# MIAMI SPRINGS GENERAL EMPLOYEES RETIREMENT SYSTEM

ANNUAL ACTUARIAL VALUATION AS OF OCTOBER 1, 2023

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







May 1, 2024

Board of Trustees City of Miami Springs General Employees Retirement System Miami Springs, Florida

Re: City of Miami Springs General Employees Retirement System
Actuarial Valuation as of October 1, 2023 and Actuarial Disclosures

**Dear Board Members:** 

The results of the October 1, 2023 Annual Actuarial Valuation of the City of Miami Springs General Employees 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 report the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 67 for the fiscal year ending September 30, 2023. This report also includes estimated GASB Statement No. 67 information for the fiscal year ending September 30, 2024. 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 in Section A 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 and 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 reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

Board of Trustees City of Miami Springs General Employees Retirement System May 1, 2024 Page ii

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 Cost Method section were prescribed by the Florida Statutes in accordance with Florida Statutes Chapter 112.63. All actuarial assumptions used in this report are reasonable for purposes of this valuation. The combined effect of the assumptions is expected to have no significant bias (i.e. not significantly optimistic or pessimistic).

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 City of Miami Springs General Employees 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.

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.

Peter N. Strong and Nicolas Lahaye 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

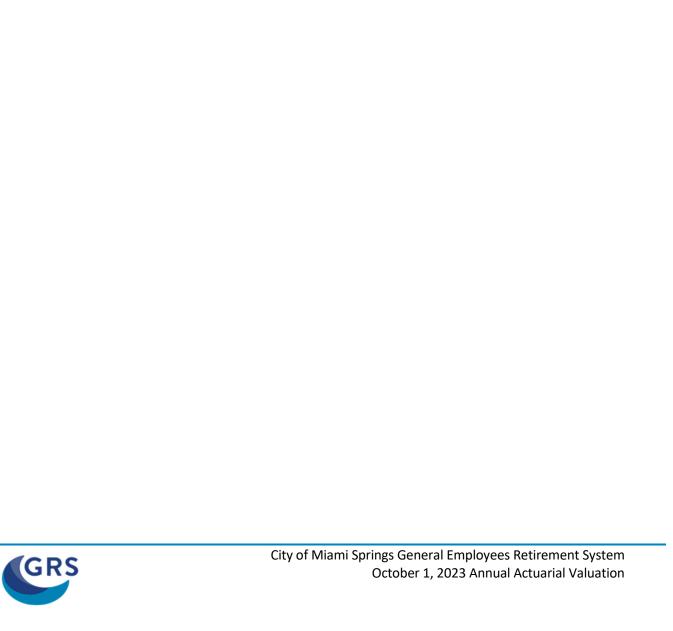
Peter N. Strong, FSA MAAA, FCA Enrolled Actuary No. 23-6975

Nicolas Lahaye, FSA, MAAA, FCA Enrolled Actuary No. 23-7775

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**DISCUSSION OF VALUATION RESULTS** 

#### **DISCUSSION OF VALUATION RESULTS**

#### **Comparison of Required Employer Contributions**

The required employer contribution developed in this year's valuation is compared below to last year's results.

	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 Employer Contribution Before Threshold is Applied, assuming equal installments throughout the year As % of Covered Payroll	\$ 543,499 11.55 %	\$ 503,115 11.77 %	\$ 40,384 (0.22) %
Required Employer Contribution After Threshold is Applied, assuming equal installments throughout the year As % of Covered Payroll	\$ 507,266 10.78 %	\$ 465,499 10.89 %	\$ 41,767 (0.11) %
Required Employer Contribution After Threshold is Applied, assuming full payment on October 1st As % of Covered Payroll	\$ 490,145 10.42 %	\$ 449,679 10.52 %	\$ 40,466 (0.10) %
As % of Total Payroll including DROP participants	10.13 %	10.19 %	(0.06) %
Member Contribution Rate	5.77 %	5.88 %	(0.11) %

The required contribution of \$490,145 has been calculated under the assumption that full payment will be made on October 1, 2024. The actual employer contribution for the year ending September 30, 2023 was \$427,903. The required contribution reflecting actual payment timing was \$427,903.

#### **Revision in Benefits**

There have been no revisions in benefits since the last valuation.

#### **Revisions in Actuarial Assumptions or Methods**

There have been no revisions in assumptions or methods since the last valuation.



#### **Actuarial Experience**

There was a net actuarial loss of \$255,819 for the year which means that actual experience was less favorable than expected. The loss is primarily due to a recognized investment return (on the actuarial value of assets) below the assumed rate of 7.00%. The investment return was 5.6% based on the actuarial value of assets and 9.8% based on the market value of assets.

Demographic experience resulted in net actuarial gains due to more employment terminations than expected (17 actual versus 9 expected) and fewer retirements than expected (0 actual versus 3 expected).

Since the Plan is currently fully funded based on the Actuarial Value Assets and since the employer is required to contribute at least the normal cost (i.e., negative amortization payments are not permitted to reduce the normal cost), the net experience loss had no impact on the required employer contribution.

#### **Funded Ratio**

The funded ratio, one measure of the Plan's financial health, is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability. The funded ratio is 102.2% this year compared to 103.2% last year.

#### **Analysis of Change in Employer Contribution**

The components of change in the required contribution as a percent of payroll are as follows:

Contribution Rate Last Year*	11.37 %
Experience (Gains) or Losses	0.00
Revision in Assumptions/Methods	0.00
Amortization Payment on UAAL	0.00
Normal Cost Rate	0.00
Administrative Expense	(0.21)
Contribution Rate This Year*	11.16

<sup>\*</sup>Before threshold is applied, assuming full payment on October 1st.

#### **Variability of Future Contribution Rates**

The Actuarial Cost Method used to determine the contribution rate 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 \$1,633,080 as of the valuation date (see Section C). This difference will be gradually recognized over the next four years. In turn, the computed employer contribution rate will increase by approximately 3.17% of covered payroll (as of the beginning of the contribution year and before the threshold is applied) over the same period in the absence of offsetting gains.



#### **Relationship to Market Value**

If we were not using an asset smoothing method, the City contribution rate would have been 14.33% (as of the beginning of the contribution year and before the threshold is applied) and the funded ratio would have been 94.9%. The market value-based funded ratio was 92.5% last year. In the absence of offsetting gains, the City contribution rate would be expected to increase to approximately that level and the funded ratio would be expected to decrease over the next four years.

#### **Conclusion**

It is highly recommended that Experience Studies be performed regularly to keep the actuarial assumptions and methods up to date with evolving Plan experience. The last experience study for the Plan was prepared more than five years ago (dated December 22, 2017). The Government Finance Officers Association (GFOA) recommends experience studies once every five years as a best practice. Therefore, we recommend the Board authorize an updated Experience Study – either this year or next year.

The remainder of this Report includes detailed actuarial valuation results, financial information, miscellaneous information and statistics, 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 total payroll	4.7	4.9
Ratio of actuarial accrued liability to payroll	5.0	5.3
Ratio of actives to retirees and beneficiaries	1.0	1.0
Ratio of net cash flow to market value of assets (Net of DROP)	-3.9%	-4.2%
Duration of the actuarial accrued liability	11.1	10.9

#### **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.



#### **Duration of Actuarial Accrued Liability**

The duration of the actuarial accrued liability may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, duration of 10 indicates that the liability would increase approximately 10% if the assumed rate of return were lowered 1%.

#### **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.



#### 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: \$29,352,832
- B. Discount rate used to calculate the LDROM: 4.63%
- C. Other significant assumptions that differ from those used for the funding valuation: none
- D. Actuarial cost method used to calculate the LDROM: Entry Age Normal
- 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: <a href="mailto:none">none</a>
- 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: The LDROM is a market-based measurement of the pension obligation. 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.



### **SECTION B**

**VALUATION RESULTS** 

PARTICIPANT DATA						
	October 1, 2023		Oc	tober 1, 2022		
ACTIVE MEMBERS						
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$	82 4,546,496 55,445 42.9 7.3 35.6	\$	81 4,130,003 50,988 41.0 6.6 34.4		
RETIREES, BENEFICIARIES & DROP						
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	79 * 1,296,747 16,625 73.4	\$	83 * 1,341,800 16,363 72.4		
DISABILITY RETIREES						
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	1 22,125 22,125 56.3	\$	1 22,125 22,125 55.3		
TERMINATED VESTED MEMBERS						
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	7 70,481 10,069 55.5	\$	7 70,481 10,069 54.5		

<sup>\*</sup>The count includes 1 beneficiary who is only due a refund of employee contributions.



