



**THE FIREFIGHTERS' PENSION TRUST FUND
OF THE CITY OF STAMFORD**

GASB 67 and 68 DISCLOSURE

Fiscal Year: July 1, 2021 to June 30, 2022

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Table of Contents

Certification	1
Overview of GASB 67 and GASB 68	3
Executive Summary	4
Schedule of Employer Contributions	5
Actuarial Methods and Assumptions Used for Funding Policy	6
Money-Weighted Rate of Return	7
Long-Term Expected Rate of Return	8
Depletion Date Projection	9
Net Pension Liability	10
Changes in Net Pension Liability	11
Schedule of Changes in Net Pension Liability and Related Ratios	12
Pension Expense	13
Schedule of Deferred Inflows and Outflows of Resources	14
Summary Chart	15
Glossary	16

Certification

Actuarial computations presented in this report under Statements No. 67 and 68 of the Governmental Accounting Standards Board are for purposes of assisting the City in fulfilling its financial accounting requirements. No attempt is being made to offer any accounting opinion or advice. This report is for fiscal year July 1, 2021 to June 30, 2022. The reporting date for determining plan assets and obligations is June 30, 2022. The calculations enclosed in this report have been made on a basis consistent with our understanding of the plan provisions. Determinations for purposes other than meeting financial reporting requirements may be significantly different than the results contained in this report. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security or meeting employer funding requirements.

In preparing this report, we relied, without audit, on information as of July 1, 2021 and June 30, 2022 furnished by the City. This information includes, but is not limited to, statutory provisions, member census data, and financial information. Please see Milliman's funding valuation report dated March 29, 2022 for more information on the plan's participant group as of July 1, 2021 as well as a summary of the plan provisions and a summary of the actuarial methods and assumptions used for funding purposes.

We performed a limited review of the census and financial information used directly in our analysis and have found them to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

We hereby certify that, to the best of our knowledge, this report, including all costs and liabilities based on actuarial assumptions and methods, is complete and accurate and determined in conformance with generally recognized and accepted actuarial principles and practices, which are consistent with the Actuarial Standards of Practice promulgated by the Actuarial Standards Board and the applicable Guides to Professional Conduct, amplifying Opinions and supporting Recommendations of the American Academy of Actuaries.

Each of the assumptions used in this valuation with the exception of those set by law was set based on industry standard published tables and data, the particular characteristics of the plan, relevant information from the plan sponsor or other sources about future expectations, and our professional judgment regarding future plan experience. We believe the assumptions are reasonable for the contingencies they are measuring, and are not anticipated to produce significant cumulative actuarial gains or losses over the measurement period.

This valuation report is only an estimate of the Plan's financial condition as of a single date. It can neither predict the Plan's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of Plan benefits, only the timing of Plan contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

Certification

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes 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 or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuarial assignment, we did not perform an analysis of the potential range of such future measurements.

The valuation results were developed using models intended for valuations that use standard actuarial techniques. In addition, Milliman has developed certain models to develop the expected long term rate of return on assets used in this analysis. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice. The models, including all input, calculations, and output may not be appropriate for any other purpose.

Milliman's work is prepared solely for the internal use and benefit of the City of Stamford. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exceptions: (a) the Plan Sponsor may provide a copy of Milliman's work, in its entirety, to the Plan Sponsor's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the City; and (b) the Plan Sponsor may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their specific needs.

The consultants who worked on this assignment are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and has been prepared in accordance with generally recognized accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.



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Overview of GASB 67 and GASB 68

The Governmental Accounting Standards Board (GASB) released accounting standards for public pension plans and participating employers in 2012. These standards, GASB Statements No. 67 and 68, have substantially revised the accounting requirements previously mandated under GASB Statements No. 25 and 27. The most notable change is the distinct separation of funding from financial reporting. The Annual Required Contribution (ARC) has been eliminated under GASB 67 and 68 and is no longer relevant for financial reporting purposes. As a result, plan sponsors have been encouraged to establish a formal funding policy that is separate from financial reporting calculations.

