Wyoming Retirement System Law Enforcement Retirement Fund

GASB Statement Nos. 67 and 68 Accounting and Financial Reporting for Pensions
For Measurement Date as of December 31, 2024





April 8, 2025

Board of Trustees
Wyoming Law Enforcement Retirement Fund

Dear Board Members:

This report provides information required by the Wyoming Law Enforcement Retirement Fund (WRS) in connection with the Governmental Accounting Standards Board (GASB) Statement No. 67 and 68 for the Wyoming Retirement System ("WRS"). These calculations have been made on a basis that is consistent with our understanding of these Statements.

GASB Statement No. 67 is the accounting standard that applies to the stand-alone financial reports issued by retirement systems. GASB Statement No. 68 establishes accounting and financial reporting for state and local government employers who provide their employees (including former employees) pension benefits through a trust.

Our calculation of the liability associated with the benefits described in this report was performed for the purpose of providing reporting and disclosure information that satisfies the requirements of GASB Statement Nos. 67 and 68. The Net Pension Liability is not an appropriate measure for measuring the sufficiency of plan assets to cover the estimated cost of settling the employer's benefit obligation. The Net Pension Liability is not an appropriate measure for assessing the need for or amount of future employer contributions. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB Statement Nos. 67 and 68 may produce significantly different results. This report may be provided to parties other than the Wyoming Law Enforcement Retirement Fund only in its entirety and only with the permission of WRS. GRS is not responsible for unauthorized use of this report.

This report is based upon information, furnished to us by WRS, concerning retirement and ancillary benefits, active members, deferred vested members, retirees and beneficiaries, and financial data. We checked for internal reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by WRS.

This report complements the actuarial valuation report that was provided to WRS and should be considered in conjunction with that report. Please see the actuarial valuation report as of January 1, 2024 for additional discussion of the nature of actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions. Furthermore, this report includes the assumptions adopted by the Board at the November 17, 2021 and the February 17, 2022 meetings. For a detailed description of the experience related to these assumptions, as well as the rationale for any changes, please see our latest Wyoming Retirement System Actuarial Experience Study Report that covered the five-year investigation period ending December 31, 2020.

Board of Trustees Wyoming Retirement System Law Enforcement Officers April 8, 2025 Page 2

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge, the information contained in this report is accurate and fairly presents the actuarial position of the Wyoming Law Enforcement Retirement Fund as of the valuation date.

All calculations have been made in conformity with generally accepted actuarial principles and practices as well as with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Paul T. Wood, Thomas A. Lyle, Dana Woolfrey, and Karli Fehrman are members of the American Academy of Actuaries (MAAA) and are experienced in performing valuations for public retirement systems. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor.

Respectfully submitted,

Gabriel, Roeder, Smith & Company

Ву

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EXECUTIVE SUMMARY

Executive Summary as of December 31, 2024

				2024			
Actuarial Valuation Date			Ja	anuary 1, 2024			
Measurement Date of the Net Pension Liability			De	December 31, 2024			
Employer's Fiscal Year Ending Date (Reporting Date)			De	cember 31, 2024			
Membership							
Number of							
- Retirees and Beneficiaries				1,694			
- Inactive, Nonretired Members				1,882			
- Active Members				2,495			
- Total				6,071			
Covered Payroll			\$	179,253,064			
Net Pension Liability							
Total Pension Liability			\$	1,107,949,953			
Plan Fiduciary Net Position				973,634,824			
Net Pension Liability			\$	134,315,129			
Plan Fiduciary Net Position as a Percentage							
of Total Pension Liability				87.88 %			
Net Pension Liability as a Percentage							
of Covered Payroll				74.93 %			
Development of the Single Discount Rate							
Single Discount Rate				6.80 %			
Long-Term Expected Rate of Investment Return				6.80 %			
Long-Term Municipal Bond Rate*				4.08 %			
Last year ending December 31 in the 2024 to 2123 projection period							
for which projected benefit payments are fully funded				2123			
Total Pension Expense			\$	21,340,464			
Deferred Outflows and Deferred Inflows of Resources by Source to be recognized	Deferr	Pension Expense ed Outflows esources		eferred Inflows of Resources			
Difference between expected and actual experience	\$	25,401,351	\$	3,362,179			

*Source: Fixed-income municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in the Bond Buyer "20-Bond GO Index" as of December 31, 2024.



Total

Changes in assumptions

on pension plan investments

Net difference between projected and actual earnings

10,492,577

48,047,022

83,940,950

98,237,380

74,374,221

175,973,780

Discussion

Accounting Standard

For pension plans that are administered through trusts or equivalent arrangements, Governmental Accounting Standards Board (GASB) Statement No. 67 establishes standards of financial reporting for separately issued financial reports and specifies the required approach for measuring the pension liability. Similarly, GASB Statement No. 68 establishes standards for state and local government employers (as well as non-employer contributing entities) to account for and disclose the net pension liability, pension expense, and other information associated with providing retirement benefits to their employees (and former employees) on their basic financial statements.

The following discussion provides a summary of the information that is required to be disclosed under these accounting standards. A number of these disclosure items are provided in this report. However, certain information, such as notes regarding accounting policies and investments, is not included in this report and the retirement system and/or plan sponsor will be responsible for preparing and disclosing that information to comply with these accounting standards.

Financial Statements

GASB Statement No. 68 requires state or local governments to recognize the net pension liability and the pension expense on their financial statements. The net pension liability is the difference between the total pension liability and the plan's fiduciary net position. In traditional actuarial terms, this is analogous to the accrued liability less the market value of assets (not the smoothed actuarial value of assets that is often encountered in actuarial valuations performed to determine the employer's contribution requirement).

Paragraph 34 of GASB Statement No. 68 states, "Contributions to the pension plan from the employer subsequent to the measurement date of the collective net pension liability and before the end of the employer's reporting period should be reported as a deferred outflow of resources related to pensions." The information contained in this report does not incorporate any contributions made to WRS subsequent to the measurement date of December 31, 2024.

The pension expense recognized each fiscal year is equal to the change in the net pension liability from the beginning of the year to the end of the year, adjusted for deferred recognition of the liability and investment experience.

Pension plans that prepare their own, stand-alone financial statements are required to present two financial statements — a statement of fiduciary net position and a statement of changes in fiduciary net position in accordance with GASB Statement No. 67. The *statement of fiduciary net position* presents the assets and liabilities of the pension plan at the end of the pension plan's reporting period. The *statement of changes in fiduciary net position* presents the additions, such as contributions and investment income, and deductions, such as benefit payments and expenses, and net increase or decrease in the fiduciary net position.



Notes to Financial Statements

GASB Statement No. 68 requires the notes of the employer's financial statements to disclose the total pension expense, the pension plan's liabilities and assets, and deferred outflows and inflows of resources related to pensions.

GASB Statement Nos. 67 and 68 require the notes of the financial statements for the employers and pension plans to include certain additional information. The list of disclosure items should include:

- a description of benefits provided by the plan;
- the type of employees and number of members covered by the pension plan;
- a description of the plan's funding policy, which includes member and employer contribution requirements;
- the pension plan's investment policies;
- the pension plan's fiduciary net position and the net pension liability;
- the net pension liability using a discount rate that is 1% higher and 1% lower than used to calculate the total pension liability and net pension liability for financial reporting purposes;
- significant assumptions and methods used to calculate the total pension liability;
- inputs to the discount rates; and
- certain information about mortality assumptions and the dates of experience studies.

Retirement systems that issue stand-alone financial statements are required to disclose additional information in accordance with GASB Statement No. 67. This information includes:

- the composition of the pension plan's Board and the authority under which benefit terms may be amended:
- a description of how fair value is determined;
- information regarding certain reserves and investments, which include concentrations of investments greater than or equal to 5%, receivables, and insurance contracts excluded from plan assets;
- annual money-weighted rate of return.

Required Supplementary Information

GASB Statement No. 67 requires a 10-year fiscal history of:

- sources of changes in the net pension liability;
- information about the components of the net pension liability and related ratios, including the pension plan's fiduciary net position as a percentage of the total pension liability, and the net pension liability as a percent of covered-employee payroll; and
- a comparison of the actual employer contributions to the actuarially determined contributions based on the plan's funding policy.



General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status

Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 6.80% on the actuarial value of assets), then the following outcomes are expected:

- 1. The employer normal cost as a percentage of pay is expected to remain level as a percentage of payroll.
- 2. The unfunded liability is expected to decrease as a percentage of payroll each year in the future.
- 3. The unfunded liability is expected to be fully amortized during the lifetimes of current members.

This funding policy results in no expected crossover date and a GASB single discount rate of 6.80%. This funding policy results in the expectation that the plan's assets will be able to fully pay for promised benefits through at least 2123. The projections in this report are strictly for the purpose of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

Timing of the Valuation

An actuarial valuation to determine the total pension liability is required to be performed at least every two years. The net pension liability and pension expense should be measured as of the pension plan's fiscal year end (measurement date) on a date that is within the employer's prior fiscal year. If the actuarial valuation used to determine the total pension liability is not calculated as of the measurement date, the total pension liability is required to be rolled forward from the actuarial valuation date to the measurement date.

The total pension liability shown in this report is based on an actuarial valuation performed as of January 1, 2024 and rolled forward to a measurement date of December 31, 2024.



Single Discount Rate

Projected benefit payments are required to be discounted to their actuarial present values using a Single Discount Rate that reflects (1) a long-term expected rate of return on pension plan investments (to the extent that the plan's 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 (which is published by the Federal Reserve) 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 6.80%; the municipal bond rate is 4.08% (based on the daily rate closest to but not later than the measurement date of the Bond Buyer "20-Bond GO Index"); and the resulting Single Discount Rate is 6.80%.

Effective Date and Transition

GASB Statement Nos. 67 and 68 are effective for fiscal years beginning after June 15, 2013, and June 15, 2014 respectively, earlier application is encouraged by the GASB.



SECTION B

FINANCIAL STATEMENTS

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Wyoming Law Enforcement Retirement Fund. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

Statement of Pension Expense under GASB Statement No. 68 Fiscal Year Ended December 31, 2024

A. Expense

10. Total Pension Expense	\$ 21,340,464 *
9. Recognition of Outflow (Inflow) of Resources due to Assets	(14,424,968)
8. Recognition of Outflow (Inflow) of Resources due to Liabilities	12,386,415
7. Other Changes in Plan Fiduciary Net Position	65,136
6. Pension Plan Administrative Expense	910,508
5. Projected Earnings on Plan Investments (made negative for addition here)	(60,424,618)
4. Employee Contributions (made negative for addition here)	(18,511,785)
3. Current-Period Benefit Changes	0
2. Interest on the Total Pension Liability	71,234,624
1. Service Cost	\$ 30,105,152

^{*}In accordance with GASB 71, employers may need to illustrate contributions made after the measurement date



Statement of Outflows and Inflows Arising from Current Reporting Period Fiscal Year Ended December 31, 2024

A. Outflows (Inflows)) of Resources o	lue to Liabilities
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,	
1. Difference between expected and actual experience of the Total Pension Liability	
(gains) or losses	\$ 26,653,223
2. Assumption Changes (gains) or losses	\$ 0
3. Recognition period for Liabilities: Average of the expected remaining service lives	
of all employees {in years}	3.5900
4. Outflow (Inflow) of Resources to be recognized in the current pension expense for the	
difference between expected and actual experience of the Total Pension Liability	\$ 7,424,296
5. Outflow (Inflow) of Resources to be recognized in the current pension expense for	
assumption changes	\$ 0
6. Outflow (Inflow) of Resources to be recognized in the current pension expense	
due to Liabilities	\$ 7,424,296
7. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for the	
difference between expected and actual experience of the Total Pension Liability	\$ 19,228,927
8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for	
assumption changes	\$ 0
9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	
due to Liabilities	\$ 19,228,927
B. Outflows (Inflows) of Resources due to Assets	
1. Net difference between projected and actual earnings on pension plan investments	
(gains) or losses	\$ (32,606,458)
2. Recognition period for Assets {in years}	5.0000
3. Outflow (Inflow) of Resources to be recognized in the current pension expense	
due to Assets	\$ (6,521,292)
4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	
due to Assets	\$ (26,085,166)



