North Miami Police Pension Plan Actuarial Valuation Report as of October 1, 2022

Annual Employer Contribution for the Fiscal Year Ending September 30, 2024







June 2, 2023

Board of Trustees North Miami Police Pension Plan North Miami, Florida

Dear Board Members:

The results of the October 1, 2022 Annual Actuarial Valuation of the North Miami Police Pension Plan 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, 2024, and to determine the actuarial information for GASB Statement No. 67 for the fiscal year ending September 30, 2022. 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 or other information through September 30, 2022. 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 Methods. 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.

Board of Trustees June 2, 2023 Page ii

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 AND COMPANY

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

Trisha Amrose, MAAA Enrolled Actuary No. 23-8010 Consultant & Actuary



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SECTION A

DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

Closed Plan

In reviewing this Report, it is important for the reader to keep in mind that this Plan was closed to new members after December 1, 2016. One consequence of this closure is that the required employer contribution will generally continue to increase as a percentage of covered payroll as such payroll decreases from year to year.

Comparison of Required Employer Contributions

The following is a comparison of required contributions developed in this year's and last year's actuarial valuations.

	For FYE 9/30/2024 Based on 10/1/2022 Valuation	For FYE 9/30/2023 Based on 10/1/2021 Valuation	Increase (Decrease)
Required Employer/State Contribution	\$ 5,077,450	\$ 5,102,880	\$ (25,430)
As % of Covered Payroll	63.79 %	62.12 %	1.67 %
Estimated Credit for State Contribution	\$ 82,682	\$ 82,682	\$0
As % of Covered Payroll	1.04 %	1.00 %	0.04 %
Required Employer Contribution	\$ 4,994,768	\$ 5,020,198	\$ (25,430)
As % of Covered Payroll	62.75 %	61.12 %	1.63 %
Date of Contribution	October 1, 2023	October 1, 2022	

The contribution has been calculated as though payments are made on the first day of the next fiscal year. Further, the required Employer contribution has been computed with the assumption that the State contribution credit in 2023 and 2024 will be at least \$82,682. If the actual State contribution credit falls below this amount, then the City must increase its contribution by the difference.

The actual Employer and State contributions for the year ending September 30, 2022 were \$5,035,642 and \$82,682, respectively, for a total of \$5,118,324. The required contribution was \$5,118,324 for that year.



Revisions in Benefits

There were no revisions in benefits in the current valuation.

Revisions in Actuarial Assumptions and Methods

The amortization period for the unfunded actuarial accrued liability has been lowered to 20 years for any new bases and for any existing bases that had over 20 years remaining as of October 1, 2022. This change increased the Required Employer Contribution by \$30,644, or 0.39% of covered payroll.

Actuarial Experience

During the past year, there was a net actuarial loss of \$1,149,221 which means that actual experience was less favorable than expected. The net loss is primarily due to losses from the return on the actuarial value of assets below the assumed rate of 7.0%. The return on the actuarial value of assets was 5.5%, and the return on the market value of assets was (9.4)%. This loss was partially offset by gains from lower than expected average salary increases. Actual average salary increases were 3.7% versus 4.6% assumed. The loss increased the required employer contribution by 1.16% of covered payroll.

Funded Ratio

The funded ratio this year is 75.8% compared to 75.0% last year. The funded ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability. There was no change in the funded ratio from the change in assumptions and methods.

Analysis of Change in Required Employer Contribution

The components of change in the required employer contribution are as follows:

Contribution Rate Last Year	61.12 %
Change Due to Experience Gain/Loss	1.16
Increase in Member Contribution Rate	(2.00)
Change in Administrative Expense	0.81
Change in Normal Cost Rate	0.06
Change in Amortization Payments on UAL	1.25
Change in Assumptions and Methods	0.39
Change in Benefit Provisions	0.00
Change in State Contribution	<u>(0.04)</u>
Contribution Rate This Year	62.75 %



Variability of Future Contribution Rates

The Actuarial Cost Method used to determine the contribution rate is intended to produce contribution rates which are level. 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 \$6,060,950 as of the valuation date (see Section C). This difference will be gradually recognized in the absence of offsetting gains. In turn, the computed employer contribution rate will gradually increase by approximately \$535,000, or 6.71% of covered payroll.

Relationship to Market Value

If Market Value had been the basis for the valuation, the City contribution would have been about \$5.5 million, or 69.46% of covered payroll, and the funded ratio would have been 71.2%. In the absence of other gains and losses, the City contribution rate should increase to that level over the next several years.

Conclusion

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:

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2021

	2022	2021
Ratio of the market value of assets to payroll	11.87	12.79
Ratio of actuarial accrued liability to payroll	16.68	15.53
Ratio of actives to retirees and beneficiaries	1.1	1.2
Ratio of net cash flow to market value of assets	-0.48 %	-1.04 %

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.



CHAPTER REVENUE

Actuarial Confirmation of the Use of State Chapter Money					
	748 Plan	691 Plan	Total		
 Base Amount Previous Plan Year (Excluding Amount Allocated to Share Plan) 	82,682	-	82,682		
2. Amount Received for Previous Plan Year	543,374	3,532	546,906		
3. Amount Allocated to Share Plan	146,633	953	147,586		
 Amount Received for Previous Plan Year After Share Plan Allocation (2) - (3) 	396,741	2,579	399,320		
5. Benefit Improvements Made in Prior Plan Year	-	-	-		
6. Excess Funds for Previous Plan Year (4) - (5) - (1)	314,059	2,579	316,638		
7. Accumulated Excess at Beginning of Previous Plan Year	149,422	42,972	192,394		
8. Prior Excess Used in Previous Plan Year	-	-	-		
9. Accumulated Excess as of Valuation Date (7) - (8) + (6)	463,481	* 45,551	509,032		
10. Base Amount This Plan Year (Excluding Amount					
Allocated to the Share Plan) (1) + (5)	82,682	-	82,682		

* The Accumulated Excess is not included in the Pension Fund.

The Base Amount in line 10 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, 2	.022 Octo	ober 1, 2021			
ACTIVE MEMBERS						
Number	-	74	79			
Covered Annual Payroll	\$ 7,959,95	50 \$	8,214,176			
Average Annual Payroll	\$ 107,56	57 \$	103,977			
Average Age	43	.3	42.4			
Average Past Service	15	.2	14.2			
Average Age at Hire	28	.1	28.2			
RETIREES & BENEFICIARIES						
Number		55	62			
Annual Benefits	\$ 5,518,40	02 \$	5,253,531			
Average Annual Benefit	\$ 84,89		84,734			
Average Age	59	.5	58.8			
DISABILITY RETIREES						
Number		4	5			
Annual Benefits	\$ 209,60	04 \$	244,788			
Average Annual Benefit	\$ 52,40		48,958			
Average Age	65	.3	65.1			
TERMINATED VESTED MEMBERS	I					
Number		2	1			
Annual Benefits	\$ 24,84		24,420			
Average Annual Benefit	\$ 12,42		24,420			
Average Age	36		35.1			



ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC)					
A. Valuation Date	October 1, 2022 After Change	October 1, 2022 Before Change	October 1, 2021		
B. ADEC to Be Paid During Fiscal Year Ending	9/30/2024	9/30/2024	9/30/2023		
C. Assumed Date of Employer Contrib.	10/1/2023	10/1/2023	10/1/2022		
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 3,096,944	\$ 3,066,300	\$ 2,967,034		
E. Employer Normal Cost	1,980,506	1,980,506	2,135,846		
F. ADEC as of the Valuation Date: D+E	5,077,450	5,046,806	5,102,880		
Valuation Date	10/1/2022	10/1/2022	10/1/2021		
G. ADEC as % of Covered Payroll	63.79 %	63.40 %	62.12 %		
H. Assumed Rate of Increase in Covered Payroll to Contribution Year	0.00 %	0.00 %	0.00 %		
I. Covered Payroll for Contribution Year	7,959,950	7,959,950	8,214,176		
J. ADEC if Paid on the First Day of the Next Fiscal Year (Before Credit for State Contribution): G x I	5,077,450	5,046,806	5,102,880		
First Day of Next Fiscal Year	10/1/2023	10/1/2023	10/1/2022		
 K. ADEC if Paid Quarterly throughout the Next Fiscal Year (Before Credit for State Contribution) 	5,293,907	5,261,956	5,320,421		
L. Credit for State Revenue in Contribution Year	82,682	82,682	82,682		
M. Required Employer Contribution (REC) in Contribution Year: J - L *	4,994,768	4,964,124	5,020,198		
N. REC as % of Covered Payroll in Contribution Year: M ÷ I *	62.75 %	62.36 %	61.12 %		

ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC)

* Assuming the contribution is paid on the first day of the next fiscal year.