ACTUARIALLY DETERMINED (REQUIRED) CONTRIBUTION (ADC)					
A. Valuation Date	October 1, 2023  Assuming City  Contribution made  October 1st	October 1, 2023	October 1, 2022  Assuming City  Contribution made  October 1st		
B. ADC to Be Paid During Fiscal Year Ending	9/30/2025	9/30/2025	9/30/2024		
C. Assumed Dates of Employer Contributions	10/1/2024	Evenly	10/1/2023		
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 0 *	\$ 0 *	\$ 0 *		
E. Employer Normal Cost	507,464	507,464	469,426		
F. Employer ADC if Paid on the Valuation Date: D+E	507,464	507,464	469 <i>,</i> 426		
G. Employer ADC Adjusted for Frequency of Payments	507,464	525,306	469,426		
H. Employer ADC as % of Covered Payroll	11.16 %	11.55 %	11.37 %		
Assumed Rate of Increase in Covered     Payroll to Contribution Year	3.50 %	3.50 %	3.50 %		
J. Covered Payroll for Contribution Year	4,705,623	4,705,623	4,274,553		
K. Employer ADC for Contribution Year Before Threshold: H x J	525,148	543,499	486,017		
L. Employer ADC as % of Covered Payroll in Contribution Year Before 10% Threshold: K÷J	11.16 %	11.55 %	11.37 %		
M. Employer ADC after Threshold	490,145	507,266	449,679		
N. Employer ADC as % of Covered Payroll after Threshold: M ÷ J	10.42 %	10.78 %	10.52 %		
O. Member Contribution Rate	5.77 %**	5.77 %	5.88 %**		

<sup>\*</sup> The annual payment to amortize the UAL is less than \$0; however, under Chapter 112.66 of the Florida Statutes, the annual payment to amortize the UAL may not reduce the contribution below the amount required to fund the Normal Cost.

<sup>\*\*</sup> Member Contributions are still assumed to be made evenly throughout the year.



	ACTUARIAL VALUE OF BENEFITS AND ASSETS						
Α.	Valuation Date	October 1, 2023	October 1, 2022				
В.	Actuarial Present Value of All Projected Benefits for  1. Active Members a. Service Retirement Benefits	\$ 11,931,231	\$ 10,398,184				
	<ul><li>b. Vesting Benefits</li><li>c. Disability Benefits</li><li>d. Preretirement Death Benefits</li><li>e. Return of Member Contributions</li><li>f. Total</li></ul>	1,690,622 103,642 176,297 83,284 13,985,076	1,548,643 94,831 155,452 92,987 12,290,097				
	<ol> <li>Inactive Members         <ul> <li>Service Retirees &amp; Beneficiaries</li> <li>Disability Retirees</li> <li>Terminated Vested Members</li> <li>Total</li> </ul> </li> </ol>	12,499,126 203,631 684,687 13,387,444	13,229,076 206,723 636,252 14,072,051				
	3. Total for All Members	27,372,520	26,362,148				
C.	Actuarial Accrued (Past Service) Liability	22,577,205	21,938,470				
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	20,064,117	19,792,768				
E.	Plan Assets 1. Market Value 2. Actuarial Value	21,430,144 23,063,224	20,287,892 22,639,021				
F.	Unfunded Actuarial Accrued Liability: (C - E2)	(486,019)	(700,551)				
G. Actuarial Present Value of Projected Covered Payroll		33,874,002	31,226,305				
H. Actuarial Present Value of Projected Member Contributions		1,693,700	1,561,315				
I.	Accumulated Value of Active Member Contributions	2,219,157	1,991,478				



CALCULATION OF EMPLOYER NORMAL COST						
A. Valuation Date		October 1, 2023		October 1, 2022		
B. Normal Cos	et for					
<ol> <li>Vesting</li> <li>Disabilit</li> <li>Preretire</li> <li>Return o</li> <li>Total for</li> </ol>	y Benefits ement Death Benefits f Member Contributions Future Benefits d Amount for Administrative s	\$ -	478,591 127,785 5,372 8,279 25,322 645,349 89,440 734,789	\$ _	431,744 119,132 5,072 7,771 22,609 586,328 89,598 675,926	
C. Expected N	lember Contribution		227,325		206,500	
D. Employer N	Iormal Cost: B8-C		507,464		469,426	
E. Employer N Covered Pa	Iormal Cost as % of yroll		11.16 %		11.37 %	



#### LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

UAAL Amoritzation Period and Payments						
	Original U		Current UAAL	i		
FYE	Source	Amortization Period (Years)	Amount	Years Remaining	Amount	Payment
10/1/2009	Initial Unfunded	30	\$ (27,259)	16	\$ 124,519	\$ 12,319
10/1/2010	(Gain)/Loss	20	117,494	7	83,040	14,400
10/1/2010	Assumption Change	30	140,520	17	143,457	13,732
10/1/2011	(Gain)/Loss	20	327,186	8	212,982	33,334
10/1/2011	Assumption Change	30	147,089	18	132,461	12,307
10/1/2012	(Gain)/Loss	20	377,521	9	264,912	38,000
10/1/2012	Assumption Change	30	152,846	19	140,537	12,708
10/1/2013	(Gain)/Loss	20	203,827	10	146,962	19,555
10/1/2013	Assumption Change	30	156,294	20	141,764	12,506
10/1/2014	(Gain)/Loss	20	(279,983)	11	(215,787)	(26,894)
10/1/2015	(Gain)/Loss	20	(12,884)	12	(10,791)	(1,270)
10/1/2016	(Gain)/Loss	20	(16,073)	13	(14,092)	(1,576)
10/1/2016	Assumption Change	30	326,373	23	323,010	26,781
10/1/2017	(Gain)/Loss	20	(257,623)	14	(229,232)	(24,497)
10/1/2017	Assumption Change	30	480,156	24	471,782	38,443
10/1/2018	(Gain)/Loss	20	(568,425)	15	(523,860)	(53,754)
10/1/2018	Assumption Change	30	493,160	25	490,620	39,346
10/1/2019	(Gain)/Loss	20	(101,798)	16	(96,352)	(9,532)
10/1/2020	(Gain)/Loss	20	(588,213)	17	(582,589)	(55,768)
10/1/2020	Assumption Change	30	(417,472)	27	(428,824)	(33,435)
10/1/2021	(Gain)/Loss	20	(1,153,433)	18	(1,422,308)	(132,145)
10/1/2022	(Gain)/Loss	20	100,210	19	105,951	9,580
10/1/2023	(Gain)/Loss	20	255,819	20	255,819	22,568
			\$ (144,668)		\$ (486,019)	\$ (33,292)

#### **Amortization Schedule**

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

Amortization Schedule					
Year Expected UAA					
2023	\$ (486,019)				
2024	(484,415)				
2025	(482,702)				
2026	(480,872)				
2027	(478,910)				
2028	(476,814)				
2033	(299,887)				
2038	270,278				
2043	194,378				
2048	(64,647)				
2050	0				



#### **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:

	Derivation of the Current UAAL						
1.	Last Year's UAAL	\$	(700,551)				
2.	Last Year's Employer Normal Cost*		435,147				
3.	Last Year's Contributions		427,903				
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b	_	(18,578) 29,953 (48,531)				
5.	This Year's Expected UAAL: 1+2-3+4c		(741,838)				
6.	This Year's Actual UAAL (Before any changes in benefits and/or assumptions)		(486,019)				
7.	Net Actuarial Gain (Loss): (5) - (6)		(255,819)				
8.	Gain (Loss) due to investments		(312,632)				
9.	Gain (Loss) due to other sources		56,813				

<sup>\*</sup>Reflecting 5.83% employee contribution rate for fiscal year beginning October 1, 2022.

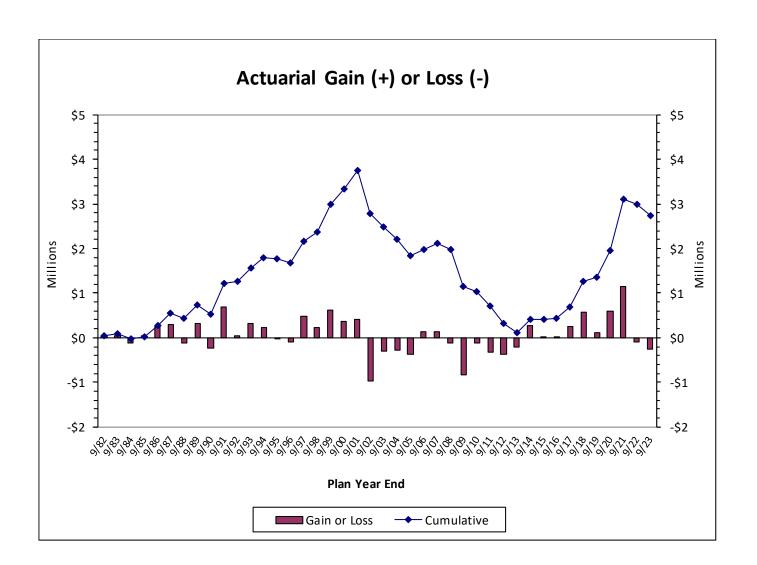


Net actuarial gains (losses) in previous years have been as follows:

Year Ended		Net Gain (Loss)	
9/30	Program A	Program B	Total
1982	\$ (2,335)	\$ 44,869	\$ 42,534
1983	46,535	581	47,116
1984 1985	(58,275) (10,290)	(57,793) 56,699	(116,068) 46,409
1986	82,066	164,139	246,205
1987	119,175	170,784	289,959
1988	(17,814)	(110,004)	(127,818)
1989			315,845
1990			(226,101)
1991			697,646
1992			41,913
1993			314,306
1994			229,013
1995 1996			(23,052) (94,520)
1997			470,551
1998			216,517
1999			612,683
2000			360,328
2001			412,403
2002			(973,805)
2003			(306,284)
2004			(276,317)
2005 2006			(368,464) 141,707
			•
2007 2008			136,442 (127,451)
2009			(834,865)
2010			(117,494)
2011			(327,186)
2012			(377,521)
2013			(203,827)
2014			279,983
2015			12,884
2016			16,073
2017 2018			257,623 568,425
2018			101,798
2019			588,213
2021			1,153,433
2022			(100,210)
2023			(255,819)

Note: After 1988, Programs A and B combined.





