# City of Sunrise Police Officers' Retirement System

ACTUARIAL VALUATION REPORT AS OF OCTOBER 1, 2023

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2025







May 23, 2024

Board of Trustees City of Sunrise Police Officers' Retirement System Sunrise, Florida

Dear Board Members:

The results of the October 1, 2023 Annual Actuarial Valuation of the City of Sunrise Police Officers' Retirement System are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the System only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The purposes of the valuation are to measure the System's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2025, and to determine the actuarial information for GASB Statement No. 67 for the fiscal year ending September 30, 2023. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section B of this report. This report includes risk metrics on page 5 but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data or other information through September 30, 2023. The valuation was based upon information furnished by the Plan Administrator concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal 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 the Plan Administrator.

This report was prepared using certain assumptions approved by the Board as authorized under Florida Statutes and prescribed by the Florida Statutes as described in the section of this report entitled Actuarial Assumptions and Cost Method. The investment return assumption was prescribed by the Board and the assumed mortality rates detailed in the Actuarial Assumptions and Methods section were prescribed by Chapter 112.63, Florida Statutes. All actuarial assumptions used in this report are reasonable for purposes of this valuation. The combined effect of the assumptions, excluding prescribed assumptions or methods set by law, is expected to have no significant bias (i.e. not significantly optimistic or pessimistic).

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 Retirement System as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

Jeffrey Amrose and Trisha Amrose are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein.

The signing actuaries are independent of the plan sponsor.

This actuarial valuation and/or cost determination was prepared and completed by us or under our direct supervision, and we acknowledge responsibility for the results. To the best of our knowledge, the results are complete and accurate. In our opinion, the techniques and assumptions used are reasonable, meet the requirements and intent of Part VII, Chapter 112, Florida Statutes, and are based on generally accepted actuarial principles and practices. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Gabriel, Roeder, Smith & Company will be pleased to review this valuation and Report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted, GABRIEL, ROEDER, SMITH & COMPANY

Jeffrey Amrose, MAAA

Jeffrey Amrose, MAAA Enrolled Actuary No. 23-6599 Senior Consultant & Actuary

By: Trista amose

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**SECTION A** 

**DISCUSSION OF VALUATION RESULTS** 

# **DISCUSSION OF VALUATION RESULTS**

# **Comparison of Required Employer Contributions**

	For FYE 9/30/2025 Based on 10/1/2023 Valuation		For FYE 9/30/2024 Based on 10/1/2022 Valuation		Increase (Decrease)			
Required Contribution As % of Contr. Year Payroll	\$	15,876,642 110.97	%	\$	13,511,793 93.29	%	\$ 2,364,849 17.68	%
Estimated State Contribution As % of Contr. Year Payroll		1,077,893 7.53	%		1,077,893 7.44	* %	0 0.09	%
Net Employer Contribution if Paid Biweekly As % of Contr. Year Payroll		14,798,749 103.44	%		12,433,900 85.85	%	2,364,849 17.59	%
Net Employer Contribution if Paid on First Day of Fiscal Year As % of Contr. Year Payroll		14,280,830 99.82	%		11,974,769 82.68	%	2,306,061 17.14	%

The required employer contribution this year compared with the preceding year is as follows:

\* Updated from the prior year valuation report to reflect the state contribution received for the fiscal year ending September 30, 2023.

# Required Contribution Expressed as a Percentage of Payroll Including DROP Members

The following table shows the required contribution developed in this valuation as a percentage of payroll including the salaries of members who are participating in the DROP as of October 1, 2023.

	2023 Valuation	2022 Valuation
Required Contribution	70.15 %	56.30 %
Estimated State Contribution	4.76 %	4.49 %
Net Employer Contribution	65.39 %	51.81 %



# **Payment of Required Contribution**

The contribution developed in this valuation has been calculated as though payments are made at the end of each biweekly pay period. Also shown is the required amount if the full contribution for the fiscal year ending September 30, 2025 is paid on October 1, 2024.

Further, the required Employer contribution has been computed with the assumption that the amount to be received from the State in 2024 and 2025 will be equal to the amount received in 2022 of \$1,077,893. If the actual payment from the State falls below this amount, then the Employer must increase its contribution by the difference.

Actual contributions for the last year were \$10,661,348 from the City plus \$1,077,893 of annual State revenue, for a total of \$11,739,241. The total annual required contribution was \$11,739,241 reflecting an expedited payment schedule.

## **Revisions in Benefits**

Under Ordinance No. 124-X-23-A, adopted on November 14, 2023, the following plan changes were made:

For members hired or rehired on or after September 30, 2015, the normal retirement eligibility has been changed to the earlier of age 55 with 10 years of service or 25 years of service regardless of age (previously, the earlier of age 55 with 10 years of service or age 52 with 25 years of service). In addition, the employee contribution rate for members hired or rehired on or after September 30, 2015 has increased from 8.0% to 8.5% of salary.

These plan changes increased the required contribution by approximately \$19,000 or 0.13% of payroll.

## **Revisions in Actuarial Assumptions and Methods**

The following assumption changes were made:

- The investment return assumption has been lowered from 7.00% to 6.72% effective October 1, 2023. The rate will be lowered to 6.55% as of October 1, 2024 and to 6.50% as of October 1, 2025.
- Retirement rates were updated based on a recent experience study.
- The amortization of the unfunded actuarial accrued liability was changed to use a level dollar method from the previous percentage of payroll method (which would have been a 0.44% payroll growth assumption for this valuation).

These assumption changes increased the required contribution by approximately \$1,501,000 or 10.49% of payroll.



## **Actuarial Experience**

There was a net actuarial loss of \$7,467,538 since the last valuation which means that actual experience was less favorable than expected. The loss was primarily due to the recognized investment return being less than the assumed rate of 7.00%. The investment return was 7.9% based on market value of assets and 3.8% based on actuarial value of assets. The net loss caused the required contribution to increase by approximately \$680,000 or 4.75% of payroll.

## **Funded Ratio**

This year's funded ratio is 68.2% compared to 71.4% last year. The funded ratio before the changes in benefits and assumptions was 71.0%. The ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

# Analysis of Change in Employer Contribution

The components of change in the required Employer contribution assuming biweekly payments are as follows:

Contribution Rate Last Year	85.85 %
Experience (Gains) or Losses	4.75
Revision in Assumptions/Methods	10.49
Amortization Payment on UAAL	2.56
Normal Cost Rate	(0.42)
Administrative Expense	0.17
Benefit Changes	0.13
Change in State Contribution Rate	(0.09)
Contribution Rate This Year	103.44 %

# Variability of Future Contribution Rates

The Actuarial Cost Method used to determine the required contribution is intended to produce contribution rates which are generally level as a percent of payroll. Even so, when experience differs from the assumptions, as it often does, the employer's contribution rate can vary significantly from year-to-year. Over time, if the year-to-year gains and losses offset each other, the contribution rate would be expected to return to the current level, but this does not always happen.

The Actuarial Value of Assets exceeds the Market Value of Assets by \$21,376,737 as of the valuation date (see Section C). This difference will be gradually recognized in the absence of offsetting gains and losses. In turn, the computed employer contribution rate will increase by about 13.77% of covered payroll.



## **Relationship to Market Value**

If Market Value had been the basis for the valuation, the City contribution rate would have been 117.21% assuming biweekly payments and the funded ratio would have been 61.0%. In the absence of other gains and losses, the City contribution rate should decrease to that level over the next several years.

# Conclusion

It is important to note that the funded ratio has dropped from over 85% in 2004 to the current level of 68.2%. Some steps have been taken to address these issues, such as strengthening the actuarial assumptions and shortening the amortization period. For each additional \$5 million contributed, the funded ratio will increase by 1.7%.

The remainder of this Report includes detailed actuarial valuation results, information relating to the pension fund, financial accounting information, miscellaneous employee data and a summary of plan provisions.



# RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION

The determination of the accrued liability and the actuarially determined contribution requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

- 1. Investment risk actual investment returns may differ from the expected returns;
- Contribution risk actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
- 3. Salary and Payroll risk actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- 4. Longevity risk members may live longer or shorter than expected and receive pensions for a period of time other than assumed;
- 5. Other demographic risks members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with the Board's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.



#### PLAN MATURITY MEASURES

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

	<u>2023</u>	<u>2022</u>
Ratio of the market value of assets to payroll	12.96	11.94
Ratio of actuarial accrued liability to payroll	21.26	19.50
Ratio of actives to retirees and beneficiaries	0.6	0.6
Ratio of net cash flow to market value of assets	-1.08 %	1.93 %

#### **RATIO OF MARKET VALUE OF ASSETS TO PAYROLL**

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

#### RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 2.5 times the payroll, a change in liability 2% other than assumed would equal 5% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

#### **RATIO OF ACTIVES TO RETIREES AND BENEFICIARIES**

A young plan with many active members and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

#### RATIO OF NET CASH FLOW TO MARKET VALUE OF ASSETS

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.



#### ADDITIONAL RISK ASSESSMENT

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability.



City of Sunrise Police Officers' Retirement System 7

#### LOW-DEFAULT-RISK OBLIGATION MEASURE

Actuarial Standards of Practice No. 4 (ASOP No. 4) was revised and reissued in December 2021 by the Actuarial Standards Board (ASB). It includes a new calculation called a low-default-risk obligation measure (LDROM) to be prepared and issued annually for defined benefit pension plans. The transmittal memorandum for ASOP No. 4 includes the following explanation:

"The ASB believes that the calculation and disclosure of this measure provides appropriate, useful information for the intended user regarding the funded status of a pension plan. The calculation and disclosure of this additional measure is not intended to suggest that this is the "right" liability measure for a pension plan. However, the ASB does believe that this additional disclosure provides a more complete assessment of a plan's funded status and provides additional information regarding the security of benefits that members have earned as of the measurement date."

The following information has been prepared in compliance with this new requirement. Unless otherwise noted, the measurement date, actuarial cost methods, and assumptions used are the same as for the funding valuation covered in this actuarial valuation report.

A. Low-default-risk Obligation Measure of benefits earned as of the measurement date: \$395,675,936

B. Discount rate used to calculate the LDROM: <u>4.63% based on Fidelity's "20-Year Municipal GO AA</u> Index" as of September 29, 2023

C. Other significant assumptions that differ from those used for the funding valuation: none

D. Actuarial cost method used to calculate the LDROM: Individual Entry-Age Actuarial Cost Method

E. Valuation procedures to value any significant plan provisions that are difficult to measure using traditional valuation procedures, and that differ from the procedures used in the funding valuation: <u>none</u>

F. Commentary to help the intended user understand the significance of the LDROM with respect to the funded status of the plan, plan contributions, and the security of participant benefits: <u>The LDROM is a market-based measurement of the pension obligation</u>. It estimates the amount the plan would need to invest in low risk securities to provide the benefits with greater certainty. This measure may not be appropriate for assessing the need for or amount of future contributions. This measure may not be appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligation.

The difference between the two measures (Valuation and LDROM) is one illustration of the savings the sponsor anticipates by taking on the risk in a diversified portfolio.



# **CHAPTER REVENUE**

Under the most recent collective bargaining agreement, the City and Union have reached mutual consent regarding the treatment of Chapter 185 revenue. Based on this, the City may use the full amount of the Chapter 185 revenue, up to \$2,137,895, as an offset to the required contribution.

Actuarial Confirmation of the Use of State Chapter Money						
1. Base Amount Previous Plan Year	\$ 919,969					
2. Amount Received for Previous Plan Year	1,077,893					
3. Benefit Improvements	0					
4. Excess Funds for Previous Plan Year	0					
5. Accumulated Excess at Beginning of Previous Year	0					
6. Prior Excess Used in Previous Plan Year	0					
<ol> <li>Accumulated Excess as of Valuation Date (Available for Benefit Improvements): (4) + (5) - (6)</li> </ol>	0					
8. Base Amount This Plan Year	1,077,893					

The Accumulated Excess shown in line 7 is being held in reserve and is subtracted from Plan assets (see Section C of this Report). The Base Amount in line 8 is the amount the employer may take as a credit against its required contribution; however, in no event may the employer take credit for more than the actual amount of Chapter revenue received.



**SECTION B** 

VALUATION RESULTS

PARTICIPANT DATA							
October 1, 2023 October 1, 2022							
ACTIVE MEMBERS							
Number of non-DROP members		125		127			
Number of DROP members		47		55			
Covered Annual Non-DROP Payroll	\$	13,890,435	\$	14,061,792			
Average Annual Non-DROP Salary	Ś	111,123	\$	110,723			
Total Payroll Including DROP Members	\$ \$	22,213,900	\$	23,578,413			
Average Age (Non-DROP Members)		36.7		36.5			
Average Past Service (Non-DROP Members)		9.4		9.1			
Average Age at Hire (Non-DROP Members)		27.3		27.4			
RETIREES, BENEFICIARIES & DROP							
Number		195		194			
Annual Benefits*	\$	13,950,982	\$	13,387,287			
Average Annual Benefit	\$	71,543	Ş	69,007			
Average Age	Ŷ	61.0		60.4			
DISABILITY RETIREES							
Number		12		12			
Annual Benefits	\$	685,873	\$	633,760			
Average Annual Benefit	\$	57,156	\$	52,813			
Average Age		56.2		56.2			
TERMINATED VESTED MEMBERS							
Number		0		0			
Annual Benefits	¢	0	\$	0			
Average Annual Benefit	\$ \$	0	\$	0			
Average Age	Ļ	0.0	ر ب	0.0			

\* Does not include deferred supplemental benefits for DROP members.