History of Deferred Outflows and Inflows of Resources by Source Fiscal Year Ended December 31, 2024

Recognition Period	4.9669		4.8650		4.7436		4.5560		4.3883		4.2374		4.1607		3.9111		3.7857		3.5900		(Deferred Net Inflows)/Outflows a
	2015		2016		2017		2018		2019		2020		2021		2022		2023		2024	Total	,	Measurement Date
Total	\$ 1,710,375	\$	(3,501,453)	\$	(6,691,047)	\$	(7,328,715)	\$	19,861,777	\$	7,869,329	\$	7,679,619	\$	(14,432,899)	\$	12,456,775	\$	26,653,223			
2015	344,355																			344,355	,	
2016	344,355		(719,723)																	(375,368	3)	
2017	344,355		(719,723)		(1,410,542)															(1,785,910))	
2018	344,355		(719,723)		(1,410,542)		(1,608,585)													(3,394,495	5)	
2019	332,955		(719,723)		(1,410,542)		(1,608,585)		4,526,075											1,120,180		
2020	-		(622,561)		(1,410,542)		(1,608,585)		4,526,075		1,857,113									2,741,500		
2021	-		-		(1,048,879)		(1,608,585)		4,526,075		1,857,113		1,845,752							5,571,476		
2022	-		-		-		(894,375)		4,526,075		1,857,113		1,845,752		(3,690,240)					3,644,325		
2023	_		_		_		-		1,757,477		1,857,113		1,845,752		(3,690,240)		3,290,481			5,060,583		
2024	_		_		_		_				440,877		1,845,752		(3,690,240)		3,290,481		7,424,296	9,311,166		
2025	_		_		_		_		_		-		296,611		(3,362,179)		3,290,481		7,424,296	7,649,209		\$ 22,039,172
2026													-		(5,552,175)		2,585,332		7,424,296	10,009,628		
2027																	2,303,332		4,380,335	4,380,335		
2028																			4,380,333	4,360,333		
2029	_		_		_		_		_		_		_		_		_		_	_		
Thereafter	-		-		-		-		-		-		-		-		-		-	-		
_	\$ 1,710,375	\$	(3,501,453)	Ś	(6,691,047)	Ś	(7,328,715)	\$	19,861,777	Ś	7,869,329	Ś	7,679,619	Ś	(14,432,899)	Ś	12,456,775	Ś	26,653,223	\$ 44,276,984	_	
Assumption changes - Recognition Period	4.9669	tflow	4.8650		4.7436		4.5560		4.3883		4.2374		4.1607		3.9111		3.7857		3.5900			
-	2015	_	2016	_	2017	_	2018	_	2019	_	2020	_	2021	_	2022	_	2023	_	2024	Total	_	
	\$ -	\$	-	\$	51,421,521	\$	94,255,216	\$	(111,460,988)	\$	-	\$	271,664,329	\$	(57,529,503)	\$	(179,852,545)	\$	-			
2015	-																			-		
2016	-		-																			
2017	-		-		10,840,189															10,840,189		
2018	-		-		10,840,189		20,688,151													31,528,340		
2019	-		-		10,840,189		20,688,151		(25,399,583)											6,128,757		
2020	-		-		10,840,189		20,688,151		(25,399,583)		-									6,128,757		
2021	-		-		8,060,765		20,688,151		(25,399,583)		-		65,292,938							68,642,271		
2022	-		-		-		11,502,612		(25,399,583)		-		65,292,938		(14,709,290)					36,686,677		
2023	-		-		-		-		(9,862,656)		-		65,292,938		(14,709,290)		(47,508,399)			(6,787,407		
2024	-		-		-		-		-		-		65,292,938		(14,709,290)		(47,508,399)		-	3,075,249		
2025	-		-		-		-		-		-		10,492,577		(13,401,633)		(47,508,399)		-	(50,417,455)	\$ (87,744,803
2026	-		-		-		-		-		-		-		-		(37,327,348)		-	(37,327,348	3)	
2027	-		-		-		_				_		-		-		-		-	-		
2027																						
2028	-		-		-		-		-		-		-		-		-		-	-		
	-		-		-		-		-		-		-		-		-		-	-		
2028	- - -		- - -		- - -		- - -		- -		- - -		- - -		- - -		- - -		- - -		_	



History of Deferred Outflows and Inflows of Resources by Source Fiscal Year Ended December 31, 2024 (continued)

cognition Period	5.0000		5.0000	5.0000		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000		
														Deferred Net (Inflows)/Outflows
	2015		2016	2017		2018	2019	2020	2021	2022	2023	2024	Total	Measurement Date
Total	\$ 46,589,301	\$	2,778,485	\$ (39,041,3	66)	\$ 65,975,687	\$ (69,167,783)	\$ (25,773,169)	\$ (80,071,509)	\$ 120,117,552	\$ (53,791,256)	\$ (32,606,458)		
2015	9,317,860												9,317,860	
2016	9,317,860		555,697										9,873,557	
2017	9,317,860		555,697	(7,808,2	73)								2,065,284	
2018	9,317,860		555,697	(7,808,2	73)	13,195,137							15,260,421	
2019	9,317,861		555,697	(7,808,2	73)	13,195,137	(13,833,557)						1,426,865	
2020	-		555,697	(7,808,2	73)	13,195,137	(13,833,557)	(5,154,634)					(13,045,630)	
2021	-		-	(7,808,2	74)	13,195,137	(13,833,557)	(5,154,634)	(16,014,302)				(29,615,630)	
2022	-		-			13,195,139	(13,833,557)	(5,154,634)	(16,014,302)	24,023,510			2,216,156	
2023	-		-			-	(13,833,555)	(5,154,634)	(16,014,302)	24,023,510	(10,758,251)		(21,737,232)	
2024	-		-			-	-	(5,154,633)	(16,014,302)	24,023,510	(10,758,251)	(6,521,292)	(14,424,968)	
2025	-		-			-	-	-	(16,014,301)	24,023,510	(10,758,251)	(6,521,292)	(9,270,334)	\$ (26,327,19
2026	-		-			-	-	-	-	24,023,512	(10,758,251)	(6,521,292)	6,743,969	
2027	-		-			-	-	-	-	-	(10,758,252)	(6,521,292)	(17,279,544)	
2028	-		-			-	-	-	-	-	-	(6,521,290)	(6,521,290)	
2029	-		-			-	-	-	-	-	-	-	-	
Thereafter	_						_			_		_	_	
merearter														
	\$ 46,589,301	\$	2,778,485	\$ (39,041,3	66)	\$ 65,975,687	\$ (69,167,783)	\$ (25,773,169)	\$ (80,071,509)	\$ 120,117,552	\$ (53,791,256)	\$ (32,606,458)	\$ (64,990,516)	
	from all sources	- Net (inflows)/outflo	ows of resource	· 	2018	2019	\$ (25,773,169) 2020	2021	\$ 120,117,552	2023	\$ (32,606,458) 2024	\$ (64,990,516) Total	
<u> </u>	from all sources	-	inflows)/outflo	ows of resource	· 	,,						\$ (32,606,458)		
tal net differences f	2015 48,299,676 9,662,215	- Net (2016 (722,968)	ows of resource	· 	2018	2019	2020	2021	2022	2023	\$ (32,606,458) 2024	Total 9,662,215	
tal net differences f	2015 \$ 48,299,676 9,662,215 9,662,215	- Net (2016 (722,968) (164,026)	ows of resource	· 	2018	2019	2020	2021	2022	2023	\$ (32,606,458) 2024	Total 9,662,215 9,498,189	
tal net differences f Total \$ 2015	7015 \$ 48,299,676 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968)	2017 \$ 5,689,1	08	2018	2019	2020	2021	2022	2023	\$ (32,606,458) 2024	Total 9,662,215 9,498,189 11,119,563	
tal net differences f Total \$ 2015 2016	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026)	2017 \$ 5,689,1	08	2018	2019	2020	2021	2022	2023	\$ (32,606,458) 2024	7otal 9,662,215 9,498,189 11,119,563 43,394,266	
Total \$ 2015 2016 2017 2018 2019	7015 \$ 48,299,676 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3	74 74 774	2018 \$ 152,902,188 32,274,703 32,274,703	2019 \$ (160,766,994)	\$ (17,903,840)	2021	2022	2023	\$ (32,606,458) 2024	70tal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802	
Total \$ 2015 2016 2017 2018	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188	2019 \$ (160,766,994)	2020 \$ (17,903,840)	2021	2022	2023	\$ (32,606,458) 2024	70tal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373)	
Total \$ 2015 2016 2017 2018 2019 2020	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703	2019 \$ (160,766,994)	2020 \$ (17,903,840) (3,297,521) (3,297,521)	2021	2022	2023	\$ (32,606,458) 2024	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117	
Total \$ 2015 2016 2017 2018 2019 2020 2021	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (3,297,521)	2021 \$ 199,272,439 51,124,388 51,124,388	2022 \$ 48,155,150	2023 \$ (221,187,026)	\$ (32,606,458) 2024	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158	
Total \$ 2015 2016 2017 2018 2019 2020	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (3,297,521)	2021 \$ 199,272,439	2022 \$ 48,155,150	2023	\$ (32,606,458) 2024	9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056)	
Total \$ 2015 2016 2017 2018 2019 2020 2021	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703 23,803,376	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (3,297,521)	2021 \$ 199,272,439 51,124,388 51,124,388 51,124,388 51,124,388	2022 \$ 48,155,150	2023 \$ (221,187,026)	\$ (32,606,458) 2024	70tal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056) (2,038,553)	
Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703 23,803,376	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (3,297,521)	2021 \$ 199,272,439 51,124,388 51,124,388 51,124,388	2022 \$ 48,155,150 5,623,980 5,623,980 5,623,980 7,259,698	2023 \$ (221,187,026) (54,976,169) (54,976,169) (54,976,169)	\$ (32,606,458) 2024 \$ (5,953,235)	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056) (2,038,553) (52,038,580)	\$ (92,032,83
Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703 23,803,376	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (3,297,521)	2021 \$ 199,272,439 51,124,388 51,124,388 51,124,388 51,124,388	2022 \$ 48,155,150 5,623,980 5,623,980 5,623,980 5,623,980	2023 \$ (221,187,026) \$ (54,976,169) (54,976,169) (54,976,169) (45,500,267)	\$ (32,606,458) 2024 \$ (5,953,235) 903,004 903,004 903,004	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056) (2,038,553) (52,038,580) (20,573,751)	\$ (92,032,83
Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703 23,803,376	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (4,713,756)	2021 \$ 199,272,439 51,124,388 51,124,388 51,124,388 51,124,388 (5,225,113)	2022 \$ 48,155,150 5,623,980 5,623,980 5,623,980 7,259,698	2023 \$ (221,187,026) (54,976,169) (54,976,169) (54,976,169)	\$ (32,606,458) 2024 \$ (5,953,235) 903,004 903,004 903,004 (2,140,957)	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056) (2,038,553) (52,038,580) (20,573,751) (12,899,209)	\$ (92,032,83
Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703 23,803,376	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (4,713,756)	2021 \$ 199,272,439 51,124,388 51,124,388 51,124,388 51,124,388 (5,225,113)	\$ 48,155,150 \$ 48,155,150 \$ 5,623,980 \$ 5,623,980 \$ 7,259,698 24,023,512	2023 \$ (221,187,026) \$ (54,976,169) (54,976,169) (54,976,169) (45,500,267)	\$ (32,606,458) 2024 \$ (5,953,235) 903,004 903,004 903,004	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056) (2,038,553) (52,038,580) (20,573,751)	\$ (92,032,83
Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	\$ 48,299,676 9,662,215 9,662,215 9,662,215 9,662,215 9,662,215	- Net (2016 (722,968) (164,026) (164,026) (164,026) (164,026) (164,026) (66,864)	2017 \$ 5,689,1 1,621,3 1,621,3 1,621,3 1,621,3	74 74 74 74 74	2018 \$ 152,902,188 32,274,703 32,274,703 32,274,703 32,274,703 23,803,376	2019 \$ (160,766,994) (34,707,065) (34,707,065) (34,707,065) (34,707,065)	2020 \$ (17,903,840) (3,297,521) (3,297,521) (3,297,521) (4,713,756)	2021 \$ 199,272,439 51,124,388 51,124,388 51,124,388 51,124,388 (5,225,113)	\$ 48,155,150 \$ 48,155,150 \$ 5,623,980 \$ 5,623,980 \$ 7,259,698 24,023,512	2023 \$ (221,187,026) \$ (54,976,169) (54,976,169) (54,976,169) (45,500,267)	\$ (32,606,458) 2024 \$ (5,953,235) 903,004 903,004 903,004 (2,140,957)	7otal 9,662,215 9,498,189 11,119,563 43,394,266 8,675,802 (4,175,373) 44,598,117 42,547,158 (23,464,056) (2,038,553) (52,038,580) (20,573,751) (12,899,209)	\$ (92,032,83



Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Fiscal Year Ended December 31, 2024

A. Outflows and Inflows of Resources due to Liabilities and Assets to be Recognized in Current Pension Expense

	Outflows	Inflows	Net Outflows
	 of Resources	 f Resources	 of Resources
1. Due to Liabilities	\$ 78,294,344	\$ 65,907,929	\$ 12,386,415
2. Due to Assets	 24,023,510	 38,448,478	 (14,424,968)
3. Total	\$ 102,317,854	\$ 104,356,407	\$ (2,038,553)

B. Outflows and Inflows of Resources by Source to be Recognized in Current Pension Expense

	o	Outflows f Resources	o	Inflows f Resources	let Outflows of Resources
1. Differences between expected and actual experience	\$	13,001,406	\$	3,690,240	\$ 9,311,166
2. Assumption Changes		65,292,938		62,217,689	3,075,249
3. Net Difference between projected and actual					
earnings on pension plan investments		24,023,510		38,448,478	 (14,424,968)
4. Total	\$	102,317,854	\$	104,356,407	\$ (2,038,553)

C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	rred Outflows f Resources	 erred Inflows f Resources	 ferred Outflows f Resources
1. Differences between expected and actual experience	\$ 25,401,351	\$ 3,362,179	\$ 22,039,172
2. Assumption Changes	10,492,577	98,237,380	(87,744,803)
3. Net Difference between projected and actual			
earnings on pension plan investments	 48,047,022	 74,374,221	 (26,327,199)
4. Total	\$ 83,940,950	\$ 175,973,780	\$ (92,032,830)

D. Deferred Outflows and Deferred Inflows of Resources by Year to be Recognized in Future Pension Expenses

Year Ending December 31		eferred Outflows f Resources
2025	\$	(52,038,580)
2026		(20,573,751)
2027		(12,899,209)
2028		(6,521,290)
2029		0
Thereafter		0
Total	Ś	(92.032.830)



Statement of Fiduciary Net Position as of December 31, 2024

	2024
Assets	
Cash and Deposits	\$ 43,468,094
Receivables	
Accounts Receivable - Sale of Investments	\$ 8,702,457
Accrued Interest and Other Dividends	1,912,070
Contributions	1,979,647
Accounts Receivable - Other	56,000,817
Total Receivables	\$ 68,594,991
Investments	
Fixed Income	\$ 157,808,900
Domestic Equities	466,763,680
International Equities	121,093,556
Real Estate	175,356,550
Security Lending Collateral	34,607,218
Capital Assets, at Cost, Net of Accumulated Depreciation	193,084
Total Investments	\$ 955,822,988
Total Assets	\$ 1,067,886,073
Liabilities	
Payables	
Accounts Payable - Purchase of Investments	\$ 92,775,168
Accrued Expenses	1,443,867
Accounts Payable - Other	 32,214
Total Liabilities	\$ 94,251,249
Net Position Restricted for Pensions	\$ 973,634,824



Statement of Changes in Fiduciary Net Position for Year Ended December 31, 2024

	2024
Additions	
Contributions	
Employer	\$ 17,624,291
Employee	17,623,490
Other Employer Contributions	570,373
Other Employee Contributions	888,295
Total Contributions	\$ 36,706,449
Investment Income	
Net Appreciation in Fair Value of Investments	\$ 80,649,327
Interest and Dividends	19,398,189
Less Investment Expense	 (7,016,440)
Net Investment Income	\$ 93,031,076
Other	\$ 0
Total Additions	\$ 129,737,525
Deductions	
Benefit Payments, including Refunds of Employee Contributions	\$ 51,459,308
Pension Plan Administrative Expense	910,508
Other	 65,136
Total Deductions	\$ 52,434,952
Net Increase in Net Position	\$ 77,302,573
Net Position Restricted for Pensions	
Beginning of Year	\$ 896,332,251
End of Year	\$ 973,634,824



SECTION C

REQUIRED SUPPLEMENTARY INFORMATION

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Wyoming Law Enforcement Retirement Fund. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

Schedule of Changes in Net Pension Liability and Related Ratios Current Reporting Period Fiscal Year Ended December 31, 2024

A. Total pension liability	
1. Service cost	\$ 30,105,152
2. Interest on the total pension liability	71,234,624
3. Changes of benefit terms	0
4. Difference between expected and actual experience	
of the total pension liability	26,653,223
5. Changes of assumptions	0
6. Benefit payments, including refunds	
of employee contributions	 (51,459,308)
7. Net change in total pension liability	76,533,691
8. Total pension liability – beginning	 1,031,416,262
9. Total pension liability – ending	\$ 1,107,949,953
B. Plan fiduciary net position	
1. Contributions – employer	\$ 18,194,664
2. Contributions – employee	18,511,785
3. Net investment income	93,031,076
4. Benefit payments	(48,785,344)
5. Refunds	(2,673,964)
6. Pension plan administrative expense	(910,508)
7. Other	 (65,136)
8. Net change in plan fiduciary net position	77,302,573
9. Plan fiduciary net position – beginning	 896,332,251
10. Plan fiduciary net position – ending	\$ 973,634,824
C. Net pension liability	\$ 134,315,129
D. Plan fiduciary net position as a percentage	
of the total pension liability	87.88 %
E. Covered-employee payroll	\$ 179,253,064
F. Net pension liability as a percentage	
of covered-employee payroll	74.93 %



Schedules of Required Supplementary Information Schedule of Changes in Net Pension Liability and Related Ratios Multiyear

Fiscal year ending December 31,		2024		2023	2022	2021	2020	2019	2018	 2017	2016	5	2015
Total pension liability													
Service cost	\$	30,105,152	\$	37,291,875	\$ 39,080,968	\$ 40,282,611	\$ 23,499,547	\$ 22,866,557	\$ 26,657,347	\$ 23,241,982 \$	23,33	39,214	\$ 22,790,835
Interest on the total pension liability		71,234,624		63,775,491	59,391,957	57,437,879	55,065,772	51,970,908	47,238,165	47,200,725	45,94	15,359	43,444,727
Changes of benefit terms		0		459,677	0	0	0	0	0	0		0	0
Difference between expected and													
actual experience		26,653,223		12,456,775	(14,432,899)	7,679,619	7,869,329	19,861,777	(7,328,715)	(6,691,047)	(3,50	01,453)	1,710,375
Changes of assumptions		0		(179,852,545)	(57,529,503)	271,664,329	0	(111,460,988)	94,255,216	51,421,521		0	0
Benefit payments, including refunds													
of employee contributions		(51,459,308)		(49,586,874)	(46,529,493)	(43,306,822)	(40,386,827)	(37,276,954)	(35,984,464)	(33,662,493)	(31,36	54,891)	(30,119,285)
Net change in total pension liability		76,533,691		(115,455,601)	(20,018,970)	333,757,616	46,047,821	(54,038,700)	124,837,549	81,510,688	34,41	18,229	37,826,652
Total pension liability - beginning	:	1,031,416,262		1,146,871,863	1,166,890,833	833,133,217	787,085,396	841,124,096	716,286,547	634,775,859	600,35	57,630	562,530,978
Total pension liability - ending (a)	\$:	1,107,949,953	\$	1,031,416,262	\$ 1,146,871,863	\$ 1,166,890,833	\$ 833,133,217	\$ 787,085,396	\$ 841,124,096	\$ 716,286,547 \$	634,77	75,859	\$ 600,357,630
Plan fiduciary net position													
Employer contributions	\$	18,194,664	\$	16,113,114	\$ 14,990,494	\$ 14,567,813	\$ 14,893,512	\$ 14,270,844	\$ 13,781,011	\$ 13,614,406 \$	13,73	30,305	\$ 12,706,883
Employee contributions		18,511,785		16,510,832	16,904,076	15,246,586	15,860,480	14,671,686	13,846,377	13,691,494	14,44	12,190	15,397,475
Pension plan net investment income		93,031,076		108,015,423	(60,635,903)	131,614,933	74,478,954	110,793,173	(22,169,139)	77,946,645	37,78	32,650	(5,371,824)
Benefit payments		(48,785,344)		(46,131,432)	(42,739,295)	(40,189,329)	(37,604,942)	(34,850,971)	(32,013,552)	(29,621,411)	(27,87	73,802)	(25,459,574)
Refunds		(2,673,964))	(3,455,442)	(3,790,198)	(3,117,493)	(2,781,885)	(2,425,983)	(3,970,912)	(4,041,082)	(3,49	91,089)	(4,659,711)
Pension plan administrative expense		(910,508))	(874,794)	(813,046)	(753,782)	(695,251)	(596,769)	(639,428)	(580,221)	(51	18,486)	(417,893)
Other		(65,136)	1	(62,677)	(51,149)	(27,492)	(26,531)	(27,143)	(24,638)	 (51,644)	(2	25,522)	(24,983)
Net change in plan fiduciary net position		77,302,573		90,115,024	(76,135,021)	117,341,236	64,124,337	101,834,837	(31,190,281)	70,958,187	34,04	16,246	(7,829,627)
Plan fiduciary net position - beginning		896,332,251		806,217,227	882,352,248	765,011,012	700,886,675	599,051,838	630,242,119	559,283,932	525,23	37,686	533,067,313
Plan fiduciary net position - ending (b)	\$	973,634,824	\$	896,332,251	\$ 806,217,227	\$ 882,352,248	\$ 765,011,012	\$ 700,886,675	\$ 599,051,838	\$ 630,242,119 \$	559,28	33,932	\$ 525,237,686
Net pension liability - ending (a) - (b)	\$	134,315,129	\$	135,084,011	\$ 340,654,636	\$ 284,538,585	\$ 68,122,205	\$ 86,198,721	\$ 242,072,258	\$ 86,044,428 \$	75,49	91,927	\$ 75,119,944
Plan fiduciary net position as a percentage													
of total pension liability		87.88 %	•	86.90 %	70.30 %	75.62 %	91.82 %	89.05 %	71.22 %	87.99 %	8	8.11 %	87.49 %
Covered-employee payroll	\$	179,253,064	\$	167,262,278	\$ 161,405,371	\$ 166,131,243	\$ 160,739,444	\$ 155,851,473	\$ 151,898,695	\$ 153,547,078 \$	154,77	79,198	\$ 150,399,739
Projected valuation payroll	\$	183,734,391	\$	171,443,834	\$ 165,440,506	\$ 170,284,524	\$ 164,757,930	\$ 159,747,760	\$ 155,696,162	\$ 160,072,828 \$	161,35	57,314	\$ 156,791,728
Net pension liability as a percentage													
of covered-employee payroll		74.93 %		80.76 %	211.06 %	171.27 %	42.38 %	55.31 %	159.36 %	56.04 %	4	8.77 %	49.95 %

Notes to Schedule:

For 2024 through 2015, "Other" changes to Plan Fiduciary Net Position includes other funding sources and depreciation expenses.