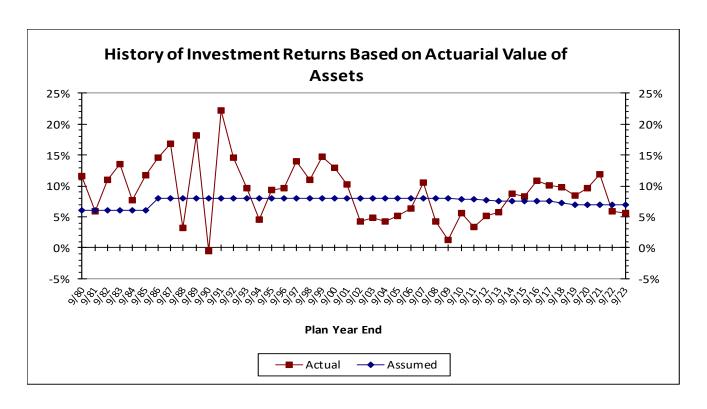


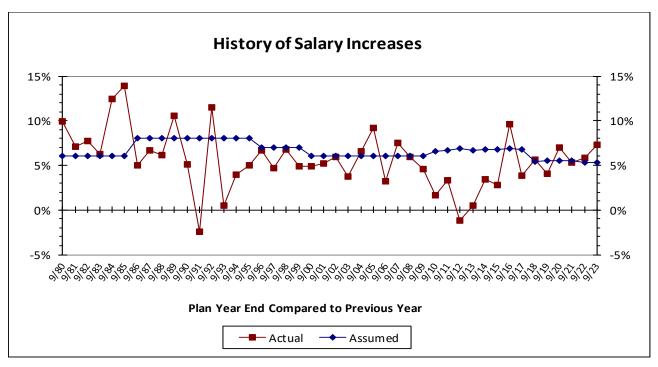
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

	Investmen	it Return	Salary Ir	ncreases
Year Ending	Actual	Assumed	Actual	Assumed
9/30/1980	11.6 %	6.0 %	9.9 %	6.0 %
9/30/1981	5.9	6.0	7.1	6.0
9/30/1982	11.0	6.0	7.7	6.0
9/30/1983	13.6	6.0	6.3	6.0
9/30/1984	7.7	6.0	12.4	6.0
9/30/1985	11.8	6.0	13.9	6.0
9/30/1986	14.5	8.0	5.0	8.0
9/30/1987	16.8	8.0	6.7	8.0
9/30/1988	3.2	8.0	6.2	8.0
9/30/1989	18.2	8.0	10.6	8.0
9/30/1990	(0.5)	8.0	5.1	8.0
9/30/1991	22.2	8.0	(2.4)	8.0
9/30/1992	14.6	8.0	11.5	8.0
9/30/1993	9.6	8.0	0.5	8.0
9/30/1994	4.6	8.0	4.0	8.0
9/30/1995	9.4	8.0	5.0	8.0
9/30/1996	9.6	8.0	6.7	7.0
9/30/1997	13.9	8.0	4.7	7.0
9/30/1998	11.0	8.0	6.8	7.0
9/30/1999	14.7	8.0	4.9	7.0
9/30/2000	12.9	8.0	4.9	6.0
9/30/2001	10.2	8.0	5.2	6.0
9/30/2002	4.3	8.0	5.9	6.0
9/30/2003	4.8	8.0	3.7	6.0
9/30/2004	4.2	8.0	6.6	6.0
9/30/2005	5.2	8.0	9.2	6.0
9/30/2006	6.3	8.0	3.2	6.0
9/30/2007	10.6	8.0	7.5	6.0
9/30/2008	4.2	8.0	5.9	6.0
9/30/2009	1.3	8.0	4.6	6.0
9/30/2010	5.6	7.9	1.7	6.6
9/30/2011	3.3	7.8	3.3	6.7
9/30/2012	5.1	7.7	(1.2)	6.9
9/30/2013	5.8	7.6	0.5	6.7
9/30/2014	8.8	7.5	3.4	6.8
9/30/2015	8.4	7.5	2.9	6.8
9/30/2016	10.8	7.5	9.6	6.8
9/30/2017	10.1	7.5	3.9	6.8
9/30/2018	9.9	7.25	5.7	5.4
9/30/2019	8.5	7.0	4.1	5.5
9/30/2020	9.7	7.0	7.0	5.5
9/30/2021	11.9	7.0	5.3	5.5
9/30/2022	5.9	7.0	5.9	5.3
9/30/2023	5.6	7.0	7.3	5.4
Averages	8.9 %		5.6 %	

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









## Actual (A) Compared to Expected (E) Decrements Among Active Employees

Year	Num Add Dur Ye	led ing	DF	ice & ROP	Disab Retire	•	De	ath	Te Vested	erminat Other		tals	Active Members End of
Ended	A	E	A	E	A	E	A	E	A	A	Α	E	Year
9/30/2002	17	16	8	12	0	0	0	0	3	5	8	4	88
9/30/2003	9	7	0	9	0	0	1	0	4	2	6	4	90
9/30/2004	10	17	3	10	0	0	0	0	2	12	14	4	83
9/30/2005	12	17	6	7	0	1	0	1	3	8	11	3	78
9/30/2006	19	15	3	7	0	0	0	0	0	12	12	3	82
9/30/2007	6	8	0	7	0	0	0	0	2	6	8	3	80
9/30/2008	7	12	0	10	0	0	1	0	1	10	11	3	75
9/30/2009	4	6	1	10	0	0	0	0	1	4	5	3	73
9/30/2010	12	6	2	8	0	0	0	0	1	3	4	5	79
9/30/2011	6	15	11	8	0	0	1	0	0	3	3	6	70
9/30/2012	4	12	5	5	0	0	0	0	2	5	7	6	62
9/30/2013	4	11	5	3	0	0	0	0	3	3	6	4	55
9/30/2014	4	9	5	4	0	0	1	0	1	2	3	4	50
9/30/2015	9	7	4	3	0	0	0	0	2	1	3	4	52
9/30/2016	28	10	3	2	1	0	0	0	1	5	6	5	70
9/30/2017	15	12	0	1	0	0	0	0	3	9	12	9	73
9/30/2018	14	11	1	1	0	0	0	0	1	9	10	10	76
9/30/2019	10	7	3	3	0	0	0	0	0	4	4	9	79
9/30/2020	11	13	1	3	0	0	0	0	1	11	12	9	77
9/30/2021	19	16	2	3	0	0	1	0	3	10	13	8	80
9/30/2022	22	21	2	3	0	0	0	0	3	16	19	9	81
9/30/2023	18	17	0	3	0	0	0	0	0	17	17	9	82
9/30/2024				5		0		0				9	
22 Yr Totals *	260	265	65	122	1	1	5	1	37	157	194	124	