ACTUARIALLY DETERMINED CONTRIBUTION (ADC)							
A. Valuation Date	October 1, 2023 After Assumption & Benefit Changes	October 1, 2023 After Benefit Changes	October 1, 2023 Before Changes	October 1, 2022			
B. ADC to Be Paid During Fiscal Year Ending	9/30/2025	9/30/2025	9/30/2025	9/30/2024			
C. Assumed Dates of Employer Contributions	Biweekly	Biweekly	Biweekly	Biweekly			
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 11,437,701	\$ 10,350,798	\$ 10,340,737	\$ 9,473,989			
E. Employer Normal Cost	3,473,038	3,132,523	3,125,110	3,198,508			
F. ADC if Paid on the Valuation Date: D+E	14,910,739	13,483,321	13,465,847	12,672,497			
G. ADC Adjusted for Frequency of Payments	15,414,722	13,957,395	13,939,306	13,118,062			
H. ADC as % of Covered Payroll	110.97 %	100.48 %	100.35 %	93.29 %			
I. Assumed Rate of Increase in Covered Payroll to Contribution Year	3.00 %	3.00 %	3.00 %	3.00 %			
J. Covered Payroll for Contribution Year	14,307,148	14,307,148	14,307,148	14,483,646			
K. ADC for Contribution Year: H x J	15,876,642	14,375,822	14,357,223	13,511,793			
L. Estimated Credit for State Revenue in Contribution Year	1,077,893	1,077,893	1,077,893	1,077,893			
M. Required Employer Contribution (REC) in Contribution Year	14,798,749	13,297,929	13,279,330	12,433,900			
N. REC as % of Covered Payroll in Contribution Year: M/J	103.44 %	92.95 %	92.82 %	85.85 %			
O. REC (Line M) as % of Total Payroll Including DROP Members	65.39 %	58.76 %	58.68 %	51.81 %			
P. REC if Paid on First Day of Next Fiscal Year	14,280,830	12,810,056	12,791,456	11,974,769			
Q. REC as % of Covered Payroll if Paid on First Day of Next Fiscal Year	99.82 %	89.54 %	89.41 %	82.68 %			



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	ACTUARIAL VALUE OF BENEFITS AND ASSETS						
А.	Valuation Date	October 1, 2023 After Assumption & Benefit Changes	October 1, 2023 After Benefit Changes	October 1, 2023 Before Changes	October 1, 2022		
В.	Actuarial Present Value of All Projected Benefits for 1. Active Members	, ,	5				
	a. Service Retirement Benefits b. Vesting Benefits	\$ 92,892,177 4,036,104	\$ 87,099,829 3,734,221	\$ 86,766,715 3,778,501	\$ 87,590,377 3,795,188		
	c. Disability Benefits d. Preretirement Death Benefits e. Return of Member Contributions	4,178,676 820,219 440,196	4,239,866 824,341 437,304	4,386,428 845,099 427,216	4,385,287 867,871 <u>473,289</u>		
	<ul><li>f. Total</li><li>2. Inactive Members</li></ul>	102,367,372	96,335,561	96,203,959	97,112,012		
	a. Service Retirees & Beneficiaries b. Disability Retirees c. Terminated Vested Members	219,371,904 8,528,944 	212,279,016 8,283,434 	212,279,016 8,283,434 -	203,621,337 7,902,111 		
	d. Total	227,900,848	220,562,450	220,562,450	211,523,448		
	3. Total for All Members	330,268,220	316,898,011	316,766,409	308,635,460		
	Actuarial Accrued (Past Service) Liability under Entry Age Normal	295,292,084	283,660,785	283,542,980	274,186,579		
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	281,579,171	270,005,302	269,906,491	260,271,746		
E.	Plan Assets 1. Market Value 2. Actuarial Value	179,992,859 201,369,596	179,992,859 201,369,596	179,992,859 201,369,596	167,943,074 195,892,009		
F.	Unfunded Actuarial Accrued Liability	93,922,488	82,291,189	82,173,384	78,294,570		
G.	Actuarial Present Value of Projected Covered Payroll	118,125,499	120,052,856	122,081,862	123,919,885		
Н.	Actuarial Present Value of Projected Member Contributions	10,829,894	11,035,988	10,908,304	11,170,854		
١.	Accumulated Contributions of Active Members	10,470,373	10,470,373	10,470,373	10,224,685		



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CALCULATION OF EMPLOYER NORMAL COST							
A. Valuation Date B. Normal Cost for	October 1, 2023 After Assumption & Benefit Changes	October 1, 2023 After Benefit Changes	October 1, 2023 Before Changes	October 1, 2022			
<ol> <li>Service Retirement Benefits</li> <li>Vesting Benefits</li> <li>Disability Benefits</li> <li>Preretirement Death Benefits</li> <li>Return of Member Contributions</li> <li>Total for Future Benefits</li> <li>Assumed Amount for Administrative Expenses</li> <li>Total Normal Cost</li> <li>Expected Member Contribution</li> <li>Employer Normal Cost: B8-C</li> </ol>	\$ 3,687,942 273,175 333,741 75,694 <u>107,732</u> 4,478,284 <u>301,201</u> 4,779,485 1,306,447 3,473,038	\$ 3,379,976 249,615 327,538 73,192 <u>107,448</u> 4,137,769 <u>301,201</u> 4,438,970 1,306,447 3,132,523	\$ 3,345,750 249,729 333,450 73,969 104,931 4,107,829 <u>301,201</u> 4,409,030 1,283,920 3,125,110	\$ 3,448,312 251,670 340,544 77,320 106,510 4,224,356 <u>282,126</u> 4,506,482 1,307,974 3,198,508			
E. Employer Normal Cost as a % of Covered Payroll	25.00%	22.55%	22.50%	22.75%			



A. UAAL AMORTIZATION PERIOD AND PAYMENTS									
Original UAAL			Current UAAL						
Date Established	Amortization Period (Years)	Amount	Years Remaining	Amount	Payment After All Changes	Payment After Plan Change	Payment Before Changes		
10/1/2003	30	\$ (1,528,469)	10	\$ (1,559,497)	\$ (205,371)	\$ (203,932)	\$ (203,932)		
10/1/2005	30	7,739,078	12	8,189,904	951,829	943,872	943,872		
10/1/2006	30	736,681	13	771,178	85,095	84,328	84,328		
10/1/2008	30	1,493,880	15	1,604,571	162,172	160,510	160,510		
10/1/2009	20	29,172,763	6	18,578,385	3,620,726	3,605,930	3,605,930		
10/1/2010	20	912,239	7	629,236	108,339	107,814	107,814		
10/1/2010	20	2,344,741	7	1,617,331	278,465	277,116	277,116		
10/1/2010	20	(773,531)	7	(533,558)	(91,866)	(91,421)	(91,421)		
10/1/2011	20	3,495,369	8	2,584,576	401,188	398,947	398,947		
10/1/2011	20	2,623,230	8	1,939,690	301,087	299,405	299,405		
10/1/2012	20	247,206	9	191,681	27,240	27,069	27,069		
10/1/2012	20	2,912,111	9	2,258,008	320,893	318,869	318,869		
10/1/2013	20	(1,666,097)	10	(1,347,451)	(177,447)	(176,203)	(176,203)		
10/1/2013	20	3,211,480	10	2,597,281	342,038	339,640	339,640		
10/1/2014	20	(1,812,870)	11	(1,523,523)		(186,288)	(186,288)		
10/1/2014	20	6,666,275	11	5,602,289	690,328	685,017	685,017		
10/1/2015	20	749,184	12	650,033	75,547	74,915	74,915		
10/1/2016	20	700,203	13	624,251	68,882	68,262	68,262		
10/1/2016	20	(1,161,687)	13	(1,035,675)		(113,251)	(113,251)		
10/1/2017	20	3,374,172	14	3,077,924	324,268	321,143	321,143		
10/1/2017	20	1,213,117	14	1,106,607	116,584	115,460	115,460		
10/1/2018	20	3,089,041	15	2,853,566	288,407	285,451	285,451		
10/1/2018	20	1,453,219	15	1,342,443	135,679	134,289	134,289		
10/1/2018	20	1,314,125	15	1,213,951	122,693	121,435	121,435		
10/1/2019	20	1,692,495	16	1,574,707	153,313	151,650	151,650		
10/1/2019	20	3,201,009	16	2,978,238	289,960	286,815	286,815		
10/1/2019	20	73,157	16	68,064	6,627	6,555	6,555		
10/1/2020	20	1,581,373	17	1,509,885	142,114	140,491	140,491		
10/1/2020	20	2,967,384	17	2,833,238	266,672	263,626	263,626		
10/1/2021	20	(2,665,896)	18	(2,587,651)		(233,368)	(233,368)		
10/1/2021	20	3,181,867	18	3,088,478	281,913	278,535	278,535		
10/1/2022	20	8,874,926	19	8,774,352	778,863	769,107	769,107		
10/1/2022	20	5,091,028	19	5,033,334	446,788	441,192	441,192		
10/1/2022	20	7,467,538	20	7,467,538	646,193	637,757	637,757		
10/1/2023	20	117,805	20	117,805	10,194	10,061	N/A		
10/1/2023	20	11,631,299	20	11,631,299	1,006,498	N/A	N/A		
, _, _0_0		\$ 117,201,928		\$ 93,922,488	\$ 11,437,701	\$ 10,350,798	\$ 10,340,737		



#### B. Amortization Schedule

The UAAL is being amortized as a level dollar payment over the number of years remaining in the amortization period. The following schedule illustrates the expected amortization of the UAAL:

Amortization Schedule						
Year	Expected UAAL					
2023	\$ 93,922,488					
2024	88,027,758					
2025	81,736,908					
2026	75,023,314					
2027	67,858,566					
2028	60,212,347					
2033	33,562,615					
2038	13,160,309					
2043	-					



# **ACTUARIAL GAINS AND LOSSES**

The assumptions used to anticipate mortality, employment turnover, investment income, expenses, salary increases, and other factors have been based on long range trends and expectations. Actual experience can vary from these expectations. The variance is measured by the gain and loss for the period involved. If significant long-term experience reveals consistent deviation from what has been expected and that deviation is expected to continue, the assumptions should be modified. The net actuarial gain (loss) for the past year is computed as follows:

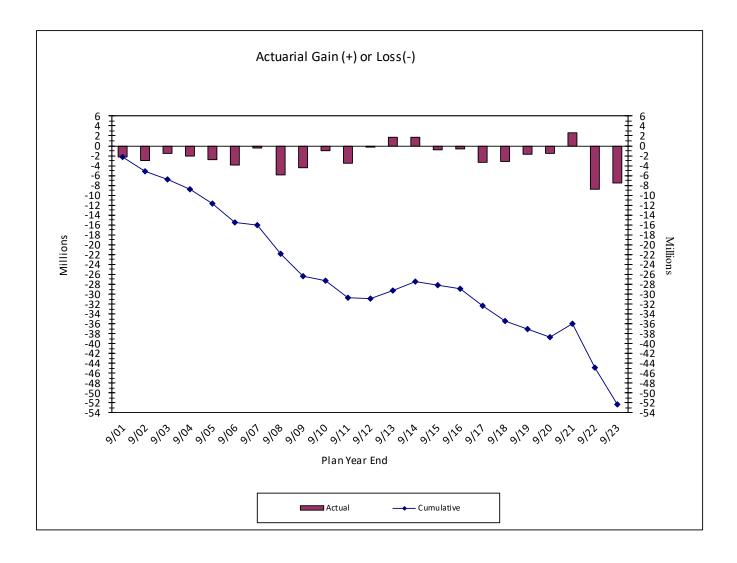
1. Last Year's UAAL	78,294,570
2. Last Year's Employer Normal Cost	3,198,508
3. Last Year's Contributions	11,739,241
4. Interest at the Assumed Rate on:	
<ul> <li>and 2 for one year</li> </ul>	5,704,515
b. 3 from dates paid	752,506
c. a-b	4,952,009
<ol> <li>This Year's Expected UAAL Prior to Revision: 1+2-3+4c</li> </ol>	74,705,846
6. Change in UAAL Due to Plan Amendments and/or Changes in Actuarial Assumptions	11,749,104
<ol> <li>This Year's Expected UAAL (after changes):</li> <li>5 + 6</li> </ol>	86,454,950
8. This Year's Actual UAAL (after changes)	93,922,488
9. Net Actuarial Gain/(Loss): 7 - 8	(7,467,538)
10. Gain/(Loss) Due to Investment	(6,880,323)
11. Gain/(Loss) Due to Other Sources	(587,215)



Net actuarial gains/(losses) in previous years have been as follows:

	Actuarial Gain /
Year Ending	(Loss)
9/92	300,204
9/93	349,769
9/94	(235,263)
9/96	2,828,948
9/97	274,306
9/98	1,198,126
9/99	1,434,197
9/00	1,589,573
9/01	(2,225,048)
9/02	(2,912,478)
9/03	(1,617,825)
9/04	(2,097,257)
9/05	(2,791,395)
9/06	(3,884,844)
9/07	(445,973)
9/08	(5,873,241)
9/09	(4,445,762)
9/10	(912,239)
9/11	(3,495,369)
9/12	(247,206)
9/13	1,666,097
9/14	1,812,870
9/15	(749,184)
9/16	(700,203)
9/17	(3,374,172)
9/18	(3,089,041)
9/19	(1,692,495)
9/20	(1,581,373)
9/21	2,665,896
9/22	(8,874,926)
9/23	(7,467,538)







13<sup>th</sup> and/or 14<sup>th</sup> Checks are payable during years which there is a net actuarial gain and cumulative actuarial gains since October 1, 2000. The table below shows the net actuarial gains/(losses) since October 1, 2000:

	Actuarial Gain /	Cumulative Gain /
Year Ending	(Loss)	(Loss)
9/01	(2,225,048)	(2,225,048)
9/02	(2,912,478)	(5,137,526)
9/03	(1,617,825)	(6,755,351)
9/04	(2,097,257)	(8,852,608)
9/05	(2,791,395)	(11,644,003)
9/06	(3,884,844)	(15,528,847)
9/07	(445,973)	(15,974,820)
9/08	(5,873,241)	(21,848,061)
9/09	(4,445,762)	(26,293,824)
9/10	(912,239)	(27,206,063)
9/11	(3,495,369)	(30,701,432)
9/12	(247,206)	(30,948,638)
9/13	1,666,097	(29,282,541)
9/14	1,812,870	(27,469,671)
9/15	(749,184)	(28,218,855)
9/16	(700,203)	(28,919,058)
9/17	(3,374,172)	(32,293,230)
9/18	(3,089,041)	(35,382,271)
9/19	(1,692,495)	(37,074,766)
9/20	(1,581,373)	(38,656,139)
9/21	2,665,896	(35,990,243)
9/22	(8,847,926)	(44,865,169)
9/23	(7,467,538)	(52,332,707)



The fund earnings and salary increase assumptions have considerable impact on the cost of the plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

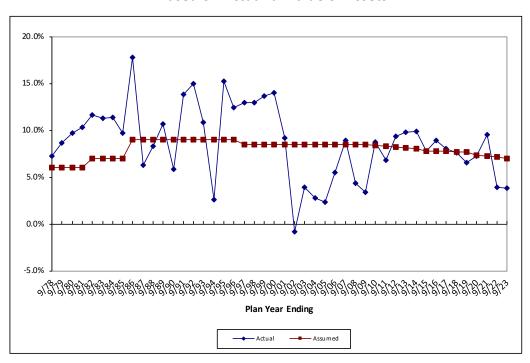
	Investment	Return	Salary Increases		
	investment	Return	Salary IIC	eases	
Year Ending	Actual*	Assumed	Actual	Assumed	
9/30/1978	7.2 %	6.0 %			
9/30/1979	8.6	6.0			
9/30/1980	9.7	6.0			
9/30/1981	10.3	6.0			
9/30/1982	11.6	7.0			
9/30/1983	11.3	7.0			
9/30/1984	11.4	7.0			
9/30/1985	9.7	7.0			
9/30/1986	17.8	9.0	(1.8) %	9.0 %	
9/30/1987	6.3	9.0	16.1	9.0	
9/30/1988	8.3	9.0	24.6	9.0	
9/30/1989	10.7	9.0	0.5	9.0	
9/30/1990	5.8	9.0	9.4	9.0	
9/30/1991	13.8	9.0	9.6	9.0	
9/30/1992	15.0	9.0	8.4	9.0	
9/30/1993	10.8	9.0	5.6	9.0	
9/30/1994	2.6	9.0	6.5	9.0	
9/30/1995	15.2	9.0	4.5	9.0	
9/30/1996	12.4	9.0	4.8	9.0	
9/30/1997	12.9	8.5	5.8	7.1	
9/30/1998	12.9	8.5	4.9	6.8	
9/30/1999	13.6	8.5	12.2 **	7.4	
9/30/2000	14.0	8.5	6.9	7.1	
9/30/2001	9.2	8.5	11.0	7.1	
9/30/2002	(0.8)	8.5	5.1	7.1	
9/30/2003	3.9	8.5	8.3	7.0	
9/30/2004	2.8	8.5	7.1	7.0	
9/30/2005	2.3	8.5	7.7	6.8	
9/30/2006	5.5	8.5	10.7	6.7	
9/30/2007	8.9	8.5	5.3	6.4	
9/30/2008	4.3	8.5	12.8	6.6	
9/30/2009	3.4	8.5	8.3	6.5	
9/30/2010	8.7	8.4	5.4	6.5	
9/30/2011	6.8	8.3	6.4	6.4	
9/30/2012	9.3	8.2	3.2	6.4	
9/30/2013	9.8	8.1	3.8	6.3	
9/30/2014	9.9	8.0	3.2	6.2	
9/30/2015	7.8	7.8	6.3	5.2	
9/30/2016	8.9	7.8	7.6	5.2	
9/30/2017	8.0	7.75	7.6	5.2	
9/30/2018	7.6	7.70	7.1	5.2	
9/30/2019	6.5	7.65	4.0	5.2	
9/30/2020	7.2	7.35	2.3	5.4	
9/30/2021	9.5	7.25	4.8	5.5	
9/30/2022	3.9	7.15	2.2	5.5	
9/30/2023	3.8	7.00	2.7	5.5	
Average	8.6 %		6.8 %		

\* Figures through 1989 reflect the entire fund before separation of plans.

\*\* Includes retroactive payments of salary increases per the collective bargaining agreement.

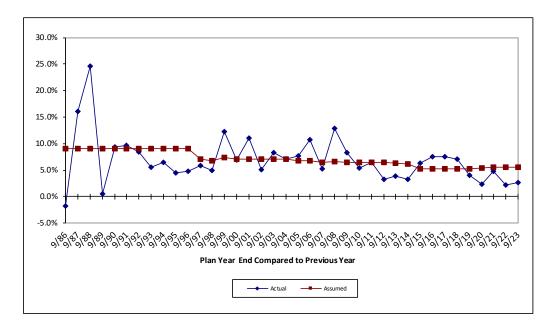


The actual investment return rates shown on the previous page are based on the actuarial value of assets. The actual salary increase rates shown on the previous page are the increases received by those active members who were included in the actuarial valuations both at the beginning and end of each period.



History of Investment Return Based on Actuarial Value of Assets

History of Salary Increases





Year	Nun Ada Dui Ye	ring	& D	vice ROP ement	Disab Retire	•		d In vice	T Vested	Termina Other	ations Tota	als	Active Members End of
Ended	Α	Е	Α	Ε	Α	E	Α	E	Α	Α	Α	Е	Year
9/30/2002 9/30/2003 9/30/2003 9/30/2005 9/30/2006 9/30/2007 9/30/2009 9/30/2010 9/30/2010 9/30/2011 9/30/2013 9/30/2013 9/30/2015 9/30/2015 9/30/2016 9/30/2017 9/30/2018 9/30/2020 9/30/2021 9/30/2021 9/30/2022 9/30/2023	15 9 6 17 15 11 5 0 4 12 3 12 8 12 8 12 8 15 11 8 4 8 8 4 8 8 8 8 8 8 8 9 6 6 7 7 15 9 6 7 7 15 11 5 9 6 7 8 12 8 12 8 12 8 12 8 12 8 12 8 12 8	16 6 5 11 21 11 12 8 12 7 12 7 2 3 9 6 12 7 2 3 9 6 12 10 26 13 13 10	5 1 0 1 10 4 9 5 11 6 8 4 1 5 5 10 4 22 11 11 4	3 3 1 4 3 2 1 2 2 1 2 2 1 3 4 5 8 4 9 6 5 4	0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 0 1 1 0 0 0 1 1 0 0 1 1 0 1 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 1 0 0 1 1 0 1 0 0 1 1 0 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 0 1	1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	10 4 5 9 10 6 3 2 1 0 3 0 2 1 2 5 4 0 1 5 5	11 4 5 10 11 6 3 1 0 3 1 0 3 0 2 2 1 2 6 4 1 2 6 4 1 5	6 6 5 5 5 5 5 4 4 4 4 4 4 5 5 4 4 4 4 5 4 4 4	159 162 163 158 154 158 157 154 142 139 135 145 150 153 155 158 159 141 132 127 125
9/30/2024 22 Yr Totals 2002 - 2023	197	232	138	1 75	9	0 10	1	0	6	78	84	4 104	

#### Number Added To and Removed from Active Participation



	RECENT HISTORY OF VALUATION RESULTS								
	Num	per of		Actuarial		Unfunded		Employer N	Normal Cost
Valuation	Active	Inactive	Covered	Value of	Accrued	Accrued	Funded		
Date	Members	Members	Annual Payroll	Assets	Liability	Liability	Ratio	Amount	% of Payroll
10/1/1993	136	20	\$6,267,523	\$16,851,657	\$18,823,880	\$1,972,223	89.5 %	\$627,218	10.01 %
10/1/1994	135	23	6,529,063	18,112,244	20,093,126	1,980,882	90.1	671,749	10.29
10/1/1996	132	30	6,613,181	24,322,087	26,135,593	1,813,506	93.1	475,798	7.19
10/1/1997	141	35	7,170,493	27,830,337	29,616,974	1,786,637	94.0	570,529	7.96
10/1/1998	153	36	7,837,902	31,671,180	32,769,924	1,098,744	96.6	471,685	6.02
10/1/1999	145	67	7,357,096	35,269,226	41,748,203	6,478,977	84.5	364,562	4.96
10/1/2000 1	143	68	7,770,678	37,512,699	45,644,494	8,131,795	82.2	305,271	3.93
10/1/2001	160	68	9,295,368	40,151,353	48,341,005	8,189,652	83.1	616,612	6.63
10/1/2002	159	72	9,383,281	39,137,722	47,650,933	8,513,211	82.1	966,444	10.30
10/1/2003 <sup>2</sup>	162	73	10,210,382	40,274,122	47,662,496	7,388,374	84.5	1,008,913	9.88
10/1/2004	163	73	10,894,352	41,494,126	48,949,314	7,455,188	84.8	1,328,531	12.19
10/1/2005	158	75	11,323,389	42,540,854	57,715,082	15,174,228	73.7	1,983,928	17.52
10/1/2006 <sup>3</sup>	154	86	11,686,231	45,227,418	61,786,401	16,558,983	73.2	2,556,952	21.88
10/1/2007	158	90	12,497,032	50,977,275	67,462,013	16,484,738	75.6	2,800,876	22.41
10/1/2008	157	97	13,475,617	54,724,468	72,562,321	17,837,853	75.4	3,738,725	27.74
10/1/2009	154	103	13,936,365	50,805,922	97,672,897	46,866,975	52.0	2,287,840	16.42
10/1/2010 4	142	112	13,027,405	57,735,928	107,600,348	49,864,420	53.7	2,265,775	17.39
10/1/2011	139	118	13,521,139	64,270,627	120,138,527	55,867,900	53.5	2,486,192	18.39
10/1/2012	139	127	13,359,510	72,267,056	131,526,358	59,259,302	54.9	2,609,560	19.53
10/1/2013	135	131	13,292,908	81,989,315	142,425,301	60,435,986	57.6	2,703,037	20.33
10/1/2013	155	151	13,232,300	01,505,515	142,423,301	00,433,500	57.0	2,703,037	20.55
10/1/2014	145	133	14,122,280	92,954,855	157,303,477	64,348,622	59.1	2,925,989	20.72
10/1/2015	150	133	15,202,411	103,842,431	167,636,562	63,794,131	61.9	3,146,299	20.70
10/1/2016 <sup>5</sup>	150	133	16,027,155	117,355,366	178,760,380	61,405,014	65.6	3,271,107	20.41
10/1/2017	155	144	17,307,895	131,075,199	194,787,079	63,711,880	67.3	3,555,123	20.54
10/1/2018	158	157	17,956,093	144,174,690	211,527,397	67,352,707	68.2	3,663,076	20.40
10/1/2010 6	150	100	10 221 010	457 265 240	226 026 54 4		60.2	2 002 275	24.72
10/1/2019 <sup>6</sup>	159	162	18,331,019	157,265,348	226,826,514	69,561,166	69.3	3,983,376	21.73
10/1/2020 10/1/2021	141 132	184 194	15,931,699	171,881,387 189,428,289	242,507,977	70,626,590	70.9 73.6	3,506,777	22.01 22.25
10/1/2021 10/1/2022	132	194 206	15,053,918 14,061,792	189,428,289 195,892,009	257,457,454 274,186,579	68,029,165 78,294,570	73.6 71.4	3,350,321 3,198,508	22.25
10/1/2023	125	207	13,890,435	201,369,596	295,292,084	93,922,488	68.2	3,473,038	25.00

1 From 6/30/2001 Actuarial Impact Statement

- 2 From 12/10/2004 Actuarial Impact Statement
- 3 From 1/10/2008 Actuarial Impact Statement
- 4 From 7/27/2011 Actuarial Impact Statement
- 5 From 9/6/2017 Actuarial Impact Statement
- 6 From 9/16/2020 Actuarial Impact Statement