A. Valuation Date	October 1, 2022 After Change	October 1, 2022 Before Change	October 1, 202
B. Actuarial Present Value of All Projected	Chunge	Chunge	
Benefits for			
1. Active Members			
a. Service Retirement Benefits	\$ 67,060,013	\$ 67,060,013	\$ 66,041,095
b. Vesting Benefits	4,856,220	4,856,220	5,257,269
c. Disability Benefits	970,040	970,040	1,029,720
d. Preretirement Death Benefits	815,921	815,921	859,339
e. Return of Member Contributions	-	-	-
f. Total	73,702,194	73,702,194	73,187,423
2. Inactive Members			
a. Service Retirees & Beneficiaries	76,075,623	76,075,623	73,116,077
b. Disability Retirees	1,905,164	1,905,164	2,218,797
c. Terminated Vested Members	164,866	164,866	151,191
d. Total	78,145,653	78,145,653	75,486,065
3. Total for All Members	151,847,847	151,847,847	148,673,488
C. Actuarial Accrued (Past Service)			
Liability	132,740,083	132,740,083	127,595,580
D. Actuarial Value of Accumulated Plan			
Benefits per FASB No. 35	121,571,669	121,571,669	115,092,221
E. Plan Assets			
1. Market Value	94,495,300	94,495,300	105,037,573
2. Actuarial Value	100,556,250	100,556,250	95,692,771
F. Unfunded Actuarial Accrued Liability	32,183,833	32,183,833	31,902,809
G. Actuarial Present Value of Projected			
Covered Payroll	60,297,057	60,297,057	66,719,786
H. Actuarial Present Value of Projected			
Member Contributions	6,940,191	6,940,191	6,345,052
I. Accumulated Contributions of Active			
Members	7,719,593	7,719,593	7,494,957



CALCULATION OF EMPLOYER NORMAL COST						
A. Valuation Date B. Normal Cost for	October 1, 2022 After Change	October 1, 2022 Before Change	October 1, 2021			
 Service Retirement Benefits Vesting Benefits Disability Benefits Preretirement Death Benefits Return of Member Contributions Total for Future Benefits Assumed Amount for Administrative Expenses Total Normal Cost Total as a % of Covered Payroll 	\$ 2,078,598 328,935 63,930 56,459 37,410 2,565,332 <u>331,364</u> 2,896,696 36.39%	\$ 2,078,598 328,935 63,930 56,459 <u>37,410</u> 2,565,332 <u>331,364</u> 2,896,696 36.39%	\$ 2,149,571 335,113 66,515 58,430 <u>31,893</u> 2,641,522 <u>275,492</u> 2,917,014 35.51%			
C. Expected Member Contribution D. Employer Normal Cost: B8-C	916,190 1,980,506	916,190 1,980,506	781,168 2,135,846			
E. Employer Normal Cost as a % of Covered Payroll	24.88%	24.88%	26.00%			



LIQUIDATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

A. UAAL Amortization Period and Payments

Original UAAL				Curre	ent UAAL		
Date	Source **	Amortization Period (Years)	Amount	Years Remaining	Amount	Paym After Change	ent Before Change *
10/1/2005	Method Change	30	\$5,743,765	13	\$5,459,318	\$ 610,479	\$ 610,479
10/1/2005	Benefit Change	30	374,929	13	356,359	39,849	39,849
10/1/2006	(Gain)/Loss	30	1,855,675	14	1,792,621	191,567	191,56
10/1/2007	(Gain)/Loss	30	148,034	15	143,665	14,742	14,74
10/1/2008	Benefit Change	30	3,959,647	16	3,898,200	385,658	385,65
10/1/2008	(Gain)/Loss	30	1,253,299	16	1,233,848	122,068	122,06
10/1/2009	(Gain)/Loss	30	2,773,430	17	2,693,983	257,880	257,88
10/1/2010	(Gain)/Loss	30	(8,803)	18	(8,488)	(789)	(78
10/1/2010	Assumption Change	30	1,001,365	18	965,325	89,687	89,68
10/1/2011	(Gain)/Loss	30	2,493,045	19	2,394,433	216,513	216,51
10/1/2012	(Gain)/Loss	30	(2,073,952)	20	(1,968,117)	(173,623)	(173,62
10/1/2012	Assumption Change	30	805,050	20	763,968	67,395	67,39
10/1/2013	(Gain)/Loss	30	488,899	20	458,226	40,424	40,42
10/1/2013	Assumption Change	30	866,385	20	812,026	71,635	71,63
10/1/2014	(Gain)/Loss	30	(1,862,552)	20	(1,722,317)	(151,939)	(151,93
10/1/2014	Assumption Change	30	915,047	20	846,152	74,646	74,64
10/1/2015	(Gain)/Loss	30	146,545	20	134,630	11,877	11,87
10/1/2015	Assumption Change	30	990,282	20	909,762	80,257	80,25
10/1/2016	(Gain)/Loss	30	18,964	20	17,706	1,562	1,56
10/1/2016	Assumption Change	30	3,303,161	20	3,084,229	272,084	272,08
10/1/2017	(Gain)/Loss	25	4,834,396	20	4,514,452	398,255	398,25
10/1/2017	Assumption Change	25	1,345,251	20	1,256,222	110,821	110,82
10/1/2018	(Gain)/Loss	25	(2,767,570)	20	(2,596,112)	(229,023)	(223,91
10/1/2018	Assumption Change	25	1,395,709	20	1,309,240	115,498	112,92
10/1/2019	(Gain)/Loss	25	2,082,665	20	1,999,276	176,372	168,92
10/1/2019	Assumption Change	25	(2,307,009)	20	(2,214,639)	(195,370)	(187,11
10/1/2020	(Gain)/Loss	25	2,476,014	20	2,423,262	213,775	200,91
10/1/2020	Assumption Change	25	1,498,087	20	1,466,169	129,342	121,56
10/1/2021	(Gain)/Loss	25	(965,155)	20	(951,809)	(83,966)	(77,55
10/1/2021	Assumption Change	25	1,584,939	20	1,563,022	137,886	127,36
10/1/2022	(Gain)/Loss	20	1,149,221	20	1,149,221	101,382	92,16
			33,812,754		32,183,833	3,096,944	3,066,30

* Before changes amortization payment based on 25-year amortization period when base was established.

** Descriptions of the source of changes for bases other than (Gain)/Loss are described on the following





10/1/2005 Method Changes:

- 1. The funding method was changed from Aggregate to Entry Age Normal with a 30-year amortization period.
- 2. The asset valuation method was changed.
- 3. The mortality table was changed from the 1983 Group Annuity Mortality Table to the RP 2000 Generational Mortality Table.
- 4. The investment earnings assumption was changed from 9% per year up to retirement and 7% thereafter to 8.5% per year.
- 5. The turnover rates were increased by 25%.
- 6. The salary increase assumption for service above 20 years was decreased from 4% to 3.5%.
- 7. It is assumed that members will choose the option (lump sum without COLA or annuity with COLA) with the greater actuarial value.

10/1/2005 Benefit Changes: Changed the definition of pensionable compensation to include future holiday pay, changed the period for determining the average final compensation from 60 months to 57 months, and changed the period for determining the average final compensation to 24 months and the early retirement reduction to 3% per year for employees who irrevocably waived their right to receive early retirement benefits upon the completion of 20 years of service.

10/1/2008 Benefit Change: The benefit multiplier was increased to 3.5% for service after January 1, 1998 and the member contribution rate was increased to 11.51% of pay.

10/1/2010 Assumption Change: The timing of expected pay increases was changed from end of year to mid-year timing. The short term payroll growth assumption was also reduced from 6% to 4%.

10/1/2012 Benefit Change: The Plan was amended by implementing a 3% Cost of Living Adjustment (COLA) for survivors in receipt of line of duty death benefits before the Plan's COLA was adopted on September 28, 2004. There is one survivor in receipt of line of duty death benefits who was affected by the Plan change, and the COLA start date for that survivor was retroactive to April 1, 2005.

10/1/2012 Assumption Change: Decreased the investment rate of return assumption to 8.4%.

10/1/2013 Benefit Change: The Plan was amended to allow members who previously waived eligibility for early retirement with 20 years of service regardless of age, who would have 20 years of service on or before January 1, 2013, to revoke their waivers. These members needed to agree to retire from City service on or before January 1, 2013. There was one member of the allowable ten members who elected to revoke their waiver and retired under the window.

