,000,460	467,278	467,278	0	889	0	889
2111	587,273	285,401	285,401	0	506	0	506
2112	333,229	169,541	169,541	0	280	0	280
2113	181,209	97,625	97,625	0	151	0	151
2114	92,918	53,819	53,819	0	77	0	77
2115	43,752	27,659	27,659	0	37	0	37
2116	18,201	12,656	12,656	0	16	0	16
2117	6,381	4,733	4,733	0	6	0	6
2118	1,931	1,305	1,305	0	1	0	1
2119	716	276	276	0	0	0	0
2120	481	69	69	0	0	0	0



The projections in this report are strictly for the purposes of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

Investment Return Schedule

Fiscal Year Ending June 30

	2014	2015	2016	2017	2018	2019	2020
Annual money-weighted rate of return, Net of investment							
expense1	15.91%	1.49%	(0.63%)	12.14%	8.29%	4.88%	4.49%

¹ Annual money weighted rate or return, net of investment expense as supplied by ERFC Staff.

Sensitivity

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for fiscal year ending June 30, 2019:

	1% Decrease (6.25%)	Current Rate (7.25%)	1% Increase (8.25%)
(1) Total Pension Liability	\$ 3,801,476,431	\$ 3,406,340,888	\$ 3,011,205,345
(2) Plan Fiduciary Net Position	\$ 2,521,441,472	\$ 2,521,441,472	\$ 2,521,441,472
(3) Net Pension Liability	\$ 1,280,034,959	\$ 884,899,416	\$ 489,763,873

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for fiscal year ending June 30, 2020:

	1% Decrease (6.25%)	Current Rate (7.25%)	1% Increase (8.25%)
(1) Total Pension Liability	\$ 3,978,287,451	\$ 3,543,956,246	\$ 3,101,620,138
(2) Plan Fiduciary Net Position	\$ 2,593,383,175	\$ 2,593,383,175	\$ 2,593,383,175
(3) Net Pension Liability	\$ 1,384,904,276	\$ 950,573,071	\$ 508,236,963

Disclosure—Changes in the Net Pension Liability and Related Ratios

Changes in the Net Pension Liability and Related Ratios¹

Fiscal Year Ending 2019 2020 2018 **Total Pension Liability** Service Cost 88.599.697 90.633.074 92,719,549 Interest Cost 221.106.804 231.477.042 243,578,788 Changes of Benefit Terms \$ \$ \$ 0 0 Differences Between Expected and Actual Experiences 12.140.768 27.726.555 \$ (12,696,483) Changes of Assumptions \$ \$ **Benefit Payments** \$ (177,720,296) \$ (181,932,073) \$ (185,986,496) **Net Change in Total Pension Liability** \$ 167,904,598 \$ 137,615,358 144,126,973 **Total Pension Liability (Beginning)** \$ 3,094,309,317 \$ 3.238.436.290 \$ 3,406,340,888 **Total Pension Liability (Ending)** \$ 3,238,436,290 \$ 3,406,340,888 \$ 3,543,956,246 **Plan Fiduciary Net Position** Contributions—Employer 91,704,877 96.982.911 \$ 104,741,255 Contributions—Member 44.169.100 46.645.396 49.095.601 Net Investment Income 188,145,489 \$ 117,727,500 108,472,534 **Benefit Payments** \$ (177,720,296) \$ (181,932,073) \$ (185,986,496) Administrative Expense (4.300.927)\$ (4,262,159) (4,381,191)Other \$ \$ \$ 0 **Net Change in Plan Fiduciary Net Position** 141.998.243 75.161.575 71.941.703 Plan Fiduciary Net Position (Beginning) \$ 2.304.281.654 \$ 2.446.279.897 \$ 2.521.441.472 Plan Fiduciary Net Position (Ending) \$ 2,446,279,897 \$ 2,521,441,472 \$ 2,593,383,175 **Net Pension Liability (Ending)** 792.156.393 \$ 884.899.416 \$ 950,573,071 Net Position as a Percentage of Pension Liability 75.54% 74.02% 73.18% \$ 1,469,629,439 \$ 1,549,247,780 **Covered-Employee Payroll** \$ 1,626,417,003 Net Pension Liability as a Percentage of Payroll 53.90% 57.12% 58.45%

¹ GASB 68 was effective first the year beginning in 2014 and requires plan sponsors to report changes in Net Pension Liability for a rolling 10 year period

