# Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan

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 Volunteer Firefighter, EMT, and Search and Rescue Pension Plan

Dear Board Members:

This report provides information required by the Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan (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 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 Volunteer Firefighter, EMT, and Search and Rescue Pension Plan ("WRS") 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 Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan 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 Volunteer Firefighter, EMT, and Search and Rescue Pension Plan 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

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**SECTION A** 

**EXECUTIVE SUMMARY** 

# Executive Summary as of December 31, 2024

		2024			
Actuarial Valuation Date	Ja	nuary 1, 2024			
Measurement Date of the Net Pension Liability	Dec	ember 31, 2024			
Employer's Fiscal Year Ending Date (Reporting Date)	December 31, 20				
Membership					
Number of					
- Retirees and Beneficiaries		1,738			
- Inactive, Nonretired Members		2,502			
- Active Members		2,350			
- Total		6,590			
Covered Payroll		N/A			
Net Pension Liability					
Total Pension Liability	\$	127,817,580			
Plan Fiduciary Net Position		126,114,924			
Net Pension Liability	\$	1,702,656			
Plan Fiduciary Net Position as a Percentage					
of Total Pension Liability		98.67 %			
Net Pension Liability as a Percentage					
of Covered Payroll		N/A			
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	\$	267,689			

Deferred Outflows and Deferred Inflows of Resources by Source to be recognize	d in Futu	re Pension Expense	s	
		rred Outflows f Resources	-	erred Inflows f Resources
Difference between expected and actual experience	\$	347,292	\$	382,279
Changes in assumptions		96,405		0
Net difference between projected and actual earnings				
on pension plan investments		5,797,197		9,014,892
Total	\$	6,240,894	\$	9,397,171

\*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.



### 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 is expected to decrease for several years before stabilizing to a level dollar amount.
- 2. The unfunded liability is expected to be fully amortized during the lifetimes of current members.
- 3. The funded status of the plan is expected to increase gradually towards a 100% funded ratio.

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 Volunteer Firefighter, EMT, and Search and Rescue Pension Plan. 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

1. Service Cost	\$	1,842,571
2. Interest on the Total Pension Liability		8,332,499
3. Current-Period Benefit Changes		0
4. Employee Contributions (made negative for addition here)		(582,312)
5. Projected Earnings on Plan Investments (made negative for addition here)		(7,880,279)
6. Pension Plan Administrative Expense		137,590
7. Other Changes in Plan Fiduciary Net Position		8,540
8. Recognition of Outflow (Inflow) of Resources due to Liabilities		47,767
9. Recognition of Outflow (Inflow) of Resources due to Assets		(1,638,687)
10. Total Pension Expense	\$	267,689 *
* In accordance with GASB 71, employers may need to illustrate contributions mad	e	

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 due to Liabilities

1. Difference between expected and actual experience of the Total Pension Liability	
(gains) or losses	\$ 426,737
2. Assumption Changes (gains) or losses	\$ 0
3. Recognition period for Liabilities: Average of the expected remaining service lives	
of all employees {in years}	4.1843
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	\$ 101,985
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	\$ 101,985
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	\$ 324,752
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	\$ 324,752
B. Outflows (Inflows) of Resources due to Assets	
1. Net difference between projected and actual earnings on pension plan investments	
(gains) or losses	\$ (4,041,229)
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	\$ (808,246)
4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	,
due to Assets	\$ (3,232,983)



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

ecognition Period	3.7588	3.7634		4.2211	4.0727	4.0494	3.9911	4.7012		4.4937		4.2606	4.1843				rred Net
	2015	2016		2017	2018	 2019	 2020	 2021		2022		2023	 2024	Total			/Outflows a ement Date
Total \$	\$ (211,035)	\$ (479,308)	\$	(3,538,907)	\$ (1,397,503)	\$ 441,209	\$ 361,487	\$ 151,112	\$	(725,126)	\$	(266,212)	\$ 426,737				
2015	(56,144)													(56,144			
2016	(56,144)	(127,360)												(183,504			
2017	(56,144)	(127,360)		(838,385)										(1,021,889			
2018	(42,603)	(127,360)		(838,385)	(343,139)									(1,351,48			
2019	-	(97,228)		(838,385)	(343,139)	108,957								(1,169,79			
2020	-	-		(838,385)	(343,139)	108,957	90,573							(981,994			
2021	-	-		(185,367)	(343,139)	108,957	90,573	32,143						(296,833	3)		
2022	-	-		-	(24,947)	108,957	90,573	32,143		(161,365)				45,36	1		
2023	-	-		-	-	5,381	89,768	32,143		(161,365)		(62,482)		(96,555	5)		
2024	-	-		-	-	-	-	32,143		(161,365)		(62,482)	101,985	(89,719	9)		
2025	-	-		-	-	-	-	22,540		(161,365)		(62,482)	101,985	(99,322	2)	\$	(34,987)
2026	-	-		-	-	-	-	-		(79,666)		(62,482)	101,985	(40,163	3)		
2027	-	-		-	-	-	-	-		-		(16,284)	101,985	85,70	1		
2028	-	-		-	-	-	-	-		-		-	18,797	18,79			
2029	-	-		-	-	-	-	-		-		-	-	-			
Thereafter	-	-		-	-	-	-	-		-		-	-	-			
	(044.005)										_		 				
Ś	5 (211,035)	\$ (479,308)	\$	(3,538,907)	\$ (1,397,503)	\$ 441,209	\$ 361,487	\$ 151,112	\$	(725,126)	\$	(266,212)	\$ 426,737	\$ (5,237,54	6)		
ې - Assumption changes				(3,538,907)	\$ (1,397,503)	\$ 441,209	\$ 361,487	\$ 151,112	\$	(725,126)	\$	(266,212)	\$ 426,737	\$ (5,237,54	6)		
•				<b>(3,538,907)</b> 4.2211	\$ <b>(1,397,503)</b> 4.0727	\$ <b>441,209</b> 4.0494	\$ <b>361,487</b> 3.9911	\$ <b>151,112</b> 4.7012	·	<b>(725,126)</b> 4.4937	\$	<b>(266,212)</b> 4.2606	\$ <b>426,737</b> 4.1843	\$ (5,237,54	6)		
Assumption changes -	Net (inflows)/c	utflows of resource		4.2211 2017	\$ 	\$ ŗ	\$ ·	\$ 4.7012 2021	·		\$		\$ ·	\$ (5,237,54	6)		
Assumption changes -	Net (inflows)/o 3.7588 2015	utflows of resource 3.7634 2016		4.2211	\$ 4.0727	\$ 4.0494	\$ 3.9911	\$ 4.7012	·	4.4937	\$	4.2606	\$ 4.1843	Total			
Assumption changes - Recognition Period	Net (inflows)/o 3.7588 2015	utflows of resource 3.7634 2016	25	4.2211 2017	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843				
Assumption changes - Recognition Period Total \$	Net (inflows)/c 3.7588 2015 (472,252)	utflows of resource 3.7634 2016	25	4.2211 2017	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843	Total	9)		
Assumption changes - Recognition Period Total \$ 2015	Net (inflows)/o 3.7588 2015 6 (472,252) (125,639)	utflows of resource 3.7634 2016	25	4.2211 2017	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843	Total (125,635	9) 9)		
Assumption changes - Recognition Period Total \$ 2015 2016	Net (inflows)/o 3.7588 2015 <b>(472,252)</b> (125,639) (125,639)	utflows of resource 3.7634 2016 \$ -	25	4.2211 2017 <b>5,273,789</b>	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843	Total (125,639 (125,639	9) 9) 8		
Assumption changes - Recognition Period Total \$ 2015 2016 2017	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ -	25	4.2211 2017 <b>5,273,789</b> 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843	Total (125,639 (125,639 1,123,748	9) 9) 8 2		
Assumption changes - Recognition Period Total \$ 2015 2016 2017 2018	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,057	9) 9) 8 2 7		
Assumption changes - Recognition Period Total \$ 2015 2016 2017 2018 2019	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021		4.4937		4.2606	 4.1843	Total (125,633 1,123,744 1,154,055 1,249,383	9) 9) 8 2 7 7		
Assumption changes - Recognition Period 2015 2016 2017 2018 2019 2020	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 <b>646,349</b> 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,055 1,249,383 1,249,383 413,723	9) 9) 8 2 7 7 7		
Assumption changes - Recognition Period 2015 2016 2017 2018 2019 2020 2021	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,053 1,249,383 1,249,383	9) 9) 8 2 7 7 7 6		
Assumption changes - Recognition Period 7015 2015 2017 2018 2019 2020 2021 2022 2022 2023	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,055 1,249,383 1,249,383 413,727 137,484 137,484	9) 9) 8 2 7 7 7 6 6		
Assumption changes - Recognition Period Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,055 1,249,383 1,249,383 1,249,383 1,249,383 137,484 137,484 137,484	9) 9) 8 2 7 7 7 6 6 6	5	96.405
Assumption changes - Recognition Period 2015 2016 2017 2018 2019 2020 2021 2022 2022 2022 2023 2024 2025	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,055 1,249,383 1,249,383 413,727 137,484 137,484	9) 9) 8 2 7 7 7 6 6 6	\$	96,405
Assumption changes - Recognition Period Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,055 1,249,383 1,249,383 1,249,383 1,249,383 137,484 137,484 137,484	9) 9) 8 2 7 7 7 6 6 6	Ş	96,405
Assumption changes -           Recognition Period           Total         \$           2015         \$           2016         \$           2017         \$           2018         \$           2019         \$           2020         \$           2021         \$           2022         \$           2023         \$           2026         \$           2027         \$	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486 137,486 96,405		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,053 1,249,383 1,249,383 1,249,383 413,723 137,484 137,484 137,484 96,400	9) 9) 8 2 7 7 7 6 6 6	\$	96,405
Assumption changes - Recognition Period Total \$ 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2024 2025 2026 2027 2028	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486 137,486 137,486 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,053 1,249,383 1,249,383 1,249,383 413,723 137,484 137,484 137,484 96,400	9) 9) 8 2 7 7 7 6 6 6	Ş	96,405
Assumption changes -           Recognition Period           Total         \$           2015         \$           2016         \$           2017         \$           2018         \$           2019         \$           2020         \$           2021         \$           2022         \$           2023         \$           2026         \$           2027         \$	Net (inflows)/c 3.7588 2015 (125,639) (125,639) (125,639) (125,639)	utflows of resource 3.7634 2016 \$ - - - - -	25	4.2211 2017 <b>5,273,789</b> 1,249,387 1,249,387 1,249,387 1,249,387 1,249,387	4.0727	 4.0494	3.9911	 4.7012 2021 646,349 137,486 137,486 137,486 137,486 137,486 137,486		4.4937		4.2606	 4.1843	Total (125,633 (125,633 1,123,744 1,154,053 1,249,383 1,249,383 1,249,383 413,723 137,484 137,484 137,484 96,400	9) 9) 8 2 7 7 7 6 6 6	\$	96,405