10/1/2013 Assumption Change: Decreased the investment rate of return assumption to 8.3%.

10/1/2014 Assumption Change: Decreased the investment rate of return assumption to 8.2%.

10/1/2015 Assumption Change: Decreased the investment rate of return assumption to 8.1%.

10/1/2016 Assumption Changes: Decreased the investment rate of return assumption to 7.5%. Salary increase rates, retirement rates, withdrawal rates, and disability rates have all been revised based on the experience study as of 10/1/2015. The mortality assumption was changed to the same rates used by FRS for Special Risk members in their July 1, 2016 actuarial valuation, as mandated by the Florida Statutes.

10/1/2017 Assumption Change: Decreased the investment rate of return assumption to 7.4%.

10/1/2017 Method Change: The amortization period for the unfunded actuarial accrued liability has been lowered to 25 years for any new bases and for any existing bases that had over 25 years remaining as of October 1, 2017.



10/1/2018 Assumption Change: Decreased the investment rate of return assumption to 7.3%.

10/1/2019 Assumption Changes: Decreased the investment rate of return assumption to 7.2% and the mortality assumption was changed to reflect the mortality rates used by the Florida Retirement System (FRS) for Special Risk Class members in the July 1, 2019 FRS Actuarial Valuation.

10/1/2020 Assumption Change: Decreased the investment rate of return assumption to 7.1%.

10/1/2021 Assumption Change: Decreased the investment rate of return assumption to 7.0%.

10/1/2022 Method Change: The amortization period for the unfunded actuarial accrued liability has been lowered to 20 years for any new bases and for any existing bases that had over 20 years remaining as of October 1, 2022.

B. Amortization Schedule

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

Amortization Schedule					
Year	Expected UAAL				
2022	\$ 32,183,833				
2023	31,123,000				
2024	29,987,880				
2025	28,773,301				
2026	27,473,702				
2027	26,083,131				
2032	17,526,544				
2037	7,170,876				
2042	-				



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 has been computed as follows:

Derivation of the Current UAAL	
1. Last Year's UAAL	\$ 31,902,809
2. Last Year's Employer Normal Cost	2,214,416
3. Last Year's Contributions	5,118,324
 4. Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b 	2,388,206 <u>352,495</u> 2,035,711
 This Year's Expected UAAL (Before Change): 1 + 2 - 3 + 4c 	31,034,612
6. Change in UAAL Due to Changes in Plan Provisions	0
7. Change in UAAL Due to Changes in Assumptions	0
8. This Year's Expected UAAL (After Changes)	31,034,612
9. This Year's Actual UAAL	32,183,833
10. Net Actuarial Gain/(Loss): 8 - 9	(1,149,221)
11. Gain/(Loss) Due to Investments	(1,515,238)
12. Gain/(Loss) Due to Other Sources	366,017

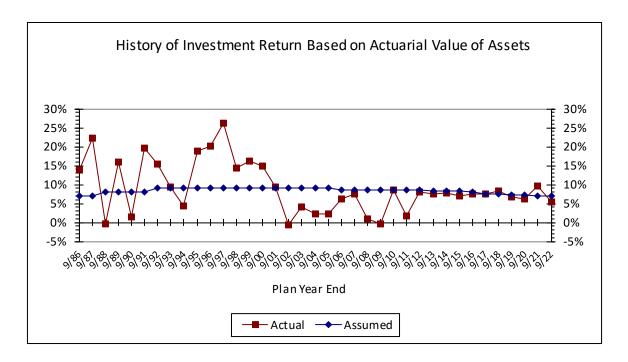


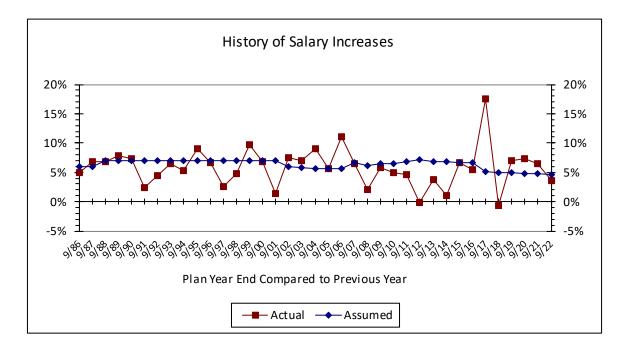
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

	Investmen	t Return	Salary Ir	ncreases
Year Ending	Actual	Assumed	Actual	Assumed
9/30/1986	13.8 %	7.0 %	5.0 %	6.0 %
9/30/1987	22.3	7.0	6.8	6.0
9/30/1988	(0.5)	8.0	6.9	7.0
9/30/1989	15.8	8.0	7.9	7.0
9/30/1990	1.4	8.0	7.3	7.0
9/30/1991	19.5	8.0	2.4	7.0
9/30/1992	15.3	9.0	4.4	7.0
9/30/1993	9.3	9.0	6.5	7.0
9/30/1994	4.3	9.0	5.3	7.0
9/30/1995	18.8	9.0	9.1	7.0
9/30/1996	20.2	9.0	6.7	7.0
9/30/1997	26.3	9.0	2.6	7.0
9/30/1998	14.3	9.0	4.7	7.0
9/30/1999	16.3	9.0	9.7	7.0
9/30/2000	14.8	9.0	6.9	7.0
9/30/2001	9.4	9.0	1.4	7.0
9/30/2002	(0.6)	9.0	7.5	6.0
9/30/2003	4.2	9.0	7.0	5.8
9/30/2004	2.2	9.0	9.0	5.6
9/30/2005	2.3	9.0	5.7	5.7
9/30/2006	6.3	8.5	11.1	5.7
9/30/2007	7.5	8.5	6.6	6.7
9/30/2008	0.9	8.5	2.1	6.2
9/30/2009	(0.5)	8.5	5.8	6.4
9/30/2010	8.6	8.5	4.9	6.4
9/30/2011	1.8	8.5	4.6	6.9
9/30/2012	8.2	8.5	(0.2)	7.1
9/30/2013	7.4	8.4	3.8	6.9
9/30/2014	7.9	8.3	1.1	6.9
9/30/2015	6.9	8.2	6.7	6.6
9/30/2016	7.4	8.1	5.4	6.7
9/30/2017	7.6	7.5	17.6	5.1
9/30/2018	8.4	7.4	(0.6)	5.0
9/30/2019	6.7	7.3	7.1	5.0
9/30/2020	6.1	7.2	7.3	4.8
9/30/2021	9.7	7.1	6.5	4.8
9/30/2022	5.5	7.0	3.7	4.6
Averages	8.9 %		5.8 %	

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 end of each year.









Actual (A) compared to expected (E) becrements Among Active Employees													
Year	Num Ado Dur Ye	ded ring ar	Retir	vice ement	Disab Retire	ment		ath	Vested	erminat Other	То	tals	Active Members End of
Ended	Α	E	Α	E	Α	E	Α	E	A	Α	Α	E	Year
9/30/2002	10	7	2	1	1	0	0	0	2	2	4	3	107
9/30/2003	10	9	3	5	0	0	0	0	4	2	6	3	108
9/30/2004	13	4	2	3	0	0	0	0	0	2	2	3	117
9/30/2005	12	2	0	7	0	0	0	0	1	1	2	3	127
9/30/2006	1	6	1	0	0	1	0	0	0	5	5	5	122
9/30/2007	8	7	2	3	1	1	0	0	0	4	4	4	123
9/30/2008	6	7	1	6	0	1	1	0	3	2	5	4	123
9/30/2009	9	9	6	6	0	1	0	0	0	3	3	4	122
9/30/2010	6	9	7	9	0	1	0	0	0	2	2	4	119
9/30/2011	3	14	13	4	0	1	0	0	0	1	1	4	108
9/30/2012	8	8	5	3	0	1	0	0	2	1	3	4	108
9/30/2013	9	3	3	4	0	0	0	0	0	0	0	4	114
9/30/2014	6	8	2	2	0	0	0	0	3	3	6	4	112
9/30/2015	11	2	2	6	0	0	0	0	0	0	0	4	121
9/30/2016	4	10	3	3	0	1	0	0	2	5	7	4	115
9/30/2017	0	0	3	4	0	0	0	0	2	1	3	4	109
9/30/2018	4	0	2	5	0	0	1	0	1	1	2	3	108
9/30/2019	0	0	11	6	0	0	0	0	1	1	2	3	95
9/30/2020	0	0	5	4	0	0	0	0	1	0	1	2	89
9/30/2021	0	0	7	4	1	0	0	0	1	1	2	2	79
9/30/2022	0	0	3	3	0	0	0	0	2	0	2	1	74
9/30/2023		0		3		0		0				1	
21 Yr Totals *	120	105	83	88	3	8	2	0	25	37	62	72	

Actual (A) Compared to Expected (E) Decrements

* Totals are through current Plan Year only.



