St. Lucie County Fire District Firefighters' Pension Trust Fund

Actuarial Valuation Report as of October 1, 2022

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







March 16, 2023

Board of Trustees St. Lucie County Fire District Firefighters' Pension Trust Fund 5160 N.W. Milner Dr. Port St. Lucie, FL 34983

Re: St. Lucie County Fire District Firefighters' Pension Trust Fund
Actuarial Valuation as of October 1, 2022 and Actuarial Disclosures

Dear Board Members:

The results of the October 1, 2022 Annual Actuarial Valuation of the St. Lucie County Fire District (the District) Firefighter's Pension Trust Fund are presented in this report.

This report was prepared at the request of the Board and is intended for use by the District and those designated or approved by the Board. This report may be provided to parties other than the District 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 District's funding progress and determine the employer contribution rate 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 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 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 and the District concerning Retirement Plan 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 and the District.

This report was prepared using certain assumptions approved by the Board and prescribed by the Florida Statutes. The prescribed assumptions are the assumed mortality rates in accordance with Chapter 112.63, Florida Statutes. All actuarial assumptions used in this report are reasonable for the purposes of this

Board of Trustees St. Lucie County Fire District Firefighters' Pension Trust Fund March 16, 2023 Page ii

valuation. Additional information about the actuarial assumptions is included in the section of this report entitled Actuarial Assumptions and Methods.

This report was prepared using ProVal's valuation model, a software product of Winklevoss Technologies. We are relying on the ProVal model. We performed tests of the ProVal model with this assignment and made a reasonable attempt to understand the developer's intended purpose of, general operation of, major sensitivities and dependencies within, and key strengths and limitations of the ProVal model. In our professional judgment, the ProVal valuation model has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses.

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 St. Lucie County Fire District Firefighter's Pension Trust fund 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.

Pete N. Strong and Jeffrey Amrose are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries 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 report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,

GABRIEL, ROEDER, SMITH & COMPANY

Pete N. Strong, FSA, EA MAAA, FCA

Enrolled Actuary No. 20-06975

Jeffrey/Amrose, EA, MAAA

Enrolled Actuary No. 20-06599



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DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

Comparison of Required Employer Contributions

A comparison of the required employer contribution developed in this year's actuarial valuation and the previous valuation is as follows:

	For FYE 9/30/2024 Based on 10/1/2022 Valuation		Based on 10/1/2022 Based on 10/1/2021		Increase (Decrease)	
Required Employer/State Contribution As % of Covered Payroll	\$	18,818,902 54.71 %	\$	17,707,539 51.34 %	\$ 1,111,363 3.37 %	
Estimated State Contribution* As % of Covered Payroll		2,112,321 6.14		2,712,504 7.86	(600,183) (1.72)	
Required Employer Contribution** As % of Covered Payroll		16,706,581 ** 48.57		14,995,035 43.48	1,711,546 5.09	

^{*}The "Frozen Amount" for estimated state contributions is \$2,112,321, and all contributions over that amount will be added to the Excess State Contribution Reserve. For the fiscal years ending 2022 and 2023, the District and Union have agreed that all state money received shall be used to offset the required employer contribution.

The required employer contribution has been adjusted for interest on the basis that the District contribution is made in full by January 1st (three months after the beginning of the fiscal year).

The minimum required employer contribution (District and State) for the fiscal year ending September 30, 2022 was \$17,623,957. The actual District and State contributions for the fiscal year ending September 30, 2022 were \$15,511,636 and \$2,712,504, respectively, for a total of \$18,224,140. The excess contribution of \$600,183 has been added to the District's prepaid contribution.

We note that total Member contributions reported during the year were \$2,386,674, which was comprised of \$1,934,233 in Member contributions from active members and \$452,441 in contributions from DROP members. In accordance with Resolution No. 674-19, contributions made by DROP members (\$452,441) were used to reduce the unfunded actuarial accrued liability (UAAL).



^{**}The District previously had a prepaid contribution of \$524,380 available to offset the contribution requirement. This year's excess contribution of \$600,183 (\$18,224,140 - \$17,623,957) increased the District's prepaid contribution to \$1,124,563 as of October 1, 2022. All or any portion of this prepaid contribution may be applied to reduce the required employer contribution shown above.