	End of Year To		1	Required Cont	ributions					
	Which	Employer	& State	Estimated	d State	Net Emp	oloyer	Actu	al Contributi	ions
Valuation Date	Valuation Applies	Amount	% of Payroll	Amount	% of Payroll	Amount	% of Payroll	Employer	State	Total
10/1/1985	9/30/1986	\$407,519	13.22 %	\$103,616	3.36 %	\$303,903	9.86 %	\$387,854	\$124,762	\$512,616
10/1/1985	9/30/1987	407,519	13.22	103,616	3.36	303,903	9.86	358,170	152,810	510,980
10/1/1987	9/30/1988	385,876	12.07	152,810	4.78	233,066	7.29	280,715	172,641	453,356
10/1/1987	9/30/1989	385,876	12.07	152,810	4.78	233,066	7.29	307,860	184,331	492,191
10/1/1989	9/30/1990	615,410	13.73	184,331	4.11	431,079	9.62	426,236	198,379	624,615
10/1/1989	9/30/1991	615,410	13.73	184,331	4.11	431,079	9.62	480,918	205,525	686,443
10/1/1991	9/30/1992	730,550	13.74	205,525	3.87	525,025	9.88	533,717	215,510	749,227
10/1/1992	9/30/1993	796,196	13.63	215,510	3.69	580,686	9.94	580,815	222,772	803,587
10/1/1993	9/30/1994	814,782	13.00	222,772	3.55	592,010	9.45	588,409	235,414	823,823
10/1/1994	9/30/1995	828,505	12.69	226,212	3.46	602,293	9.22	580,795	257,223	838,018
10/1/1995 <sup>1</sup>	9/30/1996	860,550	12.69	257,223	3.79	603,327	9.22	597,981	281,695	879,676
10/1/1996	9/30/1997	623,056	9.42	281,695	4.26	341,361	5.16	343,282	311,098	654,380
10/1/1997	9/30/1998	723,467	10.09	311,098	4.34	412,369	5.75	413,775	307,312	721,087
10/1/1998	9/30/1999	573 <i>,</i> 363	7.32	307,312	3.92	266,051	3.40	277,685	295,625	573,310
10/1/1998	9/30/2000	1,010,905	13.33	307,312	4.05	703,593	9.28	746,594	264,311	1,010,905
10/1/1999	9/30/2001	916,278	11.85	295,625	3.82	620,653	8.03	652,379	280,803	933,182
10/1/2000 <sup>2</sup>	9/30/2002	1,000,716	12.30	264,311	3.25	736,405	9.05	700,913	307,312	1,008,225
10/1/2001	9/30/2003	1,317,632	13.63	307,312	3.18	1,010,320	10.45	1,019,184	307,312	1,326,496
10/1/2002	9/30/2004	1,539,895	15.78	307,312	3.15	1,232,583	12.63	1,252,491	307,312	1,559,803
10/1/2003 <sup>3</sup>	9/30/2005	1,694,795	15.96	352,973	3.32	1,341,822	12.64	1,341,822	352,973	1,694,795
10/1/2004	9/30/2006	2,017,275	17.81	352,973	3.12	1,664,302	14.69	1,664,302	352 <i>,</i> 973	2,017,275
10/1/2005 <sup>4</sup>	9/30/2007	3,483,437	29.58	512,973	4.36	2,630,010	22.33	2,630,010	559,679	3,530,143
10/1/2006 <sup>5</sup>	9/30/2008	4,227,050	34.78	559,679	4.60	3,507,371	28.86	3,452,721	567,623	4,180,344
10/1/2007	9/30/2009	4,547,620	34.99	559,679	4.31	3,987,941	30.68	3,968,694	578,926	4,547,620
10/1/2008	9/30/2010	5,705,361	40.71	552,722	3.94	5,152,639	36.77	5,152,639	552,722	5,705,361
10/1/2009	9/30/2011	6,462,794	44.59	552,722	3.81	5,910,072	40.78	5,954,543	508,251	6,462,794
10/1/2010 <sup>6</sup>	9/30/2012	6,542,571	48.29	527,188	3.89	6,015,383	44.40	6,015,383	527,188	6,542,571
10/1/2011	9/30/2013	7,431,759	52.85	568,388	4.04	6,863,371	48.81	6,863,371	568,388	7,431,759
10/1/2012	9/30/2014	8,093,191	58.25	568,388	4.09	7,524,803	54.16	7,472,477	620,714	
10/1/2013	9/30/2015	8,833,935	66.45	639,176	4.62	8,194,759	61.83	8,194,759	639,176	8,833,935
10/1/2014	9/30/2016	9,527,596	68.06	639,176	4.39	8,888,420	63.67	8,834,348	693,248	9,527,596
10/1/2015	9/30/2017	9,924,347	63.38	693,248	4.43	9,231,099	58.95	9,199,456	724,891	9,924,347
10/1/2016 <sup>7</sup>	9/30/2018	10,216,783	61.89	724,891	4.39	9,491,892	57.50	9,431,736	785,047	10,216,783
10/1/2017	9/30/2019	11,065,301	62.07	785,047	4.40	10,280,254	57.67	10,207,194	858,107	11,065,301
10/1/2018	9/30/2020	12,043,798	65.12	858,107	4.64	11,185,691	60.48	11,187,132	856,666	12,043,798
10/1/2019 <sup>8</sup>	9/30/2021	11,236,053	61.71	856,666	4.54	10,379,387	57.17	10,397,058	838,995	
10/1/2020	9/30/2022	11,399,784	69.47	838,995	5.11	10,560,789	64.36	10,479,815	919,969	11,399,784
10/1/2021	9/30/2023	11,739,241	78.43	919,969	5.93	11,241,023	72.50	10,661,348	1,077,893	11,739,24
10/1/2022	9/30/2024	13,511,793	93.29	1,077,893	7.44	12,433,900	85.85			
10/1/2023	9/30/2025	15,876,642	110.97	1,077,893	7.53	14,798,749				

 $^{\,1}$  Rates from 10/1/1994 Valuation were applied to 10/1/1995 payroll

<sup>2</sup> From 6/20/2001 Actuarial Impact Statement

<sup>3</sup> From 12/10/2004 Actuarial Impact Statement

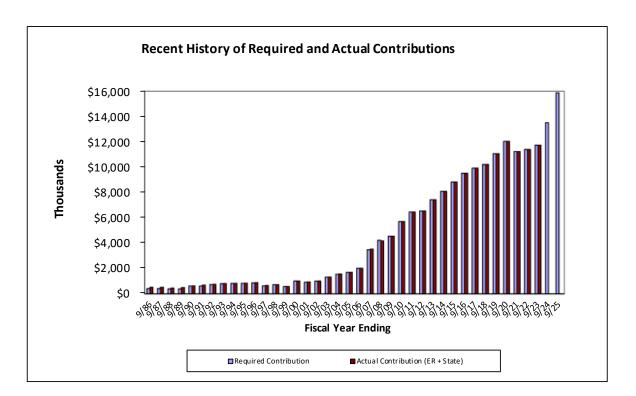
<sup>4</sup> Reflects change in member contribution rate from 10.15% to 9.84%; additional contribution of \$340,454 due to one-time use of State Reserve reflected in net employer contribution and actual total contribution but not shown separately

<sup>5</sup> From 1/10/2008 Actuarial Impact Statement additional contribution of \$160,000 due to one-time use of State Reserve reflected in net required contribution and actual total contribution but not shown separately

<sup>6</sup> From 7/27/2011 Actuarial Impact Statement

<sup>7</sup> From 9/6/2017 Actuarial Impact Statement







## **ACTUARIAL ASSUMPTIONS AND COST METHOD**

#### **Valuation Methods**

**Actuarial Cost Method** - Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an **Individual Entry-Age Actuarial Cost Method** having the following characteristics:

- the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gains/(losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

*Financing of Unfunded Actuarial Accrued Liabilities* - Unfunded Actuarial Accrued Liabilities (full funding credit if assets exceed liabilities) were amortized by level (principal & interest combined) dollar contributions over a reasonable period of future years.

Actuarial Value of Assets - The Actuarial Value of Assets was written down to Market Value as of September 30, 2009.

Effective October 1, 2009, the Actuarial Value of Assets phases in the difference between the expected and actual return on actuarial value of assets at the rate of 20% per year. The Actuarial Value of Assets is further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the Market Value of plan assets and whose upper limit is 120% of the Market Value of plan assets. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than Market Value. During periods when investment performance is less than assumed rate, Actuarial Value of Assets will tend to be greater than Market Value.

#### **Valuation Assumptions**

**The actuarial assumptions used** in the valuation are shown in this Section. Mortality is based on a commonly used fully generational mortality table and projection scale that is mandated by Florida Statutes. The investment return assumption, retirement rates, and salary scale have been updated in accordance with assumption analyses.

#### **Economic Assumptions**

*The investment return rate* assumed in the valuation is 6.72% per year, compounded annually (net after investment expenses), previously 7.00%.

The **Inflation Rate** assumed in this valuation is 2.5% per year. The Inflation Rate is defined to be the expected long-term rate of increases in the prices of goods and services.

The assumed **real rate of return** over inflation is defined to be the portion of total investment return that is more than the assumed inflation rate. Considering other economic assumptions, the 6.72% investment return rate translates to an assumed real rate of return over inflation of 4.22%.



**Pay increase assumptions** for individual active members are shown below. Part of the assumption for each age is for merit and/or seniority increase, and the other 2.5% recognizes wage inflation, including price inflation, productivity increases, and other macroeconomic forces.

	% Increase in Salary					
	Merit and	Base	Total			
Age	Seniority	(Economic)	Increase			
20	5.0%	2.5%	7.5%			
25	5.0%	2.5%	7.5%			
30	4.8%	2.5%	7.3%			
35	3.7%	2.5%	6.2%			
40	1.7%	2.5%	4.2%			
45	1.7%	2.5%	4.2%			
50	1.7%	2.5%	4.2%			
55	1.7%	2.5%	4.2%			

*The rates of salary increase* used are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

#### **Demographic Assumptions**

The *mortality tables* are the PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (preretirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2022 Actuarial Valuation of the Florida Retirement System (FRS).

#### FRS Healthy Post-Retirement Mortality for Special Risk Class Members

Sample	Probability of		Future	e Life
Attained	Dying Nex	t Year	Expectan	cy (years)
Ages (in 2023)	Men	Women	Men	Women
50	0.42 %	0.20 %	32.69	36.52
55	0.55	0.35	27.91	31.48
60	0.91	0.60	23.31	26.68
65	1.31	0.92	19.03	22.15
70	2.07	1.43	14.99	17.88
75	3.49	2.38	11.38	13.95
80	6.19	4.08	8.29	10.46

This assumption is used to measure the probabilities of each benefit payment being made after retirement.



	•	Future Expectane	
Men	Women	Men	Women
0.16 %	0.10 %	35.82	39.73
0.25	0.16	30.74	34.59
0.42	0.22	25.78	29.51
0.68	0.30	21.00	24.49
1.17	0.54	16.46	19.58
2.05	1.05	12.21	14.87
6.19	4.08	8.29	10.46
	Dying Nex           Men           0.16 %           0.25           0.42           0.68           1.17           2.05	0.16 %         0.10 %           0.25         0.16           0.42         0.22           0.68         0.30           1.17         0.54           2.05         1.05	Dying Next Year         Expectant           Men         Women         Men           0.16 %         0.10 %         35.82           0.25         0.16 %         30.74           0.42         0.22         25.78           0.68         0.30         21.00           1.17         0.54         16.46           2.05         1.05         12.21

#### FRS Healthy Pre-Retirement Mortality for Special Risk Class Members

This assumption is used to measure the probabilities of active members dying prior to retirement (75% of preretirement deaths are assumed to be service-connected).

For disabled retirees, the mortality tables used were 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Male Table and 20% of the Headcount Weighted Safety Disabled Retiree Male Table, and 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Female Table and 20% Headcount Weighted Safety Disabled Retiree Female Table, both with no provision being made for future mortality improvements. These are the same rates used for Special Risk Class members in the July 1, 2022 Actuarial Valuation of the Florida Retirement System (FRS).

#### FRS Disabled Mortality for Special Risk Class Members

Sample Attained	Probabil Dying Nex	-	Future Expectane	e Life cy (years)
Ages (in 2023)	Men	Women	Men	Women
50	1.45 %	1.25 %	24.04	26.84
55	1.91	1.50	20.88	23.54
60	2.37	1.81	17.92	20.32
65	3.00	2.22	15.07	17.17
70	3.91	2.90	12.39	14.10
75	5.30	4.13	9.87	11.22
80	7.66	6.21	7.60	8.67



*The rates of retirement* used to measure the probability of eligible members retiring during the next year were as follows:

		Retirement
Service	Age	Rates
10	53 - 55	50.00%
10	56 +	100.00%
11 - 19	53 - 55	70.00%
11 - 19	56 +	100.00%
20	< 42	50.00%
20	42 - 45	60.00%
20	46 - 50	70.00%
20	51 - 55	80.00%
20	56 +	100.00%
21 - 22	42 - 54	30.00%
21 - 22	55 +	100.00%
23 - 24	42 - 54	60.00%
23 - 24	55 +	100.00%
25 +	Any Age	100.00%

#### Tier 1 (Hired Before 9/30/2015)

#### Tier 2 (Hired on or After 9/30/2015)

Service	Age	Retirement Rates
10	55	50.00%
10	56 +	100.00%
11 - 19 11 - 19	55 56 +	60.00% 100.00%
20 20	55 56 +	60.00% 100.00%
21 - 24	55	100.00%
25 +	Any Age	100.00%

This assumption was changed this year (based on the results of an assumption study) from the age-andservice-based normal retirement rates used in the prior valuation, which varied from 15% to 100%.