	RECENT HISTORY OF VALUATION RESULTS								
Valuation Date	Active	per of Inactive Members	Covered Annual Pavroll	Actuarial Value of Assets	Actuarial Accrued Liability (AAL) - Entry Age Normal	Unfunded AAL (UAAL) - Entry Age Normal	Funded Ratio	Employer N Amount	Iormal Cost % of Payroll
	96								
10/1/95	96 98	3	\$				106.6 % 129.9	\$ 1,109,104 400,493	9.76 % 6.83
10/1/97	98 107	4	, ,	14,614,214	11,248,464	(3,365,750)		,	
10/1/99	107	4	5,312,541	19,157,751	13,566,544	(5,591,207)	141.2	307,353	3.68
10/1/01	_	5	5,469,735	24,124,424	20,374,068	(3,750,356)	118.4	195,360	5.57
10/1/02	107	6	5,917,542	23,484,787	22,884,351	(600,436)	102.6	304,626	14.66
10/1/03	108	6	6,190,865	22,764,119	23,529,578	765,459	96.7	1,165,034	18.82
10/1/04	117	6	7,031,747	23,064,904	25,958,509	2,893,605	88.9	1,584,162	22.53
10/1/05	127	5	7,787,903	27,393,083	33,511,777	6,118,694	81.7	1,340,779	17.22
10/1/06	122	6	8,325,901	31,020,690	39,111,752	8,091,062	79.3	1,551,241	18.63
10/1/07	123	7	8,814,200	34,269,292	42,712,978	8,443,686	80.2	1,773,937	20.13
10/1/08	122	7	8,687,911	35,762,075	49,498,712	13,736,637	72.2 *	1,360,165	15.66
10/1/09	122	11	8,931,391	36,595,232	53,587,800	16,992,568	68.3	1,426,946	15.98
10/1/10	119	17	9,004,946	40,159,836	58,568,153	18,408,317	68.6	1,638,670	18.20
10/1/11	108	29	8,469,168	42,456,776	63,662,556	21,205,780	66.7	1,449,922	17.12
10/1/12	108	32	8,174,358	44,577,607	65,146,979	20,569,372	68.4	1,642,964	20.10
10/1/13	114	35	8,641,896	49,223,508	71,473,243	22,249,735	68.9	1,768,511	20.46
10/1/14	112	37	8,303,772	53,428,211	74,883,541	21,455,330	71.3	1,751,194	21.09
10/1/15	121	39	9,185,954	58,298,763	80,847,820	22,549,057	72.1	1,821,704	19.83
10/1/16	115	42	9,058,510	64,820,231	89,987,665	25,167,434	72.0	1,717,092	18.96
10/1/17	109	45	9,962,588	70,395,918	101,480,968	31,085,050	69.4	2,147,804	21.56
10/1/18	108	47	9,667,188	76,560,966	106,163,493	29,602,527	72.1	2,232,167	23.09
10/1/19	95	56	8,936,209	82,645,862	111,236,653	28,590,791	74.3	2,129,185	23.83
10/1/20	89	61	8,887,506	87,972,095	119,771,241	31,799,146	73.5	2,214,416	24.92
10/1/21	79	68	8,214,176	95,692,771	127,595,580	31,902,809	75.0	2,135,846	26.00
10/1/22	74	71	7,959,950	100,556,250	132,740,083	32,183,833	75.8	1,980,506	24.88

* The ratio was 78.5% before allowing the Plan amendment that is being funded with member contributions.



				Required Cor	ntributions					
	End of Year To	Employer	& State	Estimated	d State	Net Em	ployer	Actual Contributions		
Valuation Date	Which Valuation Applies	Amount	% of Payroll	Amount	% of Payroll	Amount	% of Payroll	Employer	State	Total
10/1/85	9/30/87	\$ 668,968	9.95 %	\$	%	\$ 668,968	9.95 %	\$ 668,968	\$	\$ 668,96
10/1/87	9/30/88	665,073	8.35	÷ 		665,073	8.35	665,073	÷	665,0
10/1/87	9/30/89	742,366				742,366		771,335		771,3
10/1/89	9/30/90	778,557	8.19			778,557	8.19	776,878		776,8
10/1/89	9/30/91	846,580				846,580		855,377		855,3
10/1/91	9/30/92	1,057,492	9.32			1,057,492	9.32	1,057,400		1,057,4
10/1/91	9/30/93	1,356,744	12.4			1,356,744	12.4	1,356,744		1,356,7
10/1/91	9/30/94	1,401,934	12.36			1,401,934	12.36	1,398,812		1,398,8
10/1/93	9/30/95	592,021	19.43			592,021	19.43	592,021		592,0
10/1/93	9/30/96	725,024	19.9			725,024	19.9	725,024		725,0
10/1/95	9/30/97	558,938	13.62			558,938	13.62	558,938		558 <i>,</i> 9
10/1/95	9/30/98	424,916	9.58			424,916	9.58	424,916		424,9
10/1/97	9/30/99	353,245	7.85			353,245	7.85	353,245		353,2
10/1/97	9/30/00	344,764	7.85			344,764	7.85	344,764		344,7
10/1/99	9/30/01	224,529	4.23			224,529	4.23	224,528		224,5
10/1/99	9/30/02	237,449	4.23			237,449	4.23	237,449		237,4
10/1/01	9/30/03	332,042	6.07			332,042	6.07	332,042		332,0
10/1/02	9/30/04	945,433	15.98			945,433	15.98	945,433		945 <i>,</i> 4
10/1/03	9/30/05	1,269,887	20.51	66,130	1.07	1,203,757	19.44	1,203,757	66,130	1,269,8
10/1/04	9/30/06	1,679,308	22.53	66,130	0.89	1,613,178	21.64	1,651,623	66,130	1,717,7
10/1/05	9/30/07	1,795,501	21.75	82,682	1.00	1,712,819	20.75	1,712,819	82,682	1,795,5
10/1/06	9/30/08	2,145,468	24.31	82,682	0.94	2,062,786	23.37	2,062,786	82,682	2,145,4
10/1/07	9/30/09	2,412,376	25.82	82,682	0.88	2,329,694	24.94	2,329,694	82,682	2,412,3
10/1/08 10/1/09	9/30/10 9/30/11	2,307,822 2,594,980	25.06 27.41	82,682 82,682	0.90 0.87	2,225,140 2,512,298	24.16 26.54	2,225,141 2,512,298	82,682 82,682	2,307,8 2,594,9
10/1/10	9/30/12	2,874,163	30.69	82,682	0.88	2,791,481	29.81	2,791,481	82,682	2,874,1
10/1/10	9/30/12	2,874,103	32.60	82,682	0.88	2,788,705	31.66	2,791,481	82,682	2,874,1
10/1/12	9/30/14	3,175,248	37.35	82,682	0.97	3,092,566	36.38	3,194,000	82,682	3,276,6
10/1/13	9/30/15	3,441,341	38.29	82,682	0.92	3,358,659	37.37	3,358,659	82,682	3,441,3
10/1/14	9/30/16	3,640,905	42.16	82,682	0.96	3,558,223	41.20	3,558,223	576,823	4,135,0
10/1/15	9/30/17	3,827,089	40.06	82,682	0.87	3,744,407	39.19	3,744,407	82,682	3,827,0
10/1/16	9/30/18	3,967,627	43.80	82,682	0.91	3,884,945	42.89	3,884,945	82,682	3,967,6
10/1/17	9/30/19	4,908,116	49.27	184,085	1.85	4,724,031	47.42	4,724,031	184,085	4,908,1
10/1/18	9/30/20	4,879,993	50.48	197,038	2.04	4,682,955	48.44	4,682,955	197,038	4,879,9
10/1/19	9/30/21	4,731,505	52.95	186,254	2.09	4,545,251	50.86	4,545,250	186,255	4,731,5
10/1/20	9/30/22	5,118,324	57.59	82,682	0.93	5,035,642	56.66	5,035,642	82,682	5,118,3
10/1/21 10/1/22	9/30/23 9/30/24	5,102,880 5,077,450	62.12 63.79	82,682 82,682	1.00 1.04	5,020,198 4,994,768	61.12 62.75			



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 phase in the difference between the expected actuarial value and actual market value of assets at the rate of 20% per year. 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. Both the economic and decrement assumptions were established following the Experience Study Report as of October 1, 2015. The covered group is too small to provide statistically significant experience on which to base the mortality assumption. Mortality is based on a commonly used mortality table and projection scale.