<sup>\*</sup> Totals are through current Plan Year only



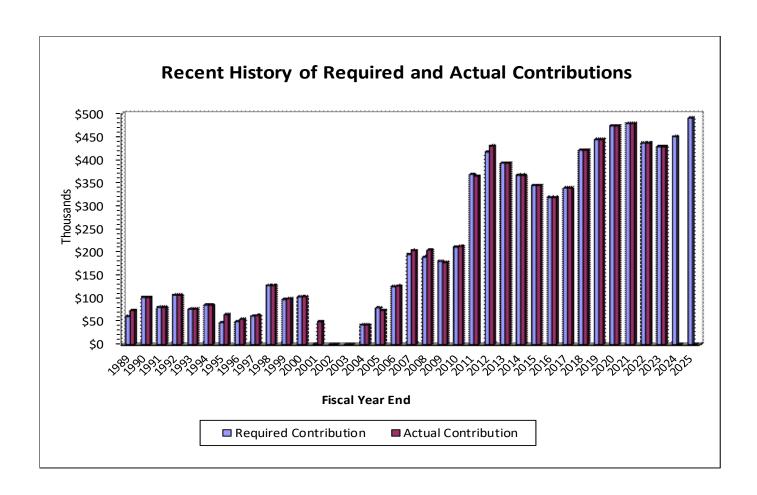
	RECENT HISTORY OF VALUATION RESULTS								
	Numb							Employer N	ormal Cost
Valuation	Active	Inactive	Covered Annual	Actuarial Value	Actuarial Accrued	Unfunded AAL	Funded		
Date	Members	Members	Payroll	of Assets	Liability (AAL)	(UAAL)	Ratio	Amount	% of Payroll
10/1/91	86	33	\$ 2,162,473	\$ 4,555,581	\$ 3,460,829	\$ (1,094,752)	131.6 %	. ,	3.13 %
10/1/92	85	36	2,442,571	4,976,504	4,237,651	(738,853)	117.4	75,670	3.10
10/1/93	95	36	2,491,348	5,460,492	4,369,493	(1,090,999)	125.0	42,189	1.69
10/1/94	95	35	2,550,907	5,752,917	4,456,390	(1,296,527)	129.1	44,036	1.73
10/1/95	97	40	2,602,431	6,270,385	5,318,611	(951,774)	117.9	54,597	2.10
10/1/96	98	41	2,863,384	6,830,478	5,955,713	(874,765)	114.7	113,027	3.95
10/1/97	96	42	2,916,129	7,703,046	6,380,390	(1,322,656)	120.7	85,972	2.95
10/1/98	94	44	2,977,751	8,495,731	6,883,280	(1,612,451)	123.4	74,966	2.52
10/1/99	90	49	2,863,379	9,646,613	7,308,588	(2,338,025)	132.0	(48,901)	(1.71)
10/1/00	93	51	3,069,479	10,780,335	8,273,005	(2,507,330)	130.3	(50,445)	(1.64)
10/1/01	87	53	2,987,599	11,671,813	9,132,700	(2,539,113)	127.8	(86,060)	(2.88)
10/1/02	88	60	3,222,834	11,845,208	9,776,521	(2,068,687)	121.2	38,617	1.20
10/1/03	90	62	3,262,260	12,040,035	10,265,029	(1,775,006)	117.3	73,162	2.24
10/1/04	83	66	3,160,625	12,194,853	10,766,920	(1,427,933)	113.3	114,745	3.63
10/1/05	78	72	3,155,692	12,407,308	11,326,985	(1,080,323)	109.5	178,678	5.66
10/1/06	82	66	3,157,952	12,767,033	11,434,793	(1,332,240)	111.7	173,533	5.50
10/1/07	80	68	3,364,865	13,786,880	12,271,087	(1,515,793)	112.4	166,555	4.95
10/1/08	75	67	3,429,028	13,945,299	12,736,662	(1,208,637)	109.5	194,819	5.68
10/1/09	73	67	3,495,598	13,736,039	13,708,780	(27,259)	100.2	347,141	9.93
10/1/10	79	66	3,731,068	14,132,944	14,515,197	382,253	97.4	379,050	10.16
10/1/11	70	74	3,221,566	14,316,041	15,232,512	916,471	94.0	337,176	10.47
10/1/12	62	78	2,821,874	14,537,003	15,971,613	1,434,610	91.0	305,853	10.84
10/1/13	55	84	2,430,353	14,657,002	16,482,270	1,825,268	88.9	265,890	10.94
10/1/14	50	88	2,238,008	15,260,442	16,757,713	1,497,271	91.1	260,482	11.64
10/1/15	52	93	2,379,287	15,830,330	17,237,855	1,407,525	91.8	287,565	12.09
10/1/16	70	97	3,112,373	16,570,614	18,254,929	1,684,315	90.8	349,525	11.23
10/1/17	73	96	3,305,740	17,403,690	19,316,048	1,912,358	90.1	363,119	10.98
10/1/18	76	92	3,554,733	18,383,837	20,182,852	1,799,015	91.1	416,619	11.72
10/1/19	79	93	3,639,150	19,327,362	20,999,722	1,672,360	92.0	425,599	11.70
10/1/20	77	93	3,730,509	20,473,576	21,077,859	604,283	97.1	420,326	11.27
10/1/21	80	91	3,949,416	22,171,558	21,479,809	(691,749)	103.2	445,118	11.27
10/1/22	81	91	4,130,003	22,639,021	21,938,470	(700,551)	103.2	469,426	11.37
10/1/23	82	87	4,546,496	23,063,224	22,577,205	(486,019)	102.2	507,464	11.16



	RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS						
	Required City						
Valuation	For Fiscal Year Ended	Contribution	Contribution*				
Date	September 30		% of	Contribution			
		Amount	Payroll				
10/1/87	1989	60,925	3.35	74,102			
10/1/88	1990	101,962	5.32	101,962			
10/1/89	1991	80,477	3.69	80,477			
10/1/90	1992	107,013	4.80	107,013			
10/1/91	1993	76,662	3.55	76,662			
10/1/92	1994	85,691	3.51	85,691			
10/1/93	1995	47,776	1.92	64,713			
10/1/94	1996	49,868	1.95	55,128			
10/1/95	1997	61,827	2.38	63,427			
10/1/96	1998	127,995	4.47	127,995			
10/1/97	1999	97,357	3.34	99,564			
10/1/98	2000	103,440	3.47	103,846			
10/1/99	2001	789	0.03	49,687			
10/1/00	2002	0	0.00	0			
10/1/01	2003	0	0.00	0			
10/1/02	2004	42,827	1.36	42,827			
10/1/03	2005	79,730	2.35	74,265			
10/1/04	2006	125,237	3.81	126,928			
10/1/05	2007	194,946	5.94	203,625			
10/1/06	2008	189,174	5.76	204,774			
10/1/07	2009	180,222	5.15	177,356			
10/1/08	2010	210,762	5.91	212,519			
10/1/09	2011	368,268	10.13	364,282			
10/1/10	2012	416,357	10.73	429,403			
10/1/11	2013	392,670	11.72	392,670			
10/1/12	2014	366,204	12.48	366,204			
10/1/13	2015	344,236	13.62	344,236			
10/1/14	2016	317,957	13.66	317,957			
10/1/15	2017	338,551	13.68	338,551			
10/1/16	2018	420,570	12.99	420,570			
10/1/17	2019	443,293	12.96	443,293			
10/1/18	2020	472,860	12.85	472,860			
10/1/19	2021	478,209	12.70	478,209			
10/1/20	2022	435,789	11.29	435,789			
10/1/21	2023	427,903	10.47	427,903			
10/1/22	2024	449,679	10.52				
10/1/23	2025	490,145	10.42				

<sup>\*</sup> Reflecting threshold after fiscal year ending September 30, 2010 and reflecting beginning of year expected contribution timing (October 1st) after fiscal year ending September 30, 2013.







#### 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:

- (i) 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 phases in the difference between the actual and expected investment earnings over a period of 5 years. The Actuarial Value of Assets will be 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. With the exception of the mortality assumption, which is prescribed by Florida Statutes, all assumptions listed herein were established following the Assumption Study and Experience Review for the Nine-Year Period Ending September 30, 2016, dated December 22, 2017.

#### **Economic Assumptions**

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

The **Inflation Rate** assumed in this valuation was 2.5% per year. The Inflation Rate is defined to be the expected long-term rate of annual 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 7.00% investment return rate translates to an assumed real rate of return over inflation of 4.50%.



The assumed rates of salary increase for individual active members are shown below. This assumption is used to project a member's current salary to the salaries upon which benefits will be based. Part of the assumption is for productivity, merit and/or seniority increase, and 2.5% recognizes inflation.

	% Increase in Salary					
Years of	Merit and	Base	Total			
Service	Seniority	(Economic)	Increase			
0 - 1	4.00%	2.50%	6.50%			
2 - 3	3.75	2.50	6.25			
4 - 11	3.50	2.50	6.00			
12 - 15	1.75	2.50	4.25			
16+	1.00	2.50	3.50			

#### **Demographic Assumptions**

**The mortality tables used in the valuation** are based on the PUB-2010 Headcount Weighted Mortality Tables described below, with mortality improvements projected to all future years after 2010 using Scale MP-2018.

	Pre-Retirement PUB-2010 Table	Post-Retirement PUB-2010 Table
Female	Headcount Weighted General Below Median Employee Female Table	Headcount Weighted General Below Median Healthy Retiree Female Table
Male	Headcount Weighted General Below Median Employee Male Table, set back 1 year	Headcount Weighted General Below Median Healthy Retiree Male Table, set back 1 year

These are the same rates as used by the Florida Retirement System (FRS) in their July 1, 2022 Actuarial Valuation Report for Regular (other than K-12 School Instructional Personnel) class members. Florida Statutes Chapter 112.63(1)(f) mandates the use of the mortality tables from either of the two most recently published actuarial valuation reports of FRS.

The following tables present post-retirement mortality rates and life expectancies at illustrative ages. These assumptions are used to measure the probabilities of each benefit payment being made after retirement.



FRS Healthy Post-Retirement Mortality for Regular Class Members

Sample	<b>Probability of</b>		Future Life	
Attained	Dying Next Year		Expectano	cy (years)
Ages (in 2023)	Men Women		Men	Women
50	0.19 %	0.57 %	33.34	37.13
55	0.95	0.57	28.97	32.68
60	1.12	0.59	24.86	28.13
65	1.28	0.68	20.78	23.53
70	1.78	1.08	16.75	19.05
75	2.83	1.85	13.03	14.86
80	4.74	3.34	9.74	11.09

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

FRS Healthy Pre-Retirement Mortality for Regular Class Members

Sample	Probability of		Future Life	
Attained	Dying Ne	xt Year	Expectano	cy (years)
Ages (in 2023)	Men	Women	Men	Women
50	0.19 %	0.11 %	37.88	40.41
55	0.29	0.17	32.87	35.28
60	0.45	0.26	28.01	30.25
65	0.64	0.37	23.31	25.32
70	0.89	0.56	18.74	20.49
75	1.33	0.92	14.30	15.80
80	2.10	1.55	9.99	11.28

This assumption is used to measure the probabilities of active members dying prior to retirement.