In addition, early retirements are assumed at 2% per year, when eligible.



**Rates of separation from active membership** were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

Sample	% of Active Members
Ages	Separating Within Next Year
20	6.0 %
25	5.7
30	5.0
35	3.8
40	2.6
45	1.6
50	0.8
55	0.3

Rates of disability among active members (75% of disabilities are assumed to be service-connected).

Sample	% Becoming Disabled
Ages	Within Next Year
20	0.14 %
25	0.15
30	0.18
35	0.23
40	0.30
45	0.51
50	1.00
55	1.55



# Miscellaneous and Technical Assumptions

Administrative & Investment Expenses	The investment return assumption is intended to be the return net of investment expenses. Annual administrative expenses are assumed to be equal to the average of the prior two years' expenses. Assumed administrative expenses are added to the Normal Cost.
Benefit Service	Service calculated based on completed months is used to determine the amount of benefit payable.
Cost of Living Adjustment	The cost of living adjustment for members who receive future normal retirement benefits is 2.5% starting 5 years after retirement.
Decrement Operation	Disability and mortality decrements operate during retirement eligibility.
Decrement Timing	Decrements of all types are assumed to occur at the beginning of the year.
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.
Forfeitures	For vested separations from service, it is assumed that 0% of members separating will withdraw their contributions and forfeit an employer financed benefit. It was further assumed that the liability at termination is the greater of the vested deferred benefit (if any) or the member's accumulated contributions.
Incidence of Contributions	Employer contributions are assumed to be made at the end of each biweekly pay period. Member contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.
Liability Load for Tier 2 Members	Liabilities for Tier 2 members (members who enter the Plan after September 30, 2015) are loaded by 4% to approximate the impact of the 13 <sup>th</sup> Check.
Marriage Assumption	100% of males and 100% of females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses for active member valuation purposes.
Normal Form of Benefit	A 10-year certain and life annuity is the normal form of benefit.



Pay Increase Timing	Beginning of fiscal year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.
Service Credit Accruals	It is assumed that members accrue one year of service credit per year.



# GLOSSARY

Actuarial Accrued Liability (AAL)	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
Actuarial Assumptions	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.
Actuarial Cost Method	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.
Actuarial Equivalent	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
Actuarial Present Value (APV)	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
Actuarial Present Value of Future Benefits (APVFB)	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
Actuarial Valuation	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67, such as the Funded Ratio and the Actuarially Determined Contribution (ADC).
Actuarial Value of Assets	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the Actuarially Determined Contribution (ADC).



Amortization Method	A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
Amortization Payment	That portion of the plan contribution or ADC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
Amortization Period	The period used in calculating the Amortization Payment.
Actuarially Determined Contribution (ADC)	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB No. 67. The ADC consists of the Employer Normal Cost and Amortization Payment.
Closed Amortization Period	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
Employer Normal Cost	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
Equivalent Single Amortization Period	For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.
Experience Gain/Loss	A measure of the difference between the normal cost rate from last year and the normal cost rate from this year.
Funded Ratio	The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.
GASB	Governmental Accounting Standards Board.
GASB No. 67 and GASB No. 68	These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67 sets the rules for the systems themselves.



Normal Cost	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
Open Amortization Period	An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.
Unfunded Actuarial Accrued Liability	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
Valuation Date	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.



**SECTION C** 

**PENSION FUND INFORMATION** 

	September 30			
ltem	2023	2022		
A. Cash and Cash Equivalents (Operating Cash)	\$-	\$-		
B. Receivables				
1. Member Contributions	\$ 139,938	\$ 98,354		
2. Employer Contributions	-	-		
3. State Contributions	-	-		
4. Investment Income and Other Receivables	432,516	3,485,360		
5. Total Receivables	\$ 572,454	\$ 3,583,714		
C. Investments				
1. Short Term Investments	\$ 4,235,378	\$ 10,186,470		
2. Domestic Equities	103,791,554	85,301,998		
3. International Equities	19,792,218	17,419,191		
4. Domestic Fixed Income	50,395,299	46,422,392		
5. International Fixed Income	-	-		
6. Real Estate	17,621,590	21,223,978		
7. Private Equity	-	-		
8. Total Investments	\$ 195,836,039	\$180,554,029		
D. Liabilities				
1. Benefits Payable	\$-	\$-		
2. Accrued Expenses and Other Payables	(329,270)	(1,099,438)		
3. Prepaid City Contribution	(157,924)	-		
4. Total Liabilities	\$ (487,194)	\$ (1,099,438)		
E. Total Market Value of Assets Available for Benefits	\$ 195,921,299	\$183,038,305		
F. Reserves				
1. State Contribution Reserve	\$-	\$-		
2. DROP Accounts	(15,928,440)	(15,095,231)		
3. Total Reserves	\$ (15,928,440)	\$ (15,095,231)		
G. Market Value Net of Reserves	\$ 179,992,859	\$167,943,074		
H. Allocation of Investments				
1. Short Term Investments	2.2%	5.6%		
2. Domestic Equities	53.0%	47.3%		
3. International Equities	10.1%	9.6%		
4. Domestic Fixed Income	25.7%	25.7%		
5. International Fixed Income	0.0%	0.0%		
6. Real Estate	9.0%	11.8%		
7. Private Equity	0.0%	0.0%		
8. Total Investments	100.0%	100.0%		

# Statement of Plan Assets at Market Value



#### September 30 Item 2023 2022 A. Market Value of Assets at Beginning of Year \$ 183,038,305 \$ 215,368,177 B. Revenues and Expenditures 1. Contributions a. Member Contributions \$ 1,315,568 Ś 1,372,686 b. Employer Contributions 10,661,348 10,479,815 c. State Contributions 1,077,893 919,969 d. Purchased Service Credit \$ \$ 12,772,470 e. Total 13,054,809 2. Investment Income a. Interest, Dividends, and Other Income \$ 4,454,294 \$ 3,735,788 b. Net Realized Gains/(Losses)\* c. Net Unrealized Gains/(Losses)\* 10,988,201 (38, 936, 237)d. Investment Expenses (674,346) (740, 721)\$ e. Net Investment Income 14,768,149 \$ (35,941,170) 3. Benefits and Refunds a. Regular Monthly Benefits \$ (9,640,208)\$ (8,600,155) b. Refunds (30,427) (11,591) c. Lump Sum Benefits Paid d. DROP Distributions (4,959,467) (256,886) Ś e. Total (14, 630, 102)\$ (8,868,632) 4. Administrative and Miscellaneous Expenses \$ (309, 862)\$ (292, 540)\$ 5. Transfers Ś C. Market Value of Assets at End of Year \$ 195,921,299 \$ 183,038,305 D. Reserves \$ 1. State Contribution Reserve Ś 2. DROP Accounts (15,928,440) (15,095,231) 3. Total Reserves \$ (15, 928, 440)(15,095,231) \$ E. Market Value Net of Reserves \$ 179,992,859 \$ 167,943,074

# **Reconciliation of Plan Assets**

\* Breakdown between realized and unrealized gains (losses) were not available.



Year	Balance at					<b>.</b>
Ended 9/30	Beginning of Year	Credits	Interest	Distributions	Adjustments	Balance at End of Year
2002	\$-	\$ 148,006	\$ 5,101	\$ (16,178)	\$-	\$ 136,929
2003	136,929	180,567	20,636	-	-	338,132
2004	338,132	180,567	38,421	-	-	557,120
2005	557,120	180,567	57,778	-	-	795,465
2006	795,465	422,350	69,061	(188,744)	-	1,098,132
2007	1,098,132	479,883	101,029	(1,020,132)	-	658,912
2008	658,912	682,875	78,772	(316,082)	-	1,104,477
2009	1,104,477	904,840	137,425	-	-	2,146,742
2010	2,146,742	1,428,932	249,854	(95,349)	-	3,730,179
2011	3,730,179	1,935,801	320,520	(197,552)	-	5,788,948
2012	5,788,948	2,219,679	476,027	(1,245,018)	-	7,239,636
2013	7,085,581 *	2,554,707	561,955	(1,311,925)	-	8,890,318
2014	8,890,318	2,155,050	565,597	(4,336,905)	-	7,274,060
2015	7,274,060	1,910,469	515,300	(1,010,331)	-	8,689,498
2016	8,689,498	1,722,820	685,629	(3,172,610)	-	7,925,337
2017	7,925,337	1,551,907	419,662	(3,891,548)	-	6,005,358
2018	6,005,358	1,771,098	377,019	(3,271,195)	514,141	5,396,421
2019	5,396,421	2,005,253	322,029	(3,092,882)	-	4,630,821
2020	4,630,821	2,909,730	333,138	(1,664,957)	-	6,208,733
2021	6,208,733	3,802,363	473,999	(557,133)	-	9,927,961
2022	9,927,961	4,671,530	752,626	(256,886)	-	15,095,231
2023	15,095,231	4,855,780	936,896	(4,959,467)	-	15,928,440

# **Reconciliation of DROP Accounts**

\* Beginning of Year balance adjusted to match client's reconciliation and financial statements.



#### **Actuarial Value of Assets**

	Valuation Date – September 30	2022	2023	2024	2025	2026	2027
Α.	Actuarial Value of Assets Beginning of Year*	\$ 199,356,250	\$ 210,987,240				
В.	Market Value End of Year*	183,038,305	195,921,299				
C.	Market Value Beginning of Year*	215,368,177	183,038,305				
D.	Non-Investment/Administrative Net Cash Flow	3,611,298	(1,885,155)				
E.	Investment Income						
	E1. Actual Market Total: B-C-D	(35,941,170)	14,768,149				
	E2. Assumed Rate of Return	7.15%	7.00%	6.50%	6.50%	6.50%	6.50%
	E3. Assumed Amount of Return	14,757,729	15,076,274				
	E4. Amount Subject to Phase-In: E1–E3	(50,698,899)	(308,125)				
F.	Phased-In Recognition of Investment Income						
	F1. Current Year: 0.2 x E4	(10,139,780)	(61,625)				
	F2. First Prior Year	4,629,226	(10,139,780)	(61,625)			
	F3. Second Prior Year	30,643	4,629,226	(10,139,780)	(61,625)		
	F4. Third Prior Year	(1,338,787)	30,643	4,629,226	(10,139,780)	(61,625)	
	F5. Fourth Prior Year	80,661	(1,338,787)	30,643	4,629,226	(10,139,780)	(61,625)
	F6. Total Phase-Ins	(6,738,037)	(6,880,323)	(5,541,536)	(5,572,179)	(10,201,405)	(61,625)
G.	Actuarial Value of Assets End of Year						
	G1. Preliminary Actuarial Value of Assets End of Year:						
	A+D+E3+F6	210,987,240	217,298,036				
	G2. Upper Corridor Limit: 120%*B	219,645,966	235,105,559				
	G3. Lower Corridor Limit: 80%*B	146,430,644	156,737,039				
	G4. Actuarial Value of Assets End of Year	210,987,240	217,298,036				
	G5. State Contribution Reserve	-	-				
	G6. DROP Accounts	(15,095,231)	(15,928,440)				
	G7. Final Actuarial Value of Assets End of Year	195,892,009	201,369,596				
Н.	Difference between Market & Actuarial Value of Assets	(27,948,935)	(21,376,737)				
١.	Actuarial Rate of Return	3.9%	3.8%				
J.	Market Value Rate of Return	-16.2%	7.9%				
к	Ratio of Actuarial Value of Assets to Market Value	115.3%	110.9%				

\* Before offset of State Contribution Reserve and DROP Accounts.

The Actuarial Value of Assets recognizes assumed investment return (line E3) fully each year. Differences between actual and assumed investment income (Line E4) are phased-in over a closed 5-year period. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than Market Value. During periods when investment performance is less than the assumed rate, Actuarial Value of Assets will tend to be greater than Market Value. If assumed rates are exactly realized for 5 consecutive years, Actuarial Value of Assets will become equal to Market Value.



Year Ending	Investment Rate of Return		
September 30th	Market Value *	Actuarial Value	
1978	7.2 %	7.2 %	
1979	8.6	8.6	
1980	9.7	9.7	
1981	10.3	10.3	
1982	11.6	11.6	
1983	11.3	11.3	
1984	11.4	11.4	
1985	9.7	9.7	
1986	17.8	17.8	
1987	6.3	6.3	
1988	8.3	8.3	
1989	10.7	10.7	
1990	5.8	5.8	
1991	13.8	13.8	
1992	15.0	15.0	
1993	11.4	10.8	
1994	3.0	2.6	
1995	15.8	15.2	
1996	13.0	12.4	
1997	27.7	12.9	
1998	10.3	12.9	
1999	13.5	13.6	
2000	11.8	14.0	
2001	(9.8)	9.2	
2002	(6.9)	(0.8)	
2003	14.6	3.9	
2004	7.9	2.8	
2005	9.0	2.3	
2006	6.4	5.5	
2007	11.9	8.9	
2008	(11.7)	4.3	
2009	1.2	3.4	
2010	9.9	8.7	
2011	(0.3)	6.8	
2012	21.6	9.3	
2013	11.3	9.8	
2014	9.0	9.9	
2015	0.3	7.8	
2016	8.8	8.9	
2017	11.1	8.0	
2018	7.9	7.6	
2019	3.3	6.5	
2020	7.6	7.2	
2021	20.1	9.5	
2022	(16.2)	3.9	
2023	7.9	3.8	
Average Returns:			
Last 5 Years	3.8 %	6.2 %	
Last 10 Years	5.6 %	7.3 %	
All Years	8.1 %	8.6 %	

\*Net of investment expenses starting in 2006.