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

Recognition Period		5.0000		5.0000		5.0000		5.0000		5.0000		5.0000		5.0000		5.0000		5.0000		5.0000			De	ferred Net
																								rerred Net s)/Outflows at
		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		Total	Measu	urement Date
Total	\$	6,323,926	\$	491,432	\$	(4,929,730)	\$	8,416,656	\$	(8,468,230)	\$	(2,794,755)	\$	(9,320,901)	\$	14,492,994	\$	(6,529,546)	\$	(4,041,229)				
2015		1,264,785																				1,264,785		
2016		1,264,785		98,286																		1,363,071		
2017		1,264,785		98,286		(985,946)																377,125		
2018		1,264,785		98,286		(985,946)		1,683,331														2,060,456		
2019		1,264,786		98,286		(985,946)		1,683,331		(1,693,646)												366,811		
2020		-		98,288		(985,946)		1,683,331		(1,693,646)		(558,951)										(1,456,924)		
2021		-		-		(985,946)		1,683,331		(1,693,646)		(558,951)		(1,864,180)								(3,419,392)		
2022		-		-		-		1,683,332		(1,693,646)		(558,951)		(1,864,180)		2,898,599						465,154		
2023		-		-		-		-		(1,693,646)		(558,951)		(1,864,180)		2,898,599		(1,305,909)				(2,524,087)		
2024		-		-		-		-		-		(558,951)		(1,864,180)		2,898,599		(1,305,909)		(808,246)		(1,638,687)		
2025		-		-		-		-		-		-		(1,864,181)		2,898,599		(1,305,909)		(808,246)		(1,079,737)	\$	(3,217,695)
2026		-		-		-		-		-		-		-		2,898,598		(1,305,909)		(808,246)		784,443	•	(-, ,,
2027		-		-		-		-		-		-		-		-		(1,305,910)		(808,246)		(2,114,156)		
2028		-		-		-		-		-		-		-		-		-		(808,245)		(808,245)		
2029		-		-		-		-		-		-		-		-		-		-		-		
Thereafter		-		-		-		-		-		-		-		-		-		-		-		
	Ś	6,323,926	\$	491,432	Ś	(4,929,730)	Ś	8,416,656	Ś	(8,468,230)	Ś	(2,794,755)	Ś	(9,320,901)	Ś	14,492,994	Ś	(6,529,546)	Ś	(4,041,229)	Ś	(6,359,383)		
	·		•			()	·	-, -,	·	(-,,,		() = ) = )		(-,,		, - ,	·	(-,,,	·	()- ) -)		(-,,,		
Total net difference	es froi	n all sources -	Net (i	nflows)/outflo	ows of	resources																		
		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		Total		
Total	Ś	5,640,639	\$	12.124	Ś	(3,194,848)	Ś	7.019.153	Ś	(8,027,021)	Ś	(2.433.268)	Ś	(8.523.440)	Ś	13.767.868	Ś	(6,795,758)	Ś	(3,614,492)		TUtai		
2015	Ŷ	1,083,002	Ŷ	12,124	Ŷ	(3,134,040)	Ŷ	7,015,155	Ŷ	(0,027,021)	Ŷ	(2,433,200)	Ŷ	(0,323,440)	Ŷ	13,707,808	Ŷ	(0,755,758)	Ŷ	(3,014,452)		1,083,002		
2015		1,083,002		(29,074)																		1,053,928		
2010		1,083,002		(29,074)		(574,944)																478,984		
2017		1,085,002		(29,074)		(574,944)		1,340,192														1,863,021		
2018		1,120,847		1,058		(574,944)		1,340,192		(1,584,689)												446,403		
2019		1,204,780		98,288		(574,944)		1,340,192		(1,584,689)		(468,378)										(1,189,531)		
2020				96,266		. , ,		1,340,192		(1,584,689)		(468,378)		(1,694,551)								(3,302,498)		
2021		-		-		(895,072)										2 727 224								
		-		-		-		1,658,385		(1,584,689)		(468,378)		(1,694,551)		2,737,234		(4.200.204)				648,001		
2023		-		-		-		-		(1,688,265)		(469,183)		(1,694,551)		2,737,234		(1,368,391)		(706.264)		(2,483,156)		
2024		-		-		-		-		-		(558,951)		(1,694,551)		2,737,234		(1,368,391)		(706,261)		(1,590,920)		(a
2025		-		-		-		-		-		-		(1,745,236)		2,737,234		(1,368,391)		(706,261)		(1,082,654)	\$	(3,156,277)
2026		-		-		-		-		-		-		-		2,818,932		(1,368,391)		(706,261)		744,280		
2027		-		-		-		-		-		-		-		-		(1,322,194)		(706,261)		(2,028,455)		
2028		-		-		-		-		-		-		-		-		-		(789,448)		(789,448)		
2029		-		-		-		-		-		-		-		-		-		-		-		
Thereafter		-																						
	\$	5,640,639	\$	12,124	\$	- (3,194,848)	\$	- 7,019,153	\$	(8,027,021)	\$	- (2,433,268)	Ś	- (8,523,440)	\$	- 13,767,868	\$	- (6,795,758)	\$	(3,614,492)	Ś	(6,149,043)		

Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan 10



### 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 of Resources	of	Inflows Resources	Net Outflows of Resources			
1. Due to Liabilities	\$ 271,614	\$	223,847	\$	47,767		
2. Due to Assets	2,898,599		4,537,286		(1,638,687)		
3. Total	\$ 3,170,213	\$	4,761,133	\$	(1,590,920)		

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

	Outflows f Resources	of	Inflows Resources	 let Outflows f Resources
1. Differences between expected and actual experience	\$ 134,128	\$	223,847	\$ (89,719)
2. Assumption Changes	137,486		0	137,486
3. Net Difference between projected and actual				
earnings on pension plan investments	 2,898,599		4,537,286	 (1,638,687)
4. Total	\$ 3,170,213	\$	4,761,133	\$ (1,590,920)

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

	 rred Outflows Resources	 erred Inflows Resources	 ferred Outflows Resources
1. Differences between expected and actual experience	\$ 347,292	\$ 382,279	\$ (34,987)
2. Assumption Changes	96,405	0	96,405
3. Net Difference between projected and actual			
earnings on pension plan investments	 5,797,197	 9,014,892	 (3,217,695)
4. Total	\$ 6,240,894	\$ 9,397,171	\$ (3,156,277)

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

Year Ending December 31	Net Deferred Outflows of Resources							
2025	\$	(1,082,654)						
2026		744,280						
2027		(2,028,455)						
2028		(789,448)						
2029		0						
Thereafter		0						
Total	\$	(3,156,277)						



### Statement of Fiduciary Net Position as of December 31, 2024

	 2024
Assets	
Cash and Deposits	\$ 5,965,194
Receivables	
Accounts Receivable - Sale of Investments	\$ 1,111,195
Accrued Interest and Other Dividends	245,428
Contributions	42,311
Accounts Receivable - Other	 8,748,060
Total Receivables	\$ 10,146,994
Investments	
Fixed Income	\$ 20,150,215
Equities	59,599,861
Private Markets	15,462,127
Marketable Alternatives	22,390,830
Security Lending Collateral	4,418,907
Capital Assets, at Cost, Net of Accumulated Depreciation	 31,901
Total Investments	\$ 122,053,841
Total Assets	\$ 138,166,029
Liabilities	
Payables	
Accounts Payable - Purchase of Investments	\$ 11,846,224
Accrued Expenses	183,866
Accounts Payable - Other	 21,015
Total Liabilities	\$ 12,051,105
Net Position Restricted for Pensions	\$ 126,114,924



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

	 2024
Additions	
Contributions	
Employer	\$ 0
Employee	574,423
Other Employer Contributions	4,079,694
Other Employee Contributions	 7,889
Total Contributions	\$ 4,662,006
Investment Income	
Net Appreciation in Fair Value of Investments	\$ 10,299,705
Interest and Dividends	2,515,915
Less Investment Expense	 (894,112)
Net Investment Income	\$ 11,921,508
Other	\$ 0
Total Additions	\$ 16,583,514
Deductions	
Benefit Payments, including Refunds of Employee Contributions	\$ 7,847,174
Pension Plan Administrative Expense	137,590
Other	8,540
Total Deductions	\$ 7,993,304
Net Increase in Net Position	\$ 8,590,210
Net Position Restricted for Pensions	
Beginning of Year	\$ 117,524,714
End of Year	\$ 126,114,924



## **SECTION C**

### **REQUIRED SUPPLEMENTARY INFORMATION**

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan. 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	\$ 1,842,571
2. Interest on the total pension liability	8,332,499
3. Changes of benefit terms	0
4. Difference between expected and actual experience	
of the total pension liability	426,737
5. Changes of assumptions	0
6. Benefit payments, including refunds	
of employee contributions	 (7,847,174)
7. Net change in total pension liability	2,754,633
8. Total pension liability – beginning	 125,062,947
9. Total pension liability – ending	\$ 127,817,580
B. Plan fiduciary net position	
1. Contributions – employer	\$ 4,079,694
2. Contributions – employee	582,312
3. Net investment income	11,921,508
4. Benefit payments, including refunds	
of employee contributions	(7,847,174)
5. Pension plan administrative expense	(137,590)
6. Other	(8,540)
7. Net change in plan fiduciary net position	8,590,210
8. Plan fiduciary net position – beginning	117,524,714
9. Plan fiduciary net position – ending	\$ 126,114,924
C. Net pension liability	\$ 1,702,656
D. Plan fiduciary net position as a percentage	
of the total pension liability	98.67 %
E. Covered-employee payroll	N/A
F. Net pension liability as a percentage	
of covered-employee payroll	N/A