For disabled retirees, the mortality table is the PUB-2010 Headcount Weighted General Disabled Retiree Table with ages set forward 3 years for males and females, with no provision being made for future mortality improvements. These are the same rates in use for Regular class members of FRS in the July 1, 2022 FRS Actuarial Valuation.



#### **FRS Disabled Mortality for Regular Class Members**

Sample	Probabil	ity of	Future Life		
Attained	Dying Next Year		Expectan	cy (years)	
Ages (in 2023)	Men Women		Men	Women	
50	2.02 %	1.64 %	20.99	23.92	
55	2.53	1.91	18.18	20.88	
60	3.08	2.27	15.50	17.88	
65	3.93	2.83	12.94	14.91	
70	5.08	3.79	10.53	12.07	
75	6.98	5.46	8.29	9.45	
80	10.12	8.31	6.33	7.19	

**The rates of retirement** used to measure the probability of eligible members retiring are as shown below.

Number of Years	
After First Eligibility	<b>Probability of</b>
for Normal Retirement	<b>Normal Retirement</b>
0	50 %
1 - 10	25
11+	100

The rate of retirement is 5% for each year of eligibility for early retirement.

Rates of separation from active membership are 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 separating from employment for reasons other than death, disability or retirement.

Years of	% of Active Members
Service	Separating Within Next Year
0 - 2	20.0 %
3 - 4	12.5
5 - 8	5.5
9 - 17	4.0
18+	3.0



**Rates of disability** among active members were as shown below. These are the same rates used for Regular Class members in the July 1, 2022 Actuarial Valuation of the Florida Retirement System.

	% Beco	ming Disabl	ed within N	ext Year
Sample	Non S	ervice-	Service-C	Connected
Ages	Males	Females	Males	Females
20	0.000%	0.000%	0.000%	0.000%
25	0.010%	0.010%	0.001%	0.001%
30	0.010%	0.010%	0.001%	0.001%
35	0.020%	0.010%	0.001%	0.001%
40	0.020%	0.020%	0.001%	0.001%
45	0.080%	0.060%	0.004%	0.001%
50	0.160%	0.100%	0.006%	0.006%
55	0.250%	0.160%	0.006%	0.006%
60	0.300%	0.260%	0.010%	0.013%

**Changes from previous valuation:** None.



#### **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 expenses over the previous 2 years. Assumed administrative expenses are added to

the Normal Cost.

**Benefit Service** Exact fractional service is used to determine the amount of benefit

payable.

**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.

**For electrons** 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 in equal

installments at the end of each 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.

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 life annuity is the normal form of benefit.

Pay Increase Timing Middle 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 OF TERMS**

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.

Actuarially Determined Contribution (ADC)

The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ADC consists of the Employer Normal Cost and Amortization Payment.

**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.



**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.

**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 actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.



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** 

#### Statement of Plan Assets at Market Value

September 30 2023 2022 **Item** \$ \$ A. Cash and Cash Equivalents (Operating Cash) B. Receivables: \$ 1. Member Contributions \$ 2. Employer Contributions 3. Investment Income and Other Receivables 66,871 83,560 4. Total Receivables \$ 66,871 \$ 83,560 C. Investments 1. Short Term Investments \$ 242,750 921,157 2. Domestic Equities 13,545,642 11,799,267 3. International Equities 4. Domestic Fixed Income 5,054,594 5,716,289 5. International Fixed Income 52,180 101,169 2,001,398 2,498,374 6. Real Estate 7. Private Equity 8. Total Investments 21,558,259 \$ 20,374,561 D. Liabilities \$ \$ 1. Benefits Payable 2. Accrued Expenses and Other Payables (24,911)(85,597)3. Total Liabilities \$ \$ (24,911)(85,597)E. Total Market Value of Assets Available for Benefits \$ 21,600,219 \$ 20,372,524 F. DROP Accounts \$ (170,075)(84,632)\$ 21,430,144 \$ 20,287,892 G. Market Value Net of Reserves H. Allocation of Investments 1. Short Term Investments 1.1% 4.5% 2. Domestic Equities 62.9% 57.9% 3. International Equities 0.0% 0.0% 4. Domestic Fixed Income 26.5% 24.8% 5. International Fixed Income 0.2% 0.5% 6. Real Estate 9.3% 12.3% 7. Private Equity 0.0% 0.0% 8. Total Investments 100.0% 100.0%



### **Reconciliation of Plan Assets**

			Septemb	er 30	
	Item		2023		2022
A.	Market Value of Assets at Beginning of Year	\$	20,372,524	\$	25,086,188
В.	Revenues and Expenditures				
	1. Contributions				
	a. Employee Contributions	\$	257,034	\$	268,192
	b. Employer Contributions		427,903		435,789
	c. Purchased Service Credit		625		-
	d. Total	\$	685,562	\$	703,981
	2. Investment Income				
	a. Interest, Dividends, and Other Income	\$	502,322	\$	483,406
	b. Net Realized/Unrealized Gains/(Losses)	•	1,604,923	•	(4,293,473)
	c. Investment Expenses		(122,686)		(125,641)
	d. Net Investment Income	\$	1,984,559	\$	(3,935,708)
	3. Benefits and Refunds				
	a. Regular Monthly Benefits	\$	(1,267,279)	\$	(1,271,874)
	b. Refunds	•	(85,978)	•	(120,352)
	c. Lump Sum Benefits Paid		-		-
	d. DROP Distributions		-		-
	e. Total	\$	(1,353,257)	\$	(1,392,226)
	4. Administrative and Miscellaneous Expenses	\$	(89,169)	\$	(89,711)
	5. Transfers	\$	-	\$	-
C.	Market Value of Assets at End of Year	\$	21,600,219	\$	20,372,524
D.	DROP Accounts	\$	(170,075)	\$	(84,632)
E.	Market Value Net of Reserves	\$	21,430,144	\$	20,287,892



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

	Valuation Date – September 30	2022	2023	2024	2025	2026	2027
A.	Actuarial Value of Assets Beginning of Year	\$ 22,193,814	\$ 22,723,653				
В.	Market Value End of Year	20,372,524	21,600,219				
C.	Market Value Beginning of Year	25,086,188	20,372,524				
D.	Non-Investment/Administrative Net Cash Flow	(777,956)	(756,864)				
E.	Investment Income						
	E1. Actual Market Total: B-C-D	(3,935,708)	1,984,559				
	E2. Assumed Rate of Return	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%
	E3. Assumed Amount of Return	1,541,591	1,579,142				
	E4. Amount Subject to Phase-In: E1–E3	(5,477,299)	405,417				
F.	Phased-In Recognition of Investment Income						
	F1. Current Year: 0.2 x E4	(1,095,460)	81,083				
	F2. First Prior Year	584,684	(1,095,460)	81,083			
	F3. Second Prior Year	159,593	584,684	(1,095,460)	81,083		
	F4. Third Prior Year	(42,534)	159,593	584,684	(1,095,460)	81,083	
	F5. Fourth Prior Year	159,921	(42,532)	159,595	584,686	(1,095,459)	81,085
	F6. Total Phase-Ins	(233,796)	(312,632)	(270,098)	(429,691)	(1,014,376)	81,085
G.	Actuarial Value of Assets End of Year						
	G1. Preliminary Actuarial Value of Assets End of Year:						
	A+D+E3+F6	\$ 22,723,653	\$ 23,233,299				
	G2. Upper Corridor Limit: 120%*B	24,447,029	25,920,263				
	G3. Lower Corridor Limit: 80%*B	16,298,019	17,280,175				
	G4. Actuarial Value of Assets End of Year	22,723,653	23,233,299				
	G5. DROP Accounts	(84,632)	(170,075)				
	G6. Final Actuarial Value of Assets End of Year	22,639,021	23,063,224				
Н.	Difference between Market & Actuarial Value of Assets	(2,351,129)	(1,633,080)				
I.	Actuarial Rate of Return	5.94%	5.61%				
J.	Market Value Rate of Return	-15.80%	9.82%				
K.	Ratio of Actuarial Value of Assets to Market Value	111.54%	107.56%				

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, the Actuarial Value of Assets will tend to be less than the Market Value. During periods when investment performance is less than the assumed rate, the Actuarial Value of Assets will tend to be greater than the Market Value. If assumed rates are exactly realized for 5 consecutive years, the Actuarial Value of Assets will become equal to the Market Value.