Economic Assumptions

The investment return rate assumed in the current valuation is 7.0% per year, compounded annually (net after investment expenses).

The Inflation Rate assumed in this valuation is 2.5% per year. The Inflation Rate is defined to be the long term rate of annual increases in 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 7.0% investment return rate translates to an assumed real rate of return over wage inflation of 4.5%.



Pay increase assumptions for individual active members are shown below. Part of the assumption for each service year is for productivity, merit and/or seniority increases, and the other 2.5% recognizes inflation.

	Salary Increase Rates			
Years	Assumed	Promotion,		
of	General	Productivity	Total	
Service	Inflation	& Seniority	Rates	
0	2.5%	6.5%	9.0%	
1	2.5%	6.5%	9.0%	
2	2.5%	6.5%	9.0%	
3	2.5%	5.0%	7.5%	
4	2.5%	5.0%	7.5%	
5	2.5%	5.0%	7.5%	
6	2.5%	3.8%	6.3%	
7	2.5%	3.8%	6.3%	
8	2.5%	3.8%	6.3%	
9	2.5%	3.8%	6.3%	
10 - 14	2.5%	2.0%	4.5%	
15 - 19	2.5%	1.5%	4.0%	
Over 20	2.5%	1.0%	3.5%	

The rates of salary increase used for individual members 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 (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, 2020 Actuarial Valuation of the Florida Retirement System (FRS).

Sample Attained	Probability of Dying Next Year		Future Expectanc	
Ages (in 2022)	Men	Women	Men	Women
50	0.42 %	0.20 %	32.59	36.43
55	0.55	0.36	27.82	31.39
60	0.92	0.60	23.23	26.59
65	1.31	0.92	18.95	22.07
70	2.08	1.44	14.93	17.81
75	3.51	2.40	11.32	13.88
80	6.24	4.12	8.24	10.41



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

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, 2020 Actuarial Valuation of the Florida Retirement System (FRS).

Sample Attained	Probability of Dying Next Year		Future Expectanc	
Ages (in 2022)	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 are used to measure the probability of eligible members retiring during the next year.

NORMAL F	RETIREMENT RATES
Years	
After 1st	Retirement
Normal Ret.	Rates
0	25.0%
1	25.0%
2	25.0%
3	25.0%
4	35.0%
5	35.0%
6	35.0%
7	35.0%
8	35.0%
9	35.0%
10+	100.0%



EARLY RETIREMENT RATES Members Eligible for Early Retirement at 20 Years of Service		
Service	Retirement Rates	
20	30.0%	
21	30.0%	
22	30.0%	
23	30.0%	
24	30.0%	
25	30.0%	
26	30.0%	
27	30.0%	
28	30.0%	
29+	100.0%	

EARLY RETIREMENT RATES Members NOT Eligible for Early Retirement at 20 Years of Service		
Age	Retirement Rates	
50	10.0%	
51	10.0%	
52	10.0%	
53	10.0%	
54	10.0%	



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.

wi	WITHDRAWAL RATES						
	Years of	•					
Age	Service	Assumption					
ALL	Under 1	11.0%					
	1	10.0%					
	2	9.0%					
	3	8.0%					
	4	7.0%					
25 - 29	5 & Over	3.0%					
30 - 34		2.0%					
35 - 39		2.0%					
40 - 44		2.0%					
45 - 49		2.0%					
50 - 54		2.0%					
55 - 59		2.0%					

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

DISABI	DISABILITY RATES				
Ages	Assumption				
20	0.04%				
25	0.04%				
30	0.05%				
35	0.06%				
40	0.08%				
45	0.13%				
50	0.25%				
55	0.39%				



Changes Since Previous Valuation

The amortization period for the unfunded actuarial accrued liability has been lowered to 20 years for any new bases and for any existing bases that had over 20 years remaining as of October 1, 2022.



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 two years. Assumed administrative expenses are added to the Normal Cost.
Benefit Service	Exact fractional service is used to determine the amount of benefit payable.
COLA	For future cost-of-living adjustments, benefits are assumed to increase 3% per year starting five 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	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. Contribution balances are rolled forward with an assumed annual interest rate of 5.0%.
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 ten-year certain and life benefit 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

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 Employer Contribution (ADEC).
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 Employer Contribution (ADEC).



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 ADEC 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 Employer Contribution (ADEC)	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ADEC 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 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

	September 30				
Item	 2022		2021		
A. Cash and Cash Equivalents (Operating Cash)	\$ -	\$	-		
B. Receivables					
1. Member Contributions	\$ 14,273	\$	14,480		
2. Employer Contributions	-		-		
3. State Contributions (from Share Plan)	-		-		
4. Investment Income and Other Receivables	 560,526		63,902		
5. Total Receivables	\$ 574,799	\$	78,382		
C. Investments					
1. Short Term Investments	\$ 1,684,442	\$	4,041,847		
2. Domestic Equities	30,559,046		39,549,059		
3. Index Fund-Bonds	25,287,404		29,626,291		
4. Domestic Fixed Income	14,382,583		14,444,058		
5. International Fixed Income	-		-		
6. Real Estate	22,033,631		17,912,556		
7. Private Equity	-		-		
8. Total Investments	\$ 93,947,106	\$	105,573,811		
D. Liabilities					
1. Benefits Payable	\$ -	\$	-		
2. Accrued Expenses and Other Payables	(26,605)		(614,620)		
3. Total Liabilities	\$ (26,605)	\$	(614,620)		
E. Total Market Value of Assets Available for Benefits	\$ 94,495,300	\$	105,037,573		
F. Allocation of Investments					
1. Short Term Investments	1.8%		3.8%		
2. Domestic Equities	32.5%		37.4%		
3. Index Fund-Bonds	26.9%		28.1%		
4. Domestic Fixed Income	15.3%		13.7%		
5. International Fixed Income	0.0%		0.0%		
6. Real Estate	23.5%		17.0%		
7. Private Equity	 0.0%		0.0%		
8. Total Investments	100.0%		100.0%		

Statement of Plan Assets at Market Value



Reconciliation	of Plan	Assets
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		Septem	nber 30)
	ltem	 2022		2021
A. Market Value of Asset	s at Beginning of Year	\$ 105,037,573	\$	84,248,013
B. Adjustment to Match	-inancial Statements	\$ -	\$	-
C. Revenues and Expend	itures			
1. Contributions				
a. Employee Co	ntributions*	\$ 962,068	\$	845,591
b. Employer Co	ntributions	5,035,642		4,545,250
c. State Contrib	utions (from Share Plan)	 82,682		186,255
d. Total		\$ 6,080,392	\$	5,577,096
2. Investment Incom	e			
a. Interest, Divi	dends, and Other Income	\$ 2,119,754	\$	2,938,985
b. Net Realized	/Unrealized Gains/(Losses)	(11,527,577)		19,179,703
c. Investment E	xpenses	 (655,199)		(341,297)
d. Net Investme	ent Income	\$ (10,063,022)	\$	21,777,391
3. Benefits and Refu	nds			
a. Regular Mon	thly Benefits	\$ (5,496,346)	\$	(5,132,743)
b. Refunds		(27,341)		(58,715)
c. Lump Sum Be	enefits	 (653,457)		(1,093,240)
d. Total		\$ (6,177,144)	\$	(6,284,698)
4. Administrative and	d Miscellaneous Expenses	\$ (382,499)	\$	(280,229)
5. Transfers		\$ -	\$	-
D. Market Value of Asset	s at End of Year	\$ 94,495,300	\$	105,037,573

* Includes purchased service credit contributions.