GASB 67 applies to financial reporting for public pension plans and is required to be implemented for plan fiscal years beginning after June 15, 2013. Note that a plan's fiscal year might not be the same as the employer's fiscal year. Even if the plan does not issue standalone financial statements, but rather is considered a pension trust fund of a government, it is subject to GASB 67. Under GASB 67, enhancements to the financial statement disclosures are required, along with certain required supplementary information.

GASB 68 governs the specifics of accounting for public pension plan obligations for participating employers and is required to be implemented for employer fiscal years beginning after June 15, 2014. GASB 68 requires a liability for pension obligations, known as the Net Pension Liability, to be recognized on the balance sheets of participating employers. Changes in the Net Pension Liability will be immediately recognized as Pension Expense on the income statement or reported as deferred inflows/outflows of resources depending on the nature of the change.

Executive Summary

Relationship Between Valuation Date, Measurement Date, and Reporting Date

The Valuation Date is July 1, 2021. This is the date as of which the actuarial valuation is performed. The Measurement Date is June 30, 2022. This is the date as of which the net pension liability is determined. The Reporting Date is June 30, 2022. This is the plan's and/or employer's fiscal year ending date.

Significant Changes

Given the substantial uncertainty regarding the impact of COVID-19 on plan costs, including whether the pandemic will increase or decrease costs during the term of our projections, we have chosen not to make an adjustment in the expected plan costs. It is possible that the COVID-19 pandemic could have a material impact on the projected costs.

Participant Data as of July 1, 2021

Actives	250
Terminated vested & other inactives	2
Retirees and beneficiaries	<u>238</u>
Total	490

Schedule of Employer Contributions

Fiscal Year Ending June 30	Actuarially Determined Contribution	Actual Employer Contribution	Contribution Deficiency (Excess)	Covered Payroll	Contribution as a % of Covered Payroll
2022	\$12,000,000	\$12,000,000	\$0	\$24,398,783	49.18%
2021	10,569,000	10,569,000	0	23,671,239	44.65%
2020	8,808,000	8,808,000	0	23,621,481	37.29%
2019	8,069,000	8,069,000	0	24,035,714	33.57%
2018	6,980,000	6,980,000	0	22,756,531	30.67%
2017	5,140,000	5,140,000	0	23,382,336	21.98%
2016	4,342,000	4,342,000	0	21,610,577	20.09%
2015	3,575,000	3,515,000	60,000	20,981,143	16.75%
2014	3,119,000	3,119,000	0	21,475,500	14.52%
2013	2,340,000	2,340,000	0	20,850,000	11.22%

Actuarial Methods and Assumptions Used for Funding Policy

The following actuarial methods and assumptions were used in the July 1, 2021 funding valuation. Please see the valuation report dated March 29, 2022 for further details.

Valuation Timing	Actuarially determined contribution rates are calculated as of June 30, two years prior to the end of the fiscal year in which the contributions are reported.
Actuarial Cost Method	Projected Unit Credit
Amortization Method	
Level percent or level dollar	Level dollar
Closed, open, or layered periods	Layered
Amortization period at 07/01/2021	15 years
Amortization growth rate	0.00%
Asset Valuation Method	
Smoothing period	5 years
Recognition method	Asymptotic
Corridor	Range of 70% and 130% of Market Value of Assets
Inflation	2.60%
Salary Increases	Graded by service
Investment Rate of Return	6.70%
Cost of Living Adjustments	None
Retirement Age	Graded by age
Turnover	Graded by age
Mortality	PubS-2010 Mortality Table with generational projection per the MP-2019 ultimate scale

Money-Weighted Rate of Return

Fiscal Year Ending June 30	Net Money-Weighted Rate of Return
2022	-9.31%
2021	30.91%
2020	-1.68%
2019	6.28%
2018	8.60%
2017	14.22%
2016	-3.38%
2015	-0.15%
2014	12.67%

Calculation of Money-Weighted Rate of Return

The money-weighted rate of return considers the changing amounts actually invested during a period and weights the amount of pension plan investments by the proportion of time they are available to earn a return during that period. External cash flows are determined on a monthly basis and are assumed to occur at the beginning of each month. External cash inflows are netted with external cash outflows, resulting in a net external cash flow in each month. The money-weighted rate of return is calculated net of investment expenses.