### **Reconciliation of DROP Accounts**

Year Ended 9/30	Balance at Beginning of Year	Adjustment	Credits	Interest	Distributions	Balance at End of Year
2010	\$ 343,289	\$ -	\$ 76,894	\$ 8,837	\$ (285,437)	\$ 143,583
2011	\$ 143,583	\$ -	\$ 101,170	\$ (4,076)	\$ (110,841)	\$ 129,836
2012	\$ 129,836	\$ -	\$ 274,088	\$ 44,504	\$ -	\$ 448,428
2013	\$ 448,428	\$ -	\$ 356,657	\$ 74,150	\$ (108,760)	\$ 770,476
2014	\$ 770,476	\$ 108,760	\$ 332,430	\$ 97,472	\$ (304,766)	\$1,004,372
2015	\$1,004,372	\$ 36,550	\$ 326,274	\$ 50,098	\$ (224,555)	\$1,192,739
2016	\$1,192,739	\$ -	\$ 462,292	\$ 112,193	\$ (807,118)	\$ 960,106
2017	\$ 960,106	\$ -	\$ 203,086	\$ 83,992	\$ (463,036)	\$ 784,148
2018	\$ 784,148	\$ -	\$ 177,648	\$ 95,223	\$ (85,166)	\$ 971,853
2019	\$ 971,853	\$ -	\$ 136,583	\$ (929)	\$ (775,090)	\$ 332,417
2020	\$ 332,417	\$ 3	\$ 99,509	\$ 20,694	\$ (295,891)	\$ 156,732
2021	\$ 156,732	\$ 1,681	\$ 46,564	\$ 15,739	\$ (198,460)	\$ 22,256
2022	\$ 22,256	\$ 56	\$ 75,222	\$ (12,902)	\$ -	\$ 84,632
2023	\$ 84,632	\$ -	\$ 75,222	\$ 10,221	\$ -	\$ 170,075



Year Ending	Investment R	late of Return
September 30	Market Value	Actuarial Value
1978	6.1 %	
1979	5.1	
1980	5.2	11.6 %
1981	2.1	5.9
1982	21.3	11.0
1983	13.6	13.6
1984	5.9	7.7
1985	17.5	11.8
1986	18.9	14.5
1987	11.1	16.8
1988	4.0	3.2
1989	18.2	18.2
1990	(0.5)	(0.5)
1991 1992	22.2 14.6	22.2 14.6
1993	11.5	9.6
1994 1995	1.2 19.3	4.6 9.4
1996	12.4	9.6
1997	28.3	13.9
1998	5.8	11.0
1999	12.9	14.7
2000	8.9	12.9
2001	1.5	10.2
2002	(4.6)	4.3
2003	14.5	4.8
2004	8.7	4.2
2005	9.0	5.2
2006	6.6	6.3
2007	13.4	10.6
2008	(12.8)	4.2
2009	(3.2)	1.3
2010	7.3	5.6
2011	(3.7)	3.3
2012	19.4	5.1
2013	12.2	5.8
2014	12.0	8.8
2015	4.5	8.4
2016 2017	10.0 11.4	10.8 10.1
2018 2019	11.2 5.5	9.9 8.5
2019	10.7	9.7
2021	20.4	11.9
2022	(15.8)	5.9
2023	9.8	5.6
Average Returns:		
Last 5 Years	5.4 %	8.3 %
Last 10 Years	7.6 %	8.9 %
All Years	8.6 %	8.9 %

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.





FINANCIAL ACCOUNTING INFORMATION

	FASB NO. 35 INFORMA	ATION	
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>	\$ 12,702,757 684,687 6,494,790 19,882,234	\$ 13,435,799 636,252 5,588,016 19,660,067
	2. Non-Vested Benefits	181,883	132,701
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	20,064,117	19,792,768
	4. Accumulated Contributions of Active Members	2,219,157	1,991,478
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits		
	1. Total Value at Beginning of Year	19,792,768	19,355,694
	2. Increase (Decrease) During the Period Attributable to:		
	a. Plan Amendment	0	0
	b. Change in Actuarial Assumptions	0	0
	c. Latest Member Data, Benefits Accumulated		
	and Decrease in the Discount Period	1,699,828	1,904,522
	d. Benefits Paid (net basis)	(1,428,479)	(1,467,448)
	e. Net Increase	271,349	437,074
	3. Total Value at End of Period	20,064,117	19,792,768
D.	Market Value of Assets	21,430,144	20,287,892
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	\$ 645,349	\$ 586,328	\$ 554,760	\$ 530,621	\$ 517,823	\$ 478,369	\$ 449,371	\$ 425,585	\$ 327,212	\$ 298,401
Interest	1,585,007	1,544,868	1,504,793	1,501,470	1,460,559	1,469,522	1,446,426	1,346,316	1,332,765	1,326,920
Benefit Changes	-	-	-	-	-	-	-	-	-	-
Difference between actual & expected experience	(47,282)	(146,318)	(145,881)	(63,182)	191,392	(114,573)	185,603	603,966	109,558	(166,972)
Assumption Changes	-	-	-	(457,293)	-	506,514	461,742	347,759	-	-
Benefit Payments	(1,560,000)	(1,267,279)	(1,271,874)	(1,468,620)	(1,535,189)	(1,944,484)	(1,161,974)	(1,585,026)	(1,731,453)	(993,482)
Refunds	(27,708)	(85,978)	(120,352)	(115,706)	(76,741)	(10,453)	(60,181)	(18,047)	(39,929)	(53,595)
Net Change in Total Pension Liability	595,366	631,621	521,446	(72,710)	557,844	384,895	1,320,987	1,120,553	(1,847)	411,272
Total Pension Liability - Beginning	22,791,469	22,159,848	21,638,402	21,711,112	21,153,268	20,768,373	19,447,386	18,326,833	18,328,680	17,917,408
Total Pension Liability - Ending (a)	\$ 23,386,835	\$ 22,791,469	\$ 22,159,848	\$ 21,638,402	\$ 21,711,112	\$ 21,153,268	\$ 20,768,373	\$ 19,447,386	\$ 18,326,833	\$ 18,328,680
Plan Fiduciary Net Position										
Contributions - Employer	\$ 449,679	\$ 427,903	\$ 435,789	\$ 478,209	\$ 472,860	\$ 443,293	\$ 420,570	\$ 338,551	\$ 317,957	\$ 344,236
Contributions – Employer (from state)	-	-	-	-	-	-	-	-	-	-
Contributions – Non-Employer contributing entity	-	-	-	-	-	-	-	-	-	-
Contributions - Member	267,334	257,659	268,192	321,545	314,272	307,085	285,901	283,972	252,554	208,312
Net Investment Income	1,494,149	1,984,559	(3,935,708)	4,351,716	2,158,818	1,107,401	2,106,317	2,021,370	1,720,828	766,343
Benefit Payments	(1,560,000)	(1,267,279)	(1,271,874)	(1,468,620)	(1,535,189)	(1,944,484)	(1,161,974)	(1,585,026)	(1,731,453)	(993,482)
Refunds	(27,708)	(85,978)	(120,352)	(115,706)	(76,741)	(10,453)	(60,181)	(18,047)	(39,929)	(53,595)
Administrative Expense	(89,440)	(89,169)	(89,711)	(89,485)	(86,173)	(86,097)	(93,369)	(83,952)	(82,657)	(82,212)
Other	_	-	-	(2)	-	-	-	-	-	-
Net Change in Plan Fiduciary Net Position	534,014	1,227,695	(4,713,664)	3,477,657	1,247,847	(183,255)	1,497,264	956,868	437,300	189,602
Plan Fiduciary Net Position - Beginning	21,600,219	20,372,524	25,086,188	21,608,531	20,360,684	20,543,939	19,046,675	18,089,807	17,652,507	17,462,905
Plan Fiduciary Net Position - Ending (b)	\$ 22,134,233	\$ 21,600,219	\$ 20,372,524	\$ 25,086,188	\$ 21,608,531	\$ 20,360,684	\$ 20,543,939	\$ 19,046,675	\$ 18,089,807	\$ 17,652,507
Net Pension Liability - Ending (a) - (b)	1,252,602	1,191,250	1,787,324	(3,447,786)	102,581	792,584	224,434	400,711	237,026	676,173
Plan Fiduciary Net Position as a Percentage										
of Total Pension Liability	94.64 %	94.77 %	91.93 %	115.93 %	99.53 %	96.25 %	98.92 %	97.94 %	98.71 %	96.31 %
Covered Payroll	\$ 4,546,496	\$ 4,408,816	\$ 4,020,870	\$ 3,955,043	\$ 3,781,853	\$ 3,677,665	\$ 3,407,640	\$ 3,124,004	\$ 2,757,140	\$ 2,284,123
Net Pension Liability as a Percentage										
of Covered Payroll	27.55 %	27.02 %	44.45 %	(87.17)%	2.71 %	21.55 %	6.59 %	12.83 %	8.60 %	29.60 %

<sup>\*</sup> 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

	Total			Plan Fiduciary Net Position		Net Pension Liability
FY Ending	Pension	Plan Fiduciary	Net Pension	as a % of Total	Covered	Liability as a % of
September 30,	Liability	Net Position	Liability	Pension Liability	Payroll	Covered Payroll
2015	18,328,680	17,652,507	676,173	96.31%	2,284,123	29.60%
2016	18,326,833	18,089,807	237,026	98.71%	2,757,140	8.60%
2017	19,447,386	19,046,675	400,711	97.94%	3,124,004	12.83%
2018	20,768,373	20,543,939	224,434	98.92%	3,407,640	6.59%
2019	21,153,268	20,360,684	792,584	96.25%	3,677,665	21.55%
2020	21,711,112	21,608,531	102,581	99.53%	3,781,853	2.71%
2021	21,638,402	25,086,188	(3,447,786)	115.93%	3,955,043	(87.17)%
2022	22,159,848	20,372,524	1,787,324	91.93%	4,020,870	44.45 %
2023	22,791,469	21,600,219	1,191,250	94.77%	4,408,816	27.02 %
2024*	23,386,835	22,134,233	1,252,602	94.64%	4,546,496	27.55 %

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



# NOTES TO EMPLOYERS NET PENSION LIABILITY GASB Statement No. 67 (for Fiscal Year Ending September 30, 2024)

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 2.5%

Salary Increases 3.5% to 6.5% depending on service, 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 same versions of Pub-2010 Headcount-Weighted Mortality Tables

as used by the Florida Retirement System (FRS) for Regular (other than K-12 School Instructional Personnel) Class members in their July 1, 2022 actuarial valuation (with mortality improvements projected to

all future years after 2010 using Scale MP-2018). Florida Statutes

Chapter 112.63(1)(f) mandates the use of mortality tables from one of the two most recently published FRS actuarial valuation reports.