Schedules of Required Supplementary Information Schedule of Net Pension Liability Multiyear

FY Ending December 31,	Total Pension Liability		Plan Net Position	 Net Pension Liability	Plan Net Position as a % of Total Pension Liability	 Covered Payroll*	Net Pension as a % Covered P	of
2015	\$ 600,357	630 \$	525,237,686	\$ 75,119,944	87.49 %	\$ 150,399,739		49.95 %
2016	634,775	859	559,283,932	75,491,927	88.11 %	154,779,198	•	48.77 %
2017	716,286	547	630,242,119	86,044,428	87.99 %	153,547,078	!	56.04 %
2018	841,124	096	599,051,838	242,072,258	71.22 %	151,898,695	1	59.36 %
2019	787,085	396	700,886,675	86,198,721	89.05 %	155,851,473	!	55.31 %
2020	833,133	217	765,011,012	68,122,205	91.82 %	160,739,444	•	42.38 %
2021	1,166,890	833	882,352,248	284,538,585	75.62 %	166,131,243	1	71.27 %
2022	1,146,871	863	806,217,227	340,654,636	70.30 %	161,405,371	2:	11.06 %
2023	1,031,416	262	896,332,251	135,084,011	86.90 %	167,262,278	;	80.76 %
2024	1,107,949	953	973,634,824	134,315,129	87.88 %	179,253,064	•	74.93 %

^{*} Covered payroll is the amount in force as of the valuation date and likely differs from the actual payroll paid during the year.



Schedule of Contributions Multiyear Last 10 Fiscal Years

FY Ending December 31,	•		Actual Contribution*		Contribution Deficiency (Excess)			Covered Payroll**	Actual Contribution as a % of Covered Payroll
2015	\$	11,708,248	\$	12,706,883	\$	(998,635)	\$	150,399,739	8.45 %
2016		12,063,684		13,730,305		(1,666,621)		154,779,198	8.87 %
2017		11,623,441		13,614,406		(1,990,965)		153,547,078	8.87 %
2018		14,493,422		13,781,011		712,411		151,898,695	9.07 %
2019		16,754,321		14,270,844		2,483,477		155,851,473	9.16 %
2020		18,231,644		14,893,512		3,338,132		160,739,444	9.27 %
2021		18,309,732		14,567,813		3,741,919		166,131,243	8.77 %
2022		23,603,760		14,990,494		8,613,266		161,405,371	9.29 %
2023		25,384,165		16,113,114		9,271,051		167,262,278	9.63 %
2024		26,972,209		18,194,664		8,777,545		179,253,064	10.15 %

 $[\]hbox{* Includes other funding sources but excludes member redeposits and member service purchase contributions}.$



^{**} Covered payroll is the amount in force as of the valuation date and likely differs from the actual payroll paid during the year.

Notes to Schedule of Contributions

Valuation Date: January 1, 2024

Notes Actuarially determined contribution rates are calculated as of July 1 each

year for implementation the following fiscal year.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method Entry Age Normal

Amortization Method Level Percentage of Payroll, Closed

Remaining Amortization Period 20 years

Asset Valuation Method 5-Year smoothed market

Inflation 2.25%

Salary Increases 5.25% to 9.25% including inflation

Payroll Growth Rate 2.50%
Cost-of-Living Increase 0.00%
Investment Rate of Return 6.80%

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

condition. Last updated for the 2022 valuation pursuant to an experience

study of the period 2016 - 2020.

Post-Retirement Mortality Pub-2010 Safety Healthy Annuitant Mortality Table, amount-weighted, fully

generational, projected with the MP-2020 Ultimate Scale

Males: No set back with a multiplier of 100% Females: No set back with a multiplier of 100%

Pre-Retirement Mortality Pub-2010 Safety Employee Mortality Table, amount-weighted, fully

generational, projected with the MP-2020 Ultimate Scale

Males: No set back with a multiplier of 100% Females: No set back with a multiplier of 100%

Other Information:

Notes The payment of death benefits for active members have been updated since

the prior valuation.

The employer is currently contributing at the rate of 9.50% of salary. The employer contribution rate will increase 0.9% on both July 1, 2025 and July

1, 2026 when it reaches an ultimate rate of 11.30%.

Employees are currently contributing at the rate of 9.50% of salary. The employee contribution rate will increase 0.9% on both July 1, 2025 and July

1, 2026 when it reaches an ultimate rate of 11.30%.

The roll-forward methodology employed for purposes of the GASB disclosures is based on generally accepted actuarial methods.



Schedule of Investment Returns Multiyear Last 10 Fiscal Years

FY Ending	Annual
December 31,	Return ¹
2015	(0.26)%
2016	7.60 %
2017	14.20 %
2018	(3.52)%
2019	18.72 %
2020	11.03 %
2021	17.19 %
2022	(6.99)%
2023	13.84 %
2024	10.54 %

¹ Annual money-weighted rate of return, net of investment expenses.



SECTION D

NOTES TO FINANCIAL STATEMENTS

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Wyoming Law Enforcement Retirement Fund. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

Single Discount Rate

A Single Discount Rate of 6.80% was used to measure the total pension liability. This Single Discount Rate was based on an expected rate of return on pension plan investments of 6.80%. The projection of cash flows used to determine this Single Discount Rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the statutory required contribution rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of Results

Regarding the sensitivity of the net pension liability to changes in the Single Discount Rate, the following presents the plan's net pension liability, calculated using a Single Discount Rate of 6.80%, as well as what the plan's net pension liability would be if it were calculated using a Single Discount Rate that is one percent lower or one percent higher:

Sensitivity of Net Pension Liability to the Single Discount Rate Assumption

Current Single Discount									
1% Decrease	Rate Assumption	1% Increase							
5.80%	6.80%	7.80%							
\$ 281.753.367	\$ 134.315.129	\$ 13.770.393							



Summary of Population Statistics

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	1,694
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	1,882
Active Plan Members	2,495
Total Plan Members	6,071





SUMMARY OF BENEFITS

Summary of Benefits

Covered Members

County sheriffs, deputy county sheriffs, municipal police officers; Investigator of the Wyoming Livestock Board; meeting the specifications of W.S.7-2-101(a)(iv)(E), investigators employed by the Wyoming State Board of Outfitters and professional guides meeting the specifications of W.S. 7-2-101(a)(iv)(J); Correctional officers, probation and parole agents employed by the Wyoming Department of Corrections, Wyoming Law Enforcement Academy instructors, University of Wyoming campus police officers; And full-time dispatchers or detention officers for law enforcement agencies.

Final Average Salary

Employee's average annual salary for the highest paid five continuous years of service.

Service Retirement

Eligibility

Age 60 with four or more years of service as a law enforcement officer or any age with at least twenty years of service as a law enforcement officer. Early retirement benefits are payable to any law enforcement officer who has at least four but less than twenty years of service and are at least age 50. Early retirement benefits are actuarially reduced by 5% per year before age 60.

Monthly Benefit

2.50% of employee's highest five-year average salary for each year of credited service, not to exceed 75.0% of final average salary.

Vesting

Any employee who has left employment with four or more years of service, and who has not withdrawn accumulated contributions, is eligible to receive the above benefit or can elect to receive a lump-sum refund of contributions with interest. An employee who terminates with less than four years of service is only eligible for the lump-sum benefit.

Duty Disability Retirement

Eligibility

No age or service eligibility requirements. Partial or total disability resulting from an individual and specific act, the type of which would normally occur only while employed as an employee, or as otherwise defined under W.S. 9-3-432(h).

Monthly Benefit

62.5% of Final Salary.



Non-duty Disability Retirement

Eligibility 10 years of credited service. Partial or total disability, but not eligible for

duty disability.

Monthly Benefit 50.0% of Final Salary.

Pre-retirement Duty Death Benefit

Eligibility No age or service requirements.

Monthly Benefit The greater of 90% or 2.5% for each year of credited service times the

greater of the member's final actual salary and final average compensation, payable to the surviving spouse plus 6% of the member's final actual salary for each unmarried child under 18. Payment shall not exceed 100% of the greater of the member's final actual salary and final

average compensation.

Pre-retirement Non-duty Death Benefit

Eligibility No age or service requirements.

Monthly Benefit 50% of the greater of the member's final actual salary and final average

compensation, payable to the surviving spouse plus 6% of the member's final actual salary for each unmarried child under 18. Payment shall not exceed 100% of the greater of the member's final actual salary and final

average compensation.

Contributions

Employee 9.50% of salary. The employer contribution rate will increase 0.9% on

both July 1, 2025 and July 1, 2026 when it reaches an ultimate rate of 11.30%. The employer may subsidize all or part of the employee

contributions.

Employer 9.50% of salary. The employee contribution rate will increase 0.9% on

both July 1, 2025 and July 1, 2026 when it reaches an ultimate rate of

11.30%.

Interest 3.00% annually effective January 1, 2016.

Cost-of-Living Improvements W.S. 9-3-454 prohibits benefit changes, including cost-of-living increases,

unless the funded ratio stays above 100% plus a margin for adverse

experience throughout the life of the benefit change.



Optional Forms of Payment

- Option 1 Monthly benefit for life with a lump-sum death benefit equal to the excess (if any) of the employee contributions with interest over the total benefits received.
- Option 2 Monthly benefit for life. Upon death, 100% of the benefit continues to be paid to the beneficiary.
- Option 2P Monthly benefit for life. Upon death, 100% of the benefit continues to be paid to the beneficiary. Benefit reverts to Option 1 amount but without the cash refund feature upon beneficiary death.
- Option 3 Monthly benefit for life. Upon death, 50% of the benefit continues to be paid to the beneficiary.
- Option 3P Monthly benefit for life. Upon death, 50% of the benefit continues to be paid to the beneficiary. Benefit reverts to Option 1 amount but without the cash refund feature upon beneficiary death.
- Option 4 Monthly benefit for life with a guarantee of 120 monthly payments.
- Option 5 The largest possible monthly benefit payable for life with no lump-sum death benefit.
- Other Grandfathered group of retirees has an optional form which, upon death, 66.67% of the benefit continues to be paid to the beneficiary.





Summary of Actuarial Assumptions and Methods

The following methods and assumptions were used in preparing the January 1, 2024 actuarial valuation for GASB reporting purposes and are based on assumptions adopted by the Board at the November 17, 2021 and the February 17, 2022 meetings.

1. Valuation Date

The valuation date for any given year is January 1st, the first day of each plan year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

2. Actuarial Cost Method

The actuarial valuation uses the Entry Age Normal (EAN) actuarial cost method, amortized as a level percentage of payroll. Under this method, the employer contribution rate is the sum of (i) the employer normal cost rate, and (ii) the rate that will amortize the unfunded actuarial accrued liability (UAAL).