Revisions in Benefits

There were no changes in benefits since the last valuation.

Revisions in Actuarial Assumptions or Methods

The investment return assumption has been lowered from 7.4% to 7.3%, effective October 1, 2022. This assumption will be lowered by 0.10% each year until 7.0% is reached.

This assumption change caused the required contribution to increase by \$536,602 or 1.56% of pay.

For this valuation, a long-term average annual future net investment return assumption of 7.3%, or about 8.1% before investment expenses, was used. Based on the Plan's asset allocation, an assumed net rate of return of 6.50% to 7.00% would be more in line with projected expected returns over the next several years. We recommend consideration be given to lowering the investment return assumption to a rate in this range. If the investment return assumption is lowered, the required City contribution will increase in the short term, but there will be a higher probability the Plan will meet or exceed its assumed return in future years. In other words, there will be a lower probability the Plan will generate investment losses which will be funded by future taxpayers.

If actual experience matches the assumptions, including actual net investment returns equaling 7.3% per year, the UAL is expected to decrease over time. On the other hand, if actual investment returns are less than assumed each year, the UAL will increase over time even if the actuarially determined contributions are made and there are no other actuarial gains or losses.

Actuarial Experience

There was a net actuarial experience loss of \$5,370,296 since the last valuation, which means that actual experience was less favorable than expected. There was an experience loss of approximately \$6.6 million due to a lower than expected investment return on the actuarial value of assets during the year ending September 30, 2022 (5.4% actual versus 7.4% expected). The return on the market value of assets was -11.9%, but the majority of this return is being smoothed over the next four years. There was an offsetting experience gain of approximately \$1.2 million due to demographic experience. Demographic experience gains were primarily due to more retiree and beneficiary deaths than expected (11 deaths versus 5 expected) and lower salary increases than expected from FY 2021 to FY 2022 (5.4% actual average increases versus 6.5% expected). The net actuarial experience loss caused the required employer contribution to increase by \$509,083, or 1.48% of covered payroll.

Analysis of Change in Employer Contribution

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



Contribution Rate Last Year	43.48 %
Plan Changes	0.00
Change in Assumptions	1.56
Experience (Gains) or Losses	1.48
Change in Employer Normal Cost Rate	0.06
Amortization of UAAL	0.27
State Contribution	1.72
Contribution Rate This Year	48.57 %

Funded Ratio

This year's funded ratio is 75.8% compared to 75.9% last year. Prior to recognizing the assumption change, this year's funded ratio would have been 76.6%. The ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

Required Contributions in Later Years

The current calculated District contribution requirement is 48.57% of payroll starting October 1, 2023. Under the asset smoothing method, market value gains and losses are recognized over five years. As of October 1, 2022, the market value of assets was \$28,287,103 less than the actuarial value of assets. Once all the gains and losses through September 30, 2022 have been fully recognized in the actuarial value of assets, the employer contribution rate will increase by roughly 7.8% of payroll before reflecting any future plan or assumption changes, unless there are offsetting gains (by an approximate dollar amount of \$2.67 million).

Relationship to Market Value

If the Market Value of Assets had been the basis for this valuation, the required District contribution rate would have been 56.34% (a dollar amount of \$19,379,271) and the funded ratio would have been 69.6%. The funded ratio on a market value basis was 83.5% last year.

Conclusion

The remainder of this Report includes detailed actuarial valuation results, financial information, miscellaneous information and statistics, and a summary of plan provisions.



STATE CONTRIBUTION RESERVE

Increments in Chapter revenue over that received in 1998 must first be used to fund the cost of compliance with minimum benefits. As of the valuation date, there were no cost-related changes needed to be made to comply with minimum benefits.