	Net External Cash Flows	Periods Invested	Period Weight	Net External Cash Flows With Interest
Beginning Value - July 1, 2021	\$186,488,420	12.00	1.00	\$169,123,024
Monthly net external cash flows:				
July	11,073,250	12.00	1.00	10,042,133
August	(929,993)	11.00	0.92	(850,015)
September	(956,265)	10.00	0.83	(881,750)
October	(937,881)	9.00	0.75	(871,587)
November	(952,464)	8.00	0.67	(892,088)
December	(977,167)	7.00	0.58	(923,312)
January	(880,215)	6.00	0.50	(838,232)
February	(1,003,528)	5.00	0.42	(963,165)
March	(944,374)	4.00	0.33	(914,399)
April	(977,056)	3.00	0.25	(953,470)
May	(998,011)	2.00	0.17	(981,565)
June	(908,259)	1.00	0.08	(901,185)
Ending Value - June 30, 2022	169,194,389			169,194,389
Money-Weighted Rate of Return	-9.31%			

Long-Term Expected Rate of Return

The assumption for the long-term expected rate of return is determined by adding expected inflation to expected long-term real returns and reflecting expected volatility and correlation. The capital market assumptions are per Milliman's investment consulting practice as of June 30, 2021.

Asset Class	Index	Target Allocation*	Long-Term Expected Arithmetic Real Rate of Return	Long-Term Expected Geometric Real Rate of Return
US Core Fixed Income	Bloomberg Barclays Aggregate	10.00%	1.37%	1.26%
US Government/Credit Bonds	BBgBarc US Govt/Credit	15.00%	1.12%	1.00%
US High Yield Bonds	ICE BofA US High Yield	5.00%	3.95%	3.37%
US Broad Equity Market	Russell 3000	25.00%	5.33%	3.70%
Foreign Developed Equity	MSCI EAFE NR	14.50%	6.27%	4.52%
Emerging Markets Equity	MSCI EM NR	7.00%	8.64%	4.95%
US REITs	FTSE Nareit All Equity REITs	10.00%	5.75%	3.57%
Private Equity*	Cambridge Private Equity	5.00%	10.30%	6.09%
Commodities	Bloomberg Commodity	2.50%	1.93%	0.59%
Master Limited Partnerships	Alerian MLP	3.00%	6.48%	3.11%
Hedge FOF Diversified	HFRI FOF Diversified	3.00%	2.54%	2.23%
Assumed Inflation - Mean			2.60%	2.60%
Assumed Inflation - Standard Deviation			1.16%	1.16%
Portfolio Real Mean Return			4.76%	3.96%
Portfolio Nominal Mean Return			7.36%	6.66%
Portfolio Standard Deviation				12.31%
Long-Term Expected Rate of Return				6.70%

* As outlined in the Plan's investment policy dated September 30, 2022

Depletion Date Projection

GASB 67 and 68 generally require that a blended discount rate be used to measure the Total Pension Liability (the Actuarial Accrued Liability calculated using the Individual Entry Age Normal Cost Method). The long-term expected return on plan investments may be used to discount liabilities to the extent that the plan's Fiduciary Net Position (fair market value of assets) is projected to cover benefit payments and administrative expenses. A 20-year high quality (AA/Aa or higher) municipal bond rate must be used for periods where the Fiduciary Net Position is not projected to cover benefit payments and administrative expenses. Determining the discount rate under GASB 67 and 68 will often require that the actuary perform complex projections of future benefit payments and asset values. GASB 67 and 68 (paragraph 29) do allow for alternative evaluations of projected solvency, if such evaluation can reliably be made. GASB does not contemplate a specific method for making an alternative evaluation of sufficiency; it is left to professional judgment.