Disclosure—Contribution Schedule

Contributions

	Fiscal Year Ending				
		2018		2019	2020
Actuarially Determined Contribution	\$	93,543,467	\$	96,982,911	\$ 104,741,255
Contributions Made in Relation to the Actuarially Determined					
Contribution	\$	91,704,877	\$	96,982,911	\$ 104,741,255
Contribution Deficiency (Excess)	\$	1,838,590	\$	0	\$ 0
Covered-Employee Payroll	\$	1,469,629,439	\$1	,549,247,780	\$ 1,626,417,003
Contributions as a Percentage of Payroll ¹		6.24%		6.26%	6.44%

Notes to Schedule:

Valuation Date: Actuarial valuations performed as of odd numbered years typically determine the contribution rate for the two-year period beginning 18 months after the valuation date.

The December 31, 2017 valuation was used to determine the funding policy contribution rates for Fiscal 2020 and 2021. Each actuarial valuation determines an ADEC for the period beginning 18 months after the valuation date.

Methods and assumptions used to determine contribution rates:

Actuarial Cost Method Entry Age Normal with 23-year closed amortization period for initial unfunded and subsequent actuarial gains/losses from

July 1, 2017.

Asset Valuation Method 5-Year smoothed market; 25% corridor.

IRS Limit Increases 2.50%

Salary Increases 3.75% to 9.05% including inflation

Investment Rate of Return 7.25%.

Retirement Age Experience-based table of rates that are specific to the type of eligibility condition.

Mortality The mortality table used to measure retired life mortality was 90% of the male rates and 79% of the female rates of the RP-2014 mortality

Total Data Set Healthy Annuitant Mortality tables, adjusted for mortality improvement back to the base year of 2006. Mortality rates for a particular calendar year are determined by applying the fully generational MP-2016 Mortality Improvement scale to the above- described tables. Tables were extended below age 50 with a cubic spline to the published Juvenile rates. The corresponding Disabled and Employee

tables were used for disability and pre-retirement mortality, respectively.

¹ Covered payroll in 2016 and later is reported in accordance with GASB 82. The ratio in the last row cannot always be compared to contributions required by the ERFC Board's funding policy.

Appendix

Participant Data

The actuarial valuation was based on personnel information from ERFC records as of December 31, 2019. Following are some of the pertinent characteristics from the personnel data as of that date. Prior year characteristics are also provided for comparison purposes. Both age and service have been determined using years and months as of the valuation date.

	December 31, 2018	December 31, 2019
Active Participants	22,048	22,176
Inactives With Deferred Benefits	4,996	5,240
Inactives Receiving Payment	12,101	12,482
Total Participants	39,145	39,898

Asset Allocation

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of June 30, 2020 are summarized in the following table:

	Segal Marco Advisors 20 Year Expected Real			
Asset Class ¹	Arithmetic Rate of Return	Allocation		
Domestic Equity (Large Cap)	6.20%	16.5%		
Domestic Equity (Small Cap)	6.90%	6.5%		
International Equity	7.40%	9.0%		
Emerging International Equity	8.50%	5.0%		
Global Equity	7.30%	4.0%		
US Fixed Income	3.00%	24.0%		
Emerging Market Debt	5.60%	3.0%		
Multi-Asset Class Solutions (MACS)	6.30%	11.0%		
Hedge Funds	7.00%	3.0%		
Real Estate	5.80%	9.0%		
Private Equity	10.20%	5.0%		
Private Credit	8.70%	4.0%		
Total		100.0%		

The discount rate used to measure the total pension liability is 7.25%.

-

¹ These rates of return reflect ERFC's best estimate based on advice from Segal Marco, who also use an inflation assumption of 2.0%.

Actuarial Assumptions and Methods

Discount Rate 7.25%

20-Year Municipal Bond Rate 3.50%, Beginning of Measurement Period

2.21%, End of Measurement Period

Municipal Bond Rate Basis Bond Buyer GO 20-Bond Municipal Bond Index

Expected Return on Assets 7.25%

Salary Increases For 2020 0%, after see Table I.

General Inflation 2.75%

Retirement Age

Active Participants See Table II.

