

BLOOMINGTON FIRE DEPARTMENT RELIEF ASSOCIATION PENSION FUND

GASB 67 and 68 DISCLOSURE Fiscal Year: January 1, 2023 to December 31, 2023

Prepared by

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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 Bloomington Fire Department Relief Association in fulfilling its financial accounting requirements. No attempt is being made to offer any accounting opinion or advice. This report is for fiscal year January 1, 2023 to December 31, 2023. The reporting date for determining plan assets and obligations is December 31, 2023. 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 January 1, 2024 and December 31, 2023 furnished by the Bloomington Fire Department Relief Association. This information includes, but is not limited to, statutory provisions, member census data, and financial information. Please see Milliman's funding valuation report dated February 20, 2024 for more information on the plan's participant group as of January 1, 2024 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 Bloomington Fire Department Relief Association. 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 Bloomington Fire Department Relief Association; 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 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.

Jack Chmielewski, FSA, EA, MAAA

Consulting Actuary

GASB 67 and 68 Disclosure for Fiscal Year Ending December 31, 2023 Bloomington Fire Department Relief Association Pension Fund Page 2

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 January 1, 2024. This is the date as of which the actuarial valuation is performed. The Measurement Date is December 31, 2023. This is the date as of which the net pension liability is determined. The Reporting Date is December 31, 2023. This is the plan's and/or employer's fiscal year ending date.

Significant Changes

There have been no significant changes between the valuation date and fiscal year end.

Participant Data as of January 1, 2024

Actives	97
Terminated vested & other inactives	11
Retirees and beneficiaries	<u>228</u>
Total	336

Schedule of Employer Contributions

Fiscal Year Ending	Actuarially Determined	Actual Employer Contribution ¹	Contribution Deficiency	Covered	Contribution as a % of
December 31	Contribution	Contribution	(Excess)	Payroll ²	Covered Payroll
2014	\$3,016,121	\$3,170,255	(\$154,134)	\$10,110,384	31.36%
2015	1,630,173	1,715,281	(85,108)	10,773,375	15.92%
2016	1,396,485	1,469,482	(72,997)	11,003,580	13.35%
2017	1,552,692	1,633,873	(81,181)	10,513,294	15.54%
2018	2,024,948	2,130,346	(105,398)	11,486,832	18.55%
2019	446,855	609,799	(162,944)	12,348,216	4.94%
2020	2,416,691	2,541,359	(124,668)	11,526,144	22.05%
2021	1,309,527	1,379,113	(69,586)	12,201,192	11.30%
2022	(1,040,867)	719,546	(1,760,413)	11,243,892	6.40%
2023	(1,641,341)	804,969	(2,446,310)	11,012,464	7.31%
2024	2,055,950	N/A	N/A	N/A	N/A

¹ Includes both City of Bloomington and State of Minnesota contributions

² Annual covered payroll is based on the assumption that each active member earns the salary rate of the highest paid non-officer police officer in the City of Bloomington. Because all active plan members are volunteers, there is no actual payroll.

Actuarial Methods and Assumptions Used for Funding Policy

The following actuarial methods and assumptions were used in the January 1, 2023 funding valuation. Please see the valuation report dated February 20, 2023 for further details.

to the end of the fiscal year in which the contributions are reported.

Actuarial Cost Method Entry Age Normal

Amortization Method For the first plan year in which current assets are less than the actuarial

accrued liability, an initial base is established equal to the accrued liability initial unfunded actuarial accrued liability (UAAL) and is amortized as a level

dollar amount over 20 years.

For subsequent years in which the UAAL exceeds \$0, bases will be established for actuarial losses, assumption changes, and plan amendments to be amortized over 20 years as a level dollar amount from the date of the establishment of the base and will be incorporated into the required

contribution development.

Otherwise, 10% of the excess of current assets over the actuarial accrued liability is treated as a supplemental credit and any amortization bases that existed prior to the plan's current assets exceeding the actuarial accrued

liabilities are considered fully amortized.1

Asset Valuation Method Market Value

Salary Increases 4.00%

Investment Rate of Return 6.00%

Cost of Living Adjustments 4.00%

Retirement Age 50 with 20 years of service

Turnover See the January 1, 2023 Actuarial Valuation

Mortality Pre-Retirement: RP-2014 Employee Mortality projected back to 2006 base

year using Projection Scale MP-2014, and then projected forward using

Projection Scale MP-2017.