Other Information:

Notes See Discussion of Valuation Results in Section A of this report.



# 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
2015	344,236	344,236	-	2,284,123	15.07%
2016	317,957	317,957	-	2,757,140	11.53%
2017	338,551	338,551	-	3,124,004	10.84%
2018	420,570	420,570	-	3,407,640	12.34%
2019	443,293	443,293	-	3,677,665	12.05%
2020	472,860	472,860	-	3,781,853	12.50%
2021	478,209	478,209	-	3,955,043	12.09%
2022	435,789	435,789	-	4,020,870	10.84%
2023	427,903	427,903	-	4,408,816	9.71%
2024**	449,679	449,679	-	4,546,496	9.89%

<sup>\*</sup> A receivable City contribution for the fiscal year ending September 30, 2014 of \$12,537, deposited after September 30, 2014, is reflected in the 2014 fiscal year actual contribution figure and excluded from the 2015 fiscal year.



<sup>\*\*</sup> 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 (for Fiscal Year Ending September 30, 2024)

Valuation Date: October 1, 2022

Notes Actuarially determined contributions are calculated as of October 1,

which is one year prior to the expected contribution date and the beginning of the fiscal year in which the contribution is due.

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

Actuarial Cost Method Entry Age Normal Amortization Method Level Dollar, Closed

Remaining Amortization Period 29 years (single equivalent period)

Asset Valuation Method 5-year smoothed market

Inflation 2.5%

Salary Increases 3.5% to 6.5% depending on service, 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 same versions of Pub-2010 Headcount-Weighted Mortality

Tables as used by the Florida Retirement System (FRS) for Regular (other than K-12 School Instructional Personnel) Class members in their July 1, 2021 actuarial valuation (with mortality improvements projected to all future years after 2010 using Scale MP-2018). Florida Statutes Chapter 112.63(1)(f) mandates the use of mortality tables from one of the two most recently published FRS actuarial valuation

reports.

Other Information:

Notes See Discussion of Valuation Results in the October 1, 2022 Actuarial

Valuation Report (dated May 1, 2023).



## SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 7.00% 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 7.00%. 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 (7.00%) 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 7.00%, 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:

#### Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption\*

	<b>Current Single Discount</b>	
1% Decrease	<b>Rate Assumption</b>	1% Increase
6.00%	7.00%	8.00%
\$3,851,796	\$1,252,602	(\$930,456)

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



### **S**ECTION **E**

**M**ISCELLANEOUS INFORMATION

	RECONCILIATION OF MEMBERSH	IIP DATA	
		From 10/1/22	
_	A stirre B.G. mah a ma	To 10/1/23	To 10/1/22
Α.	Active Members		
1.	Number Included in Last Valuation	81	80
2.	New Members Included in Current Valuation	18	22
3.	Non-Vested Employment Terminations	(17)	(16)
4.	Vested Employment Terminations	0	(3)
5.	DROP Participation	0	0
6.	Service Retirements	0	(2)
7.	Disability Retirements	0	0
8.	Deaths	0	0
9.	Transfer from General Employees	0_	0_
10.	Number Included in This Valuation	82	81
B.	Terminated Vested Members		
1.	Number Included in Last Valuation	7	8
	Additions from Active Members	0	3
3.	Lump Sum Payments/Refund of Contributions	0	(3)
4.	Payments Commenced	0	(1)
5.	Deaths	0	0
6.	Other	0	0
7.	Number Included in This Valuation	7	7
C.	DROP Plan Members		
1.	Number Included in Last Valuation	2	2
2.	Additions from Active Members	0	0
3.	Retirements	0	0
4.	Deaths Resulting in No Further Payments	0	0
5.	Other - Data Adjustment	0	0
6.	Number Included in This Valuation	2	2
D.	Service Retirees, Disability Retirees and Beneficia	aries	
_	Number of selection lead Valuettes	- 00	04
1.	Number Included in Last Valuation	82	81
2. 3.	Additions from Active Members Additions from Terminated Vested Members	0	2 1
3. 4.	Additions from DROP Plan	0	0
4. 5.	Deaths Reported	,	
5. 6.	Survivors Added due to Member Deaths	(4) 0	(2) 0
7.	End of Certain Period - No Further Payments	0	0
7. 8.	Other - Data Adjustment	0	0
9.	Number Included in This Valuation	78	82
٦.	Number included III This Valuation	/8	ō۷



					Active M	embers as	of Octobe	r 1, 2023					
						of Service to							
Age Group	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25-29	30-34	35+	Totals
15-19 NO.	1	0	0	0	0	0	0	0	0	0	0	0	1
TOT PAY	32,639	0	0	0	0	0	0	0	0	0	0	0	32,639
AVG PAY	32,639	0	0	0	0	0	0	0	0	0	0	0	32,639
AVG PAT	32,039	U	U	U	U	U	U	U	U	U	U	U	32,039
20-24 NO.	5	0	2	0	0	0	0	0	0	0	0	0	
TOT PAY	197,713	0	84,560	0	0	0	0	0	0	0	0	0	282,273
AVG PAY	39,543	0	42,280	0	0	0	0	0	0	0	0	0	40,325
25-29 NO.	3	1	2	0	1	1	0	0	0	0	0	0	8
	115,984	38,613	94,749	0	49,832	47,618	0	0	0	0	0	0	346,796
AVG PAY	38,661	38,613	47,374	0	49,832	47,618	0	0	0	0	0	0	43,350
30-34 NO.	0	3	1	1	0	4	0	0	0	0	0	0	9
TOT PAY		126,733	39,937	65,437	0	184,120	0	0	0	0	0	0	
AVG PAY		42,244	39,937	65,437	0	46,030	0	0	0	0	0	0	46,247
						_			_				
35-39 NO.	1	0	1	0	1	5	3	1	-	0	0	0	12
TOT PAY	38,838	0	41,291	0	59,747	243,550	•	63,572		0	0	0	671,007
AVG PAY	38,838	0	41,291	0	59,747	48,710	74,670	63,572	0	0	0	0	55,917
40-44 NO.	0	2	0	2	0	2	0	0	0	0	0	0	
TOT PAY	0	68,710	0	81,218	0	94,959	0	0	0	0	0	0	244,887
AVG PAY	0	34,355	0	40,609	0	47,480	0	0	0	0	0	0	40,815
45-49 NO.	2	1	0	0	1	3	1	0	1	0	0	0	9
TOT PAY	73,485	33,418	0	0	52,485	304,261	118,505	0	53,557	0	0	0	635,711
AVG PAY	36,742	33,418	0	0	52,485	101,420	118,505	0	53,557	0	0	0	70,635
50-54 NO.	2	2	0	0	0	3	0	1	1	0	1	0	10
TOT PAY	80,001	90,074	0	0	0	165,345	0	135,038	49,057	0	61,869	0	581,384
AVG PAY	40,000	45,037	0	0	0	55,115	0	135,038		0	61,869	0	58,138
55-59 NO.	2	0	1	0	1	2	0	2	3	0	0	1	12
TOT PAY	71,232	0		0				162,112		0		69,581	
AVG PAY	35,616	0	57,127	0	38,780	59,677		81,056		0		69,581	
60-64 NO.	1	0	1	0	0	2	0	1	1	0	0	0	6
TOT PAY	33,618	0	39,041	0	0	132,160	0		52,141	0	0	0	308,670
AVG PAY	33,618	0	39,041	0	0	66,080	0		52,141	0	0	0	51,445
						_							_
65-99 NO.	0	0	0	1	0	0	1	0	0	0	0	0	2
TOT PAY	0	0	0	37,917	0		108,057	0	0	0	0	0	145,974
AVG PAY	0	0	0	37,917	0	0	108,057	0	0	0	0	0	72,987
TOT NO.	17	9	8	4	4	22	5	5	6	0	1	1	82
TOT AMT	643,510	357,548	356,705	184,572	200,844	1,291,367	450,571	412,432	375,179	0	61,869	69,581	4,404,178
AVG AMT	37 <u>,</u> 854	39 <u>,</u> 728	44,588	46,143	50,211	58,699	90,114	82,486	62,530	0	61,869	69,581	53,709