### 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	2015
Total pension liability													
Service cost	\$ 1,842,571	\$ 1,787,399	\$ 1,792,369	\$ 1,805,233 \$	1,501,	573	\$ 1,432,649	\$	1,426,154	1,412,4	10 \$	1,285,552 \$	1,253,8
Interest on the total pension liability	8,332,499	8,151,557	8,011,636	7,891,422	7,885,	54	7,685,536		7,474,042	7,372,2	54	7,761,646	7,520,8
Changes of benefit terms	0	0	0	0		0	0		0		0	0	21,809,8
Difference between expected and													
actual experience	426,737	(266,212)	(725,126)	151,112	361,	187	441,209		(1,397,503)	(3,538,9	)7)	(479,308)	(211,0
Changes of assumptions	0	0	0	646,349		0	0		0	5,273,7	39	0	(472,2
Benefit payments, including refunds													
of employee contributions	 (7,847,174)	(7,620,366)	(7,339,619)	(7,059,693)	(6,810,	666)	(6,506,775)		(6,145,822)	(5,813,8	38)	(5,541,861)	(4,867,6
Net change in total pension liability	2,754,633	2,052,378	1,739,260	3,434,423	2,937,	948	3,052,619		1,356,871	4,705,6	38	3,026,029	25,033,7
Total pension liability - beginning	125,062,947	123,010,569	121,271,309	117,836,886	114,898,	938	111,846,319		110,489,448	105,783,7	50	102,757,731	77,723,9
Total pension liability - ending (a)	\$ 127,817,580	\$ 125,062,947	\$ 123,010,569	\$ 121,271,309 \$	117,836,	886	\$ 114,898,938	\$	111,846,319	110,489,4	18 \$	105,783,760 \$	102,757,7
Plan fiduciary net position													
Employer contributions	\$ 4,079,694	\$ 12,808,014	\$ 3,866,570	\$ 4,670,469 \$	5,509,	882 9	3,118,824	\$	2,959,943	3,290,9	94 \$	3,198,930 \$	2,238,6
Employee contributions	582,312	593,507	558,326	573,113	520,	788	437,255		434,522	425,5	92	459,363	417,4
Pension plan net investment income	11,921,508	13,413,616	(7,203,572)	15,709,526	8,848,	756	13,701,406		(2,782,682)	10,035,7	53	4,939,925	(675,2
Benefit payments, including refunds													
of employee contributions	(7,847,174)	(7,620,366)	(7,339,619)	(7,059,693)	(6,810,	666)	(6,506,775)	1	(6,145,822)	(5,813,8	38)	(5,541,861)	(4,867,6
Pension plan administrative expense	(137,590)	(116,979)	(107,648)	(95,155)	(86,	519)	(89,451)	!	(91,195)	(88,8	35)	(80,904)	(73,4
Other	 (8,540)	(7,654)	(6,300)	(3,410)	(3,	290)	(3,455)		(3,201)	(3,4	53)	(3,453)	(3,4
Net change in plan fiduciary net position	 8,590,210	19,070,138	(10,232,243)	13,794,850	7,978,	151	10,657,804		(5,628,435)	7,846,1	53	2,972,000	(2,963,7
Plan fiduciary net position - beginning	117,524,714	98,454,576	108,686,819	94,891,969	86,913,	518	76,255,714		81,884,149	74,037,9	36	71,065,986	74,029,7
Plan fiduciary net position - ending (b)	\$ 126,114,924	\$ 117,524,714	\$ 98,454,576	\$ 108,686,819 \$	94,891,	969 9	\$ 86,913,518	\$	76,255,714	81,884,1	19 \$	74,037,986 \$	71,065,9
Net pension liability - ending (a) - (b)	\$ 1,702,656	\$ 7,538,233	\$ 24,555,993	\$ 12,584,490 \$	22,944,	917 ;	\$ 27,985,420	\$	35,590,605	28,605,2	99\$	31,745,774 \$	31,691,7
Plan fiduciary net position as a percentage													
of total pension liability	98.67 %	93.97 %	80.04 %	89.62 %	80.5	3 %	75.64 %	,	68.18 %	74.11	%	69.99 %	69.1
Covered-employee payroll	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N	/A	N/A	Ν
Net pension liability as a percentage	,	,					,		•				
of covered-employee payroll	N/A	N/A	N/A	N/A		N/A	N/A		N/A	N	/A	N/A	Ν

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 Liability as a % of Covered Payroll
2015	\$ 102,757,731	\$ 71,065,986	\$ 31,691,745	69.16 %	N/A	N/A
2016	105,783,760	74,037,986	31,745,774	69.99 %	N/A	N/A
2017	110,489,448	81,884,149	28,605,299	74.11 %	N/A	N/A
2018	111,846,319	76,255,714	35,590,605	68.18 %	N/A	N/A
2019	114,898,938	86,913,518	27,985,420	75.64 %	N/A	N/A
2020	117,836,886	94,891,969	22,944,917	80.53 %	N/A	N/A
2021	121,271,309	108,686,819	12,584,490	89.62 %	N/A	N/A
2022	123,010,569	98,454,576	24,555,993	80.04 %	N/A	N/A
2023	125,062,947	117,524,714	7,538,233	93.97 %	N/A	N/A
2024	127,817,580	126,114,924	1,702,656	98.67 %	N/A	N/A



### Schedule of Contributions Multiyear Last 10 Fiscal Years

FY Ending December 31,	Actuarially Determined Contribution*		Co	Actual ntribution**	-	ontribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
2015	\$	1,139,454	\$	2,238,612	\$	(1,099,158)	N/A	N/A
2016		3,128,272		3,198,930		(70 <i>,</i> 658)	N/A	N/A
2017		2,923,585		3,290,994		(367,409)	N/A	N/A
2018		3,275,465		2,959,943		315,522	N/A	N/A
2019		3,543,372		3,118,824		424,548	N/A	N/A
2020		3,669,138		5,509,382		(1,840,244)	N/A	N/A
2021		3,318,686		4,670,469		(1,351,783)	N/A	N/A
2022		3,130,017		3,866,570		(736,553)	N/A	N/A
2023		3,034,771		12,808,014		(9,773,243)	N/A	N/A
2024		2,020,159		4,079,694		(2,059,535)	N/A	N/A

\* The Volunteer Firefighter, EMT, and Search and Rescue Retirement System is a new plan with new benefit provisions formed as of July 1, 2015 from the discontinued prior Volunteer Firemen's Pension Plan and the Volunteer EMT Pension Plan. The Actuarially Determined Contribution for 2015 is the sum of the amounts for the prior plans determined as of their respective January 1, 2015 actuarial valuations.

\*\* Includes other funding sources but excludes member redeposits and member service purchase contributions.



### **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:

Entry Age Normal
Lift y Age Norman
Level Dollar, Closed
24 years
5-Year smoothed market
2.25%
0.00%
6.80%
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.
Pub-2010 General 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 103%
Pub-2010 General 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%
The Volunteer Firefighter, EMT, and Search and Rescue Retirement System is a new plan with new benefit provisions formed as of July 1, 2015 from the discontinued prior Volunteer Firemen's Pension Plan and the Volunteer EMT Pension Plan. 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 <sup>1</sup>
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 %

<sup>1</sup> 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 Volunteer Firefighter, EMT, and Search and Rescue Pension Plan. 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 the 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 estimated fire tax rates, projected with inflation. 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 Result**

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

	<b>Current Single Discount</b>	
1% Decrease	<b>Rate Assumption</b>	1% Increase
5.80%	6.80%	7.80%
\$ 16,791,931	\$ 1,702,656	\$ (10,826,766)



### **Summary of Population Statistics**

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	1,738
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	2,502
Active Plan Members	2,350
Total Plan Members	6,590



## **SECTION E**

**SUMMARY OF BENEFITS** 

### **Summary of Benefits**

Covered Members	Any volunteer firefighter, EMT, or search and rescue employee for whom payments are received by the Volunteer Firefighter, EMT, and Search and Rescue pension account as prescribed in W.S. 35-9-621(e).
Service Retirement	
Eligibility	Age 60 with 5 years of service.
Monthly Benefit	\$16 per month for each of the first 10 years of service and \$19 per month for each year of service over 10.
	Normal Form of Payment is a 66% Joint & Survivor Annuity for married retirees and life annuity for unmarried retirees.
	Any contributing member of the discontinued Volunteer Firefighter Pension Plan and the Volunteer Emergency Medical Technician Pension Plan on June 30, 2015 is grandfathered in certain provisions of the discontinued plans, including receiving the greater of the benefit under the previous plan and the service retirement benefit under this plan.
Vesting	Any member with five or more years of service who has left employment, 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. In addition, a member with at least ten years of service may gain extra years of service by continuing to contribute, up to a maximum number of months served as an active member. A member who terminates with less than five years of service is only eligible for the lump-sum benefit.

#### **Pre-retirement Death Benefit**

Eligibility No age or service requirements.

Monthly Benefit Upon the death of any participating member, the board shall authorize a monthly payment to the surviving spouse of the member during the spouse's remaining lifetime of an amount equal to 66% of the amount calculated above based on actual years of service, or five years of service if greater. Benefits are also payable to children under age 21, equal to 33% of the amount calculated above, upon death of the member and spouse.



#### **Post-retirement Death Benefit**

Monthly Benefit	66% of the member's benefit payable prior to the member's death. Benefits
	are also payable to children under age 21, equal to 33% of the amount
	calculated above, upon death of the member and spouse.

#### Lump Sum Death Benefit

Benefit	A lump sum payment of \$5,000, or \$2,500 for members who contributed
	\$5.00 per month before July 1, 1989, less the amount of the monthly
	benefits paid to the estate upon the spouse's death. For a deceased
	member without an eligible survivor, the greater of the deceased member's
	account or \$5,000 (\$2,500 for certain members) is payable to the estate of
	the deceased member.