	Year Ending September 30			
Items	2022	2021		
A. Beginning of Year Assets				
1. Market Value	\$ 105,037,573	\$ 84,248,013		
2. Actuarial Value	95,692,771	87,972,095		
B. End of Year Market Value				
of Assets	94,495,300	105,037,573		
C. Net of Contributions				
Less Disbursements	(479,251)	(987,831)		
D. Actual Net Investment				
Earnings	(10,063,022)	21,777,391		
E. Expected Investment	c 077 000	6 979 997		
Earnings	6,857,968	6,372,307		
F. Expected Actuarial Value End of Year	102 071 499	02 256 571		
	102,071,488	93,356,571		
G. Market Value End of Year less	(= === (==)			
Expected Actuarial Value: B - F	(7,576,188)	11,681,002		
H. 20% of Difference	(1,515,238)	2,336,200		
I. End of Year Assets				
1. Actuarial Value:				
F + H 2. Final Actuarial Value	100,556,250	95,692,771		
Within 80% to 120%				
of Market Value	100,556,250	95,692,771		
J. Recognized Investment				
Earnings	5,342,730	8,708,507		
K. Recognized Rate of Return	5.5%	9.7%		

Actuarial Value of Assets



	Investment Rate of Return*		
	Market Value	Actuarial Value	
Year Ended	Basis**	Basis	
9/30/86	19.1 %	13.8 %	
9/30/87	15.0	22.3	
9/30/88	1.6	(0.5)	
9/30/89	16.2	15.8	
9/30/90	(0.4)	1.4	
9/30/91	23.0	19.5	
9/30/92	16.1	15.3	
9/30/93	9.4	9.3	
9/30/94	0.8	4.3	
9/30/95	23.4	18.8	
9/30/96	22.7	20.2	
9/30/97	30.1	26.3	
9/30/98	6.0	14.3	
9/30/99	20.5	16.3	
9/30/00	6.5	14.8	
9/30/01	(7.1)	9.4	
9/30/02	(6.9)	(0.6)	
9/30/03	13.1	4.2	
9/30/04	10.5	2.2	
9/30/05	6.9	2.3	
9/30/06	6.0	6.3	
9/30/07	12.8	7.5	
9/30/08	(13.2)	0.9	
9/30/09	(1.1)	(0.5)	
9/30/10	11.6	8.6	
9/30/11	(1.4)	1.8	
9/30/12	18.8	8.2	
9/30/13	13.4	7.4	
9/30/14	10.1	7.9	
9/30/15	3.1	6.9	
9/30/16	9.9	7.4	
9/30/17	10.6	7.6	
9/30/18	12.0	8.4	
9/30/19	0.5	6.7	
9/30/20	4.2	6.1	
9/30/21	25.3	9.7	
9/30/22	(9.4)	5.5	
Average Returns:			
Last 5 Years	5.9 %	7.2 %	
Last 10 Years	7.6 %	7.3 %	
All Years	8.7 %	8.9 %	

* Net of investment expenses after 2005.

** Calculated returns may differ from returns calculated by the investment consultant.



SECTION D

FINANCIAL ACCOUNTING INFORMATION

FASB NO. 35 INFORMATION				
A. Valuation Date	October 1, 2022	October 1, 2021		
B. Actuarial Present Value of Accumulated Plan Benefits				
1. Vested Benefits				
 a. Members Currently Receiving Payments b. Terminated Vested Members c. Other Members d. Total 	\$ 77,980,787 164,866 <u>42,259,596</u> 120,405,249	\$ 75,334,874 151,191 <u>38,191,576</u> 113,677,641		
2. Non-Vested Benefits	1,166,420	1,414,580		
 Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2 	121,571,669	115,092,221		
4. Accumulated Contributions of Active Members	7,719,593	7,494,957		
C. Changes in the Actuarial Present Value of Accumulated Plan Benefits				
1. Total Value at Beginning of Year	115,092,221	107,378,561		
2. Increase (Decrease) During the Period Attributable to:				
a. Plan Amendment	0	0		
 b. Change in Actuarial Assumptions c. Latest Member Data, Benefits Accumulated 	0	1,444,476		
and Decrease in the Discount Period	12,656,592	12,553,882		
d. Benefits Paid	(6,177,144)	(6,284,698)		
e. Net Increase	6,479,448	7,713,660		
3. Total Value at End of Period	121,571,669	115,092,221		
D. Market Value of Assets	94,495,300	105,037,573		
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,	2022	2021	2020	2019	2018	2017	2016	2015	2014
Total Pension Liability									
Service Cost	\$ 2,575,874	\$ 2,728,817	\$ 2,745,074	\$ 2,884,226	\$ 2,874,281	\$ 2,736,585	\$ 2,688,621	\$ 2,364,576	\$ 2,474,226
Interest	8,821,801	8,368,131	8,192,391	7,986,311	7,175,820	7,112,421	6,699,774	6,407,038	5,987,806
Benefit Changes	-	-	-	-	-	-	-	-	-
Difference between actual & expected experience	1,335,775	1,753,351	1,490,024	(2,846,387)	5,426,628	(586,971)	(722,729)	(2,551,912)	-
Assumption Changes	1,640,630	1,560,253	(2,593,823)	1,471,145	1,422,393	2,910,987	1,055,450	973,319	-
Benefit Payments	(6,149,803)	(6,225,983)	(5,351,111)	(4,686,763)	(4,550,105)	(4,280,161)	(2,859,026)	(2,992,356)	(3,537,499)
Refunds	(27,341)	(58,715)	-	(71,573)	(18,657)	(32 <i>,</i> 663)	(160,092)	-	(72,946)
Other				-					
Net Change in Total Pension Liability	8,196,936	8,125,854	4,482,555	4,736,959	12,330,360	7,860,198	6,701,998	4,200,665	4,851,587
Total Pension Liability - Beginning	124,763,419	116,637,565	112,155,010	107,418,051	95,087,691	87,227,493	80,525,495	76,324,830	71,473,243
Total Pension Liability - Ending (a)	\$ 132,960,355	\$ 124,763,419	\$ 116,637,565	\$ 112,155,010	\$ 107,418,051	\$95,087,691	\$87,227,493	\$80,525,495	\$ 76,324,830
Plan Fiduciary Net Position									
Contributions - Employer	\$ 5,035,642	\$ 4,545,250	\$ 4,682,955	\$ 4,724,031	\$ 3,884,945	\$ 3,744,407	\$ 3,558,223	\$ 3,358,659	\$ 3,194,000
Contributions - Employer (from State/Share Plan)	82,682	186,255	197,038	184,085	82,682	82,682	576,823	82,682	82,682
Contributions - Non-Employer Contributing Entity	-	-	-	-	-	-	-	-	-
Contributions - Member	962,068	845,591	875,237	907,850	932,232	1,153,440	1,014,411	846,576	791,906
Net Investment Income	(10,063,022)	21,777,391	3,509,502	420,126	8,694,199	6,933,826	5,759,158	1,672,653	4,798,319
Benefit Payments	(6,149,803)	(6,225,983)	(5,351,111)	(4,686,763)	(4,550,105)	(4,280,161)	(2,859,026)	(2,992,356)	(3,537,499)
Refunds	(27,341)	(58,715)	-	(71,573)	(18,657)	(32 <i>,</i> 663)	(160,092)	-	(72,946)
Administrative Expense	(382,499)	(280,229)	(270,755)	(253,291)	(227,839)	(159,823)	(136,260)	(126,435)	(132,094)
Other									
Net Change in Plan Fiduciary Net Position	(10,542,273)	20,789,560	3,642,866	1,224,465	8,797,457	7,441,708	7,753,237	2,841,779	5,124,368
Plan Fiduciary Net Position - Beginning	105,037,573	84,248,013	80,605,147	79,380,682	70,583,225	63,141,517	55,388,280	52,546,501	47,422,133
Plan Fiduciary Net Position - Ending (b)	\$ 94,495,300	\$ 105,037,573	\$ 84,248,013	\$ 80,605,147	\$ 79,380,682	\$70,583,225	\$63,141,517	\$ 55,388,280	\$ 52,546,501
Net Pension Liability - Ending (a) - (b)	38,465,055	19,725,846	32,389,552	31,549,863	28,037,369	24,504,466	24,085,976	25,137,215	23,778,329
Plan Fiduciary Net Position as a Percentage									
of Total Pension Liability	71.07 %	84.19 %	72.23 %	71.87 %	73.90 %	74.23 %	72.39 %	68.78 %	68.85 %
Covered Payroll*	\$ 8,214,176	\$ 8,887,506	\$ 8,936,209	\$ 9,667,188	\$ 9,962,588	\$ 9,058,510	\$ 9,185,954	\$ 8,901,956	\$ 8,327,087
Net Pension Liability as a Percentage									
of Covered Payroll	468.28 %	221.95 %	362.45 %	326.36 %	281.43 %	270.51 %	262.20 %	282.38 %	285.55 %

* Estimated covered payroll

FY Ending September 30,	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability	Plan Fiduciary Net Position as a % of Total Pension Liability	Covered Payroll	Net Pension Liability as a % of Covered Payroll
2014	\$ 76,324,830	\$ 52,546,501	\$ 23,778,329	68.85%	\$ 8,327,087	285.55%
2015	80,525,495	55,388,280	25,137,215	68.78%	8,901,956	282.38%
2016	87,227,493	63,141,517	24,085,976	72.39%	9,185,954	262.20%
2017	95,087,691	70,583,225	24,504,466	74.23%	9,058,510	270.51%
2018	107,418,051	79,380,682	28,037,369	73.90%	9,962,588	281.43%
2019	112,155,010	80,605,147	31,549,863	71.87%	9,667,188	326.36%
2020	116,637,565	84,248,013	32,389,552	72.23%	8,936,209	362.45%
2021	124,763,419	105,037,573	19,725,846	84.19%	8,887,506	221.95%
2022	132,960,355	94,495,300	38,465,055	71.07%	8,214,176	468.28%