- a. The valuation is prepared on the projected benefit basis, under which the present value, at the investment return rate assumed to be earned in the future (currently 6.80%), of each participant's expected benefit payable at retirement or death is determined, based on his/her age, service, sex and compensation. The calculations take into account the probability of a participant's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his/her terminating with a service, disability, or survivor's benefit. Future salary increases are also anticipated. The present value of the expected benefits payable for the active participants is added to the present value of the expected future payments to retired participants and beneficiaries to obtain the present value of all expected benefits payable from the Fund on account of the present group of participants and beneficiaries.
- b. The employer contributions required to support the benefits of the Fund are determined using a level funding approach, and consist of a normal cost contribution and an unfunded accrued liability contribution.
- c. The normal cost contribution is determined using the "entry age normal" actuarial cost method. Under this method, a calculation is made to determine the average uniform and constant percentage rate of employer contribution which, if applied to the compensation of each new participant during the entire period of his/her anticipated covered service, would be required to meet the cost of all benefits payable on his/her behalf based on the benefits provisions applicable for the individual member.
- d. The unfunded accrued liability contributions are determined by subtracting the actuarial value of assets from the actuarial accrued liability. Amortization bases are established each year and amortized based on the Board's policy. The Board's policy consists of amortizing the unfunded liability as of January 1, 2018, over a closed 30-year period with each subsequent amortization base created as a result of year to year experience changes over individual 20-year closed periods. The current year amortization base is determined by taking the current unfunded liability less the outstanding amounts of prior year bases.



3. Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income, with interest, dividends, and other income recognized immediately. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses. An adjustment is made if the actuarial value is not within 20% of the Market Value. For any year following a year in which the 20% of market value adjustment was applied, the actuarial value is determined as if the adjustment was not applied in the previous year.

4. <u>Economic Assumptions</u>

a. <u>Investment return</u>

6.80% per year, compounded annually, composed of an assumed 2.25% inflation rate and a 4.55% net real rate of return. This rate represents the assumed return, net of investment expenses. For the purpose of this valuation, the expected rate of return on pension plan investments is 6.80% the municipal bond rate is 4.08%; and the resulting Single Discount Rate is 6.80%.

b. Salary increase rate

Age	Rate
20	7.00%
25	6.50%
30	5.00%
35	4.25%
40	4.25%
45	4.00%
50	3.50%
55	3.25%
60	3.00%

c. Payroll growth rate

In the amortization of the unfunded actuarial accrued liability, payroll is assumed to increase 2.50% per year. This increase rate is solely due to the effect of inflation on salaries, with no allowance for future membership growth.

d. Cost-of-Living adjustment

No cost-of-living adjustment is assumed since the policy for providing the benefit requires Board approval to make the recommendation to the Joint Appropriations Committee and the funded level of the plan shows a cost-of-living requirement would not be permitted.



5. Demographic Assumptions

a. Rates Before Retirement

Healthy Pre-Retirement Mortality:

Pub-2010 Safety Active Mortality Table, amount weighted, fully generational, projected with the MP-2020 Ultimate Scale

Males: No set back with a multiplier of 100% Females: No set back with a multiplier of 100%

Healthy Post-Retirement Mortality:

Pub-2010 Safety Healthy Annuitant Mortality Table, amount weighted, fully generational, projected with the MP-2020 Ultimate Scale

Males: No set back with a multiplier of 100% Females: No set back with a multiplier of 100%

Disabled Mortality:

Pub-2010 Safety Disabled Retiree Mortality Table, amount weighted, fully generational, projected with the MP-2020 Ultimate Scale

Males: No set back with a multiplier of 100% Females: No set back with a multiplier of 100%

ir i					ъ.			
		irement		tirement	Disabled			
	Proj	ected to 20	24 using th	using the MP-2020 Ultimate So				
Age	Male	Female	Male	Female	Male	Female		
20	0.03%	0.01%	0.03%	0.01%	0.10%	0.04%		
25	0.03%	0.02%	0.03%	0.02%	0.09%	0.05%		
30	0.03%	0.02%	0.03%	0.02%	0.10%	0.07%		
35	0.04%	0.03%	0.04%	0.03%	0.11%	0.10%		
40	0.05%	0.04%	0.05%	0.04%	0.14%	0.14%		
45	0.07%	0.06%	0.10%	0.07%	0.20%	0.18%		
50	0.10%	0.08%	0.16%	0.12%	0.29%	0.25%		
55	0.14%	0.10%	0.25%	0.21%	0.40%	0.38%		
60	0.22%	0.14%	0.42%	0.37%	0.61%	0.58%		
65	0.34%	0.19%	0.73%	0.64%	0.99%	0.88%		
70	0.64%	0.38%	1.32%	1.12%	1.60%	1.35%		
75			2.40%	1.95%	2.75%	2.07%		
80			4.37%	3.39%	4.79%	3.39%		
85			8.08%	6.05%	8.15%	6.05%		
90			14.52%	10.81%	14.52%	10.81%		
95			22.55%	17.92%	22.55%	17.92%		
100			31.27%	27.00%	31.27%	27.00%		

30% of active deaths are assumed to be duty-related



b. **Disability**

	Disability					
Age	Non-Duty	Duty				
20	0.03%	0.02%				
25	0.03%	0.02%				
30	0.03%	0.02%				
35	0.04%	0.02%				
40	0.09%	0.05%				
45	0.19%	0.12%				
50	0.33%	0.20%				
55	0.57%	0.34%				
60	1.11%	0.67%				
65	1.53%	0.92%				
70	1.53%	0.92%				
75	1.53%	0.92%				

30% of active disabilities are assumed to be duty-related

c. Withdrawal

	Withdrawal				
Service	Male	Female			
1	12.00%	18.00%			
2-4	12.00%	16.00%			
5	12.00%	14.00%			
6	10.00%	14.00%			
7	10.00%	12.00%			
8	9.00%	11.00%			
9	7.00%	8.00%			
10-11	6.00%	8.00%			
12	5.00%	7.00%			
13	4.00%	6.00%			
14	4.00%	5.00%			
15	3.00%	4.00%			
16	3.00%	3.00%			
17-18	2.00%	2.00%			
19-20	1.00%	1.00%			
21+	0.00%	0.00%			

d. Retirement Rates

Age	Normal	Early
50	25.00%	2.00%
51-56	18.00%	2.00%
57-60	20.00%	2.00%
61-62	17.00%	
63-64	20.00%	
65-69	50.00%	
70+	100.00%	

10% is assumed for members with at least 20 years of service before age 50



6. Other Assumptions

- a. Percent married: 85.00% of employees are assumed to be married. (No beneficiaries other than the spouse assumed.)
- b. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
- c. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an annuity.
- d. Percent electing deferred termination benefit: It is assumed that 45% of active members who terminate with a vested deferred benefit will elect to have their contributions refunded.
- e. Assumed age for commencement of deferred benefits: Members electing to receive a deferred benefit are assumed to commence receipt at the first age at which unreduced benefits are available, which for this plan is age 60.
- f. No benefit data is available for members entitled to deferred benefits. The benefit is estimated using the final average compensation and service provided by WRS.
- g. There will be no recoveries once disabled.
- h. No children are assumed for purposes of valuing the ordinary death benefit.
- i. Administrative expenses: Assumed to be the average of the prior two years, with each year projected at 2.50% to the valuation date.
- j. Pay increase timing: Beginning of (fiscal) year. This is equivalent to assuming that reported pay represents amount paid to members during the year ended on the valuation date.
- k. Decrement timing: Decrements of all types are assumed to occur mid-year.
- I. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
- m. Incidence of Contributions: Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in the report, and the actual payroll payable at the time contributions are made.
- n. Benefit Service: All members are assumed to accrue one year of service each year.



Experience Analysis

An experience study was conducted on behalf of all WRS' plans covering the five year period ending December 31, 2020. That study provided a detailed analysis concerning the development of the long term inflation rate, real rate of return and discount rate. The study also analyzed each major actuarial assumption (e.g. mortality, salary increases, retirement, termination and disability) and proposed assumptions consistent with the findings. For further information on the experience study and related assumption recommendation, the reader is directed to request the December 31, 2020 Wyoming Retirement System Experience Study.





CALCULATION OF THE SINGLE DISCOUNT RATE

Calculation of the Single Discount Rate

GASB Statement No. 67 includes a specific requirement for the discount rate that is used for the purpose of the measurement of the Total Pension Liability. This rate considers the ability of the Fund to meet benefit obligations in the future. To make this determination, employer contributions, employee contributions, benefit payments, expenses and investment returns are projected into the future. The Plan Net Position (assets) in future years can then be determined and compared to its obligation to make benefit payments in those years. As long as assets are projected to be on hand in a future year, the assumed valuation discount rate 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 (which is published by the Federal Reserve) 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 6.80%; the municipal bond rate is 4.08%; and the resulting Single Discount Rate is 6.80%.

The tables in this section provide background for the development of the Single Discount Rate.

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 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 Single Discount Rate (SDR). It breaks down the benefit payments into present values for funded and unfunded portions and shows the equivalent total at the SDR.

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



Single Discount Rate Development Projection of Contributions Ending December 31 for 2024 to 2073

Year	Payroll for Current Employees	Payroll for Future Employees	То	otal Employee Payroll	Contributions from Current Employees		Eı	mployer Contributions Related to Payroll of Future Employees	Total	Contributions
	(a)	(b)=max(0,(c)-(a))		(c)	(d)	(e)=(a)*ER%		(f) = (b)*netER%	(g)	=(d)+(e)+(f)
2024	\$ 179,253,064	\$ 4,481,327	\$	183,734,391	\$ 18,511,785	\$ 18,194,664	\$	0	\$	36,706,449
2025	167,020,325	21,307,426		188,327,751	16,618,522	15,115,339		714,539		32,448,400
2026	157,398,841	35,637,104		193,035,945	17,077,774	15,661,185		1,837,433		34,576,392
2027	148,514,545	49,347,299		197,861,844	16,782,144	16,113,828		2,989,741		35,885,713
2028	140,155,490	62,652,900		202,808,390	15,837,570	15,837,570		3,795,844		35,470,984
2029	132,150,288	75,728,312		207,878,600	14,932,983	14,932,983		4,585,691		34,451,657
2030	124,571,121	88,504,444		213,075,565	14,076,537	14,076,537		5,355,441		33,508,515
2031	117,414,590	100,987,864		218,402,454	13,267,849	13,267,849		6,105,836		32,641,534
2032	110,472,790	113,389,725		223,862,515	12,483,425	12,483,425		6,851,511		31,818,361
2033	103,740,027	125,719,051		229,459,078	11,722,623	11,722,623		7,595,013		31,040,259
2034	97,155,929	138,039,626		235,195,555	10,978,620	10,978,620		8,340,671		30,297,911
2035	90,546,937	150,528,507		241,075,444	10,231,804	10,231,804		9,099,868		29,563,476
2036	83,921,392	163,180,938		247,102,330	9,483,117	9,483,117		9,873,194		28,839,428
2037	77,387,825	175,892,063		253,279,888	8,744,824	8,744,824		10,655,756		28,145,404
2038	70,773,474	188,838,411		259,611,885	7,997,403	7,997,403		11,459,332		27,454,138
2039	64,035,142	202,067,040		266,102,182	7,235,971	7,235,971		12,286,703		26,758,645
2040	57,413,221	215,341,516		272,754,737	6,487,694	6,487,694		13,123,953		26,099,341
2041	50,918,598	228,655,007		279,573,605	5,753,802	5,753,802		13,970,907		25,478,511
2042	44,443,252	242,119,693		286,562,945	5,022,087	5,022,087		14,834,419		24,878,593
2043	37,917,765	255,809,254		293,727,019	4,284,707	4,284,707		15,718,833		24,288,247
2044	31,740,292	269,329,902		301,070,194	3,586,653	3,586,653		16,594,666		23,767,972
2045	26,395,012	282,201,937		308,596,949	2,982,636	2,982,636		17,427,399		23,392,671
2046	21,812,091	294,499,782		316,311,873	2,464,766	2,464,766		18,221,875		23,151,407
2047	17,923,458	306,296,212		324,219,670	2,025,351	2,025,351		18,982,486		23,033,188
2048	14,669,908	317,655,254		332,325,162	1,657,700	1,657,700		19,713,134		23,033,100
2049	11,946,926	328,686,365		340,633,291	1,350,003	1,350,003		20,420,553		23,120,559
2050	9,664,940	339,484,183		349,149,123	1,092,138	1,092,138		21,110,657		23,294,933
2051	7,780,068	350,097,783		357,877,851	879,148	879,148		21,786,634		23,544,930
2052	6,232,819	360,591,978		366,824,797	704,309	704,309		22,452,676		23,861,294
2053	4,965,631	371,029,786		375,995,417	561,116	561,116		23,112,996		24,235,228
2054	3,924,644	381,470,658		385,395,302	443,485	443,485		23,771,671		24,658,641
2055	3,924,644	391,959,247		395,030,185	347,016	347,016		24,431,664		25,125,696
2056	2,390,800	402,515,140		404,905,940	270,160	270,160		25,094,380		25,634,700
2057	1,852,339	413,176,250			209,314			25,762,400		26,181,028
2058	1,426,372			415,028,589		209,314		26,438,124		
2059		423,977,932		425,404,304	161,180	161,180				26,760,484
2060	1,088,542 821,745	434,950,870 446,118,652		436,039,412 446,940,397	123,005	123,005		27,123,589		27,369,599
					92,857	92,857		27,820,504		28,006,218
2061	609,000	457,504,907		458,113,907	68,817	68,817		28,530,603 29,255,067		28,668,237
2062	440,592	469,126,163		469,566,755	49,787	49,787				29,354,641
2063	311,075	480,994,849		481,305,924	35,152	35,152		29,994,834		30,065,138
2064	213,027	493,125,545		493,338,572	24,072	24,072		30,750,875		30,799,019
2065	140,533	505,531,503		505,672,036		15,880		31,524,077		31,555,837
2066	89,437	518,224,400		518,313,837		10,106		32,315,241		32,335,453
2067	55,298	531,216,385		531,271,683		6,249		33,125,139		33,137,637
2068	32,890	544,520,585		544,553,475	3,717	3,717		33,954,631		33,962,065
2069	18,583	558,148,729		558,167,312		2,100		34,804,456		34,808,656
2070	9,374	572,112,121		572,121,495	1,059	1,059		35,675,314		35,677,432
2071	4,198	586,420,334		586,424,532		474		36,567,786		36,568,734
2072	1,827	601,083,318		601,085,145	206	206		37,482,465		37,482,877
2073	747	616,111,527		616,112,274	84	84		38,419,974		38,420,142