#### Contributions

Employee	\$18.75 per month for volunteer firefighters and EMT
	\$37.50 per month for search and rescue members

State 60% of gross fire insurance premium taxes paid on fire insurance policies in Wyoming.

Interest 3.00% annually.

**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.



**SECTION F** 

ACTUARIAL COST METHOD AND ACTUARIAL ASSUMPTIONS

### **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 1<sup>st</sup>, 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 dollar amount. Under this method, the employer contribution amount is the sum of (i) the employer normal cost amount, and (ii) the amount 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, and sex. 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, or survivor's benefit. 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 employer contribution amount which, if applied to 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 actuarial accrued liability contributions are determined by subtracting the actuarial value of assets from the actuarial accrued liability and amortizing the result over 24 years from the valuation date. 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>

Investment return: 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.

#### 5. <u>Demographic Assumptions</u>

a. Rates Before Retirement

Healthy Pre-Retirement Mortality:

Pub-2010 General Healthy 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 General 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 103%

	Pre-Retirement		Post-Retirement	
	Projected to 2024 using the MP-2020 Ultimate Scale			ate Scale
Age	Male	Female	Male	Female
20	0.03%	0.01%	0.03%	0.01%
25	0.02%	0.01%	0.02%	0.01%
30	0.03%	0.01%	0.03%	0.01%
35	0.04%	0.02%	0.04%	0.02%
40	0.05%	0.03%	0.05%	0.03%
45	0.08%	0.05%	0.09%	0.06%
50	0.12%	0.07%	0.25%	0.19%
55	0.18%	0.10%	0.36%	0.24%
60	0.26%	0.15%	0.51%	0.33%
65	0.39%	0.25%	0.76%	0.53%
70	0.59%	0.41%	1.28%	0.92%
75			2.27%	1.64%
80			4.09%	2.96%
85			7.60%	5.66%
90			13.43%	10.83%
95			21.64%	18.33%
100			31.27%	27.81%



#### b. <u>Withdrawal Rates</u>

	Withdrawal		
	Ultimate		
Age	Male	Female	
20	10.00%	10.00%	
25	6.00%	6.00%	
30	5.00%	5.00%	
35	4.00%	4.00%	
40	4.00%	4.00%	
45	3.00%	3.00%	
50	2.50%	2.50%	
55	1.50%	1.50%	
60	1.00%	1.00%	

#### c. <u>Retirement Rates</u>

-	
Age	Rates
<60	0.00%
60	55.00%
61	25.00%
62	15.00%
63	15.00%
64	15.00%
65	25.00%
66	30.00%
67	20.00%
68	20.00%
69	20.00%
70	100.00%



#### 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. Administrative expenses: Average of actual expenses for the prior two years, with each year projected at 2.50% to the valuation date.
- e. Decrement timing: Decrements of all types are assumed to occur mid-year.
- f. 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.
- g. Incidence of contributions: Contributions are assumed to be received continuously throughout the year.
- h. Benefit service: All members are assumed to accrue one year of service each year.
- i. Premium tax allocation: Provided by staff and based on booked total premium taxes.
- j. Percent of eligible deferred vested members electing a refund: 25% of all future deferred vested members are assumed to leave their contributions in the fund and elect a deferred vested annuity payable commencing at age 60.
- k. 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.



#### **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.



**SECTION G** 

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			Total Employee Contributions from Payroll Current Employees				Total Employer Contributions		loyer Portion ew Entrant's ormal Cost	Total Contributions	
	(a)	(b)=max(0,(c)-(a))	(c)	cui	(d)		(e)		(f)	(g)=(d)+(e)-(f)	
2024	N/A	N/A	N/A	\$	582,312	Ś	4,079,694	\$		\$ 4,662,006	
2025	-	-	-	Ŷ	377,647	Ŷ	4,171,487	Ŷ	100,186	4,448,948	
2026	-	-	-		350,740		4,265,346		193,634	4,422,452	
2027	-	-	-		325,844		4,361,316		276,820	4,410,340	
2028	-	-	-		302,083		4,459,445		359,719	4,401,809	
2029	-	-	-		280,517		4,559,783		435,824	4,404,476	
2025	_	_			261,167		4,662,378		502,591	4,420,954	
2030	_	_			243,026		4,767,282		561,912	4,448,396	
2031	-	-	-		226,361		4,874,545		618,428	4,482,479	
2032	_	_			210,926		4,984,223		665,745	4,529,403	
2033			-		196,092		5,096,368		712,694	4,529,403	
2034	-	-	-						754,498		
2035	-	-	-		182,468		5,211,036			4,639,006	
2030	-	-	-		169,656 156,939		5,328,284 5,448,171		792,104 827,427	4,705,836	
2037	-	-	-							4,777,682	
	-	-	-		144,648		5,570,755		863,357 894,875	4,852,046	
2039	-	-	-		132,944		5,696,097		,	4,934,166	
2040	-	-	-		121,692		5,824,259		926,326	5,019,625	
2041	-	-	-		110,740		5,955,305		954,279	5,111,766	
2042	-	-	-		99,716		6,089,299		983,177	5,205,838	
2043	-	-	-		89,092		6,226,308		1,010,731	5,304,669	
2044	-	-	-		79,559		6,366,400		1,036,489	5,409,471	
2045	-	-	-		71,004		6,509,644		1,056,559	5,524,089	
2046	-	-	-		62,832		6,656,111		1,075,733	5,643,210	
2047	-	-	-		55,690		6,805,874		1,092,954	5,768,609	
2048	-	-	-		49,088		6,959,006		1,105,213	5,902,880	
2049	-	-	-		42,593		7,115,583		1,119,001	6,039,175	
2050	-	-	-		36,917		7,275,684		1,130,719	6,181,883	
2051	-	-	-		31,873		7,439,387		1,139,554	6,331,706	
2052	-	-	-		27,209		7,606,773		1,147,738	6,486,244	
2053	-	-	-		22,967		7,777,925		1,154,838	6,646,054	
2054	-	-	-		19,206		7,952,929		1,160,941	6,811,194	
2055	-	-	-		15,998		8,131,870		1,165,697	6,982,171	
2056	-	-	-		13,270		8,314,837		1,169,334	7,158,773	
2057	-	-	-		10,907		8,501,921		1,172,009	7,340,818	
2058	-	-	-		8,839		8,693,214		1,174,390	7,527,662	
2059	-	-	-		7,068		8,888,811		1,176,413	7,719,466	
2060	-	-	-		5,615		9,088,809		1,178,052	7,916,372	
2061	-	-	-		4,448		9,293,307		1,179,068	8,118,687	
2062	-	-	-		3,418		9,502,407		1,179,961	8,325,864	
2063	-	-	-		2,506		9,716,211		1,181,193	8,537,524	
2064	-	-	-		1,805		9,934,826		1,182,224	8,754,406	
2065	-	-	-		1,290		10,158,359		1,182,843	8,976,806	
2066	-	-	-		919		10,386,922		1,183,361	9,204,480	
2067	-	-	-		658		10,620,628		1,183,631	9,437,656	
2068	-	-	-		461		10,859,592		1,183,847	9,676,206	
2069	-	-	-		315		11,103,933		1,183,975	9,920,274	
2070	-	-	-		210		11,353,772		1,184,057	10,169,925	
2071	-	-	-		137		11,609,232		1,184,083	10,425,286	
2072	-	-	-		83		11,870,439		1,184,086	10,686,436	
					42		12,137,524		1,184,112	10,953,454	