Post-Retirement: RP-2014 Annuitant Mortality projected back to 2006 base year using Projection Scale MP-2014, and then projected forward using

Projection Scale MP-2017. Male rates are adjusted by a factor of 0.96.

Post-Disability: RP-2014 Annuitant Mortality projected back to 2006 base year using Projection Scale MP-2014, and then projected forward using Projection

Scale MP-2017. Male rates are adjusted by a factor of 0.96.

¹ Per Minnesota Session Laws 1994, Regular Session, Chapter 541, Section 2. It is Milliman's understanding that this Bloomington special law provision remains valid.

Statement of Fiduciary Net Position

	December 31, 2022	December 31, 2023
Assets		
Cash and cash equivalents	\$10,070	\$37,975
Receivables and prepaid expenses:		
Total receivables	\$0	0
Investments:		
Total investments	\$197,285,079	218,156,381
Total assets	\$197,295,149	218,194,356
Liabilities		
Accrued expenses and benefits payable	\$607,053	\$629,732
Total liabilities	\$607,053	629,732
Net position restricted for pensions	\$196,688,096	\$217,564,624

Statement of Changes in Fiduciary Net Position

Additions \$804,969 City of Bloomington contributions 0 Total contributions 804,969 Investment income (loss): 724,225 Dividends 724,225 Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096 End of year (December 31, 2023) \$217,564,624		December 31, 2023
City of Bloomington contributions 0 Total contributions 804,969 Investment income (loss): 724,225 Dividends 724,225 Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Additions	
City of Bloomington contributions 0 Total contributions 804,969 Investment income (loss): 724,225 Dividends 724,225 Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	State of Minnesota contributions	\$804,969
Total contributions 804,969 Investment income (loss): 724,225 Dividends 724,225 Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment expense 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	City of Bloomington contributions	. , 0
Dividends 724,225 Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096		804,969
Dividends 724,225 Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Investment income (loss):	
Net increase in fair value of investments 27,199,956 Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	· · · · · · · · · · · · · · · · · · ·	724 225
Less investment expenses: 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096		
Direct investment expense 228,469 Net investment income 27,695,712 Total additions 28,500,681 Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Net increase in fair value of investments	27,199,956
Net investment income 27,695,712 Total additions 28,500,681 Deductions 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Less investment expenses:	
Deductions 28,500,681 Deductions 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Direct investment expense	228,469
Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions 196,688,096	Net investment income	27,695,712
Deductions Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions 196,688,096	Total additions	28 500 681
Service benefits 7,489,990 Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Total additions	20,000,001
Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Deductions	
Administrative expenses 134,163 Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Service benefits	7 489 990
Total deductions 7,624,153 Net increase (decrease) 20,876,528 Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096		
Net increase (decrease) Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	, tallimodative expenses	101,100
Net position restricted for pensions Beginning of year (December 31, 2022) 196,688,096	Total deductions	7,624,153
Beginning of year (December 31, 2022)196,688,096	Net increase (decrease)	20,876,528
Beginning of year (December 31, 2022)196,688,096		
	Net position restricted for pensions	
	Beginning of year (December 31, 2022)	196,688,096

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 December 31, 2023.

			Long-Term Expected	Long-Term Expected			
			Arithmetic	Geometric			
		Target	Real Rate	Real Rate			
Asset Class	Index	Allocation*	of Return	of Return			
US Cash	BAML 3-Month T-Bills	2.00%	0.76%	0.74%			
US Core Fixed Income	Bloomberg Barclays Aggregate	38.00%	2.21%	2.08%			
US Broad Equity Market	Russell 3000 TR USD	35.00%	5.50%	3.82%			
Foreign Developed Equity	MSCI EAFE NR USD	10.00%	6.92%	5.13%			
Emerging Markets Equity	MSCI EM NR USD	5.00%	9.59%	6.21%			
Private Real Estate Property	NCREIF Property	5.00%	5.14%	3.91%			
Private Equity	Cambridge US Private Equity	5.00%	10.46%	6.25%			
Assumed Inflation - Mean			2.31%	2.30%			
Assumed Inflation - Standard De	eviation		1.44%	1.44%			
Portfolio Real Mean Return			4.73%	4.10%			
Portfolio Nominal Mean Return			7.04%	6.52%			
Portfolio Standard Deviation			10.72%				
Long-Term Expected Rate of Return 6.00							