The above rates are based on the retirement system's financial information reported to the actuary. They may differ from figures that the investment consultant reports, in part because of differences in the handling of administrative and investment expenses, and in part because of differences in the handling of cash flows.



History of Premium Tax Refunds			
Year Received	Amount		
1973	\$ 162.73		
1974	969.40		
1975	5,140.84		
1976	11,554.80		
1970	29,468.92		
1977	25,408.52		
1978	29,787.49		
1979	32,251.00		
1980	39,792.00		
1981	45,645.00		
1982	60,336.53		
1983	72,150.14		
1984	83,242.99		
1985	103,615.68		
1986	124,761.71		
1987	152,810.22		
1000	172 640 80		
1988 1989	172,640.89 184,331.26		
1990	198,379.19		
1991	205,524.75		
1991	215,510.42		
1993	222,771.55		
1994	235,414.53		
1995	257,223.00		
1996	281,695.14		
1997	311,097.66		
1998	307,311.95		
1999	295,625.18		
2000	264,310.96		
2001	280,803.49		
2002	323,403.51		
2003	374,159.74		
2003	497,444.66		
2004	503,294.47		
2005			
2008	512,972.82 559,678.84		
2008	567,622.66		
2009	578,925.89		
2010	552,721.74		
2011 2012	508,250.66 527,188.24		
2012	527,100.24		
2013	568,387.94		
2014	620,714.25		
2015	639,175.78		
2016	693,248.17		
2017	724,891.12		
2018	785,046.96		
2019	858,107.35		
2020	856,665.77		
2021	838,995.26		
2021	919,969.23		
2023	<u>1,077,892.99</u>		
	\$ 18,313,087.47		

History of Premium Tax Refunds



**SECTION D** 

**FINANCIAL ACCOUNTING INFORMATION** 

	FASB NO. 35 INFORMATION								
Α.	Valuation Date	October 1, 2023	October 1, 2022						
В.	Actuarial Present Value of Accumulated Plan Benefits								
	1. Vested Benefits								
	<ul> <li>a. Members Currently Receiving Payments</li> <li>b. Terminated Vested Members</li> <li>c. Other Members</li> <li>d. Total</li> </ul>	\$ 227,900,848 0 <u>47,957,587</u> 275,858,435	\$ 211,523,448 0 <u>44,094,482</u> 255,617,930						
	2. Non-Vested Benefits	5,720,736	4,653,816						
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	281,579,171	260,271,746						
	4. Accumulated Contributions of Active Members	10,470,373	10,224,685						
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits								
	1. Total Value at Beginning of Year	260,271,746	243,572,302						
	2. Increase (Decrease) During the Period Attributable to:								
	a. Plan Amendment	98,811	0						
	b. Change in Actuarial Assumptions	11,573,869	4,837,046						
	c. Latest Member Data, Benefits Accumulated								
	and Decrease in the Discount Period	24,161,160	25,145,674						
	d. Benefits Paid	(14,526,415)	(13,283,276)						
	e. Net Increase	21,307,425	16,699,444						
	3. Total Value at End of Period	281,579,171	260,271,746						
D.	Market Value of Assets	179,992,859	167,943,074						
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods								



# SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS GASB Statement No. 67

Fiscal year ending September 30,	2024*	2023	2022	2021	2020	2019	2018	2017	2016	2015
Total Pension Liability										
Service Cost	\$ 4,107,829	\$ 4,082,591	\$ 4,387,274	\$ 4,623,944	\$ 5,139,970	\$ 4,985,444	\$ 4,857,819	\$ 4,599,186	\$ 4,415,243	\$ 4,068,061
Interest	20,684,388	19,940,898	19,044,653	17,986,706	17,500,417	16,247,834	15,162,272	14,481,168	13,727,142	12,756,539
Benefit Changes	158,087	-	-	78,534	-	1,620,550	-	-	-	-
Difference between actual & expected experience	443,229	2,212,267	1,578,327	1,285,718	(151,036)	3,218,834	4,093,499	2,023,747	560,558	(417,253)
Assumption Changes	11,427,064	5,177,651	3,252,600	3,049,207	3,065,310	1,367,814	1,265,641	(1,393,066)	-	6,918,969
Benefit Payments	(14,945,019)	(14,599,675)	(8,857,041)	(8,758,540)	(9,291,479)	(10,271,348)	(9,924,857)	(9,946,162)	(8,399,112)	(5,761,251)
Refunds	(107,019)	(30,427)	(11,591)	(12,135)	(108,173)	(13,426)	(66,853)	(29,030)	(65,487)	(56,610)
Net Change in Total Pension Liability	21,768,559	16,783,305	19,394,222	18,253,434	16,155,009	17,155,702	15,387,521	9,735,843	10,238,344	17,508,455
Total Pension Liability - Beginning	298,909,442	282,126,137	262,731,915	244,478,481	228,323,472	211,167,770	195,780,249	186,044,406	175,806,062	158,297,607
Total Pension Liability - Ending (a)	\$320,678,001	\$ 298,909,442	\$ 282,126,137	\$ 262,731,915	\$ 244,478,481	\$ 228,323,472	\$ 211,167,770	\$ 195,780,249	\$ 186,044,406	\$ 175,806,062
Plan Fiduciary Net Position										
Contributions - Employer	\$ 12,433,900	\$ 10,661,348	\$ 10,479,815	\$ 10,397,058	\$ 11,187,132	\$ 10,207,194	\$ 9,431,736	\$ 9,199,456	\$ 8,834,348	\$ 8,194,759
Contributions - Employer (from State)	1,077,893	1,077,893	919,969	838,995	856,666	858,107	785,047	724,891	693,248	639,176
Contributions - Non-Employer Contributing Entity	-	-	-	-	-	-	-	-	-	-
Contributions - Member	1,306,447	1,315,568	1,372,686	1,422,792	1,583,622	1,679,931	1,698,916	1,664,869	1,510,667	1,524,051
Net Investment Income	13,117,754	14,768,149	(35,941,170)	36,565,656	12,608,583	5,221,593	11,384,925	14,258,027	10,187,217	366,132
Benefit Payments	(14,945,019)	(14,599,675)	(8,857,041)	(8,758,540)	(9,291,479)	(10,271,348)	(9,924,857)	(9,946,162)	(8,399,112)	(5,761,251)
Refunds	(107,019)	(30,427)	(11,591)	(12,135)	(108,173)	(13,426)	(66,853)	(29,030)	(65,487)	(56,610)
Administrative Expense	(301,201)	(309,862)	(292,540)	(271,711)	(285,704)	(292,849)	(279,917)	(316,694)	(338,086)	(231,098)
Other	-	-	-	-	-	-	-	-	-	-
Net Change in Plan Fiduciary Net Position	12,582,755	12,882,994	(32,329,872)	40,182,115	16,550,647	7,389,202	13,028,997	15,555,357	12,422,795	4,675,159
Plan Fiduciary Net Position - Beginning	195,921,299	183,038,305	215,368,177	175,186,062	158,635,415	151,246,213	138,217,216	122,661,859	110,239,064	105,563,905
Plan Fiduciary Net Position - Ending (b)	\$208,504,054	\$ 195,921,299	\$ 183,038,305	\$ 215,368,177	\$ 175,186,062	\$ 158,635,415	\$ 151,246,213	\$ 138,217,216	\$ 122,661,859	\$ 110,239,064
Net Pension Liability - Ending (a) - (b)	112,173,947	102,988,143	99,087,832	47,363,738	69,292,419	69,688,057	59,921,557	57,563,033	63,382,547	65,566,998
Plan Fiduciary Net Position as a Percentage										
of Total Pension Liability	65.02 %	65.55 %	64.88 %	81.97 %	71.66 %	69.48 %	71.62 %	70.60 %	65.93 %	62.70 %
Covered Payroll	\$ 13,890,435	\$ 13,587,759	\$ 14,144,667	\$ 15,095,331	\$ 16,444,446	\$ 17,491,218	\$ 17,508,583	\$ 16,985,178	\$ 15,886,876	\$ 15,488,323
Net Pension Liability as a Percentage										
of Covered Payroll	807.56 %	757.95 %	700.53 %	313.76 %	421.37 %	398.42 %	342.24 %	338.90 %	398.96 %	423.33 %

\*These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



# SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

FY Ending September 30,	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	\$ 175,806,062	\$ 110,239,064	\$ 65,566,998	62.70%	\$ 15,488,323	423.33%
2016	186,044,406	122,661,859	63,382,547	65.93%	15,886,876	398.96%
2017	195,780,249	138,217,216	57,563,033	70.60%	16,985,178	338.90%
2018	211,167,770	151,246,213	59,921,557	71.62%	17,508,583	342.24%
2019	228,323,472	158,635,415	69,688,057	69.48%	17,491,218	398.42%
2020	244,478,481	175,186,062	69,292,419	71.66%	16,444,446	421.37%
2021	262,731,915	215,368,177	47,363,738	81.97%	15,095,331	313.76%
2022	282,126,137	183,038,305	99,087,832	64.88%	14,144,667	700.53%
2023	298,909,442	195,921,299	102,988,143	65.55%	13,587,759	757.95%
2024*	320,678,001	208,504,054	112,173,947	65.02%	13,890,435	807.56%

\*These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



# NOTES TO SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

Valuation Date:	October 1, 2023
Measurement Date:	September 30, 2024
Methods and Assumptions Used	to Determine Net Pension Liability:
Actuarial Cost Method	Entry Age Normal
Inflation	2.50%
Salary Increases	4.20% to 7.50% depending on age, including inflation
Investment Rate of Return	6.72%
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition.
Mortality	The PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post- retirement), and the PUB-2010 Safety Healthy Retiree Female Table (post- retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2022 Actuarial Valuation of the Florida Retirement System (FRS).
Other Information: Notes	See Discussion of Valuation Results in the October 1, 2023 Actuarial
	Valuation Report.
	The following assumption changes were made:
	- The investment return assumption has been lowered from 7.00% to 6.72%.
	- Retirement rates were updated based on a recent experience study.
	The following plan changes were made:
	- For members hired or rehired on or after September 30, 2015, the normal retirement eligibility has been changed to the earlier of age 55 with 10 years of service or 25 years of service regardless of age (previously, the earlier of age 55 with 10 years of service or age 52 with 25 years of service). In addition, the employee contribution rate for members hired or rehired on or after September 30, 2015 has increased from 8.0% to 8.5% of salary.



# SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

FY Ending September 30,	Actuarially Determined Contribution	Actual Contribution	Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll	
2013	\$ 7,431,759	\$ 7,431,759	\$-	\$ 12,810,274	58.01%	
2014	8,093,191	8,093,191	-	13,142,805	61.58%	
2015	8,833,935	8,833,935	-	15,488,323	57.04%	
2016	9,527,596	9,527,596	-	15,886,876	59.97%	
2017	9,924,347	9,924,347	-	16,985,178	58.43%	
2018	10,216,783	10,216,783	-	17,508,583	58.35%	
2019	11,065,301	11,065,301	-	17,491,218	63.26%	
2020	12,043,798	12,043,798	-	16,444,446	73.24%	
2021	11,236,053	11,236,053	-	15,095,331	74.43%	
2022	11,399,784	11,399,784	-	14,144,667	80.59%	
2023	11,739,241	11,739,241	-	13,587,759	86.40%	
2024 *	13,511,793	13,511,793	-	13,890,435	97.27%	

\*These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



# NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation	Date:
Notes	

October 1, 2022 Actuarially determined contributions are calculated as of October 1, which is two years prior to the end of the fiscal year in which contributions are reported.

#### Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percent of Pay, Closed
Remaining Amortization Period	20 years
Asset Valuation Method	5-year smoothed market
Inflation	2.50%
Salary Increases	4.20% to 7.50% depending on age, including inflation
Investment Rate of Return	7.00%
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition.
Mortality	The PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post-retirement), and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2021 Actuarial Valuation of the Florida Retirement System (FRS).
Other Information:	
Notes	See Discussion of Valuation Results in the October 1, 2022 Actuarial Valuation Report. The investment rate of return was lowered from 7.15% to 7.00%.



# SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 6.72% 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 6.72%. 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 difference between the total actuarially determined contribution rates and the member 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 (6.72%) was applied to all periods of projected benefit payments to determine the total pension liability.

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 6.72%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher.