	Inactive Members as of October 1, 2023										
	Terminat	ed Vested	Disa	bled	Re	tired	Benef	iciaries	Т	otal	
		Total		Total		Total		Total		Total	
		Annual		Annual		Annual		Annual		Annual	
Age	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	
Under 20	-	-	-	-	-	1	-	-	-	-	
20 - 24	-	-	-	-	-	-	-	-	-	-	
25 - 29	-	-	-	-	-	-	-	-	-	-	
30 - 34	-	-	-	-	-	-	-	-	-	-	
35 - 39	-	-	-	-	-	-	1	11,049	1	11,049	
40 - 44	1	9,360	-	-	-	-	-	-	1	9,360	
45 - 49	2	32,370	-	-	-	-	1	7,236	3	39,606	
50 - 54	-	-	-	-	1	59,069	-	-	1	59,069	
55 - 59	-	-	1	22,125	1	27,459	-	-	2	49,584	
60 - 64	4	28,751	-	-	16	331,901	-	-	20	360,652	
65 - 69	-	-	-	-	8	136,668	-	-	8	136,668	
70 - 74	-	-	-	-	12	232,063	2	25,810	14	257,873	
75 - 79	-	-	-	-	9	103,117	3	27,373	12	130,490	
80 - 84	-	-	-	-	12	207,230	4	26,511	16	233,741	
85 - 89	-	-	-	-	6	90,707	1	5,432	7	96,139	
90 - 94	-	-	-	-	-	-	2*	5,122	2	5,122	
95 - 99	-	-	-	-	-	-	-	-	-	-	
100 & Over	-	-	-	-	-	-	-	-	-	-	
Total	7	70,481	1	22,125	65	1,188,214	14	108,533	87	1,389,353	

<sup>\*</sup>The count includes 1 beneficiary who is only due a refund of employee contributions.





**SUMMARY OF PLAN PROVISIONS** 

#### **SUMMARY OF PLAN PROVISIONS**

#### A. Ordinances

The Plan was established under the Code of Ordinances for the City of Miami Springs, Florida, Chapter 35, Article I, and was most recently amended under Ordinance No. 1080-2015 passed and adopted on May 27, 2015. The Plan is also governed by certain provisions of Part VII, Chapter 112, Florida Statutes and the Internal Revenue Code.

#### **B.** Effective Date

January 1, 1960

#### 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 employees, except police officers and firefighters, who work at least 1000 hours per year. Employees appointed to director positions (City Manager, Assistant City Manager, or Department Director) after May 27, 2015 have the option to join the Plan.

#### F. Credited Service

Service is measured as the total number years and fractional parts of years of service rendered to the City. No service is credited for any periods of employment for which the member received a refund of their contributions.

#### G. Compensation

Salary or wages paid for personal services rendered to the City, but not including allowances for food, clothing, shelter, or travel expense.

#### H. Final Average Salary (FAS)

The average of the highest Compensation over any 5 years of Credited Service out of the last 10 years prior to termination or retirement. Compensation for FAS excludes overtime and lump sum payments at retirement for unused sick leave and vacation pay.



#### I. Normal Retirement

Eligibility: A member may retire on the first day of the month coincident with or next

following the earlier of:

(1) age 62 and 5 years of Credited Service, or

(2) when age plus Credited Service equals 75 years.

Benefit: 1.75% of FAS multiplied by each year of Credited Service prior to 10/1/89, plus

2.50% of FAS multiplied by each year of Credited Service after 10/1/89; former program A members receive credit at the rate of 1.00% for service prior to

10/1/89.

**Normal Form** 

of Benefit: Single life Annuity; other options are also available.

COLA: None

#### J. Early Retirement

Eligibility: A member may elect to retire earlier than the Normal Retirement Eligibility upon

attainment of age 55 and 10 years of Credited Service.

Benefit: The Normal Retirement Benefit is reduced by .25% for each month by which the

Early Retirement date precedes the Normal Retirement date.

Normal Form

of Benefit: Single life Annuity; 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

Eligibility: Any member who has 10 or more years of Credited Service and becomes totally

and permanently disabled and rendered incapacitated for duty in the employ of the City is immediately eligible for a disability benefit. The 10 year requirement is

waived if the member is receiving Worker's Compensation.

Benefit: The accrued Normal Retirement Benefit taking into account compensation earned

and service credited as of the date of disability payable immediately. If a member is receiving Worker's Compensation, the minimum benefit is 25% of salary; upon termination of Worker's Compensation, benefit is recomputed by allowing

additional service credit from date of retirement to age 60.



Normal Form

of Benefit: Payable for life or until recovery from disability; other options are also available.

COLA: None

#### M. Non-Service Connected Disability

Eligibility: Any member who has 10 or more years of Credited Service and becomes totally

and permanently disabled and rendered incapacitated for duty in the employ of the City is immediately eligible for a disability benefit. The 10 year requirement is

waived if the member is receiving Worker's Compensation.

Benefit: The accrued Normal Retirement Benefit taking into account compensation earned

and service credited as of the date of disability payable immediately. If a member is receiving Worker's Compensation, the minimum benefit is 25% of salary; upon termination of Worker's Compensation, benefit is recomputed by allowing

additional service credit from date of retirement to age 60.

Normal Form

of Benefit: Payable for life or until recovery from disability; other options are also available.

COLA: None

#### N. Death in the Line of Duty

Eligibility: Members with 10 or more years of Credited Service are eligible for survivor

benefits.

Benefit: The beneficiary will receive the member's accrued Normal Retirement Benefit

taking into account compensation earned and service credited as of the date of

death.

**Normal Form** 

of Benefit: Payable immediately as though the member had retired on the date of death and

elected the 100% Joint & Survivor option.

COLA: None

The beneficiary of a plan member who dies with less than 10 years of Credited Service will receive a refund of the member's accumulated contributions with interest.

#### O. Other Pre-Retirement Death

Eligibility: Members with 10 or more years of Credited Service are eligible for survivor

benefits.

Benefit: The beneficiary will receive the member's accrued Normal Retirement Benefit

taking into account compensation earned and service credited as of the date of

death.



Normal Form

of Benefit: Payable immediately as though the member had retired on the date of death and

elected the 100% Joint & Survivor option.

COLA: None

The beneficiary of a plan member who dies with less than 10 years of Credited Service will receive a refund of the member's accumulated contributions with 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 a 10 Year Certain and Life Annuity and the 50% and 100% Joint and Survivor options.

#### R. Vested Termination

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion

of 5 years of Credited Service.

Benefit: The benefit is the member's accrued Normal Retirement Benefit as of the date of

termination. Benefit begins on the member's Normal Retirement date determined as though the member had remained in full-time employment. Alternatively, a member may elect a refund of their own accumulated contributions with interest or, if the member had 10 years of Credited Service, a reduced Early Retirement

Benefit any time after age 55.

Normal Form

of Benefit: Single life Annuity; other options are also available.

COLA: None

Members terminating employment with less than 5 years of Credited Service will receive a refund of their own accumulated contributions with interest.

#### S. Refunds

Eligibility: All members terminating employment with less than 5 years of Credited Service

are eligible. Optionally, vested members (those with 5 or more years of Credited

Service) may elect a refund in lieu of the vested benefits otherwise due.

Benefit: Refund of the member's contributions with interest. Interest is credited at a rate

that is determined by the Board each year.



#### T. Member Contributions

5.0% of Compensation; when the total annual required contribution is greater than 15% of payroll, the amount over 15% is shared equally by the City and the members.

#### **U. Employer Contributions**

Any additional amount determined by the actuary needed to fund the plan properly according to State laws. When the total annual required contribution is greater than 15% of payroll (the threshold of 15% of payroll is comprised on the City contribution of 10% of payroll and the member contribution rate of 5% of pay), the amount over 15% is shared equally by the City and the members.

#### V. Cost of Living Increases

Not Applicable

#### W. 13<sup>th</sup> Check

Not Applicable

#### X. Deferred Retirement Option Plan

Eligibility: Plan members are eligible for the DROP upon the attainment of the earlier of:

(1) age 62 and 5 years of Credited Service, or

(2) when age plus Credited Service equals 75 years.

Members must make a written election to participate in the DROP.

Benefit: The member's Credited Service and FAS 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 FAS.

Maximum

DROP Period: 60 months

Interest

Credited: The member's DROP account is credited or debited at an interest rate to be set

by the Board.

Normal Form

of Benefit: The plan member may elect from 1 of the 2 following options:

(1) Lump Sum, or

(2) Any other form of payment selected by the participant, approved by the Board

and conforming to all applicable laws.

COLA: None



#### Y. Other Ancillary Benefits

There are no ancillary retirement type benefits not required by statutes but which might be deemed a Miami Springs General Employees' Retirement System liability if continued beyond the availability of funding by the current funding source.

### Z. Changes from Previous Valuation

There were no changes in plan provisions since the previous valuation.