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



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

Valuation Date: Measurement Date:	October 1, 2021 September 30, 2022						
Methods and Assumptions Used to Determine Net Pension Liability:							
Actuarial Cost Method	Entry Age Normal						
Roll Forward Procedures	The Total Pension Liability was developed by using standard actuarial techniques to roll forward amounts from the October 1, 2021 actuarial valuation one year to the measurement date.						
Inflation	2.50%						
Salary Increases	3.50% to 9.00% depending on service						
Investment Rate of Return	7.00%						
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition						
Mortality	The mortality tables are 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, 2020 Actuarial Valuation of the Florida Retirement System (FRS).						
Other Information:							
Notes	See Discussion of Valuation Results in the October 1, 2021 Actuarial Valuation 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
2014	\$ 3,239,178	\$ 3,276,682	\$ (37,504)	\$ 8,327,087	39.35%
2015	3,441,341	3,441,341	0	8,901,956	38.66%
2016	3,640,905	4,135,046	(494,141)	9,185,954	45.01%
2017	3,827,089	3,827,089	0	9,058,510	42.25%
2018	3,967,627	3,967,627	0	9,962,588	39.83%
2019	4,908,116	4,908,116	0	9,667,188	50.77%
2020	4,879,993	4,879,993	0	8,936,209	54.61%
2021	4,731,505	4,731,505	0	8,887,506	53.24%
2022	5,118,324	5,118,324	0	8,214,176	62.31%



NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date:	October 1, 2020
Notes	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 Dollar, Closed
Remaining Amortization Period	
Asset Valuation Method	Recognition of 20% of difference between market value of assets
	and expected actuarial value of assets
Inflation	2.50%
Salary Increases	3.50% to 9.00% depending on service
Investment Rate of Return	7.10%
Retirement Age	Experience-based table of rates that are specific to the type of
	eligibility condition
Mortality	The mortality tables are 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, 2019
	Actuarial Valuation of the Florida Retirement System (FRS).
Other Information:	
Notes	See Discussion of Valuation Results in the October 1, 2020 Actuarial
	Valuation Report.



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:

	Current Single Discount						
1% Decrease	Rate Assumption	1% Increase					
6.00%	7.00%	8.00%					
\$56,812,570	\$38,465,055	\$23,402,103					

Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption



SECTION E

MISCELLANEOUS INFORMATION

RECONCILIATION OF MEMBERSHIP DATA						
		From 10/1/21	From 10/1/20			
^	Active Members	To 10/1/22	To 10/1/21			
A.						
1.	Number Included in Last Valuation	79	89			
2.	New Members Included in Current Valuation	0	0			
3.	Non-Vested Employment Terminations	0	(1)			
4.	Vested Employment Terminations	(2)	(1)			
5.	Service Retirements	(3)	(7)			
6.	Disability Retirements	0	(1)			
7.	Deaths	0	0			
8.	Transfer from General Employees Plan	0	0			
9.	Transfer to General Employees Plan	0	0			
10.	Other	0	0			
11.	Number Included in This Valuation	74	79			
B. Terminated Vested Members						
1.	Number Included in Last Valuation	1	2			
	Additions from Active Members		2			
		-	-			
3. 1	Lump Sum Payments/Refund of Contributions	(1)	(1)			
4.	Payments Commenced	0	(1)			
5.	Deaths	0	0			
6. -	OtherReturn to Actives					
7.	Number Included in This Valuation	2	1			
C.	Service Retirees, Disability Retirees and Beneficia	aries				
1.	Number Included in Last Valuation	67	59			
2.	Additions from Active Members	3	8			
3.	Additions from Terminated Vested Members	0	1			
4.	Deaths Resulting in No Further Payments	(1)	(1)			
5.	Deaths Resulting in New Survivor Benefits	0	0			
6.	End of Certain Period - No Further Payments	0	0			
0. 7.	-	0	0			
	•		67			
7. 8.	Number Included in This Valuation	<u> </u>				



ACTIVE PARTICIPANT SCATTER

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	25-29	30 & Up	Totals
20-24 NO.	-	-	-	-	-	-	-	-	-	-	-	C
TOT PAY	-	-	-	-	-	-	-	-	-	-	-	0
AVG PAY	-	-	-	-	-	-	-	-	-	-	-	0
25-29 NO.	-	-	-	-	-	1	-	-	-	-	-	1
TOT PAY	-	-	-	-	-	79,125	-	-	-	-	-	79,125
AVG PAY	-	-	-	-	-	79,125	-	-	-	-	-	79,125
30-34 NO.	-	-	-	-	-	7	1	-	-	-	-	8
TOT PAY	-	-	-	-	-	596,717	95,031	-	-	-	-	691,748
AVG PAY	-	-	-	-	-	85,245	95,031	-	-	-	-	86,469
35-39 NO.	-	-	-	-	-	8	8	1	-	-	-	17
TOT PAY	-	-	-	-	-	643,274	853,612	115,069	-	-	-	1,611,955
AVG PAY	-	-	-	-	-	80,409	106,702	115,069	-	-	-	94,821
40-44 NO.	-	-	-	-	-	2	1	12	-	-	-	15
TOT PAY	-	-	-	-	-	160,905	115,007	1,334,807	-	-	-	1,610,719
AVG PAY	-	-	-	-	-	80,452	115,007	111,234	-	-	-	107,381
45-49 NO.	-	-	-	-	-	-	3	7	8	1	-	19
TOT PAY	-	_	-	-	-	-	299,740	778,853	1,038,710	105,426	-	2,222,729
AVG PAY	-	-	-	-	-	-	99,913	111,265	129,839	105,426	-	116,986
50-54 NO.	-	_	-	-	-	2	-	4	3	1	-	10
TOT PAY	-	-	-	-	-	180,230	-	464,350	369,691	131,273	-	1,145,544
AVG PAY	-	-	-	-	-	90,115	-	116,088	123,230	131,273	-	114,554
55-59 NO.	-	-	-	-	-	-	1	-	2	-	-	3
TOT PAY	-	_	-	-	-	-	98,300	-	243,438	-	-	341,738
AVG PAY	-	-	-	-	-	-	98,300	-	121,719	-	-	113,913
60 & Up NO.	-	-	-	-	-	1	-	-	-	-	-	1
TOT PAY	-	-	-	-	-	86,108	-	-	-	-	-	86,108
AVG PAY	-	-	-	-	-	86,108	-	-	-	-	-	86,108
TOT NO.	0	0	0	0	0	21	14	24	13	2	0	74
TOT NO. TOT AMT	0	0	0	0	0	1,746,359	1,461,690	2,693,079	1,651,839	236,699	0	
AVG AMT	0	0	0	0	0	83,160	104,406	112,212	127,065	118,350	0	
	0	0	5	5	0	00,100	101,700	***/***	127,005	110,000	0	100,200



INACTIVE PARTICIPANT DISTRIBUTION

		inated						ed with
	Ve	sted	Di	sabled	Re	etired	Bene	ficiary
		Total		Total		Total		Total
Age Group	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-
35-39	2	24,845	-	-	-	-	-	-
40-44	-	-	-	-	-	-	-	-
45-49	-	-	-	-	3	186,623	-	-
50-54	-	-	1	94,384	16	1,397,576	-	-
55-59	-	-	-	-	20	1,636,936	-	-
60-64	-	-	1	52 <i>,</i> 484	9	865,788	-	-
65-69	-	-	1	40,279	11	1,015,603	1	33,145
70-74	-	-	-	-	4	335,610	-	-
75-79	-	-	-	-	1	47,121	-	-
80-84	-	-	1	22,457	-	-	-	-
85-89	-	-	-	-	-	-	-	-
90-94	-	-	-	-	-	-	-	-
95-99	-	-	-	-	-	-	-	-
100 & Over	-	-	-	-	-	-	-	-
Total	2	24,845	4	209,604	64	5,485,257	1	33,145
verage Age		37		65		59		66



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 North Miami, Florida, Chapter 15, Article IV, and was most recently amended under Ordinance No. 1407 passed and adopted on its second reading on December 13, 2016. The Plan is also governed by certain provisions of Chapter 185, <u>Florida Statutes</u>, Part VII, Chapter 112, <u>Florida Statutes</u> (F.S.) and the Internal Revenue Code.