The following circumstances justify an alternative evaluation of sufficiency for the City of Stamford:

- The City of Stamford has at least a 5-year history of paying at least 100% of the Actuarially Determined Contribution (previously termed the Annual Required Contribution).
- The Actuarially Determined Contribution (ADC) is based on amortizing the Unfunded Accrued Liability over a layered 15-year amortization period. The ratio of the Actuarial Value of Assets to the Accrued Liability that is used for funding purposes has been between 71% and 79% for the past five years. Based on the funded status of the plan and the relatively short fixed amortization period, it is our professional opinion that payment of the ADC each year will not cause the funded position of the plan to decline.
- GASB 67 and 68 specify that the projections regarding future solvency assume that plan assets earn the assumed rate of return and there are no future changes in the plan provisions or actuarial methods and assumptions, which means that the projections would not reflect any adverse future experience which might impact the plan's funded position.

Based on these circumstances, it is our professional opinion that the detailed depletion date projections outlined in GASB 67 and 68 will show that the Fiduciary Net Position is always projected to be sufficient to cover benefit payments and administrative expenses.

Net Pension Liability

Net Pension Liability	June 30, 2022	June 30, 2021
Total pension liability	\$249,121,356	\$235,352,289
Fiduciary net position	169,194,389	186,488,420
Net pension liability	79,926,967	48,863,869
Fiduciary net position as a % of total pension liability	67.92%	79.24%
Covered payroll	24,398,783	23,671,239
Net pension liability as a % of covered payroll	327.59%	206.43%

The total pension liability was determined by an actuarial valuation as of the valuation date, calculated based on the discount rate and actuarial assumptions below, and was then projected forward to the measurement date. Any significant changes during this period have been reflected as prescribed by GASB 67 and 68.

Discount Rate

Discount rate	6.70%	6.95%
Long-term expected rate of return, net of investment expense	6.70%	6.95%
Municipal bond rate	N/A	N/A

The plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the discount rate for calculating the total pension liability is equal to the long-term expected rate of return.

Other Key Actuarial Assumptions

The actuarial assumptions that determined the total pension liability as of June 30, 2022 were based on the results of an actuarial experience study for the period July 1, 2014 - July 1, 2019.

Valuation date	July 1, 2021	July 1, 2020
Measurement date	June 30, 2022	June 30, 2021
Actuarial cost method	Entry Age Normal	Entry Age Normal
Inflation	2.60%	2.60%
Salary increases including inflation	Graded by service	Graded by service
Mortality	PubS-2010 Mortality Table with generational projection per the MP-2019 ultimate scale	PubS-2010 Mortality Table with generational projection per the MP-2019 ultimate scale

Please see Milliman's funding valuation report dated March 29, 2022 for more detail.

Changes in Net Pension Liability

Changes in Net Pension Liability	Increase (Decrease)		
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances as of June 30, 2021	\$235,352,289	\$186,488,420	\$48,863,869
Changes for the year:			
Service cost	4,994,142		4,994,142
Interest on total pension liability	16,274,810		16,274,810
Effect of plan changes	0		0
Effect of economic/demographic gains or losses	(1,851,440)		(1,851,440)
Effect of assumptions changes or inputs	6,915,601		6,915,601
Benefit payments	(12,564,046)	(12,564,046)	0
Employer contributions		12,000,000	(12,000,000)
Member contributions		1,279,883	(1,279,883)
Net investment income		(17,902,068)	17,902,068
Administrative expenses		(107,800)	107,800
Balances as of June 30, 2022	249,121,356	169,194,389	79,926,967

Sensitivity Analysis

The following presents the net pension liability of the City, calculated using the discount rate of 6.70%, as well as what the City's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (5.70%) or 1 percentage point higher (7.70%) than the current rate.