Actuarial Confirmation of the Use of State Chapter Money						
	Fire	Supplement	Total			
Base Amount Previous Plan Year	\$ 2,112,321	\$ 0	\$ 2,112,321			
2. Amount Received for Previous Plan Year	2,712,504	0	2,712,504			
3. Benefit Improvements Made in Previous Plan Year	0	0	0			
4. Excess Funds for Previous Plan Year *	0	0	0			
5. Accumulated Excess at Beginning of Previous Year	869,162	0	869,162			
6. Prior Excess Used in Previous Plan Year	0	0	0			
7. Accumulated Excess as of Valuation Date (Available for Benefit Improvements): (4) + (5) - (6)	869,162	0	869,162			
8. Base Amount This Plan Year	2,712,504	0	2,712,504			

^{*} The District and Union have agreed that all Chapter Money received during fiscal years 2022 and 2023 shall be used to offset the required employer contribution.



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;
- 2. 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 required 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 Values

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>2022</u>	<u>2021</u>
Ratio of the market value of assets to covered payroll	9.44	10.63
Ratio of actuarial accrued liability to covered payroll	13.57	12.73
Ratio of actives to retirees and beneficiaries	1.30	1.37
Ratio of net cash flow to market value of assets	0.9%	1.2%

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.



SECTION B

VALUATION RESULTS

PARTICIPANT DATA					
	С	October 1, 2022	С	october 1, 2021	
ACTIVE MEMBERS	,				
Number Payroll Under Assumed Ret. Age Total Payroll Average Payroll	\$ \$ \$	367 33,395,684 33,532,013 91,368	\$ \$ \$	355 33,486,143 33,486,143 94,327	
Average Age Average Past Service Average Age at Hire		37.4 10.5 26.9		38.5 11.8 26.7	
RETIREES, BENEFICIARIES & DROP					
Number Annual Benefits Average Annual Benefit Average Age	\$	264 21,553,960 81,644 61.8	\$	241 19,263,158 79,930 62.5	
DISABILITY RETIREES					
Number Annual Benefits Average Annual Benefit Average Age	\$	18 1,015,329 56,407 58.5	\$	18 1,015,329 56,407 57.5	
TERMINATED VESTED MEMBERS					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	28 745,329 26,619 44.3	\$	25 587,929 23,517 44.0	



	ACTUARIALLY DETERMINED CONTRIBUTION (ADC)										
Α.	Valuation Date		October 1, 2022 After Assumption		· ·		After Assumption Before Assumption				21
В.	ADC to Be Paid During Fiscal Year Ending		9/30/2024		9/30/2024		9/30/2023				
C.	Assumed Dates of Employer Contributions		1/1/2024		1/1/2024		1/1/2023				
D.	Annual Payment to Amortize Unfunded Actuarial Liability	\$	9,934,163	\$	9,632,982		\$ 9,083,102				
E.	Employer Normal Cost		8,010,250		7,795,294		7,795,282				
F.	ADC if Paid on the Valuation Date: D+E		17,944,413		17,428,276		16,878,384				
G.	ADC Adjusted for Timing of Payments		18,271,899		17,750,699		17,190,634				
Н.	ADC as % of Covered Payroll		54.71 %		53.15	%	51.34	%			
I.	Assumed Rate of Increase in Covered Payroll to Contribution Year		3.00 %		3.00	%	3.00	%			
J.	Covered Payroll as of Contribution Date		34,397,555		34,397,555		34,490,727				
K.	ADC for Contribution Year: H x J		18,818,902		18,282,300		17,707,539				
L.	Estimate of State Revenue in Contribution Year		2,112,321		2,112,321		2,712,504				
M.	Required Employer Contribution (REC) in Contribution Year		16,706,581		16,169,979		14,995,035				
N.	REC as % of Covered Payroll in Contribution Year: M ÷ J		48.57 %		47.01	%	43.48	%			