B. Effective Date

January 1, 1977

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 police bargaining unit members and general employees initially employed as a police officer trainee before December 1, 2016, the date the City joins the Florida Retirement System (FRS), shall be eligible for membership and shall become members of this system immediately upon being employed on a full-time permanent basis pursuant to the city's administrative rules and procedures. Effective December 1, 2016, all sworn police personnel including police administrators, who are members of this system may remain members of this system or instead may elect to join the FRS as applicable.

F. Credited Service

Service is measured as the total number of calendar years, or portions thereof, during which the member has served as an employee of the City and has made the required contributions to the Plan. No service is credited for any periods of employment for which the member received a refund of employee contributions.

G. Compensation

Total compensation including member contributions which are "picked up" by the City.



H. Average Final Compensation (AFC)

For members who did not waive the 20 and out early retirement provision, AFC is the average of Compensation over the highest 57 months out of the last 120 months of Credited Service prior to termination or retirement. For all other members, AFC is the average of Compensation over the highest 24 months out of the last 120 months of Credited Service prior to termination or retirement. AFC excludes lump sum payment of unused leave.

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 55 and 10 years of Credited Service, or(2) age 50 and 20 years of Credited Service.
Benefit:	1.0% of AFC multiplied by years of Credited Service prior to July 1, 1979, plus 3.0% of AFC multiplied by years of Credited Service from July 1, 1979 through December 31, 1997, plus 3.5% of AFC multiplied by years of Credited Service earned on or after January 1, 1998.
Normal Form of Benefit:	10 Years Certain and Life thereafter; other options are also available.
Supplemental Benefit:	Lump sum of member contributions made through September 30, 1982, if applicable.
COLA:	Members who retire after October 1, 2004 (not due to disability) and elect an annuity form of payment receive an annual cost of living adjustment each April 1st. These retirees may choose a 1.92% COLA with a one-year delay, a 2.50% COLA

J. Early Retirement

Eligibility: Members may elect to retire earlier than the Normal Retirement Eligibility upon attainment of age 50 with 10 years of Credited Service. Members who did not waive the 20 and out early retirement provision may elect to retire upon the attainment of 20 years of Credited Service regardless of age.

with a three-year delay, or a 3.00% COLA with a five-year delay.

Benefit: For members who did not waive the 20 and out early retirement provision, the Normal Retirement Benefit is reduced by 1.0% for each year that the Early Retirement date precedes the Normal Retirement date. For all other members, the Normal Retirement Benefit is reduced by 3.0% for each year that the Early Retirement date precedes the Normal Retirement date.

Normal Form

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



Supplemental

- Benefit: Lump sum of member contributions made through September 30, 1982, if applicable.
- COLA: Members who retire after October 1, 2004 (not due to disability) and elect an annuity form of payment receive an annual cost of living adjustment each April 1st. These retirees may choose a 1.92% COLA with a one-year delay, a 2.50% COLA with a three-year delay, or a 3.00% COLA with a five-year delay.

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 incurs a mental or physical condition resulting from injury, disease, or mental disorder, which renders the member incapable of performing satisfactory work for the City is immediately eligible for a disability benefit.
- Benefit: 75% of member's Compensation on the date of disability. The benefit will be reduced by amounts paid from other sources to the extent that, when combined with this benefit, they exceed 100% of the rate of pay in effect at the time of the disability. The benefit shall not be less than the accrued pension, or 42% of AFC, whichever is greater.

If a member receives a Service Connected Disability and work is available in a lower medical classification which the member is capable of performing, the member is entitled to a salary of at least 90% of the rate of pay he was receiving prior to becoming disabled. Such salary shall be paid first by the 75% disability benefit.

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 incurs a mental or physical condition resulting from injury, disease, or mental disorder, which renders the member incapable of performing satisfactory work for the City is immediately eligible for a disability benefit.
- Benefit: The member's vested accrued benefit payable at the Normal Retirement date taking into account compensation earned and service credited on the date of disability. For members with at least ten years of credited service, the benefit shall not be less than the accrued pension, or 25% of AFC, whichever is greater.



Normal Form

- of Benefit: 10 Years Certain and Life thereafter payable at the Normal Retirement date, or an actuarially equivalent lump sum payable immediately. Other options are also available.
- COLA: None

N. Death in the Line of Duty

- Eligibility: Any member who dies while performing, directly or indirectly, services for the City is eligible for survivor benefits regardless of Credited Service.
- Benefit: 50% of the average wages paid to the member during the last 12 months of employment shall be paid to the member's spouse. In addition, 10% of the member's final compensation shall be paid for each child under age 18. In no event shall the total benefit exceed 100% of the member's final compensation. If the member was eligible for normal retirement, the benefit shall not be less than the accrued pension.

Normal Form

- of Benefit: Benefits payable for the life of the spouse. Children's benefits are payable until age 18. If the member was eligible for normal retirement, the benefit shall not be payable for less than 10 years.
- COLA: After October 1, 2004, beneficiaries may choose a 1.92% COLA with a one-year delay, a 2.50% COLA with a three-year delay, or a 3.00% COLA with a five-year delay. The COLA is 3.00% per year for survivors in receipt of benefits before the Plan's COLA was adopted on September 28, 2004.

O. Other Pre-Retirement Death

- Eligibility: Any vested member who dies while employed by the City is eligible for survivor benefits.
- Benefit:The actuarial equivalent of the vested accrued benefit plus the Member's pre-
October 1, 1982 contributions shall be paid to the beneficiaries.

Normal Form

of Benefit: Lump sum

COLA: After October 1, 2004, beneficiaries may choose a 1.92% COLA with a one-year delay, a 2.50% COLA with a three-year delay, or a 3.00% COLA with a five-year delay.

The designated beneficiary of a plan member with less than 5 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 the Straight Life Annuity option, the 50%, 67%, 75%, and 100% Joint and Survivor options, or the 5 and 10 Years Certain and Life options. A Social Security option is also available for members retiring prior to the time they are eligible for Social Security retirement benefits if they are not retiring under Disability Retirement.

Alternatively, members can elect a partial lump sum with the remaining value of the benefit paid as a monthly annuity. A total lump sum distribution is also available for those who became members of the Plan prior to October 1, 2004.

R. Vested Termination

Eligibility:	A member has earned a non-forfeitable right to Plan benefits after the completion
	of 5 years of Credited Service (see vesting table below).

Credited	Vested		
Service	Percent		
Less than 5	0%		
5	25		
6	40		
7	55		
8	70		
9	85		
10 or more	100		

Benefit: The benefit is the member's vested accrued Normal Retirement Benefit as of the date of termination. Benefit begins at the member's Early or Normal Retirement date and will be reduced for Early Retirement if applicable.

Normal Form

- of Benefit: 10 Years Certain and Life thereafter; other options are also available. In lieu thereof, the Board may elect to make an immediate lump sum payment of the actuarially equivalent benefit.
- COLA: Members who retire after October 1, 2004 (not due to disability) and elect an annuity form of payment receive an annual cost of living adjustment each April 1st. These retirees may choose a 1.92% COLA with a one-year delay, a 2.50% COLA with a three-year delay, or a 3.00% COLA with a five-year delay.

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: A refund of the member's contributions with interest.

T. Member Contributions

11.51% of Compensation; and if the market value return for the fiscal year is more than 30% greater than the investment return assumption, the member contribution rate for the following year is reduced to 9.51% of Compensation.

U. State Contribution

Chapter 185 Premium Tax refunds. The City and Police Benevolent Association have mutually agreed that the first \$82,682 of Chapter 185 revenue will be used to offset the City's required contribution, the next \$147,586 of Chapter 185 will be allocated to the Share Plan, and any excess Chapter 185 revenue above \$230,268 will be designated as unallocated and held in reserve as an accumulated excess.

V. Employer Contribution

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

W. Cost of Living Increases

Members who retire after October 1, 2004 (not due to disability) and elect an annuity form of payment receive an annual cost of living adjustment each April 1st. These retirees may choose a 1.92% COLA with a one-year delay, a 2.50% COLA with a three-year delay, or a 3.00% COLA with a five-year delay.

X. 13th Check

Not Applicable

Y. Deferred Retirement Option Plan (DROP)

Not Applicable

Z. Other Ancillary Benefits

There are no ancillary retirement type benefits not required by statutes but which might be deemed a North Miami Police Pension Plan liability if continued beyond the availability of funding by the current funding source.



AA. Changes from Previous Valuation

None