^{*} As outlined in the Plan's investment policy dated February 1, 2020

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 Bloomington Fire Department Relief Association:

- The contributions from the City of Bloomington and State of Minnesota have a history of meeting at least 100% of the Actuarially Determined Contribution.
- The plan is currently over 100% funded and will contribute a portion of the normal cost plus expenses even if over 100% funded.
- 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	December 31, 2022	December 31, 2023
Total pension liability	\$180,654,061	\$186,990,493
Fiduciary net position	196,688,096	217,564,624
Net pension liability	(16,034,035)	(30,574,131)
Fiduciary net position as a % of total pension liability	108.88%	116.35%
Covered payroll ¹	11,243,892	11,012,464
Net pension liability as a % of covered payroll	-142.60%	-277.63%

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. There have been no significant changes between the valuation date and the fiscal year end. Any significant changes during this period must be reflected as prescribed by GASB 67 and 68.

Discount Rate

Discount rate	6.00%	6.00%
Long-term expected rate of return, net of investment expense	6.00%	6.00%
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 plan has not had a formal actuarial experience study performed.

Valuation date Valuation date December 31, 2022 December 31, 2023 Actuarial cost method Entry Age Normal Salary increases including inflation Mortality RP-2014 Mortality projected back to 2006 base year using Scale MP- 2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor Actuarial cost method Entry Age Normal Ent			
Actuarial cost method Salary increases including inflation Mortality Mortality RP-2014 Mortality RP-2014 Mortality projected back to 2006 base year using Scale MP- 2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor Entry Age Normal A.00% AP-2014 Mortality Projected back to	Valuation date	January 1, 2023	January 1, 2024
Salary increases including inflation Mortality RP-2014 Mortality RP-2014 Mortality projected back to 2006 base year using Scale MP- 2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor RP-2014 Mortality Projected back to 2006 base year 2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor	Measurement date	December 31, 2022	December 31, 2023
Mortality RP-2014 Mortality projected back to 2006 base year using Scale MP- 2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor RP-2014 Mortality RP-2014 Mortality RP-2014 Mortality RP-2014 Mortality RP-2014 Mortality RP-2014 Mortality RP-2016 base year 2006 base year 2014, then projected forward using Scale forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor	Actuarial cost method	Entry Age Normal	Entry Age Normal
projected back to 2006 base year using Scale MP- 2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor 2006 base year 2006 base year 2014, then projected forward using Scale forward using Scale MP-2017. Separate MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are adjusted by a factor	Salary increases including inflation	4.00%	4.00%
01 U 9h		RP-2014 Mortality projected back to 2006 base year using Scale MP-2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are	RP-2014 Mortality projected back to 2006 base year using Scale MP-2014, then projected forward using Scale MP-2017. Separate tables for employees and retirees. Male healthy and disabled retiree rates are

¹ Annual covered payroll is based on the assumption that each active member earns the salary rate of the highest paid non-officer police officer in the City of Bloomington. Because all active plan members are volunteers, there is no actual payroll.

Changes in Net Pension Liability

	Ir	ncrease (Decrease	rease)		
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability		
Changes in Net Pension Liability	(a)	(b)	(a) - (b)		
Balances as of December 31, 2022	\$180,654,061	\$196,688,096	(\$16,034,035)		
Changes for the year:					
Service cost	3,397,404		3,397,404		
Interest on total pension liability	10,821,661		10,821,661		
Effect of plan changes	0		0		
Effect of economic/demographic gains or losses	(392,643)		(392,643)		
Effect of assumptions changes or inputs	0		0		
Benefit payments	(7,489,990)	(7,489,990)	0		
Employer contributions		804,969	(804,969)		
Member contributions		0	0		
Net investment income		27,695,712	(27,695,712)		
Administrative expenses		(134,163)	134,163		
Balances as of December 31, 2023	186,990,493	217,564,624	(30,574,131)		

Sensitivity Analysis

The following presents the net pension liability of the Bloomington Fire Department Relief Association, calculated using the discount rate of 6.00%, as well as what the Bloomington Fire Department Relief Association's net pension liability would be if it were calculated using a discount rate that is 1 percentage point lower (5.00%) or 1 percentage point higher (7.00%) than the current rate.