Single Discount Rate Development Projection of Contributions Ending December 31 for 2074 to 2123 (concluded)

Year	Payroll for Current Employees	Payroll for Future Employees	Total Employee Payroll	Contributions from Current Employees	Employer Contributions for Current Employees	Employer Contributions Related to Payroll of Future Employees	Total Contributions
	(a)	(b)=max(0,(c)-(a))	(c)	(d)	(e)=(a)*ER%	(f) = (b)*netER%	(g)=(d)+(e)+(f)
2074	\$ 274	\$ 631,514,807	\$ 631,515,081	\$ 31	\$ 31	\$ 39,380,907	\$ 39,380,969
2075	61	647,302,897	647,302,958	7	7	40,365,850	40,365,864
2076	0	663,485,532	663,485,532	0	0	41,375,391	41,375,391
2077	0	680,072,670	680,072,670	0	0	42,410,137	42,410,137
2078	0	697,074,487	697,074,487	0	0	43,470,707	43,470,707
2079	0	714,501,349	714,501,349	0	0	44,557,730	44,557,730
2080	0	732,363,883	732,363,883	0	0	45,671,861	45,671,861
2081	0	750,672,980	750,672,980	0	0	46,813,774	46,813,774
2082	0	769,439,805	769,439,805	0	0	47,984,166	47,984,166
2083	0	788,675,800	788,675,800	0	0	49,183,759	49,183,759
2084	0	808,392,695	808,392,695	0	0	50,413,292	50,413,292
2085	0	828,602,512	828,602,512	0	0	51,673,524	51,673,524
2086	0	849,317,575	849,317,575	0	0	52,965,231	52,965,231
2087	0	870,550,514	870,550,514	0	0	54,289,213	54,289,213
2088	0	892,314,277	892,314,277	0	0	55,646,286	55,646,286
2089	0			0	0		57,037,288
	0	914,622,134	914,622,134	0	0	57,037,288	
2090		937,487,687	937,487,687			58,463,075	58,463,075
2091	0	960,924,879	960,924,879	0	0	59,924,523	59,924,523
2092	0	984,948,001	984,948,001	0	0	61,422,529	61,422,529
2093	0	1,009,571,701	1,009,571,701	0	0	62,958,009	62,958,009
2094	0	1,034,810,994	1,034,810,994	0	0	64,531,901	64,531,901
2095	0	1,060,681,269	1,060,681,269	0	0	66,145,167	66,145,167
2096	0	1,087,198,301	1,087,198,301	0	0	67,798,787	67,798,787
2097	0	1,114,378,259	1,114,378,259	0	0	69,493,770	69,493,770
2098	0	1,142,237,715	1,142,237,715	0	0	71,231,144	71,231,144
2099	0	1,170,793,658	1,170,793,658	0	0	73,011,968	73,011,968
2100	0	1,200,063,499	1,200,063,499	0	0	74,837,321	74,837,321
2101	0	1,230,065,086	1,230,065,086	0	0	76,708,313	76,708,313
2102	0	1,260,816,713	1,260,816,713	0	0	78,626,082	78,626,082
2103	0	1,292,337,131	1,292,337,131	0	0	80,591,792	80,591,792
2104	0	1,324,645,559	1,324,645,559	0	0	82,606,640	82,606,640
2105	0	1,357,761,698	1,357,761,698	0	0	84,671,852	84,671,852
2106	0	1,391,705,740	1,391,705,740	0	0	86,788,685	86,788,685
2107	0	1,426,498,384	1,426,498,384	0	0	88,958,429	88,958,429
2108	0	1,462,160,844	1,462,160,844	0	0	91,182,407	91,182,407
2109	0	1,498,714,865	1,498,714,865	0	0	93,461,975	93,461,975
2110	0	1,536,182,737	1,536,182,737	0	0	95,798,523	95,798,523
2111	0	1,574,587,305	1,574,587,305	0	0	98,193,478	98,193,478
2112	0	1,613,951,988	1,613,951,988	0	0	100,648,300	100,648,300
2113	0	1,654,300,788	1,654,300,788	0	0	103,164,488	103,164,488
2114	0	1,695,658,308	1,695,658,308	0	0	105,743,579	105,743,579
2115	0	1,738,049,766	1,738,049,766	0	0	108,387,145	108,387,145
2116	0	1,781,501,010	1,781,501,010	0	0	111,096,801	111,096,801
2117	0	1,826,038,535	1,826,038,535	0	0	113,874,200	113,874,200
2118	0	1,871,689,498	1,871,689,498	0	0	116,721,036	116,721,036
2119	0	1,918,481,735	1,918,481,735	0	0	119,639,045	119,639,045
2120	0	1,966,443,778	1,966,443,778	0	0	122,630,009	122,630,009
2121	0	2,015,604,872	2,015,604,872	0	0	125,695,751	125,695,751
2122	0	2,065,994,994	2,065,994,994	0	0	128,838,140	128,838,140
2123	0	2,117,644,869	2,117,644,869	0	0	132,059,092	132,059,092
		, ,- ,	, ,- ,			- ,,	,,



Single Discount Rate Development Projection of Plan Net Position Ending December 31 for 2024 to 2073

Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings at 6.800%	Projected Ending Plan Net Position
	(a)	(b)	(c)	(d)	(e)	(f)=(a)+(b)-(c)-(d)+(e)
2024	\$ 896,332,251	\$ 36,706,449	\$ 51,459,308	\$ 975,644	\$ 93,031,076	\$ 973,634,824
2025	973,634,824	32,448,400	54,911,923	960,472	65,423,850	1,015,634,679
2026	1,015,634,679	34,576,392	57,913,049	984,483	68,249,838	1,059,563,377
2027	1,059,563,377	35,885,713	61,086,118	1,009,095	71,173,842	1,104,527,719
2028	1,104,527,719	35,470,984	64,538,827	1,034,323	74,101,243	1,148,526,796
2029	1,148,526,796	34,451,657	68,092,765	1,060,181	76,939,381	1,190,764,888
2030	1,190,764,888	33,508,515	71,753,432	1,086,685	79,656,730	1,231,090,017
2031	1,231,090,017	32,641,534	75,487,984	1,113,853	82,244,051	1,269,373,765
2032	1,269,373,765	31,818,361	79,263,244	1,141,699	84,692,639	1,305,479,822
2033	1,305,479,822	31,040,259	83,062,776	1,170,241	86,993,817	1,339,280,880
2034	1,339,280,880	30,297,911	86,792,290	1,199,497	89,141,767	1,370,728,772
2035	1,370,728,772	29,563,476	90,556,339	1,229,485	91,128,788	1,399,635,212
2036	1,399,635,212	28,839,428	94,375,521	1,260,222	92,941,469	1,425,780,365
2037	1,425,780,365	28,145,404	98,244,041	1,291,727	94,565,710	1,448,955,711
2038	1,448,955,711	27,454,138	102,024,666	1,324,021	95,991,010	1,469,052,172
2039	1,469,052,172	26,758,645	105,657,937	1,357,121	97,211,705	1,486,007,464
2040	1,486,007,464	26,099,341	109,125,434	1,391,049	98,225,526	1,499,815,847
2041	1,499,815,847	25,478,511	112,467,734	1,425,825	99,030,803	1,510,431,603
2042	1,510,431,603	24,878,593	115,710,195	1,461,471	99,622,990	1,517,761,520
2043	1,517,761,520	24,288,247	118,749,228	1,498,008	99,998,833	1,521,801,363
2044	1,521,801,363	23,767,972	121,481,383	1,535,458	100,163,526	1,522,716,020
2045	1,522,716,020	23,392,671	123,720,966	1,573,844	100,136,995	1,520,950,875
2046	1,520,950,875	23,151,407	125,372,141	1,613,191	99,952,364	1,517,069,314
2047	1,517,069,314	23,033,188	126,466,325	1,653,520	99,646,526	1,511,629,183
2048	1,511,629,183	23,028,534	127,059,621	1,694,858	99,255,219	1,505,158,457
2049	1,505,158,457	23,120,559	127,267,927	1,737,230	98,809,904	1,498,083,763
2050	1,498,083,763	23,294,933	127,001,182	1,780,661	98,342,123	1,490,938,976
2051	1,490,938,976	23,544,930	126,240,401	1,825,177	97,888,591	1,484,306,919
2052	1,484,306,919	23,861,294	125,131,963	1,870,806	97,483,731	1,478,649,175
2053	1,478,649,175	24,235,228	123,714,400	1,917,577	97,157,350	1,474,409,777
2054	1,474,409,777	24,658,641	121,968,589	1,965,516	96,940,008	1,472,074,321
2055	1,472,074,321	25,125,696	119,948,501	2,014,654	96,862,726	1,472,099,588
2056	1,472,099,588	25,634,700	117,762,596	2,065,020	96,952,880	1,474,859,553
2057	1,474,859,553	26,181,028	115,357,175	2,116,646	97,237,541	1,480,804,300
2058	1,480,804,300	26,760,484	112,749,305	2,169,562	97,746,601	1,490,392,518
2059	1,490,392,518	27,369,599	109,968,884	2,223,801	98,510,135	1,504,079,566
2060	1,504,079,566	28,006,218	107,020,823	2,279,396	99,558,870	1,522,344,435
2061	1,522,344,435	28,668,237	103,908,855	2,336,381	100,925,180	1,545,692,616
2062	1,545,692,616	29,354,641	100,647,028	2,394,790	102,642,936	1,574,648,376
2063	1,574,648,376	30,065,138	97,269,433	2,454,660	104,746,635	1,609,736,055
2064	1,609,736,055	30,799,019	93,792,417	2,516,027	107,271,361	1,651,497,991
2065	1,651,497,991	31,555,837	90,242,092	2,578,927	110,253,103	1,700,485,912
2066	1,700,485,912		86,617,854			1,757,289,505
2067	1,757,289,505	32,335,453 33,137,637	82,936,347	2,643,401 2,709,486	113,729,395 117,739,767	1,822,521,076
2067	1,822,521,076	33,962,065	79,219,574		122,325,111	1,896,811,455
				2,777,223	127,528,029	
2069	1,896,811,455	34,808,656	75,476,136	2,846,653		1,980,825,351
2070	1,980,825,351	35,677,432	71,714,881	2,917,820	133,393,426	2,075,263,508
2071	2,075,263,508	36,568,734	67,944,082	2,990,765	139,968,686 147,303,831	2,180,866,082 2,298,414,014
2072	2,180,866,082	37,482,877	64,173,241	3,065,534		
2073	2,298,414,014	38,420,142	60,413,650	3,142,173	155,451,594	2,428,729,927