	1% Decrease 5.70%	Current Discount Rate 6.70%	1% Increase 7.70%
Total pension liability	\$280,201,207	\$249,121,356	\$223,217,519
Fiduciary net position	169,194,389	169,194,389	169,194,389
Net pension liability	111,006,818	79,926,967	54,023,130

Schedule of Changes in Net Pension Liability and Related Ratios

	Fiscal Year Ending June 30									
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Total Pension Liability										
Service cost	\$4,994,142	\$4,104,325	\$4,118,748	\$4,027,918	\$3,798,387	\$3,555,727	\$3,468,981	\$3,053,426	\$2,964,491	N/A
Interest on total pension liability	16,274,810	15,949,889	15,048,357	14,576,235	13,816,473	12,778,225	12,339,942	12,773,960	12,287,263	N/A
Effect of plan changes	0	0	0	(4,077,272)	0	0	0	0	0	N/A
Effect of economic/demographic gains or losses	(1,851,440)	(203,475)	2,413,036	3,543,640	3,543,971	4,684,643	0	(4,349,248)	0	N/A
Effect of assumption changes or inputs	6,915,601	(607,358)	4,309,914	2,407,116	1,137,658	3,441,972	0	2,792,894	0	N/A
Benefit payments	(12,564,046)	(11,850,818)	(11,326,345)	(10,814,856)	(10,490,257)	(10,278,617)	(9,436,881)	(9,168,689)	(8,956,725)	N/A
Net change in total pension liability	13,769,067	7,392,563	14,563,710	9,662,781	11,806,232	14,181,950	6,372,042	5,102,343	6,295,029	N/A
Total pension liability, beginning	235,352,289	227,959,726	213,396,016	203,733,235	191,927,003	177,745,053	171,373,011	166,270,668	159,975,639	N/A
Total pension liability, ending (a)	249,121,356	235,352,289	227,959,726	213,396,016	203,733,235	191,927,003	177,745,053	171,373,011	166,270,668	N/A
Fiduciary Net Position										
Employer contributions	\$12,000,000	\$10,569,000	\$8,808,000	\$8,069,000	\$6,980,000	\$5,140,000	\$4,342,000	\$3,515,000	\$3,119,000	N/A
Member contributions	1,279,883	1,256,463	1,279,521	1,335,348	1,319,247	1,543,551	1,240,582	1,175,378	1,189,553	N/A
Net investment income	(17,902,068)	44,438,027	(2,513,388)	8,901,866	11,320,351	16,677,565	(4,243,849)	(191,595)	15,710,982	N/A
Benefit payments	(12,564,046)	(11,850,818)	(11,326,345)	(10,814,856)	(10,490,257)	(10,278,617)	(9,436,881)	(9,168,689)	(8,956,725)	N/A
Administrative expenses	(107,800)	(125,587)	(115,121)	(128,344)	(87,311)	(218,673)	(40,521)	(106,441)	(898,984)	N/A
Net change in plan fiduciary net position	(17,294,031)	44,287,085	(3,867,333)	7,363,014	9,042,030	12,863,826	(8,138,669)	(4,776,347)	10,163,826	N/A
Fiduciary net position, beginning	186,488,420	142,201,335	146,068,668	138,705,654	129,663,624	116,799,798	124,938,467	129,714,814	119,550,988	N/A
Fiduciary net position, ending (b)	169,194,389	186,488,420	142,201,335	146,068,668	138,705,654	129,663,624	116,799,798	124,938,467	129,714,814	N/A
Net pension liability, ending = (a) - (b)	\$79,926,967	\$48,863,869	\$85,758,391	\$67,327,349	\$65,027,581	\$62,263,379	\$60,945,255	\$46,434,544	\$36,555,854	N/A
Fiduciary net position as a % of total pension liability	67.92%	79.24%	62.38%	68.45%	68.08%	67.56%	65.71%	72.90%	78.01%	N/A
Covered payroll	\$24,398,783	\$23,671,239	\$23,621,481	\$24,035,714	\$22,756,531	\$23,382,336	\$21,610,577	\$20,981,143	\$21,475,500	N/A
Net pension liability as a % of covered payroll	327.59%	206.43%	363.05%	280.11%	285.75%	266.28%	282.02%	221.32%	170.22%	N/A

This schedule is presented to illustrate the requirement to show information for 10 years. However, recalculations of prior years are not required, and if prior years are not reported in accordance with the current GASB standards, they should not be reported.