Terminated Vested Participants At plan commencement age provided in terminated

vested member data

Mortality Rates

Healthy and Disabled mo

The mortality table used to measure retired life mortality was 90% of the male rates and 79% of the female rates of the RP-2014 mortality Total Data Set Healthy Annuitant Mortality tables, adjusted for mortality improvement back to the base year of 2006. Mortality rates for a particular calendar year are determined by applying the fully generational MP-2016 Mortality Improvement scale to the above-described tables. Tables were extended below age 50 with a cubic spline to the published Juvenile rates. The corresponding Disabled and Employee tables were used for disability and pre-retirement mortality,

respectively.

Withdrawal Rates See Table III.

Disability Rates See Table IV.

Decrement Timing Middle of year decrements, with 100% retirement

occurring at beginning of year.

Surviving Spouse Benefit It is assumed that 100% of males and 100% of

females have an eligible spouse for purposes of death-in-service benefits, and that males are 3 years

older than their spouse.

Administrative Expenses Actual administrative expenses during the

measurement period are recognized in expense.

COLA Adjustment Members hired prior to July 1, 2017: 3% (actual

COLA).

Members hired on/after July 1, 2017: 2.59% (long-term estimate of provision of 100% of CPI-U capped at 4%; see GRS letter dated November 22, 2016).

Asset Method Fair market value.

Actuarial Cost Method Entry Age Normal cost method.

Measurement Date June 30, 2020

Measurement Period June 30, 2019 to June 30, 2020

Valuation Date December 31, 2019

Census Data As of December 31, 2019.

Changes in Financial Accounting Methods/Assumptions Since the Prior Year

Method Changes

There have been no method changes in the financial accounting valuation since the prior year.

Assumption Changes

The financial accounting valuation reflects the following assumption changes:

- The municipal bond rate decreased from 3.50% to 2.21%
- The December 31, 2019 valuation reflects the one year pay (base, merit and seniority) freeze in 2020.

Reliance on Information from Prior Actuary

We have relied on the information provided by GRS in the Annual Actuarial Valuation Report as of December 31, 2017 for ERFC for purposes of the June 30, 2018 GASB results. Specifically, the pension liability, the normal cost, and covered payroll are based on information from the report. While we cannot verify the accuracy of all the information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy or completeness of the information and believe that it has produced appropriate results.

Actuarial Assumptions and Methods

Table I
Salary Increase Assumption

Pay Increase Assumption

Service	Merit &	Base	Increase
Index	Seniority	(Economy)	Next Year
1	5.80%	3.25%	9.05%
2	4.00%	3.25%	7.25%
3	3.30%	3.25%	6.55%
4	3.10%	3.25%	6.35%
5	2.50%	3.25%	5.75%
6	2.40%	3.25%	5.65%
7	2.30%	3.25%	5.55%
8	1.70%	3.25%	4.95%
9	1.60%	3.25%	4.85%
10	1.40%	3.25%	4.65%
11	1.40%	3.25%	4.65%
12	1.40%	3.25%	4.65%
13	1.40%	3.25%	4.65%
14	1.40%	3.25%	4.65%
15	0.90%	3.25%	4.15%
16	0.80%	3.25%	4.05%
17	0.70%	3.25%	3.95%
18	0.50%	3.25%	3.75%
19	0.50%	3.25%	3.75%
20	0.40%	3.25%	3.65%
21	0.30%	3.25%	3.55%
22	0.20%	3.25%	3.45%
23	0.20%	3.25%	3.45%
24	0.20%	3.25%	3.45%
25	0.00%	3.25%	3.25%
Ref:	739	3.25%	

Table II

Retirement Rates

	ERFC L (Hired Before		ERFC 2001 Tier 1 (Hired 07/01/2001 – 06/30/2017)		ERFC 2001 Tier 2 (Hired On/After 07/01/2017)			
	Type of R	etirement				Age Based		
		Reduced	Age		Service		90 Met?	
Ages 45	Service	Service 2.0%	Based	Service	Based	Yes	No	
46 47 48 49		2.0% 2.0% 2.0% 2.0% 2.0%						
50 51 52 53 54		2.0% 3.0% 6.0% 7.0% 8.0%						
55 56 57 58 59	35.0% 35.0% 25.0% 25.0% 25.0%	6.0% 4.0% 4.0% 4.0% 4.0%	17.5% 17.5% 12.5% 12.5% 12.5%	30 31 32 33 34	17.5% 17.5% 12.5% 12.5% 12.5%	35.0% 35.0% 35.0% 35.0%	0.0% 0.0% 0.0% 0.0%	
60 61 62 63 64	25.0% 30.0% 30.0% 30.0% 30.0%	7.0% 8.0% 13.0% 13.0% 13.0%	10.0% 10.0% 10.0% 10.0% 20.0%	35 36 37 38 39	10.0% 10.0% 10.0% 25.0% 40.0%	35.0% 35.0% 35.0% 35.0% 35.0%	0.0% 0.0% 0.0% 0.0% 0.0%	
65 66 67 68 69	30.0% 30.0% 25.0% 25.0% 20.0%		25.0% 30.0% 25.0% 15.0%	40 & Up	100.0%	35.0% 35.0% 35.0% 35.0% 35.0%	0.0% 0.0% 30.0% 15.0% 15.0%	
70 71 72 73 74	20.0% 20.0% 20.0% 30.0% 30.0%		15.0% 15.0% 15.0% 15.0% 15.0%			35.0% 35.0% 35.0% 35.0% 35.0%	15.0% 15.0% 15.0% 15.0% 15.0%	
75 & Over	100.0%		100.0%			100.0%	100.0%	