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

Year	Payroll for Cu Employe		Payroll for Employ		Employee Payroll	utions from Employees	Total Employer Contributions	of N	loyer Portion lew Entrant's ormal Cost	Total C	Contributions
	(a)		(b)=max(0,	(c)-(a))	(c)	(d)	(e)		(f)	(g)=	=(d)+(e)-(f)
2074	\$		\$	-	\$ -	\$ 18	\$ 12,410,618	\$	1,184,117	\$	11,226,519
2075				-	-	6	12,689,857		1,184,094		11,505,770
2076		-		-	-	1	12,975,379		1,184,085		11,791,295
2077		-		-	-	-	13,267,325		1,184,076		12,083,249
2078		-		-	-	-	13,565,840		1,184,065		12,381,775
2079		-		-	-	-	13,871,071		1,184,066		12,687,006
2080		-		-	-	-	14,183,171		1,184,082		12,999,089
2081		-		-	-	-	14,502,292		1,184,097		13,318,195
2082		-		-	-	-	14,828,593		1,184,114		13,644,479
2083		-		-	-	-	15,162,237		1,184,133		13,978,104
2084		-		-	-	-	15,503,387		1,184,152		14,319,235
2085		-		-	-	-	15,852,213		1,184,166		14,668,047
2086		-		-	-	-	16,208,888		1,184,176		15,024,712
2087		-		-	-	-	16,573,588		1,184,183		15,389,405
2088		-		-	-	-	16,946,494		1,184,186		15,762,308
2089		-		-	-	-	17,327,790		1,184,183		16,143,607
2090		-		-	_	-	17,717,665		1,184,178		16,533,487
2091		-		-	_	-	18,116,313		1,184,173		16,932,140
2092					_	-	18,523,930		1,184,165		17,339,765
2092							18,940,718		1,184,155		17,756,563
2093				_		_	19,366,884		1,184,145		18,182,739
2094				_		_	19,802,639		1,184,145		
2095		-		-	-	-					18,618,503
2090		-		-	-	-	20,248,199		1,184,128		19,064,071
2097		-		-	-	-	20,703,783		1,184,122		19,519,661
		-		-	-	-	21,169,618		1,184,117		19,985,502
2099		-		-	-	-	21,645,935		1,184,112		20,461,822
2100		-		-	-	-	22,132,968		1,184,111		20,948,857
2101		-		-	-	-	22,630,960		1,184,111		21,446,849
2102		-		-	-	-	23,140,156		1,184,111		21,956,045
2103		-		-	-	-	23,660,810		1,184,113		22,476,697
2104		-		-	-	-	24,193,178		1,184,114		23,009,064
2105		-		-	-	-	24,737,525		1,184,117		23,553,408
2106		-		-	-	-	25,294,119		1,184,119		24,110,000
2107		-		-	-	-	25,863,237		1,184,120		24,679,116
2108		-		-	-	-	26,445,160		1,184,122		25,261,038
2109		-		-	-	-	27,040,176		1,184,123		25,856,052
2110		-		-	-	-	27,648,580		1,184,124		26,464,455
2111		-		-	-	-	28,270,673		1,184,125		27,086,547
2112		-		-	-	-	28,906,763		1,184,126		27,722,637
2113		-		-	-	-	29,557,165		1,184,127		28,373,038
2114		-		-	-	-	30,222,201		1,184,128		29,038,073
2115		-		-	-	-	30,902,201		1,184,128		29,718,072
2116		-		-	-	-	31,597,500		1,184,129		30,413,371
2117		-		-	-	-	32,308,444		1,184,129		31,124,315
2118		-		-	-	-	33,035,384		1,184,130		31,851,254
2119		-		-	-	-	33,778,680		1,184,130		32,594,550
2120		-		-	-	-	34,538,700		1,184,130		33,354,570
2121		-		-	-	-	35,315,821		1,184,130		34,131,691
2122		-		-	-	-	36,110,427		1,184,130		34,926,297
2123		-		-	-	-	36,922,912		1,184,130		35,738,781





#### 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	\$ 117,524,714	\$ 4,662,006	\$ 7,855,714	\$ 123,700	\$ 11,921,508	\$ 126,128,814
2025	126,128,814	4,448,948	8,446,644	126,483	8,438,843	130,443,479
2026	130,443,479	4,422,452	8,708,423	129,329	8,722,505	134,750,684
2027	134,750,684	4,410,340	8,919,424	132,239	9,007,837	139,117,198
2028	139,117,198	4,401,809	9,111,843	135,214	9,297,940	143,569,890
2029	143,569,890	4,404,476	9,299,698	138,256	9,594,429	148,130,841
2030	148,130,841	4,420,954	9,466,619	141,367	9,899,438	152,843,247
2031	152,843,247	4,448,396	9,628,644	144,548	10,215,275	157,733,726
2032	157,733,726	4,482,479	9,774,221	147,800	10,543,990	162,838,173
2033	162,838,173	4,529,403	9,893,480	151,126	10,888,563	168,211,533
2034	168,211,533	4,579,765	10,002,966	154,526	11,251,860	173,885,667
2035	173,885,667	4,639,006	10,075,072	158,003	11,637,155	179,928,753
2036	179,928,753	4,705,836	10,126,015	161,558	12,048,497	186,395,514
2030	186,395,514	4,777,682	10,202,668	165,193	12,487,955	193,293,291
2037	193,293,291	4,852,046	10,275,945	168,910	12,956,915	200,657,397
2030	200,657,397	4,934,166	10,328,903	172,710	13,458,523	208,548,472
2035	208,548,472	5,019,625	10,361,833	176,596	13,996,743	217,026,411
2040	217,026,411	5,111,766	10,398,503	180,569	14,574,965	226,134,069
2041	226,134,069	5,205,838	10,440,706	184,632	15,195,884	235,910,454
2042	235,910,454	5,304,669	10,440,700	184,032	15,862,611	246,411,364
2043		5,409,471	10,477,984	193,034		240,411,504
	246,411,364				16,580,224	
2045	257,736,089	5,524,089	10,425,936	197,377	17,355,532	269,992,396
2046	269,992,396	5,643,210	10,366,857	201,818	18,194,771	283,261,703
2047	283,261,703	5,768,609	10,274,433	206,359	19,104,216	297,653,736
2048	297,653,736	5,902,880	10,157,968	211,002	20,091,104	313,278,751
2049	313,278,751	6,039,175	10,047,893	215,750	21,161,685	330,215,968
2050	330,215,968	6,181,883	9,906,337	220,604	22,322,760	348,593,670
2051	348,593,670	6,331,706	9,738,385	225,568	23,582,904	368,544,327
2052	368,544,327	6,486,244	9,566,772	230,643	24,950,286	390,183,443
2053	390,183,443	6,646,054	9,381,743	235,832	26,433,104	413,645,025
2054	413,645,025	6,811,194	9,187,505	241,138	28,040,332	439,067,908
2055	439,067,908	6,982,171	8,976,268	246,564	29,781,688	466,608,936
2056	466,608,936	7,158,773	8,750,088	252,112	31,667,762	496,433,271
2057	496,433,271	7,340,818	8,520,379	257,785	33,709,396	528,705,321
2058	528,705,321	7,527,662	8,284,641	263,585	35,917,833	563,602,590
2059	563,602,590	7,719,466	8,039,696	269,516	38,305,255	601,318,098
2060	601,318,098	7,916,372	7,787,272	275,580	40,884,732	642,056,351
2061	642,056,351	8,118,687	7,528,350	281,781	43,670,150	686,035,058
2062	686,035,058	8,325,864	7,270,072	288,121	46,676,055	733,478,784
2063	733,478,784	8,537,524	7,012,303	294,604	49,917,710	784,627,111
2064	784,627,111	8,754,406	6,747,778	301,233	53,411,673	839,744,180
2065	839,744,180	8,976,806	6,476,908	308,011	57,175,903	899,111,971
2066	899,111,971	9,204,480	6,201,522	314,941	61,229,504	963,029,492
2067	963,029,492	9,437,656	5,922,827	322,027	65,592,775	1,031,815,069
2068	1,031,815,069	9,676,206	5,643,781	329,273	70,287,261	1,105,805,482
2069	1,105,805,482	9,920,274	5,364,883	336,682	75,335,850	1,185,360,041
2070	1,185,360,041	10,169,925	5,086,515	344,257	80,762,964	1,270,862,158
2071	1,270,862,158	10,425,286	4,809,079	352,003	86,594,666	1,362,721,029
2072	1,362,721,029	10,686,436	4,533,571	359,923	92,858,751	1,461,372,722
2073	1,461,372,722	10,953,454	4,260,479	368,021	99,584,857	1,567,282,533

Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan 37



#### 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	\$ 1,567,282,533	\$ 11,226,519	\$ 3,990,097	\$ 376,301	\$ 106,804,621	\$ 1,680,947,274
2075	1,680,947,274	11,505,770	3,723,430	384,768	114,551,796	1,802,896,642
2076	1,802,896,642	11,791,295	3,461,461	393,425	122,862,372	1,933,695,422
2077	1,933,695,422	12,083,249	3,205,205	402,277	131,774,726	2,073,945,915
2078	2,073,945,915	12,381,775	2,955,869	411,328	141,329,777	2,224,290,270
2079	2,224,290,270	12,687,006	2,714,467	420,583	151,571,164	2,385,413,390
2080	2,385,413,390	12,999,089	2,481,977	430,046	162,545,431	2,558,045,887
2081	2,558,045,887	13,318,195	2,259,281	439,722	174,302,235	2,742,967,315
2082	2,742,967,315	13,644,479	2,047,152	449,616	186,894,566	2,941,009,593
2083	2,941,009,593	13,978,104	1,846,246	459,732	200,378,978	3,153,060,697
2084	3,153,060,697	14,319,235	1,657,025	470,076	214,815,843	3,380,068,674
2085	3,380,068,674	14,668,047	1,479,808	480,653	230,269,622	3,623,045,881
2086	3,623,045,881	15,024,712	1,314,777	491,468	246,809,157	3,883,073,505
2087	3,883,073,505	15,389,405	1,161,940	502,526	264,507,972	4,161,306,415
2088	4,161,306,415	15,762,308	1,021,187	513,833	283,444,609	4,458,978,312
2089	4,458,978,312	16,143,607	892,305	525,394	303,702,972	4,777,407,192
2090	4,777,407,192	16,533,487	774,969	537,215	325,372,702	5,118,001,198
2091	5,118,001,198	16,932,140	668,775	549,302	348,549,573	5,482,264,833
2092	5,482,264,833	17,339,765	573,251	561,661	373,335,913	5,871,805,599
2093	5,871,805,599	17,756,563	487,867	574,298	399,841,056	6,288,341,053
2093	6,288,341,053	18,182,739	412,059	587,220	428,181,821	6,733,706,334
2094	6,733,706,334	18,618,503	345,225	600,432	458,483,026	7,209,862,206
2095	7,209,862,206	19,064,071	286,738	613,942	490,878,020	7,718,903,625
2090	7,718,903,625	19,519,661	235,970	627,756	525,509,317	8,263,068,877
2098	8,263,068,877	19,985,502	192,284	641,881	562,529,121	8,844,749,334
2098	8,844,749,334	20,461,822	155,045	656,323	602,100,083	9,466,499,871
2033	9,466,499,871	20,948,857	123,625	671,090	644,395,963	10,131,049,977
2100	10,131,049,977	21,446,849	97,401	686,190	689,602,395	10,841,315,630
2101	10,841,315,630	21,956,045	75,773	701,629	737,917,695	11,600,411,968
2102	11,600,411,968	22,476,697	58,160	717,416	789,553,718	12,411,666,807
2103	12,411,666,807	23,009,064	44,010	733,558	844,736,783	13,278,635,087
2104	13,278,635,087	23,553,408				
2105		24,110,000	32,806	750,063 766,939	903,708,652	14,205,114,278
2100	14,205,114,278		24,071		966,727,578	15,195,160,846
2107	15,195,160,846	24,679,116	17,373	784,195	1,034,069,423	16,253,107,818
	16,253,107,818	25,261,038	12,326	801,839	1,106,028,856	17,383,583,546
2109	17,383,583,546	25,856,052	8,592	819,880	1,182,920,625	18,591,531,752
2110	18,591,531,752	26,464,455	5,883	838,327	1,265,080,922	19,882,232,920
2111	19,882,232,920	27,086,547	3,956	857,189	1,352,868,838	21,261,327,160
2112	21,261,327,160	27,722,637	2,614	876,476	1,446,667,918	22,734,838,625
2113	22,734,838,625	28,373,038	1,700	896,197	1,546,887,819	24,309,201,585
2114	24,309,201,585	29,038,073	1,089	916,361	1,653,966,085	25,991,288,293
2115	25,991,288,293	29,718,072	690	936,979	1,768,370,045	27,788,438,742
2116	27,788,438,742	30,413,371	433	958,061	1,890,598,831	29,708,492,451
2117	29,708,492,451	31,124,315	270	979,617	2,021,185,542	31,759,822,420
2118	31,759,822,420	31,851,254	168	1,001,658	2,160,699,556	33,951,371,404
2119	33,951,371,404	32,594,550	105	1,024,195	2,309,748,992	36,292,690,646
2120	36,292,690,646	33,354,570	66	1,047,239	2,468,983,346	38,793,981,258
2121	38,793,981,258	34,131,691	41	1,070,802	2,639,096,309	41,466,138,414
2122	41,466,138,414	34,926,297	25	1,094,895	2,820,828,762	44,320,798,553
2123	44,320,798,553	35,738,781	18	1,119,530	3,014,971,998	47,370,389,785