Single Discount Rate Development Projection of Plan Net Position Ending December 31 for 2074 to 2123 (concluded)

Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings at 6.800%	Projected Ending Plan Net Position
	(a)	(b)	(c)	(d)	(e)	(f)=(a)+(b)-(c)-(d)+(e)
2074	\$ 2,428,729,927	\$ 39,380,969	\$ 56,677,071	\$ 3,220,727	\$ 164,467,535	\$ 2,572,680,633
2075	2,572,680,633	40,365,864	52,976,074	3,301,245	174,410,190	2,731,179,368
2076	2,731,179,368	41,375,391	49,324,447	3,383,776	185,341,217	2,905,187,753
2077	2,905,187,753	42,410,137	45,736,681	3,468,371	197,325,539	3,095,718,377
2078	3,095,718,377	43,470,707	42,227,743	3,555,080	210,431,531	3,303,837,792
2079	3,303,837,792	44,557,730	38,812,499	3,643,957	224,731,238	3,530,670,304
2080	3,530,670,304	45,671,861	35,505,340	3,735,056	240,300,654	3,777,402,423
2081	3,777,402,423	46,813,774	32,320,345	3,828,432	257,220,011	4,045,287,432
2082	4,045,287,432	47,984,166	29,270,379	3,924,143	275,574,124	4,335,651,200
2083	4,335,651,200	49,183,759	26,366,529	4,022,247	295,452,802	4,649,898,984
2084	4,649,898,984	50,413,292	23,617,910	4,122,803	316,951,321	4,989,522,885
2085	4,989,522,885	51,673,524	21,031,415	4,225,873	340,170,938	5,356,110,058
2086	5,356,110,058	52,965,231	18,611,708	4,331,520	365,219,445	5,751,351,507
2087	5,751,351,507	54,289,213	16,361,359	4,439,808	392,211,771	6,177,051,324
2088	6,177,051,324	55,646,286	14,281,387	4,550,803	421,270,585	6,635,136,006
2089	6,635,136,006	57,037,288	12,371,456	4,664,573	452,526,925	7,127,664,190
2090	7,127,664,190	58,463,075	10,629,990	4,781,187	486,120,857	7,656,836,944
2091	7,656,836,944	59,924,523	9,054,280	4,900,717	522,202,172	8,225,008,643
2092	8,225,008,643	61,422,529	7,640,480	5,023,235	560,931,124	8,834,698,581
2093	8,834,698,581	62,958,009	6,383,625	5,148,816	602,479,218	9,488,603,367
2094	9,488,603,367	64,531,901	5,277,364	5,277,536	647,030,066	10,189,610,435
2095	10,189,610,435	66,145,167	4,313,906	5,409,474	694,780,302	10,940,812,524
2095	10,940,812,524	67,798,787	3,484,322	5,544,711	745,940,562	11,745,522,840
2090	11,745,522,840	69,493,770	2,778,694	5,683,329	800,736,507	12,607,291,094
2097	12,607,291,094	71,231,144	2,186,190	5,825,412	859,409,910	13,529,920,546
2098	13,529,920,546	73,011,968	1,695,469	5,971,048	922,219,805	14,517,485,802
2100	14,517,485,802	74,837,321	1,294,989	6,120,324	989,443,684	15,574,351,494
2100			973,261			
2101	15,574,351,494	76,708,313 78,626,082	719,111	6,273,332	1,061,378,761	16,705,191,975
2102	16,705,191,975			6,430,165	1,138,343,300	17,915,012,081
	17,915,012,081	80,591,792	521,845	6,590,919	1,220,678,023	19,209,169,131
2104	19,209,169,131	82,606,640	371,532	6,755,692	1,308,747,597	20,593,396,145
2105	20,593,396,145	84,671,852	259,229	6,924,585	1,402,942,204	22,073,826,387
2106	22,073,826,387	86,788,685	177,068	7,097,699	1,503,679,208	23,657,019,512
2107	23,657,019,512	88,958,429	118,283	7,275,142	1,611,404,930	25,349,989,446
2108	25,349,989,446	91,182,407	77,203	7,457,020	1,726,596,549	27,160,234,180
2109	27,160,234,180	93,461,975	49,192	7,643,446	1,849,764,124	29,095,767,641
2110	29,095,767,641	95,798,523	30,577	7,834,532	1,981,452,768	31,165,153,823
2111	31,165,153,823	98,193,478	18,531	8,030,395	2,122,244,971	33,377,543,346
2112	33,377,543,346	100,648,300	10,946	8,231,155	2,272,763,090	35,742,712,635
2113	35,742,712,635	103,164,488	6,300	8,436,934	2,433,672,019	38,271,105,908
2114	38,271,105,908	105,743,579	3,535	8,647,857	2,605,682,047	40,973,880,143
2115	40,973,880,143	108,387,145	1,936	8,864,054	2,789,551,922	43,862,953,220
2116	43,862,953,220	111,096,801	1,036	9,085,655	2,986,092,124	46,951,055,454
2117	46,951,055,454	113,874,200	543	9,312,797	3,196,168,375	50,251,784,689
2118	50,251,784,689	116,721,036	278	9,545,616	3,420,705,387	53,779,665,218
2119	53,779,665,218	119,639,045	139	9,784,257	3,660,690,868	57,550,210,735
2120	57,550,210,735	122,630,009	68	10,028,863	3,917,179,806	61,579,991,619
2121	61,579,991,619	125,695,751	31	10,279,585	4,191,299,044	65,886,706,798
2122	65,886,706,798	128,838,140	14	10,536,574	4,484,252,167	70,489,260,517
2123	70,489,260,517	132,059,092	9	10,799,989	4,797,324,723	75,407,844,335



Single Discount Rate Development Present Values of Projected Benefits Ending December 31 for 2024 to 2073

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Projected Benefit Payments	Unfunded Portion of Projected Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of All Benefit Payments using Single Discount Rate (SDR)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=((c)/(1+SDR)^(a5)
2024	\$ 896,332,251	\$ 51,459,308	\$ 51,459,308	\$ 0	\$ 49,794,149	\$ 0	\$ 49,794,149
2025	973,634,824	54,911,923	54,911,923	0	49,751,912	0	49,751,912
2026	1,015,634,679	57,913,049	57,913,049	0	49,130,174	0	49,130,174
2027	1,059,563,377	61,086,118	61,086,118	0	48,522,497	0	48,522,497
2028	1,104,527,719	64,538,827	64,538,827	0	48,001,016	0	48,001,016
2029	1,148,526,796	68,092,765	68,092,765	0	47,419,730	0	47,419,730
2030	1,190,764,888	71,753,432	71,753,432	0	46,787,467	0	46,787,467
2031	1,231,090,017	75,487,984	75,487,984	0	46,088,591	0	46,088,591
2032	1,269,373,765	79,263,244	79,263,244	0	45,312,309	0	45,312,309
2033	1,305,479,822	83,062,776	83,062,776	0	44,461,032	0	44,461,032
2034	1,339,280,880	86,792,290	86,792,290	0	43,499,373	0	43,499,373
2035	1,370,728,772	90,556,339	90,556,339	0	42,496,137	0	42,496,137
2036	1,399,635,212	94,375,521	94,375,521	0	41,468,536	0	41,468,536
2037	1,425,780,365	98,244,041	98,244,041	0	40,419,814	0	40,419,814
2038	1,448,955,711	102,024,666	102,024,666	0	39,302,667	0	39,302,667
2039	1,469,052,172	105,657,937	105,657,937	0	38,110,769	0	38,110,769
2040	1,486,007,464	109,125,434	109,125,434	0	36,855,331	0	36,855,331
2041	1,499,815,847	112,467,734	112,467,734	0	35,565,672	0	35,565,672
2042	1,510,431,603	115,710,195	115,710,195	0	34,261,269	0	34,261,269
2043	1,517,761,520	118,749,228	118,749,228	0	32,922,391	0	32,922,391
2044	1,521,801,363	121,481,383	121,481,383	0	31,535,451	0	31,535,451
2045	1,522,716,020	123,720,966	123,720,966	0	30,071,935	0	30,071,935
2046	1,520,950,875	125,372,141	125,372,141	0	28,533,028	0	28,533,028
2047	1,517,069,314	126,466,325	126,466,325	0	26,949,484	0	26,949,484
2048	1,511,629,183	127,059,621	127,059,621	0	25,351,979	0	25,351,979
2049	1,505,158,457	127,267,927	127,267,927	0	23,776,724	0	23,776,724
2050	1,498,083,763	127,001,182	127,001,182	0	22,216,189	0	22,216,189
2051	1,490,938,976	126,240,401	126,240,401	0	20,677,066	0	20,677,066
2052	1,484,306,919	125,131,963	125,131,963	0	19,190,556	0	19,190,556
2053	1,478,649,175	123,714,400	123,714,400	0	17,765,126	0	17,765,126
2054	1,474,409,777	121,968,589	121,968,589	0	16,399,280	0	16,399,280
2055	1,472,074,321	119,948,501	119,948,501	0	15,100,814	0	15,100,814
2056	1,472,099,588	117,762,596	117,762,596	0	13,881,668	0	13,881,668
2057	1,474,859,553	115,357,175	115,357,175	0	12,732,323	0	12,732,323
2058	1,480,804,300	112,749,305	112,749,305	0	11,652,139	0	11,652,139
2059	1,490,392,518	109,968,884	109,968,884	0	10,641,194	0	10,641,194
2060	1,504,079,566	107,020,823	107,020,823	0	9,696,557	0	9,696,557
2061	1,522,344,435	103,908,855	103,908,855	0	8,815,168	0	8,815,168
2062	1,545,692,616	100,647,028	100,647,028	0	7,994,802	0	7,994,802
2063	1,574,648,376	97,269,433	97,269,433	0	7,234,556	0	7,234,556
2064	1,609,736,055	93,792,417	93,792,417	0	6,531,787	0	6,531,787
2065	1,651,497,991	90,242,092	90,242,092	0	5,884,400	0	5,884,400
2066	1,700,485,912	86,617,854	86,617,854	0	5,288,459	0	5,288,459
2067	1,757,289,505	82,936,347	82,936,347	0	4,741,278	0	4,741,278
2068	1,822,521,076	79,219,574	79,219,574	0	4,240,448	0	4,240,448
2069	1,896,811,455	75,476,136	75,476,136	0	3,782,837	0	3,782,837
2070	1,980,825,351	71,714,881	71,714,881	0	3,365,472	0	3,365,472
2071	2,075,263,508	67,944,082	67,944,082	0	2,985,500	0	2,985,500
2071	2,073,263,308	64,173,241	64,173,241	0	2,640,269	0	2,640,269
2072	2,180,866,082	60,413,650	60,413,650	0	2,327,331	0	2,327,331
20/3	2,230,414,014	00,413,030	00,415,650	U	2,327,331	U	2,327,331