^{*} The probability is 60% at age 60 for people who first meet the Rule of 90 at age 60.

The age column index does not apply to the service-based retirements. In ERFC 2001 Tier 1, an individual can retire at 30 years of service regardless of age. In ERFC 2001 Tier 2, an individual would be able to retire at FSSA with 5 years of service or when the sum of age and service is greater than or equal to 90. FSSA is assumed to be age 67 for members hired on/after July 1, 2017

Table III Withdrawal Rates

% of Active Participants Withdrawing

Service	Males	Females
0 - 1	13%	15%
1 - 2	12%	14%
2 - 3	11%	13%
3 - 4	9%	11%
4 - 5	7%	9%
5 - 6	6%	9%
6 - 7	5%	9%
7 - 8	4%	9%
8 - 9	4%	6%
9 - 10	4%	5%
10 - 11	4%	5%
11 - 12	3%	4%
12 - 13	3%	4%
13 - 14	3%	3%
14 - 15	2%	3%
15 - 16	2%	3%
16 - 17	1%	3%
17 - 18	1%	2%
18 - 19	1%	2%
19 - 20	1%	2%
20 - 21	1%	2%
21 - 22	1%	2%
22 - 23	1%	2%
23 - 24	1%	2%
24 - 25	1%	2%
Ref:	1671	1672

In addition, forfeiture occurs when a vested person separates from service and withdraws contributions thereby forfeiting future rights to an employer financed benefit. The total probability of forfeiture is obtained by multiplying the probability of withdrawal above by 10%. Forfeiture rates do not apply to individuals who are eligible for retirement at time of termination.