Current Single Discount								
1% Decrease	Rate Assumption	1% Increase						
5.72%	6.72%	7.72%						
\$155,558,163	\$112,173,947	\$78,326,891						

\*These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



**SECTION E** 

**MISCELLANEOUS INFORMATION** 

	RECONCILIATION OF MEMBERSHIP DATA								
		From 10/1/22 To 10/1/23	From 10/1/21 To 10/1/22						
Α.	Active Members								
1. 2. 3. 4. 5. 6. 7.	Number Included in Last Valuation New Members Included in Current Valuation Non-Vested Employment Terminations Vested Employment Terminations DROP Retirement Service Retirements Disability Retirements	127 8 (5) 0 (4) 0 (1)	132 8 (1) 0 (11) 0 (1)						
8. 9.	Deaths Other - Transfer/Rehire/Data Correction Number Included in This Valuation	0 	0  						
В.	Terminated Vested Members								
1. 2. 3. 4. 5. 6. 7.	Number Included in Last Valuation Additions from Active Members Lump Sum Payments/Refund of Contributions Payments Commenced Deaths Other - Rehire Number Included in This Valuation	0 0 0 0 0 0	2 0 (2) 0 <u>0</u> 0						
с.	DROP Plan Members								
1. 2. 3. 4. 5. 6.	Number Included in Last Valuation Addition from Active Members Retirements Deaths Resulting in No Further Payments Other Number Included in This Valuation	55 4 (12) 0 <u>0</u> 47	46 11 (2) 0 <u>0</u> 55						
D.	Service Retirees, Disability Retirees and Beneficiaries	1							
1. 2. 3. 4. 5. 6. 7. 8. 9.	Number Included in Last Valuation Additions from Active Members Additions from DROP Additions from Terminated Vested Members Deaths Resulting in No Further Payments Deaths Resulting in New Survivor Benefits End of Certain Period - No Further Payments Other - beneficiaries of death benefits Number Included in This Valuation	151 1 12 0 0 0 (4) <u>0</u> 160	146 1 2 0 0 0 0 151						



# **ACTIVE PARTICIPANT DISTRIBUTION**

Years of Service to Valuation Date											
Age Group	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25 & Up	Totals
20-24 NO	1	1	-	-	-	-	-	-	-	-	2
TOT PAY	61,018	76,399	-	-	-	-	-	-	-	-	137,417
AVG PAY	61,018	76,399	-	-	-	-	-	-	-	-	68,709
25-29 NO	5	5	3	4	3	4	-	-	-	-	24
TOT PAY	305,088	379,285	235,678	323,472	245,038	350,596	-	-	-	-	1,839,157
AVG PAY	61,018	75,857	78,559	80,868	81,679	87,649	-	-	-	-	76,632
30-34 NO	2	-	1	2	5	12	2	-	-	-	24
TOT PAY	122,035	-	79,297	155,328	356,472	1,160,520	232,655	-	-	-	2,106,307
AVG PAY	61,018	-	79,297	77,664	71,294	96,710	116,328	-	-	-	87,763
35-39 NO	-	-	-	1	-	14	10	2	-	-	27
TOT PAY	-	-	-	77,091	-	1,496,617	1,227,963	289,912	-	-	3,091,583
AVG PAY	-	-	-	77,091	-	106,901	122,796	144,956	-	-	114,503
40-44 NO	-	-	-	-	-	11	2	17	-	-	30
TOT PAY	-	-	-	-	-	1,078,358	280,626	2,290,486	-	-	3,649,470
AVG PAY	-	-	-	-	-	98,033	140,313	134,734	-	-	121,649
45-49 NO	-	-	-	-	-	2	2	7	1	-	12
TOT PAY	-	-	-	-	-	205,727	255,228	908,543	157,968	-	1,527,466
AVG PAY	-	-	-	-	-	102,864	127,614	129,792	157,968	-	127,289
50-54 NO							1	3	2		6
TOT PAY				_	_	-	129,966	334,983	360,303	-	825,252
AVG PAY	-	-	-	-	-	-	129,966	111,661	180,152	-	137,542
							220,000	,000-	100)101		207,012
55-59 NO	-	-	-	-	-	-	-	-	-	-	-
TOT PAY	-	-	-	-	-	-	-	-	-	-	-
AVG PAY	-	-	-	-	-	-	-	-	-	-	-
60-64 NO	-	-	-	-	-	-	-	-	-	-	-
TOT PAY	-	-	-	-	-	-	-	-	-	-	-
AVG PAY	-	-	-	-	-	-	-	-	-	-	-
65 & Up NO	-	-	-	-	-	-	-	-	-	-	-
TOT PAY	-	-	-	-	-	-	-	-	-	-	-
AVG PAY	-	-	-	-	-	-	-	-	-	-	-
TOT NO	8	6	4	7	8	43	17	29	3	-	125
TOT AMT	488,141	455,684	314,975	555,891	601,510	4,291,818	2,126,438	3,823,924	518,271	-	13,176,652
AVG AMT	61,018	75,947	78,744	79,413	75,189	99,810	125,085	131,859	172,757	-	105,413



# **INACTIVE PARTICIPANT DISTRIBUTION**

	Terminated Vested		d Disabled		Re	Retired*		ficiaries	Grand Total		
		Total		Total		Total		Total	-	Total	
Age	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	
Under 20	0	-	0	-	0	-	0	-	0	0	
20 - 24	0	-	0	-	0	-	0	-	0	0	
25 - 29	0	-	0	-	0	-	0	-	0	0	
30 - 34	0	-	0	-	0	-	0	-	0	0	
35 - 39	0	-	0	-	0	-	0	-	0	0	
40 - 44	0	-	1	75,369	3	350,537	0	-	4	425,906	
45 - 49	0	-	1	71,995	24	2,218,530	0	-	25	2,290,525	
50 - 54	0	-	6	346,322	43	3,932,956	1	40,687	50	4,319,965	
55 - 59	0	-	1	84,279	28	2,739,752	1	125,300	30	2,949,331	
60 - 64	0	-	0	-	26	1,700,724	1	24,429	27	1,725,153	
65 - 69	0	-	1	35,165	28	1,350,134	1	32,785	30	1,418,084	
70 - 74	0	-	2	72,743	18	898,816	1	28,595	21	1,000,154	
75 - 79	0	-	0	-	8	265,405	2	41,988	10	307,393	
80 - 84	0	-	0	-	6	133,262	1	16,353	7	149,615	
85 - 89	0	-	0	-	0	-	0	-	0	0	
90 - 94	0	-	0	-	1	18,566	2	32,163	3	50,729	
95 - 99	0	-	0	-	0	-	0	-	0	0	
100 & Ove	r 0	-	0	-	0	-	0	-	0	0	
Total	0	-	12	685,873	185	13,608,682	10	342,300	207	14,636,855	
Average Ag	e	N/A		56		60		74		61	

\* Does not include deferred supplemental benefits for DROP members.



**SECTION F** 

**SUMMARY OF PLAN PROVISIONS** 

# SUMMARY OF PLAN PROVISIONS

### A. Ordinances

The Plan was established under the Code of Ordinances for the City of Sunrise, Florida, Chapter 11, Article II, and was most recently amended under Ordinance No. 124-X-23-A, passed and adopted on its second reading on November 14, 2023. The Plan is also governed by certain provisions of Chapter 185, <u>Florida Statutes</u>, Part VII, Chapter 112, <u>Florida Statutes</u> and the Internal Revenue Code.

### **B. Effective Date**

July 1, 1972

### C. Plan Year

October 1 through September 30

### D. Type of Plan

Qualified, governmental defined benefit retirement plan; for GASB purposes it is a single employer plan.

#### E. Eligibility Requirements

All full-time police officers participate as a condition of employment. The police chief may elect not to participate.

#### F. Credited Service

Years and completed months of full-time service with the City during which time prescribed employee contributions are made. Under certain conditions, military service is includable. No service is credited for any periods of employment for which the member received a refund of their contributions.

#### G. Compensation

# For Members hired prior to September 30, 2015:

Compensation is the total actual fixed cash compensation including overtime, holiday and other payroll cash incentives and general monthly expense allowances, but excluding lump sum payouts of accrued benefits upon termination of employment, auto and uniform allowances, travel reimbursements and special detail pay. Effective August 9, 2011, overtime pay for hours earned after August 9, 2011 in excess of 300 hours of overtime per year is not included. Effective September 15, 2015, all payments for unused sick and annual leave are excluded.



# For Members hired on or after September 30, 2015:

Compensation is the total actual fixed cash compensation including holiday and other payroll cash incentives and general monthly expense allowances, but excluding overtime pay, lump sum payouts of accrued benefits upon termination of employment, auto and uniform allowances, travel reimbursements, special detail pay and all payments for unused sick and annual leave.

# H. Final Average Compensation (FAC)

# For Members hired prior to September 30, 2015:

The average of Compensation over the highest 3 years of Credited Service.

# For Members hired on or after September 30, 2015:

The average of Compensation over the highest 5 consecutive years out of the last 10 years of Credited Service.

# I. Normal Retirement

# For Members hired prior to September 30, 2015:

- Eligibility: A member may retire on the first day of the month coincident with or next following the earlier of:
  - (1) age 53 and 10 years of Credited Service, or
  - (2) 20 years of Credited Service regardless of age.
- Benefit: (a) 3.0% of FAC for each of the first 10 years of Credited Service, plus 4.0% of FAC for the next 10 years of Credited Service, plus 2.0% of FAC for each year of Credited Service thereafter; subject to a maximum benefit equal to 80% of FAC.
  - (b) Any Police Officer who was actively employed on October 1, 2003, and retires or enters the DROP on or after January 1, 2006 will receive the greater of (a) above and:

4.0% of FAC for each of first 10 years of Credited Service, plus 2.0% of FAC for each year thereafter. 2.0% of FAC will be added to the total percentage for officers who were vested as of January 1, 2006. An additional 2.0% of FAC will be added to the total percentage for officers who are actively employed until age 53 with 10 or more years of Credited Service.

(c) In addition, police officers who terminate and begin receiving Early or Normal Retirement Benefits will receive a monthly supplemental benefit payable for life and ceasing upon the retiree's death according to the following table:



	Monthly Supplemental Benefit		
Termination or DROP Exit Date	Until Age 65	Age 65 and later	
8/14/01 - 12/31/05	\$10.00 * Service (max \$200)	\$6.25 * Service (max \$125)	
1/1/06 - 9/30/07	\$16.25 * Service (max \$325)	\$10.00 * Service (max \$200)	
10/1/07 - 1/21/19	\$25.00 * Service (max \$500)	\$15.00 * Service (max \$300)	
On or after 1/22/19	\$35.00 * Service (max \$700)	\$15.00 * Service (max \$300)	

### Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.

COLA: Cost of living increases are paid according to the following table:

Termination or	Annual	
DROP Entry Date	COLA <sup>1</sup>	COLA Start Date
Before 1/1/06	0.0%	No COLA is payable
1/1/06 - 9/30/08	2.0%	Fifth anniversary of the commencement date
On or after 10/1/08	2.5%	Fifth anniversary of the commencement
		date

<sup>1</sup> The COLA is payable for the lifetime of the retiree and continues to the retiree's survivor upon the retiree's death.

#### For Members hired on or after September 30, 2015:

- Eligibility: A member may retire on the first day of the month coincident with or next following the earlier of:
  - (1) age 55 and 10 years of Credited Service, or
  - (2) 25 years of Credited Service regardless of age.
- Benefit:3.0% of FAC for each of the first 20 years of Credited Service, plus 2.0% of FAC for<br/>each year of Credited Service thereafter; subject to a maximum benefit equal to<br/>70% of FAC. Benefit is guaranteed to be no less than 2.75% of FAC for each year of<br/>Credited Service.

#### Supplemental

Benefit: None

#### Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.

COLA: None



### J. Early Retirement

## For Members hired prior to September 30, 2015:

Eligibility:	A member may elect to retire earlier than the Normal Retirement Eligibility upon attainment of age 47 and 10 years of Credited Service.
Benefit:	The Normal Retirement Benefit is reduced by 3.0% for each year by which the Early Retirement date precedes the Normal Retirement date. In addition, police officers who terminate and begin receiving Early Retirement Benefits will receive the monthly supplemental benefit.
Normal Form of Benefit:	10 Years Certain and Life thereafter; other options are also available.
COLA:	None
For Members	hired on or after September 30, 2015:
Eligibility:	A member may elect to retire earlier than the Normal Retirement Eligibility upon attainment of age 50 and 10 years of Credited Service.
Benefit:	The Normal Retirement Benefit is reduced by 3.0% for each year by which the Early Retirement date precedes age 55. There is no supplemental benefit.
Normal Form of Benefit:	10 Years Certain and Life thereafter; other options are also available.
COLA:	
	None

#### K. Delayed Retirement

Same as Normal Retirement taking into account compensation earned and service credited until the date of actual retirement.

# L. Service Connected Disability

# For Members hired prior to September 30, 2015:

Eligibility: Any member who becomes totally and permanently disabled as a result of an act occurring in the performance of service for the City is immediately eligible for a disability benefit.



Benefit: The disability benefit is equal to 75% of the member's salary in effect on the date of disability subject to the offsets described below. However, the offsets shall not reduce the benefit below the greater of the member's accrued benefit or 42% of the member's FAC.

# Offsets:

To determine whether there will be an offset against the disability benefit, the first step is to add the following four items for a particular year.