Single Discount Rate Development Present Values of Projected Benefits Ending December 31 for 2074 to 2123 (concluded)

Present Value of

Present Value of

Present Value of

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Projected Benefit Payments	Unfunded Portion of Projected Benefit Payments	Funded Benefit Payments using Expected Return Rate (v)	Unfunded Benefit Payments using Municipal Bond Rate (vf)	All Benefit Payments using Single Discount Rate (SDR)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=((c)/(1+SDR)^(a5)
2074	\$ 2,428,729,927	\$ 56,677,071	\$ 56,677,071	\$ 0	\$ 2,044,368	\$ 0	\$ 2,044,368
2075	2,572,680,633	52,976,074	52,976,074	0	1,789,206	0	1,789,206
2076	2,731,179,368	49,324,447	49,324,447	0	1,559,809	0	1,559,809
2077	2,905,187,753	45,736,681	45,736,681	0	1,354,262	0	1,354,262
2078	3,095,718,377	42,227,743	42,227,743	0	1,170,751	0	1,170,751
2079	3,303,837,792	38,812,499	38,812,499	0	1,007,551	0	1,007,551
2080	3,530,670,304	35,505,340	35,505,340	0	863,014	0	863,014
2081	3,777,402,423	32,320,345	32,320,345	0	735,578	0	735,578
2082	4,045,287,432	29,270,379	29,270,379	0	623,749	0	623,749
2083	4,335,651,200	26,366,529	26,366,529	0	526,094	0	526,094
2084	4,649,898,984	23,617,910	23,617,910	0	441,246	0	441,246
2085	4,989,522,885	21,031,415	21,031,415	0	367,906	0	367,906
2086	5,356,110,058	18,611,708	18,611,708	0	304,848	0	304,848
2087	5,751,351,507	16,361,359	16,361,359	0	250,926	0	250,926
2088	6,177,051,324	14,281,387	14,281,387	0	205,081	0	205,081
2089	6,635,136,006	12,371,456	12,371,456	0	166,343	0	166,343
2090	7,127,664,190	10,629,990	10,629,990	0	133,827	0	133,827
2091	7,656,836,944	9,054,280	9,054,280	0	106,732	0	106,732
2092	8,225,008,643	7,640,480	7,640,480	0	84,332	0	84,332
2093	8,834,698,581	6,383,625	6,383,625	0	65,973	0	65,973
2094	9,488,603,367	5,277,364	5,277,364	0	51,067	0	51,067
2095	10,189,610,435	4,313,906	4,313,906	0	39,086	0	39,086
2096	10,940,812,524	3,484,322	3,484,322	0	29,560	0	29,560
2097	11,745,522,840	2,778,694	2,778,694	0	22,073	0	22,073
2098	12,607,291,094	2,186,190	2,186,190	0	16,260	0	16,260
2099	13,529,920,546	1,695,469	1,695,469	0	11,808	0	11,808
2100	14,517,485,802	1,294,989	1,294,989	0	8,444	0	8,444
2101	15,574,351,494	973,261	973,261	0	5,942	0	5,942
2102	16,705,191,975	719,111	719,111	0	4,111	0	4,111
2103	17,915,012,081	521,845	521,845	0	2,793	0	2,793
2104	19,209,169,131	371,532	371,532	0	1,862	0	1,862
2105	20,593,396,145	259,229	259,229	0	1,217	0	1,217
2106	22,073,826,387	177,068	177,068	0	778	0	778
2107	23,657,019,512	118,283	118,283	0	487	0	487
2108	25,349,989,446	77,203	77,203	0	297	0	297
2109	27,160,234,180	49,192	49,192	0	177	0	177
2110	29,095,767,641	30,577	30,577	0	103	0	103
2111	31,165,153,823	18,531	18,531	0	59	0	59
2112	33,377,543,346	10,946	10,946	0	32	0	32
2113	35,742,712,635	6,300	6,300	0	17	0	17
2114	38,271,105,908	3,535	3,535	0	9	0	9
2115	40,973,880,143	1,936	1,936	0	5	0	5
2116	43,862,953,220	1,036	1,036	0	2	0	2
2117	46,951,055,454	543	543	0	1	0	1
	50,251,784,689			0	1	0	
2118 2119		278	278 139	0	0	0	1
	53,779,665,218	139		0	0	0	0
2120	57,550,210,735	68	68 31	0	0	0	0
2121 2122	61,579,991,619 65,886,706,798	31 14	14	0	0	0	0
		9	9	0	0	0	
2123	70,489,260,517	9	9	Totals			\$ 1,276,172,446
				iotais	\$ 1,276,172,446	ş 0	\$ 1,276,172,446





GLOSSARY OF TERMS

Accrued Service

Service credited under the system that was rendered before the date of the actuarial valuation.

Actuarial Accrued Liability (AAL)

The AAL is the difference between the actuarial present value of all benefits and the actuarial value of future normal costs. The definition comes from the fundamental equation of funding which states that the present value of all benefits is the sum of the Actuarial Accrued Liability and the present value of future normal costs. The AAL may also be referred to as "accrued liability" or "actuarial liability."

Actuarial Assumptions

These assumptions are estimates of future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and compensation increases. Actuarial assumptions are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (compensation increases, payroll growth, inflation and investment return) consist of an underlying real rate of return plus an assumption for a long-term average rate of inflation.

Actuarial Cost Method

A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of the pension trust benefits between future normal cost and actuarial accrued liability. The actuarial cost method may also be referred to as the actuarial funding method.

Actuarial Equivalent

A single amount or series of amounts of equal actuarial value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.

Actuarial Gain (Loss)

The difference in liabilities between actual experience and expected experience during the period between two actuarial valuations is the gain (loss) on the accrued liabilities.

Actuarial Present Value (APV)

The amount of funds currently required to provide a payment or series of payments in the future. The present value is determined by discounting future payments at predetermined rates of interest and probabilities of payment.

Actuarial Valuation

The actuarial valuation report determines, as of the actuarial valuation date, the service cost, total pension liability, and related actuarial present value of projected benefit payments for pensions.

Actuarial Valuation Date

The date as of which an actuarial valuation is performed.

Actuarially Determined
Contribution (ADC) or Annual
Required Contribution (ARC)

A calculated contribution into a defined benefit pension plan for the reporting period, most often determined based on the funding policy of the plan. Typically, the Actuarially Determined Contribution has a normal cost payment and an amortization payment.



Amortization Method

The method used to determine the periodic amortization payment may be a level dollar amount, or a level percent of pay amount. The period will typically be expressed in years, and the method will either be "open" (meaning, reset each year) or "closed" (the number of years remaining will decline each year).

Amortization Payment

The amortization payment is the periodic payment required to pay off an interest-discounted amount with payments of interest and principal.

Cost-of-Living Adjustments

Postemployment benefit changes intended to adjust benefit payments for the effects of inflation.

Cost-Sharing Multiple-Employer Defined Benefit Pension Plan (cost-sharing pension plan) A multiple-employer defined benefit pension plan in which the pension obligations to the employees of more than one employer are pooled and pension plan assets can be used to pay the benefits of the employees of any employer that provides pensions through the pension plan.

Covered-Employee Payroll

The payroll of employees that are provided with pensions through the pension plan.

Deferred Inflows and Outflows

The deferred inflows and outflows of pension resources are amounts used under GASB Statement No. 68 in developing the annual pension expense. Deferred inflows and outflows arise with differences between expected and actual experiences; changes of assumptions. The portion of these amounts not included in pension expense should be included in the deferred inflows or outflows of resources.

Deferred Retirement Option Program (DROP)

A program that permits a plan member to elect a calculation of benefit payments based on service credits and salary, as applicable, as of the DROP entry date. The plan member continues to provide service to the employer and is paid for the service by the employer after the DROP entry date; however, the pensions that would have been paid to the plan member are credited to an individual member account within the defined benefit pension plan until the end of the DROP period. Other variations for DROP exist and will be more fully detailed in the plan provision section of the valuation report.



Discount Rate

For GASB purposes, the discount rate is the single rate of return that results in the present value of all projected benefit payments to be equal to the sum of the funded and unfunded projected benefit payments, specifically:

- 1. The benefit payments to be made while the pension plans' fiduciary net position is projected to be greater than the benefit payments that are projected to be made in the period; and
- 2. The present value of the benefit payments not in (1) above, discounted using the municipal bond rate.

Entry Age Actuarial Cost Method (EAN)

The EAN is a cost method for allocating the costs of the plan between the normal cost and the accrued liability. The actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis (either level dollar or level percent of pay) over the earnings or service of the individual between entry age and assumed exit ages(s). The portion of the actuarial present value allocated to a valuation year is the normal cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future normal costs is the actuarial accrued liability. The sum of the accrued liability plus the present value of all future normal costs is the present value of all benefits.

Fiduciary Net Position

The fiduciary net position is the market value of the assets of the trust dedicated to the defined benefit provisions.

GASB

The Governmental Accounting Standards Board is an organization that exists in order to promulgate accounting standards for governmental entities.

Money-Weighted Rate of Return

The money-weighted rate of return is a method of calculating the returns that adjusts for the changing amounts actually invested. For purposes of GASB Statement No. 67, money-weighted rate of return is calculated as the internal rate of return on pension plan investments, net of pension plan investment expense.

Multiple-Employer Defined Benefit Pension Plan

A multiple-employer plan is a defined benefit pension plan that is used to provide pensions to the employees of more than one employer.

Municipal Bond Rate

The Municipal Bond Rate is the discount rate to be used for those benefit payments that occur after the assets of the trust have been depleted.

Net Pension Liability (NPL)

The NPL is the liability of employers and non-employer contributing entities to plan members for benefits provided through a defined benefit pension plan.



Other Postemployment Benefits (OPEB)

All postemployment benefits other than retirement income (such as death benefits, life insurance, disability, and long-term care) that are provided separately from a pension plan, as well as postemployment healthcare benefits regardless of the manner in which they are provided. Other postemployment benefits do not include termination benefits.

Real Rate of Return

The real rate of return is the rate of return on an investment after adjustment to eliminate inflation.

Service Cost

The service cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.

Total Pension Expense

The total pension expense is the sum of the following items that are recognized at the end of the employer's fiscal year:

- 1. Service Cost
- 2. Interest on the Total Pension Liability
- 3. Current-Period Benefit Changes
- 4. Employee Contributions (made negative for addition here)
- 5. Projected Earnings on Plan Investments (made negative for addition here)
- 6. Pension Plan Administrative Expense
- 7. Other Changes in Plan Fiduciary Net Position
- 8. Recognition of Outflow (Inflow) of Resources due to Liabilities
- 9. Recognition of Outflow (Inflow) of Resources due to Assets

Total Pension Liability (TPL)

The TPL is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service.

Unfunded Actuarial Accrued Liability (UAAL)

The UAAL is the difference between actuarial accrued liability and valuation assets.

Valuation Assets

The valuation assets are the assets used in determining the unfunded liability of the plan. For purposes of GASB Statement Nos. 67 and 68, the valuation assets are equal to the market value of assets.