Table IV
Sample Rates of Separation From Active Employment

% of Active Members Dying or Becoming Disabled within Next Year

Death* Disability Duty Ordinary Ordinary Duty Ages in 2017 Men Women Men Women Women Men Women Men 20 0.0064% 0.0006% 0.0188% 0.0019% 0.0117% 0.0048% 0.0029% 0.0012% 21 0.0208% 0.0065% 0.0021% 0.0006% 0.0117% 0.0048% 0.0029% 0.0012% 22 0.0227% 0.0023% 0.0006% 0.0029% 0.0065% 0.0117% 0.0048% 0.0012% 23 0.0238% 0.0067% 0.0024% 0.0006% 0.0142% 0.0074% 0.0036% 0.0018% 24 0.0242% 0.0069% 0.0024% 0.0006% 0.0149% 0.0081% 0.0037% 0.0020% 25 0.0228% 0.0071% 0.0023% 0.0007% 0.0146% 0.0082% 0.0036% 0.0020% 26 0.0218% 0.0074% 0.0022% 0.0007% 0.0142% 0.0082% 0.0035% 0.0021% 27 0.0212% 0.0077% 0.0021% 0.0007% 0.0140% 0.0086% 0.0035% 0.0022% 28 0.0210% 0.0081% 0.0021% 0.0008% 0.0142% 0.0094% 0.0036% 0.0024% 29 0.0212% 0.0086% 0.0021% 0.0008% 0.0149% 0.0106% 0.0037% 0.0027% 30 0.0009% 0.0215% 0.0091% 0.0022% 0.0158% 0.0122% 0.0040% 0.0031% 31 0.0221% 0.0098% 0.0022% 0.0009% 0.0171% 0.0140% 0.0043% 0.0035% 32 0.0228% 0.0023% 0.0010% 0.0046% 0.0104% 0.0186% 0.0158% 0.0040% 33 0.0236% 0.0110% 0.0024% 0.0010% 0.0202% 0.0178% 0.0050% 0.0044% 34 0.0244% 0.0116% 0.0024% 0.0011% 0.0218% 0.0196% 0.0054% 0.0049% 35 0.0059% 0.0252% 0.0121% 0.0025% 0.0011% 0.0234% 0.0214% 0.0054% 36 0.0258% 0.0127% 0.0026% 0.0012% 0.0252% 0.0232% 0.0063% 0.0058% 37 0.0265% 0.0068% 0.0133% 0.0026% 0.0012% 0.0271% 0.0250% 0.0062% 38 0.0273% 0.0141% 0.0027% 0.0013% 0.0291% 0.0268% 0.0073% 0.0067% 39 0.0284% 0.0151% 0.0028% 0.0014% 0.0314% 0.0287% 0.0078% 0.0072% 40 0.0298% 0.0163% 0.0030% 0.0015% 0.0339% 0.0308% 0.0085% 0.0077% 41 0.0317% 0.0177% 0.0032% 0.0016% 0.0367% 0.0331% 0.0092% 0.0083% 42 0.0342% 0.0018% 0.0100% 0.0195% 0.0034% 0.0399% 0.0357% 0.0089% 43 0.0373% 0.0215% 0.0037% 0.0020% 0.0435% 0.0386% 0.0109% 0.0097% 44 0.0411% 0.0239% 0.0041% 0.0022% 0.0475% 0.0419% 0.0119% 0.0105% 45 0.0456% 0.0267% 0.0046% 0.0025% 0.0520% 0.0456% 0.0130% 0.0114% 46 0.0508% 0.0298% 0.0051% 0.0028% 0.0570% 0.0498% 0.0143% 0.0124% 47 0.0568% 0.0332% 0.0031% 0.0057% 0.0626% 0.0545% 0.0157% 0.0136% 48 0.0634% 0.0370% 0.0063% 0.0034% 0.0689% 0.0598% 0.0172% 0.0149% 49 0.0708% 0.0411% 0.0071% 0.0038% 0.0760% 0.0658% 0.0190% 0.0164% 50 0.0789% 0.0454% 0.0079% 0.0042% 0.0842% 0.0726% 0.0210% 0.0181% 0.0065% 55 0.1333% 0.0704% 0.0133% 0.1469% 0.1228% 0.0367% 0.0307% 60 0.2279% 0.1016% 0.0228% 0.0095% 0.2447% 0.1770% 0.0612% 0.0443% 2133 2134 0.05 x 2133 0.04 2134 0.50 0.43 Х Ref: sb 0 sb 0 sb 0 sb 0 0.08 0.08 x 17 0.02 0.02 Х 16 x 16 x 17

^{*} Applicable to calendar year 2017. Rates in future years are determined by the MP-2016 projection scale

Actuarial Assumptions and Methods

Discussion of Actuarial Assumptions and Methods

ERFC selected the economic and demographic assumptions and prescribed them for use for purposes of compliance with GASB 68. Aon provided guidance with respect to these assumptions, and it is our belief that the assumptions represent reasonable expectations of anticipated plan experience.

Calculation of Normal Costs and Liabilities

The method used to calculate the service cost and projected benefit obligation for determining pension expense is the entry age normal cost method. Under this cost method, the actuarial accrued liability is based on a prorated portion of the present value of all benefits earned to date over expected future working life time as defined by GASB. The proration is determined so that the cost with respect to service accrued from date of hire is recognized as a level percentage of pay each year. The Normal Cost is equal to the prorated cost for the year of the valuation.

Accounting Information Under GASB 68

Benefit obligations and expense/(income) are calculated under U.S. Generally Accepted Accounting Principles as set forth in Government Accounting Standards Board Statement 68.

The total pension liability represents the actuarial present value of benefits based on the entry age normal cost method as of the measurement date. The service cost represents the actuarial present value of benefits that are attributed to the 2020 fiscal year, reflecting the effect of assumed future pay increases.

The pension expense is the annual amount to be recognized in the income statement as the cost of pension benefits for this plan for the period ending June 30, 2020.