Pension Expense

Pension Expense	July 1, 2021 to June 30, 2022	July 1, 2020 to June 30, 2021
Service cost	\$4,994,142	\$4,104,325
Interest on total pension liability	16,274,810	15,949,889
Effect of plan changes	0	0
Administrative expenses	107,800	125,587
Member contributions	(1,279,883)	(1,256,463)
Expected investment return net of investment expenses	(12,987,408)	(10,019,964)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	1,092,953	1,365,224
Recognition of assumption changes or inputs	2,836,219	1,819,219
Recognition of investment gains or losses	1,667,610	(6,179,364)
Pension Expense	<u>12,706,243</u>	<u>5,908,453</u>

As of June 30, 2022, the deferred inflows and outflows of resources are as follows:

Deferred Inflows / Outflows of Resources	Deferred Inflows of Resources	Deferred Outflows of Resources
Differences between expected and actual experience	(\$1,773,732)	\$5,126,155
Changes of assumptions	(420,478)	10,555,828
Net difference between projected and actual earnings	0	9,401,654
Contributions made subsequent to measurement date	0	0
Total	<u>(2,194,210)</u>	<u>25,083,637</u>

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

Year ended June 30:	
2023	\$6,169,885
2024	5,774,630
2025	1,994,130
2026	7,672,635
2027	682,360
Thereafter*	595,787

* Note that additional future deferred inflows and outflows of resources may impact these numbers.

Schedule of Deferred Inflows and Outflows of Resources

	Original Amount	Date Established	Original Rec. Period*	Amount Recognized in Pension Expense for FYE 06/30/2022	Amount Recognized in Pension Expense through 06/30/2022	Balance of Deferred Inflows as of 06/30/2022	Balance of Deferred Outflows as of 06/30/2022
Economic/ demographic gains or losses	(\$1,851,440)	6/30/2022	6.8	(\$272,271)	(\$272,271)	(\$1,579,169)	\$0
	(203,475)	6/30/2021	6.5	(31,304)	(62,608)	(140,867)	0
	2,413,036	6/30/2020	6.8	354,858	1,064,574	0	1,348,462
	3,543,640	6/30/2019	7.1	499,104	1,996,416	0	1,547,224
	3,543,971	6/30/2018	7.4	478,915	2,394,575	0	1,149,396
	4,684,643	6/30/2017	7.8	600,595	3,603,570	0	1,081,073
	(4,349,248)	6/30/2015	8.1	(536,944)	(4,295,552)	(53,696)	0
		Total		1,092,953	4,428,704	(1,773,732)	5,126,155
Assumption changes or inputs	6,915,601	6/30/2022	6.8	1,017,000	1,017,000	0	5,898,601
	(607,358)	6/30/2021	6.5	(93,440)	(186,880)	(420,478)	0
	4,309,914	6/30/2020	6.8	633,811	1,901,433	0	2,408,481
	2,407,116	6/30/2019	7.1	339,030	1,356,120	0	1,050,996
	1,137,658	6/30/2018	7.4	153,738	768,690	0	368,968
	3,441,972	6/30/2017	7.8	441,278	2,647,668	0	794,304
	2,792,894	6/30/2015	8.1	344,802	2,758,416	0	34,478
		Total		2,836,219	10,262,447	(420,478)	10,555,828
Investment gains or losses	30,889,476	6/30/2022	5.0	6,177,895	6,177,895	0	24,711,581
	(34,418,063)	6/30/2021	5.0	(6,883,613)	(13,767,226)	(20,650,837)	0
	12,837,023	6/30/2020	5.0	2,567,405	7,702,215	0	5,134,808
	1,030,506	6/30/2019	5.0	206,101	824,404	0	206,102
	(2,000,882)	6/30/2018	5.0	(400,178)	(2,000,882)	0	0
		Total		1,667,610	(1,063,594)	(20,650,837)	30,052,491
Total for economic/demographic gains or losses and assumption changes or inputs						(2,194,210)	15,681,983
Net deferred (inflows)/outflows for investment gains or losses						0	9,401,654
Total deferred (inflows)/outflows						(2,194,210)	25,083,637
Total net deferrals							22,889,427