- 1. Service incurred disability benefit paid from the plan
- 2. Workers' compensation disability benefit
- 3. Any salary received in excess of \$50,000 as evidenced by federal tax returns
- 4. Any net earnings from self-employment in excess of \$50,000

If the sum of these four items is greater than the pre-disability salary, the service disability benefit shall be reduced. The annual reduction shall be equal to 50% of the first \$50,000 of excess plus 100% of the remaining excess, if any.

### Normal Form

of Benefit:Payable until death or recovery from disability or until the member reaches Early<br/>or Normal Retirement Age and elects to receive Early or Normal Retirement<br/>Benefits in lieu of disability benefits. Other options are also available.

COLA: None

# For Members hired on or after September 30, 2015:

- Eligibility: Any member who becomes totally and permanently disabled as a result of an act occurring in the performance of service for the City is immediately eligible for a disability benefit.
- Benefit: The disability benefit is equal to 70% of the member's salary in effect on the date of disability subject to the offsets described below. However, the offsets shall not reduce the benefit below the greater of the member's accrued benefit or 42% of the member's FAC.

# Offsets:

To determine whether there will be an offset against the disability benefit, the first step is to add the following four items for a particular year.

- 1. Service incurred disability benefit paid from the plan
- 2. Workers' compensation disability benefit
- 3. Any salary received in excess of \$50,000 as evidenced by federal tax returns
- 4. Any net earnings from self-employment in excess of \$50,000



If the sum of these four items is greater than the pre-disability salary, the service disability benefit shall be reduced. The annual reduction shall be equal to 50% of the first \$50,000 of excess plus 100% of the remaining excess, if any. Normal Form of Benefit: Payable until death or recovery from disability or until the member reaches Early or Normal Retirement Age and elects to receive Early or Normal Retirement Benefits in lieu of disability benefits. Other options are also available. COLA: None M. Non-Service Connected Disability For Members hired prior to September 30, 2015: Eligibility: Any member with 10 years of Credited Service who becomes totally and permanently disabled is immediately eligible for a disability benefit. Benefit: The accrued Normal Retirement Benefit with a minimum equal to 25% of FAC and a maximum equal to 50% of FAC. If employed by the City on or after September 13, 2004 the 50% of FAC maximum is ignored. Normal Form of Benefit: Payable until death or recovery from disability or until the member reaches Early or Normal Retirement Age and elects to receive Early or Normal Retirement Benefits in lieu of disability benefits. Other options are also available. COLA: None For Members hired on or after September 30, 2015: Eligibility: Any member with 10 years of Credited Service who becomes totally and permanently disabled is immediately eligible for a disability benefit. Benefit: The accrued Normal Retirement Benefit with a minimum equal to 25% of FAC and a maximum equal to 50% of FAC. Normal Form of Benefit: Payable until death or recovery from disability or until the member reaches Early or Normal Retirement Age and elects to receive Early or Normal Retirement Benefits in lieu of disability benefits. Other options are also available. COLA: None



## N. Death in the Line of Duty

# For Members hired prior to September 30, 2015:

I	Eligibility:	Any member whose death is determined to be the result of a service incurred injury is eligible for survivor benefits regardless of Credited Service.	
ſ	Benefit:	Beneficiary will receive a benefit equal to the greater of 75% of the member's FAC or the accrued Normal Retirement Benefit.	
ſ	Normal Form of Benefit:	Payable for the life of beneficiary, or if no designated beneficiary, payable for 10 years to the member's estate.	
(	COLA:	None	
<u>I</u>	For Members h	nired on or after September 30, 2015:	
I	Eligibility:	Any member whose death is determined to be the result of a service incurred injury is eligible for survivor benefits regardless of Credited Service.	
[	Benefit:	Beneficiary will receive a benefit equal to the accrued benefit up to 75% of the member's FAC actuarially adjusted for the beneficiary's age.	
ſ	Normal Form of Benefit:	Payable for the life of beneficiary, or if no designated beneficiary, payable for 10 years to the member's estate.	
(	COLA:	None	
0. C	O. Other Pre-Retirement Death		

#### ------

#### For Members hired prior to September 30, 2015:

- Eligibility: Members are eligible for survivor benefits after the completion of 10 or more years of Credited Service.
- Benefit: The beneficiary shall be entitled to receive an amount equal to the benefit that would have been payable at early or normal retirement age based upon Credited Service and FAC on the date of death, but payable as if the member had died on the day after commencement of benefits. Benefits will be paid according to the member's written election of an optional form of payment and begin on the member's early or normal retirement date. If there is no designated beneficiary, benefits are paid to the member's estate.



Normal Form	
of Benefit:	Payable according to the option elected or, if there was no option elected, 10
	years.

COLA: None

The beneficiary of a plan member with less than 10 years of Credited Service at the time of death will receive a refund of the member's regular contributions without interest.

#### For Members hired on or after September 30, 2015:

Eligibility:	Members are eligible for survivor benefits after the completion of 10 or more years of Credited Service.
Benefit:	The beneficiary shall be entitled to receive an amount equal to the member's accrued benefit on the date of death, actuarially adjusted for the beneficiary's age commencing on the date the member would have been eligible for Early or Normal Retirement.
Normal Form of Benefit:	Payable according to the option elected or, if there was no option elected, 10 years.

COLA: None

The beneficiary of a plan member with less than 10 years of Credited Service at the time of death will receive a refund of the member's regular contributions without interest.

#### P. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.

#### **Q.** Optional Forms

In lieu of electing the Normal Form of benefit, the optional forms of benefits available to all retirees are the life annuity and the 50%, 66 2/3%, 75% and 100% Joint and Survivor options with or without the pop-up feature.

#### **R. Vested Termination**

# For Members hired prior to September 30, 2015:

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion of 10 years of Credited Service.



Benefit: The benefit is the member's accrued Normal Retirement Benefit. Benefit begins on the date that would have been the member's Normal Retirement date based on Credited Service at termination. Members can also elect a reduced Early Retirement Benefit any time after age 47.

# Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.

COLA: Cost of living increases are paid according to the following table:

Termination or DROP Entry Date	Annual COLA <sup>1</sup>	COLA Start Date
Before 1/1/06	0.0%	No COLA is payable
1/1/06 - 9/30/08	2.0%	Fifth anniversary of the commencement date
On or after 10/1/08	2.5%	Fifth anniversary of the commencement date

<sup>1</sup> The COLA is payable for the lifetime of the retiree and continues to the retiree's survivor upon the retiree's death.

### For Members hired on or after September 30, 2015:

Eligibility:	A member has earned a non-forfeitable right to Plan benefits after the completion of 10 years of Credited Service.
Benefit:	The benefit is the member's accrued Normal Retirement Benefit. Benefit begins on the date that would have been the member's Normal Retirement date based on Credited Service at termination. Members can also elect a reduced Early Retirement Benefit any time after age 50.
Normal Form of Benefit:	10 Years Certain and Life thereafter; other options are also available.
COLA:	None
Refunds	
Eligibility:	All members terminating employment with less than 10 years of Credited Service are eligible.
Benefit:	Refund of the member's contributions without interest.



S.

# T. Member Contributions

9.84% of Compensation for members hired prior to September 30, 2015; and 8.50% of Compensation for members hired on or after September 30. 2015.

#### U. State Contributions

Chapter 185 Premium Tax Refunds.

#### V. Employer Contributions

Any additional amount determined by the actuary needed to fund the plan properly according to State laws.

#### W. Cost of Living Increases

### For Members hired prior to September 30, 2015:

Cost of living increases are payable on Normal Retirement Benefits only, whether paid directly or through the DROP, and are paid according to the following table:

Termination or DROP Entry Date	Annual COLA <sup>1</sup>	COLA Start Date
Before 1/1/06	0.0%	No COLA is payable
1/1/06 - 9/30/08	2.0%	Fifth anniversary of the commencement date
On or after 10/1/08	2.5%	Fifth anniversary of the commencement date <sup>2</sup>

<sup>1</sup> The COLA is payable for the lifetime of the retiree and continues to the retiree's survivor upon the retiree's death.

<sup>2</sup> For DROP members, the COLA will start on the later of the fifth anniversary of the commencement date or the first of the month following termination of employment and will continue annually on the anniversary of that date.

#### For Members hired on or after September 30, 2015:

None

# X. $13^{th} / 14^{th}$ Check

# For Members hired prior to September 30, 2015:

A 13<sup>th</sup> and/or 14<sup>th</sup> Check may be payable during years in which there is a net actuarial gain and cumulative gains since October 1, 2000. Members who terminated employment with immediate eligibility for early or normal retirement on or after August 14, 2001 and retired before December 13, 2004 are eligible for the 13<sup>th</sup> or 14<sup>th</sup> Check.



# For Members hired on or after September 30, 2015:

A 13<sup>th</sup> check benefit will be paid to retirees when the Plan is 100% funded. The benefit will be the amount of investment earnings that exceeded the Plan's assumed rate of return for the plan year, but it cannot exceed 100% of the monthly retirement benefits of the eligible retirees.

# Y. Deferred Retirement Option Plan

#### For Members hired prior to September 30, 2015:

Eligibility:	Plan members who have met one of the following criteria are eligible for the DROP:	
	<ul><li>(1) age 53 with 10 years of Credited Service, or</li><li>(2) 20 years of Credited Service regardless of age.</li></ul>	
	Members who meet eligibility must submit a written election to participate in the DROP.	
Benefit:	The member's Credited Service and FAC are frozen upon entry into the DROP. The monthly retirement benefit as described under Normal Retirement is calculated based upon the frozen Credited Service and FAC. The monthly supplemental benefit is payable once DROP participation ends.	
Maximum DROP Period:	84 months; for DROP members as of August 9, 2011 who did not elect to extend the maximum DROP participation period, 72 months.	
Interest Credited:	For members who enter the DROP on or after August 9, 2011, the member's DROP account is credited at a fixed rate of 6% per year. If the member elects a self-directed DROP, the investment return is determined by the self-directed investments. For DROP members as of August 9, 2011 who did not elect to extend the maximum period of DROP participation from 72 months to 84 months, the member's DROP account is credited at the same interest rate, compounded monthly, as the investment earnings assumption for the Pension Plan.	
Normal Form of Benefit:	Lump Sum, Direct Rollover, or Partial Lump Sum with a Direct Rollover of remaining balance.	



# COLA: Cost of living increases are paid to DROP participants according to the following table:

Termination or	Annual	
DROP Entry Date	COLA <sup>1</sup>	COLA Start Date
Before 1/1/06	0.0%	No COLA is payable
1/1/06 - 9/30/08	2.0%	Fifth anniversary of the commencement date
On or after 10/1/08	2.5%	Fifth anniversary of the commencement
		date <sup>2</sup>

<sup>1</sup> The COLA is payable for the lifetime of the retiree and continues to the retiree's survivor upon the retiree's death.

<sup>2</sup> For DROP members, the COLA will start on the later of the fifth anniversary of the commencement date or the first of the month following termination of employment and will continue annually on the anniversary of that date.

#### For Members hired on or after September 30, 2015:

Eligibility:	Plan members who have met one of the following criteria are eligible for the DROP:
	<ul><li>(1) age 55 with 10 years of Credited Service, or</li><li>(2) age 52 with 25 years of Credited Service.</li></ul>
	Members who meet eligibility must submit a written election to participate in the DROP within 6 months of being eligible for Normal Retirement.
Benefit:	The member's Credited Service and FAC are frozen upon entry into the DROP. The monthly retirement benefit as described under Normal Retirement is calculated based upon the frozen Credited Service and FAC. The monthly supplemental benefit is payable once DROP participation ends.
Maximum DROP Period:	4 years
Interest Credited:	0% until the Pension Plan is 100% funded. If the Plan becomes 100% funded the DROP account is credited at the same interest rate, compounded monthly, as the investment earnings assumption for the Pension Plan with a minimum of 0% and a maximum of 4%.
Normal Form of Benefit:	Lump Sum, Direct Rollover, or Partial Lump Sum with a Direct Rollover of remaining balance.
COLA:	None



# Z. Share Plan

- Eligibility: All active plan members (including DROP participants) who have a least 1 full year of Credited Service on the last day of the fiscal year when funds are available to be shared. Share Plan funds are derived from any Chapter 185 revenue received by the City in excess of \$2,137,895 which will be held in reserve and may be used provide benefits. The City and the Fraternal Order of police will negotiate the use of the excess Chapter 185 revenue.
- Benefit: Each eligible member's share account will be credited with an equal share of the available funds.

# Normal Form

- of Benefit: A lump sum payment of the Share Plan account balance payable within 60 days following retirement. Non-vested members or any member who terminates employment and elects to take a refund of their employee contributions will forfeit their Share Plan account balance.
- COLA: None

#### AA. Other Ancillary Benefits

There are no ancillary retirement type benefits not required by statutes but which might be deemed a City of Sunrise Police Officers' Retirement System liability if continued beyond the availability of funding by the current funding source.

#### **BB.** Changes from Previous Valuation

Under Ordinance No. 124-X-23-A, adopted on November 14, 2023, for members hired or rehired on or after September 30, 2015, the normal retirement eligibility has been changed to the earlier of age 55 with 10 years of service or 25 years of service regardless of age (previously, the earlier of age 55 with 10 years of service or age 52 with 25 years of service). In addition, the employee contribution rate for members hired or rehired on or after September 30, 2015 has increased from 8.0% to 8.5% of salary.