Plan Provisions

Eligibility to Participate

Contributions

Eligibility for Retirement Normal Retirement

Early Retirement

Disability Retirement

Normal Retirement Benefit

ERFC Members Hired After July 1, 1988 but Before July 1, 2001

Effective July 1, 2012, members contribute 3% of their salaries. Interest credits are 5% annually through June 30, 2017, and 4% annually thereafter. If a member leaves covered employment before becoming eligible to retire, accumulated contributions are returned upon request. Members who receive a refund of contributions and are later rehired become members of ERFC 2001 Tier 2.

A member may retire any time after reaching the service retirement date, which is either (i) age 65 with 5 years of service or (ii) age 55 with 25 years of service

A member with 25 years of service but younger than age 55 may retire after age 45. A member with less than 25 years of service and younger than age 65 may retire after age 55.

An active member with 5 or more years of service who becomes totally and permanently disabled may be retired and receive a disability pension. The 5-year service requirement is waived if the disability is service-connected.

For payment periods during the retired member's lifetime 103% times (i) minus (ii) where:

- means 1.85 percent of the FAC multiplied by years of credited service, and
- (ii) means 1.65 percent of the portion of VRS FAC in excess of \$1,200, multiplied by applicable years of creditable Virginia service; provided if the member is younger than age 65 and if creditable Virginia service is less than 30 years, the result of such multiplication shall be reduced for each month before the earlier of:
 - (1) attainment of age 65; and
 - (2) the date when 30 years of service would have been completed.

The reduction shall be one-half of 1% for each of the first 60 months and four-tenths of one percent for each month beyond 60 months, if any.

For payment periods, if any, before the age the member becomes eligible for full Social Security benefits, an additional temporary benefit equal to 103% times 1.00 percent of the FAC multiplied by years of credited service.

Early Retirement Benefit

Accrued benefit to early retirement date payable at normal retirement date reduced according to the following schedule:

After 25 years of service: Service Retirement amount reduced to reflect retirement age younger than age 55.

After 5 years of service, but before 25 years of service: For payment periods during the retired member's lifetime, the Service Retirement amount payable at age 65 reduced to reflect retirement age younger than age 65. For payment periods before the age the member becomes eligible for full Social Security benefits, an additional temporary benefit equal to the Service Retirement temporary benefit reduced to reflect retirement age younger than age 65.

Disability Benefit

The amount is 103% times a lifetime pension equal to 0.25 percent of the FAC multiplied by years of credited service. Credited service shall be increased by the time period from disability retirement to the date when the member would have reached the service retirement date. The minimum pension payable is 2.5 percent of FAC.

Vested Deferred Benefit Eligibility

An inactive member with 5 or more years of service will be entitled to a pension with payments beginning at age 55, provided she/he does not withdraw accumulated member contributions.

Amount

Calculated in the same manner as early retirement benefits.

Final Average Compensation (FAC)

A member's final average compensation is the average of the 3 highest consecutive years of salary during eligible employment.

Forms of Payment Normal Form

Optional Forms

Post-Retirement Increases

Spouse's Preretirement Death Benefit Statutory Death Benefits Eligibility

Amount

The assumed normal form of benefit is the straight life form.

Option A: 100% Joint and Survivor benefit. Benefit is 85% of the straight life amount adjusted for the difference in age between the retiree and beneficiary. The maximum benefit is 94% of the straight life amount.

Option B: 50% Joint and Survivor benefit. Benefit is 91% of the straight life amount adjusted for the difference in age between the retiree and beneficiary. The maximum benefit is 97% of the straight life amount.

Option C: 10 years Certain and Life. Benefit is 96% of the straight life amount.

Option D: Single sum payment not exceeding member's accumulated contribution balance, plus a single life annuity actuarially reduced from the pension amount otherwise payable.

The amount of the monthly benefit is adjusted each March 31st, by 3% compounded annually, beginning with the March 31st which is more than three full months after the member's effective retirement date. Pensions of members that retire in the immediately preceding calendar year are increased by 1.489% (one-half a year's increase).

An active member with 5 or more years of service who dies will have benefits payable to the surviving spouse or other eligible beneficiary. The 5-year service requirement is waived if the death is service-connected.

If the member is eligible for a service or reduced service retirement then an eligible named beneficiary will receive such benefits reduced based upon an Option A (in the case of a spouse or an ex-spouse subject to a DRO) or Option B (in case of another eligible beneficiary) election. If not, the eligible named beneficiary will receive an amount equal to 103% times a lifetime pension equal of 0.25% of the FAC multiplied by years of credited service, and also reduced in connection with an Option A or Option B election. Credited service shall be increased by the time period from the date of death to the date when the member would have reached service retirement with a minimum of 10 years of service used. provided the death was service-connected. If a named beneficiary is not eligible for either of these types of benefits, the named beneficiary will receive a refund of the member's accumulated contributions.