* Investment (gains)/losses are recognized in pension expense over a period of five years; economic/demographic (gains)/losses and assumption changes or inputs are recognized over the average remaining service life for all active and inactive members.

Milliman Financial Reporting Valuation

	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability	Deferred (Inflows)	Deferred Outflows	Net Investment (Inflows)/ Outflows	Net Deferrals	Net Pension Liability plus Net Deferrals	Annual Expense
Balances as of June 30, 2021	(\$235,352,289)	\$186,488,420	(\$48,863,869)	(\$1,276,729)	\$13,629,513	(\$19,820,213)	(\$7,467,429)	(\$56,331,298)	
Service cost	(4,994,142)		(4,994,142)						4,994,142
Interest on total pension liability	(16,274,810)		(16,274,810)						16,274,810
Effect of plan changes	0		0						0
Effect of liability gains or losses	1,851,440		1,851,440	(1,851,440)			(1,851,440)		
Effect of assumption changes or inputs	(6,915,601)		(6,915,601)		6,915,601		6,915,601		
Benefit payments	12,564,046	(12,564,046)	0						
Administrative expenses		(107,800)	(107,800)						107,800
Member contributions		1,279,883	1,279,883						(1,279,883)
Expected net investment income		12,987,408	12,987,408						(12,987,408)
Investment gains or losses		(30,889,476)	(30,889,476)			30,889,476	30,889,476		
Employer contributions		12,000,000	12,000,000					12,000,000	
Recognition of liability gains or losses				840,519	(1,933,472)		(1,092,953)		1,092,953
Recognition of assumption changes or inputs				93,440	(2,929,659)		(2,836,219)		2,836,219
Recognition of investment gains or losses						(1,667,610)	(1,667,610)		1,667,610
Annual expense								(12,706,243)	12,706,243
Balances as of June 30, 2022	(249,121,356)	169,194,389	(79,926,967)	(2,194,210)	15,681,983	9,401,654	22,889,427	(57,037,541)	

Glossary

Actuarially Determined Contribution	A target or recommended contribution to a defined benefit pension plan for the reporting period, determined based on the funding policy and most recent measurement available when the contribution for the reporting period was adopted.
Deferred Inflows/Outflows of Resources	Portion of changes in net pension liability that is not immediately recognized in Pension Expense. These changes include differences between expected and actual experience, changes in assumptions, and differences between expected and actual earnings on plan investments.
Discount Rate	Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the sum of: <ol style="list-style-type: none">1) The actuarial present value of benefit payments projected to be made in future periods where the plan assets are projected to be sufficient to meet benefit payments, calculated using the Long-Term Expected Rate of Return.2) The actuarial present value of projected benefit payments not included in (1), calculated using the Municipal Bond Rate.
Fiduciary Net Position	Equal to market value of assets.
Long-Term Expected Rate of Return	Long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits, net of investment expenses.
Money-Weighted Rate of Return	The internal rate of return on pension plan investments, net of investment expenses.
Municipal Bond Rate	Yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.
Net Pension Liability	Total Pension Liability minus the Plan's Fiduciary Net Position (unfunded accrued liability).
Projected Benefit Payments	All benefits estimated to be payable through the pension plan to current active and inactive employees as a result of their past service and expected future service.
Service Cost	The portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.
Total Pension Liability	The portion of actuarial present value of projected benefit payments that is attributable to past periods of member service using the Entry Age Normal cost method based on the requirements of GASB 67 and 68.