	1% Decrease 5.00%	Current Discount Rate 6.00%	1% Increase 7.00%	
Total pension liability	\$218,686,090	\$186,990,493	\$162,121,129	
Fiduciary net position	217,564,624	217,564,624	217,564,624	
Net pension liability	1,121,466	(30,574,131)	(55,443,495)	

Schedule of Changes in Net Pension Liability and Related Ratios (in 1,000s)

-				Fiscal	Year Endin	g Decembe	er 31			
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Total Pension Liability										
Service cost	\$3,397	\$3,401	\$3,671	\$3,516	\$3,870	\$3,530	\$3,482	\$2,955	\$3,142	\$3,048
Interest on total pension liability	10,822	10,582	10,094	9,825	9,212	8,792	8,422	7,998	8,072	7,444
Effect of plan changes	0	0	0	0	0	0	0	0	0	0
Effect of economic/demographic gains or losses	(393)	(2,685)	1,532	(2,505)	(3,359)	257	(153)	831	(7,292)	(1,567)
Effect of assumption changes or inputs	0	0	0	0	7,008	0	0	0	0	0
Benefit payments	(7,490)	(7,112)	(6,698)	(6,293)	(6,052)	(5,781)	(5,476)	(5,047)	(4,884)	(4,567)
Net change in total pension liability	6,336	4,185	8,599	4,543	10,679	6,798	6,275	6,738	(962)	4,357
Total pension liability, beginning	180,654	176,469	167,870	163,327	152,648	145,849	139,574	132,836	133,799	129,442
Total pension liability, ending (a)	186,990	180,654	176,469	167,870	163,327	152,648	145,849	139,574	132,836	133,799
Fiduciary Net Position										
Employer contributions	\$805	\$720	\$1,379	\$2,541	\$610	\$2,130	\$1,634	\$1,469	\$1,715	\$3,170
Member contributions	0	0	0	0	0	0	0	0	0	0
Net investment income	27,696	(28,973)	23,024	28,386	30,775	(7,267)	24,504	11,133	(1,024)	9,983
Benefit payments	(7,490)	(7,112)	(6,698)	(6,293)	(6,052)	(5,781)	(5,476)	(5,047)	(4,884)	(4,567)
Administrative expenses	(134)	(118)	(107)	(109)	(108)	(101)	(95)	(109)	(93)	(83)
Net change in plan fiduciary net position	20,877	(35,485)	17,598	24,525	25,225	(11,018)	20,567	7,447	(4,286)	8,502
Fiduciary net position, beginning	196,688	232,173	214,575	190,049	164,825	175,842	155,275	147,829	152,114	143,612
Fiduciary net position, ending (b)	217,565	196,688	232,173	214,575	190,049	164,825	175,842	155,275	147,829	152,114
Net pension liability, ending = (a) - (b)	(\$30,574)	(\$16,034)	(\$55,704)	(\$46,705)	(\$26,723)	(\$12,177)	(\$29,993)	(\$15,701)	(\$14,992)	(\$18,315)
Fiduciary net position as a % of total pension liability	116.35%	108.88%	131.57%	127.82%	116.36%	107.98%	120.56%	111.25%	111.29%	113.69%
Covered payroll ¹	\$11,012	\$11,244	\$12,201	\$11,526	\$12,348	\$11,487	\$10,513	\$11,004	\$10,773	\$10,110
Net pension liability as a % of covered payroll	-277.63%	-142.60%	-456.54%	-405.21%	-216.41%	-106.01%	-285.29%	-142.69%	-139.16%	-181.15%

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.

GASB 67 and 68 Disclosure for Fiscal Year Ending December 31, 2023 Bloomington Fire Department Relief Association Pension Fund

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¹ Annual covered payroll is based on the assumption that each active member earns the salary rate of the highest paid non-officer police officer in the City of Bloomington. Because all active plan members are volunteers, there is no actual payroll.

Pension Expense

Pension Expense	January 1, 2022 to December 31, 2022	January 1, 2023 to December 31, 2023
Service cost	\$3,400,875	\$3,397,404
Interest on total pension liability	10,581,920	10,821,661
Effect of plan changes	0	0
Administrative expenses	118,301	134,163
Member contributions	0	0
Expected investment return net of investment expenses	(13,735,020)	(11,596,710)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	(1,876,334)	(1,333,103)
Recognition of assumption changes or inputs	1,629,744	488,924
Recognition of investment gains or losses	2,391,039	(4,369,994)
Pension Expense	2,510,525	(2,457,655)

As of December 31, 2023, the deferred inflows and outflows of resources are as follows:

	Deferred Inflows	Deferred Outflows		
Deferred Inflows / Outflows of Resources	of Resources	of Resources		
Differences between expected and actual experience	(\$1,264,181)	\$322,507		
Changes of assumptions	0	0		
Net difference between projected and actual earnings	0	5,201,273		
Contributions made subsequent to measurement date	0	0		
Total	(1,264,181)	5,523,780		

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 December 31:	
2024	(\$812,118)
2025	2,969,655
2026	5,321,864
2027	(3,219,802)
2028	0
Thereafter*	0

^{*} 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 12/31/2023	Amount Recognized in Pension Expense through 12/31/2023	Balance of Deferred Inflows as of 12/31/2023	Balance of Deferred Outflows as of 12/31/2023
Economic/	(\$392,643)	12/31/2023	2.9	(\$135,394)	(\$135,394)	(\$257,249)	\$0
demographic	(2,685,152)		3.2	(839,110)	(1,678,220)	(1,006,932)	φ0 0
gains or	1,531,903	12/31/2022	3.8	403,132	1,209,396	(1,000,932)	322,507
losses	(2,505,138)		3.8	(527,397)	(2,505,138)	0	0
103363	(3,358,770)		4.3	(234,334)	(3,358,770)	0	0
	(0,000,170)	Total	4.0	(1,333,103)	(6,468,126)	(1,264,181)	322,507
		rotar		(1,000,100)	(0,400,120)	(1,204,101)	022,007
Assumption	7,007,900	12/31/2019	4.3	488,924	7,007,900	0	0
changes or	, ,	Total		488,924	7,007,900		0
inputs							
-							
Investment	(16,099,002)		5.0	(3,219,800)	, ,	(12,879,202)	0
gains or	42,708,316	12/31/2022	5.0	8,541,663	17,083,326	0	25,624,990
losses	(10,312,655)		5.0	(2,062,531)	(6,187,593)	(4,125,062)	0
	(17,097,269)		5.0	(3,419,454)	(13,677,816)	(3,419,453)	0
	(21,049,368)		5.0		(21,049,368)	0	0
		Total		(4,369,994)	(27,051,251)	(20,423,717)	25,624,990
Total for economic/demographic gains or losses and assumption changes or inputs						(1,264,181)	322,507
Net deferred (inflows)/outflows for investment gains or losses					0	5,201,273	
Total deferred (inflows)/outflows					(1,264,181)	5,523,780	
Total net deferrals						4,259,599	

^{*} 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.

	Total	Plan	Net	Net Investment			Net Pension		
	Pension	Fiduciary	Pension	Deferred	Deferred	(Inflows)/	Net	Liability plus	Annual
	Liability	Net Position	Liability	(Inflows)	Outflows	Outflows	Deferrals	Net Deferrals	Expense
Balances as of December 31, 2022	(\$180,654,061)	\$196,688,096	\$16,034,035	(\$2,607,773)	\$1,214,563	\$16,930,281	\$15,537,071	\$31,571,106	
Service cost	(3,397,404)		(3,397,404)				- 1		3,397,404
Interest on total pension liability	(10,821,661)		(10,821,661)						10,821,661
Effect of plan changes	0		0						0
Effect of liability gains or losses	392,643		392,643	(392,643)			(392,643)		
Effect of assumption changes or inputs	0		0				0		
Benefit payments	7,489,990	(7,489,990)	0				- 1		
Administrative expenses		(134,163)	(134,163)						134,163
Member contributions		0	0						0
Expected net investment income		11,596,710	11,596,710				- 1		(11,596,710)
Investment gains or losses		16,099,002	16,099,002			(16,099,002)	(16,099,002)		
Employer contributions		804,969	804,969					804,969	1 1
Recognition of liability gains or losses				1,736,235	(403,132)		1,333,103		(1,333,103)
Recognition of assumption changes or inputs					(488,924)		(488,924)		488,924
Recognition of investment gains or losses						4,369,994	4,369,994		(4,369,994)
Annual expense								2,457,655	(2,457,655)
Balances as of December 31, 2023	(186,990,493)	217,564,624	30,574,131	(1,264,181)	322,507	5,201,273	4,259,599	34,833,730	1 1

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:

- 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.

GASB 67 and 68 Disclosure for Fiscal Year Ending December 31, 2023 Bloomington Fire Department Relief Association Pension Fund