Alternative Benefits Available to Members with Some Service Before July 1, 1988

Service Retirement: Alternate Amount After Full Social Security Age A member with service before 7/1/1988 may elect, at time of retirement, to receive an alternate benefit amount for payment periods after full Social Security age. The Alternative Guarantee amount is the amount that would have been received after the individual reached eligibility for full Social Security benefits under the Old Plan (pre – July 1, 1988) formulas. The amount is 103% of the total of:

- (i) the amount payable under June 30, 1987 benefit provisions,
- (ii) plus, if the retiring member is younger than full Social Security age and if creditable Virginia service is less than 30 years, 1.65 percent of VRS average final compensation in excess of \$1,200, multiplied by years of creditable Virginia service, and further multiplied by a certain percent based upon the number of months that retirement occurs before reaching the earlier of the above two conditions; such percent is one half of one percent for each of the first 60 such months and four-tenths of one percent for each of the next 60 such months, if any.

Reduced Service Retirement: Alternate Amount with 25 Years or more Years of Service By election at time of retirement, such a member may elect to receive 103% of the following combination of benefits:

- To age 55, 2.85 percent of the 3-year average annual salary multiplied by years of credited service, then actuarially reduced to reflect retirement age younger than age 55;
- (ii) From age 55 to 65, the amount to age 55 reduced by: 1.65 percent of the portion of VRS average final compensation in excess of \$1,200, multiplied by applicable years of creditable Virginia service; provided if creditable Virginia service is less than 30 years, the result of such multiplication shall be actuarially reduced for each month before the earlier of (1) attainment of age 65; and (2) the date when 30 years' service would have been completed; and
- (iii) From age 65 for life, the amount payable at age 65 according to June 30, 1987 provisions or the amount payable at age 65 according to July 1, 1988 provisions.

Plan Changes Since the Prior Year

The financial accounting valuation does not reflect any plan changes.

Eligibility to Participate

Members Hired On/After July 1, 2001 but Before July 1, 2017 (ERFC 2001 Tier 1)

Contributions

Effective July 1, 2012, members contribute 3% of their salaries. Interest credits are 5% annually through June 30, 2017, and 4% annually thereafter. If a member leaves covered employment before becoming eligible to retire, accumulated contributions are returned upon request. Members who receive a refund of contributions and are later rehired become members of ERFC 2001 Tier 2.

Eligibility for Retirement Normal Retirement

A member may retire at age 60 with 5 or more years of credited service, or after 30 years of credited service regardless of age.

Normal Retirement Benefit

The amount is a lifetime pension equal to 0.8% (eighttenths of one percent) of FAC at retirement multiplied by years of credited service. If necessary, the pension will be increased to make the reserve value of the pension equal to the member's accumulated contributions as of the retirement effective date.

Vested Deferred Benefit Eligibility

Any member with 5 or more years of credited service who terminates employment prior to the service retirement date, will be eligible to receive a deferred vested pension commencing at age 60, provided accumulated contributions are left on deposit with the Plan.

Amount

The amount is a lifetime pension equal to 0.8% (eighttenths of one percent) of FAC at termination multiplied by years of credited service. If necessary, the pension will be increased to make the reserve value of the pension equal to the member's accumulated contributions as of the effective retirement date

Final Average Compensation (FAC)

A member's Final Average Compensation is the average of the 3 highest years of salary during eligible employment.

Forms of Payment Normal Form

The assumed normal form of benefit is the straight life form.

Optional Forms

Option A: 100% Joint and Survivor benefit. Benefit is 85% of the straight life amount adjusted for the difference in age between the retiree and beneficiary. The maximum benefit is 94% of the straight life amount.

Option B: 50% Joint and Survivor benefit. Benefit is 91% of the straight life amount adjusted for the difference in age between the retiree and beneficiary. The maximum benefit is 97% of the straight life amount.

Option C: 10 years Certain and Life. Benefit is 96% of the straight life amount.

Post-Retirement Increases

The amount of the monthly benefit is adjusted each March 31st, by 3% compounded annually, beginning with the March 31st which is more than three full months after the member's effective retirement date. Pensions of members that retire in the immediately preceding calendar year are increased by 1.489% (one-half a year's increase).