#### 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	\$ 117,524,714				\$ 7,601,513		\$ 7,601,513
2025	126,128,814	8,446,644	8,446,644	0	7,652,922	0	7,652,922
2026	130,443,479	8,708,423	8,708,423	0	7,387,736	0	7,387,736
2027	134,750,684	8,919,424	8,919,424	0	7,084,960	0	7,084,960
2028	139,117,198	9,111,843	9,111,843	0	6,776,971	0	6,776,971
2029	143,569,890	9,299,698	9,299,698	0	6,476,300	0	6,476,300
2030	148,130,841	9,466,619	9,466,619	0	6,172,794	0	6,172,794
2031	152,843,247	9,628,644	9,628,644	0	5,878,692	0	5,878,692
2032	157,733,726	9,774,221	9,774,221	0	5,587,616	0	5,587,616
2033	162,838,173	9,893,480	9,893,480	0	5,295,685	0	5,295,685
2034	168,211,533	10,002,966	10,002,966	0	5,013,380	0	5,013,380
2035	173,885,667	10,075,072	10,075,072	0	4,728,014	0	4,728,014
2036	179,928,753	10,126,015	10,126,015	0	4,449,363	0	4,449,363
2037	186,395,514	10,202,668	10,202,668	0	4,197,607	0	4,197,607
2038	193,293,291	10,275,945	10,275,945	0	3,958,572	0	3,958,572
2039	200,657,397	10,328,903	10,328,903	0	3,725,631	0	3,725,631
2040	208,548,472	10,361,833	10,361,833	0	3,499,540	0	3,499,540
2041	217,026,411	10,398,503	10,398,503	0	3,288,319	0	3,288,319
2042	226,134,069	10,440,706	10,440,706	0	3,091,446	0	3,091,446
2043	235,910,454	10,477,584	10,477,584	0	2,904,837	0	2,904,837
2044	246,411,364	10,471,936	10,471,936	0	2,718,419	0	2,718,419
2045	257,736,089	10,425,936	10,425,936	0	2,534,155	0	2,534,155
2046	269,992,396	10,366,857	10,366,857	0	2,359,358	0	2,359,358
2047	283,261,703	10,274,433	10,274,433	0	2,189,442	0	2,189,442
2048	297,653,736	10,157,968	10,157,968	0	2,026,801	0	2,026,801
2049	313,278,751	10,047,893	10,047,893	0	1,877,189	0	1,877,189
2050	330,215,968	9,906,337	9,906,337	0	1,732,906	0	1,732,906
2051	348,593,670	9,738,385	9,738,385	0	1,595,062	0	1,595,062
2052	368,544,327	9,566,772	9,566,772	0	1,467,184	0	1,467,184
2053	390,183,443	9,381,743	9,381,743	0	1,347,198	0	1,347,198
2054	413,645,025	9,187,505	9,187,505	0	1,235,306	0	1,235,306
2055	439,067,908	8,976,268	8,976,268	0	1,130,060	0	1,130,060
2056	466,608,936	8,750,088	8,750,088	0	1,031,446	0	1,031,446
2057	496,433,271	8,520,379	8,520,379	0	940,420	0	940,420
2058	528,705,321	8,284,641	8,284,641	0	856,181	0	856,181
2059	563,602,590	8,039,696	8,039,696	0	777,965	0	777,965
2060	601,318,098	7,787,272	7,787,272	0	705,561	0	705,561
2061	642,056,351	7,528,350	7,528,350	0	638,672	0	638,672
2062	686,035,058	7,270,072	7,270,072	0	577,491	0	577,491
2063	733,478,784	7,012,303	7,012,303	0	521,550	0	521,550
2064	784,627,111	6,747,778	6,747,778	0	469,921	0	469,921
2065	839,744,180	6,476,908	6,476,908	0	422,339	0	422,339
2066	899,111,971	6,201,522	6,201,522	0	378,634	0	378,634
2067	963,029,492	5,922,827	5,922,827	0	338,594	0	338,594
2068	1,031,815,069	5,643,781	5,643,781	0	302,099	0	302,099
2069	1,105,805,482	5,364,883	5,364,883	0	268,886	0	268,886
2070	1,185,360,041	5,086,515	5,086,515	0	238,703	0	238,703
2071	1,270,862,158	4,809,079	4,809,079	0	211,314	0	211,314
2072	1,362,721,029	4,533,571	4,533,571	0	186,524	0	186,524
2073	1,461,372,722	4,260,479	4,260,479	0	164,128	0	164,128

Wyoming Volunteer Firefighter, EMT, and Search and Rescue Pension Plan 39



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

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)
2074	\$ 1,567,282,533	\$ 3,990,097	\$ 3,990,097	\$ 0	\$ 143,925		\$ 143,925
2075	1,680,947,274	3,723,430	3,723,430	0	125,755	0	125,755
2076	1,802,896,642	3,461,461	3,461,461	0	109,463	0	109,463
2077	1,933,695,422	3,205,205	3,205,205	0	94,906	0	94,906
2078	2,073,945,915	2,955,869	2,955,869	0	81,951	0	81,951
2079	2,224,290,270	2,714,467	2,714,467	0	70,466	0	70,466
2080	2,385,413,390	2,481,977	2,481,977	0	60,328	0	60,328
2081	2,558,045,887	2,259,281	2,259,281	0	51,419	0	51,419
2082	2,742,967,315	2,047,152	2,047,152	0	43,625	0	43,625
2083	2,941,009,593	1,846,246	1,846,246	0	36,838	0	36,838
2084	3,153,060,697	1,657,025	1,657,025	0	30,958	0	30,958
2085	3,380,068,674	1,479,808	1,479,808	0	25,887	0	25,887
2086	3,623,045,881	1,314,777	1,314,777	0	21,535	0	21,535
2087	3,883,073,505	1,161,940	1,161,940	0	17,820	0	17,820
2088	4,161,306,415	1,021,187	1,021,187	0	14,664	0	14,664
2089	4,458,978,312	892,305	892,305	0	11,998	0	11,998
2090	4,777,407,192	774,969	774,969	0	9,757	0	9,757
2091	5,118,001,198	668,775	668,775	0	7,884	0	7,884
2092	5,482,264,833	573,251	573,251	0	6,327	0	6,327
2093	5,871,805,599	487,867	487,867	0	5,042	0	5,042
2094	6,288,341,053	412,059	412,059	0	3,987	0	3,987
2095	6,733,706,334	345,225	345,225	0	,	0	3,128
2096	7,209,862,206	286,738	286,738	0	2,433	0	2,433
2097	7,718,903,625	235,970	235,970	0		0	1,874
2098	8,263,068,877	192,284	192,284	0	1,430	0	1,430
2099	8,844,749,334	155,045	155,045	0	1,080	0	1,080
2100	9,466,499,871	123,625	123,625	0	806	0	806
2101	10,131,049,977	97,401	97,401	0	595	0	595
2102	10,841,315,630	75,773	75,773	0		0	433
2103	11,600,411,968	58,160	58,160	0	311	0	311
2104	12,411,666,807	44,010	44,010	0		0	221
2105	13,278,635,087	32,806	32,806	0		0	154
2106	14,205,114,278	24,071	24,071	0		0	106
2107	15,195,160,846	17,373	17,373	0	71	0	71
2108	16,253,107,818	12,326	12,326	0	47	0	47
2109 2110	17,383,583,546 18,591,531,752	8,592 5,883	8,592 5,883	0	31 20	0	31 20
2110	19,882,232,920	3,956	3,956	0	13	0	13
2111 2112		2,614	2,614	0	13	0	13
2112	21,261,327,160 22,734,838,625	1,700	1,700	0		0	5
2113	24,309,201,585	1,089	1,089	0		0	3
2114	25,991,288,293	690	690	0		0	2
2115	27,788,438,742	433	433	0	1	0	1
2110	29,708,492,451	270	270	0	1	0	1
2117	31,759,822,420	168	168	0		0	0
2118	33,951,371,404	105	105	0	0	0	0
2119	36,292,690,646	66	66	0		0	0
2120	38,793,981,258	41	41	0	0	0	0
2121	41,466,138,414	25	25	0		0	0
2122	44,320,798,553	18	18	0		0	0
-	,			Totals	\$ 137,002,712		\$ 137,002,712



**SECTION H** 

**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	<ul> <li>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:</li> <li>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</li> <li>2. The present value of the benefit payments not in (1) above, discounted using the municipal bond rate.</li> </ul>
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 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 post- employment 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	<ol> <li>The total pension expense is the sum of the following items that are recognized at the end of the employer's fiscal year:</li> <li>Service Cost</li> <li>Interest on the Total Pension Liability</li> <li>Current-Period Benefit Changes</li> <li>Employee Contributions (made negative for addition here)</li> <li>Projected Earnings on Plan Investments (made negative for addition here)</li> <li>Pension Plan Administrative Expense</li> <li>Other Changes in Plan Fiduciary Net Position</li> <li>Recognition of Outflow (Inflow) of Resources due to Liabilities</li> <li>Recognition of Outflow (Inflow) of Resources due to Assets</li> </ol>			
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.			