Spouse's Preretirement Death Benefit Statutory Death Benefits Eligibility

Any member with 5 or more years of credited service who dies before beginning to receive a pension will have benefits payable to the named beneficiary..

Amount

The amount is a lifetime pension equal to 0.8% (eight-tenths of one percent) of FAC multiplied by years of credited service at the date of death. If necessary, the pension will be increased to make the reserve value of the pension equal to the member's accumulated contributions as of the date of death. The pension will be adjusted in accordance with an Option A (in the case of a spouse or an ex-spouse subject to a DRO) or Option B (in case of another eligible beneficiary) election payable immediately unless the member did not reach the service retirement eligibility prior to death, in which case the pension is reduced for each month that the member was younger than age 60 on the date of death in the following manner:

a. One-half of 1% for each of the first 60 months and four-tenths of one percent for each month beyond 60 months (the number of months used for reduction is not to exceed the difference between the member's credited service at death and 30 years).

Plan Changes Since the Prior Year

The financial accounting valuation does not reflect any plan changes.

Eligibility to Participate

Members Hired On/After July 1, 2017 (ERFC 2001 Tier 2)

Contributions

Members contribute 3% of their salaries. Interest credits are 4% annually. If a member leaves covered employment before becoming eligible to retire, accumulated contributions are returned upon request.

Eligibility for Retirement Normal Retirement

A member may retire at Full Social Security Age (FSSA) with 5 or more years of credited service, or when the sum of age plus service is greater than or equal to 90 (i.e., "Rule of 90").

Normal Retirement Benefit

The amount is a lifetime pension equal to 0.8% (eighttenths of one percent) of FAC at retirement multiplied by years of credited service. If necessary, the pension will be increased to make the reserve value of the pension equal to the member's accumulated contributions as of the retirement effective date.

Vested Deferred Benefit Eligibility

Any member with 5 or more years of credited service who terminates employment prior to the service retirement date, will be eligible to receive a deferred vested pension commencing at FSSA, provided accumulated contributions are left on deposit with the Plan.

Amount

The amount is a lifetime pension equal to 0.8% (eighttenths of one percent) of FAC at termination multiplied by years of credited service. If necessary, the pension will be increased to make the reserve value of the pension equal to the member's accumulated contributions as of the effective retirement date.

Final Average Compensation (FAC)

A member's Final Average Compensation is the average of the 5 highest years of salary during eligible employment.

Forms of Payment Normal Form

The assumed normal form of benefit is the straight life form.

Optional Forms

Before the effective retirement date, a retiring member may elect one of the following options:

Option A: 100% Joint and Survivor benefit. Benefit is 85% of the straight life amount adjusted for the difference in age between the retiree and beneficiary. The maximum benefit is 94% of the straight life amount.

Option B: 50% Joint and Survivor benefit. Benefit is 91% of the straight life amount adjusted for the difference in age between the retiree and beneficiary. The maximum benefit is 97% of the straight life amount.

Option C: 10 years Certain and Life. Benefit is 96% of the straight life amount

Post-Retirement Increases

The amount of the monthly benefit is adjusted each March 31st, by 100% of the Consumer Price Index (CPI-U) (with a cap of 4%) compounded annually, beginning with the March 31st which is more than three full months after the member's effective retirement date. Pensions of members that retire in the immediately preceding calendar year are increased by one- half a year's increase.

Spouse's Preretirement Death Benefit Statutory Death Benefits Eligibility

Any member with 5 or more years of credited service who dies before beginning to receive a pension will have benefits payable to the named beneficiary.

Amount

The amount is a lifetime pension equal to 0.8% (eight-tenths of one percent) of FAC multiplied by years of credited service at the date of death. If necessary, the pension will be increased to make the reserve value of the pension equal to the member's accumulated contributions as of the date of death. The pension will be adjusted in accordance with Option A (in the case of a spouse or an ex-spouse subject to a DRO) or Option B (in case of another eligible beneficiary) election payable immediately unless the member did not reach the service retirement eligibility prior to death, in which case the pension is reduced for each month that the member was younger than service retirement eligibility on the date of death in the following manner:

One-half of 1% for each of the first 60 months and fourtenths of one percent for each month beyond 60 months (the number of months used for reduction is based on the lesser of FSSA or the age the member would have attained "Rule of 90").

Plan Changes Since the Prior Year

The financial accounting valuation does not reflect any plan changes.