ACTUARIAL VALUE OF BENEFITS AND ASSETS						
A. Valuation Date	October 1, 2022 After Assumption	October 1, 2022 Before Assumption	October 1, 2021			
B. Actuarial Present Value of All Projected Benefits for	Change	Change				
Active Members a. Service Retirement Benefits	\$ 224,836,263	\$ 220,242,593	\$ 226,695,435			
b. Vesting Benefitsc. Disability Benefits	6,458,762 10,991,510	6,290,984 10,798,858	5,994,802 10,387,561			
d. Preretirement Death Benefits	3,769,154	3,700,571	3,559,473			
e. Return of Member Contributions	359,875	358,619	274,950			
e. Total	246,415,564	241,391,625	246,912,221			
2. Inactive Members						
a. Service Retirees & Beneficiaries	242,161,899	239,954,932	212,519,661			
b. Disability Retirees	11,541,588	11,434,052	11,535,951			
c. Terminated Vested Members	5,088,186	5,005,800	3,575,543			
d. Excess State Monies Reserve	869,162	869,162	869,162			
e. DROP Balances	54,430,094	54,430,094	47,863,010			
f. Total	314,090,929	311,694,040	276,363,327			
3. Total for All Members	560,506,493	553,085,665	523,275,548			
C. Actuarial Accrued (Past Service) Liability per Entry Age Normal Method	453,069,478	448,718,827	426,116,831			
D. Actuarial Value of Accumulated Plan Benefits per FASB No. 35	405,548,823	401,664,339	379,862,011			
E. Plan Assets1. Market Value2. Actuarial Value	315,349,740	315,349,740 343,636,843	355,858,447 323,453,629			
Z. Actualiai value	343,636,843	343,030,043	323,433,029			
F. Unfunded Actuarial Accrued Liability (EAN Method): C - E2	109,432,635	105,081,984	102,663,202			
G. Funded Ratio: E2 / C	75.8 %	76.6 %	75.9 %			
H. Actuarial Present Value of Projected Covered Payroll	374,283,895	371,764,913	345,857,006			
Actuarial Present Value of Projected Member Contributions	22,457,034	22,305,895	20,751,420			
J. Accumulated Contributions of Active Members	8,598,646	8,598,646	7,750,695			



	CALCULATION OF EMPLOYER NORMAL COST								
	Valuation Date Normal Cost for	October 1, 2022 After Assumption Change		After Assumption			tober 1, 2022 ore Assumption Change	O	ctober 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 	\$	8,300,537 458,314 729,902 293,248 49,775 9,831,776 182,215 10,013,991	\$	8,111,919 446,049 719,854 289,307 49,691 9,616,820 182,215 9,799,035	\$ _	8,159,031 433,143 731,164 294,638 36,522 9,654,498 149,953 9,804,451		
	Expected Member Contribution		2,003,741		2,003,741		2,009,169		
E.	Employer Normal Cost: B8-C Employer Normal Cost as a % of Covered Payroll		8,010,250 23.99 %		7,795,294 23.34 %		7,795,282 23.28 %		



DERIVATION OF CURRENT UAAL

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 derivation from what has been expected, and that derivation is expected to continue, the assumptions should be modified. The net actuarial gain (loss) for the past year is computed as follows:

	DERIVATION OF CURRENT UAAL						
1.	Last Year's UAAL	\$ 102,663,202					
2.	Employer Normal Cost in Previous Year	7,795,282					
3.	Last Year's Contributions (including contributions from DROP members, but not including excess employer contributions allocated to prepaid contributions)	18,076,398					
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b	8,173,928 844,326 7,329,602					
5.	This Year's Expected UAAL Prior to Revision: 1 + 2 - 3 + 4c	99,711,688					
6.	Change in UAAL Due to Plan Amendments and/or Changes in Actuarial Assumptions/Methods	4,350,651					
7.	This Year's Expected UAAL: 5 + 6	104,062,339					
8.	This Year's Actual UAAL	109,432,635					
9.	This Year's Gain (Loss): 7 - 8	(5,370,296)					
10.	Gain (Loss) due to Investments	(6,598,635)					
11.	Gain (Loss) due to Other Causes	1,228,339					



LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

	UAAL AMORTIZATION PERIOD AND PAYMENTS					
	Original UAAL			C	Current UAAL	
		Amortization			Pay	ment
Valuation		Period	Years		After Assumption	Before Assumption
Date	Source	(Years)	Remaining	Amount	Change	Change
10/1/2015	Fresh Start	23	16	\$83,865,380	\$ 7,230,805	\$ 7,274,886
10/1/2015	Benefit Change	30	23	1,378	117	118
10/1/2016	Assumption Changes	20	14	413,636	44,876	45,101
10/1/2016	Actuarial Loss	10	4	451,167	124,977	125,142
10/1/2017	Actuarial Loss	10	5	1,764,870	404,379	405,080
10/1/2017	Benefit Change	30	25	327	27	27
10/1/2018	Actuarial Loss	10	6	728,714	143,802	144,110
10/1/2019	(Gain)/Loss	20	17	4,085,461	398,127	400,484
10/1/2019	Benefit Change	30	27	(115,658)	(9,249)	(9,326)
10/1/2019	Assumption Changes	25	22	8,030,429	693,525	698,554
10/1/2020	(Gain)/Loss	20	18	3,780,112	357,844	360,065
10/1/2020	Assumption Changes	25	23	3,773,317	320,007	322,403
10/1/2020	Benefit Change	30	28	(5,390,337)	(425,958)	(429,605)
10/1/2021	(Gain)/Loss	20	19	(5,695,023)	(525,134)	(528,537)
10/1/2021	Assumption Changes	25	24	4,017,915	335,129	337,716
10/1/2022	(Gain)/Loss	20	20	5,370,296	483,502	486,764
10/1/2022	Assumption Change	25	25	4,350,651	<u>357,387</u>	<u>0</u>
				109,432,635	9,934,163	9,632,982



The UAAL is being amortized as a level percent of pay for bases created before October 1, 2016 and as a level dollar for bases created on and after October 1, 2016 over the number of years remaining in each amortization period. The following schedule illustrates the expected amortization of the UAAL:

AMORTIZATION SCHEDULE				
Year	Expected UAAL			
2022	\$ 109,432,635			
2023	106,761,862			
2024	103,702,931			
2025	100,222,697			
2026	96,285,474			
2027	91,986,950			
2032	64,861,432			
2037	19,575,635			
2042	2,255,413			
2044	0			

10- Year Growth in Covered Payroll

	<u>Payroll</u>	Growth
10/1/2012	\$ 26,210,490	
10/1/2022	33,532,013	2.49%



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. 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.

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

Year Ending 9/30	Net Gain (Loss)
2018	(1,069,446)
2019	(4,435,786)
2020	(4,029,561)
2021	5,878,819
2022	(5,370,296)

Actual and Assumed Rates of Return and Salary Increase

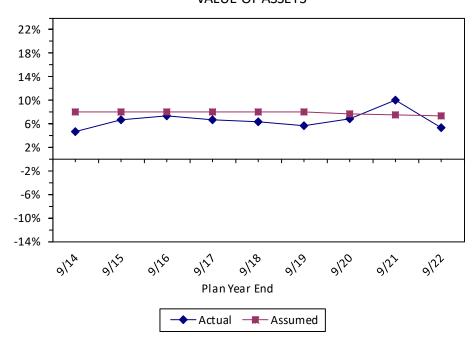
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

	Investment	Return	Salary In	creases
Year Ending	Actual	Assumed	Actual	Assumed
9/30/2014	4.6 %	8.0 %	4.2 %	6.4 %
9/30/2015	6.6	8.0	10.0	6.4
9/30/2016	7.3	8.0	4.2	6.6
9/30/2017	6.7	8.0	6.2	7.2
9/30/2018	6.4	8.0	4.2	6.9
9/30/2019	5.6	8.0	4.8	6.4
9/30/2020	6.9	7.6	6.7	6.4
9/30/2021	10.0	7.5	7.0	6.4
9/30/2022	5.4	7.4	5.4	6.5
Averages	6.6	N/A	5.8	N/A

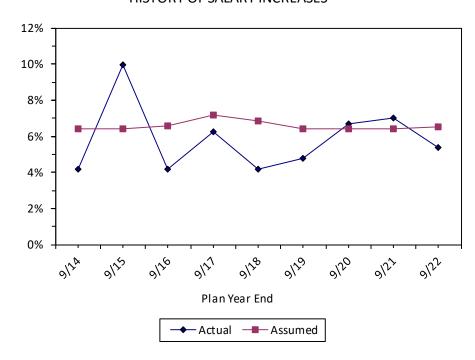


The actual investment return rates shown above are based on the actuarial value of assets. The actual salary increase rates shown above are the increases received by those active members who were included in the actuarial valuations both at the beginning and the end of each year.

HISTORY OF INVESTMENT RETURN BASED ON ACTUARIAL VALUE OF ASSETS



HISTORY OF SALARY INCREASES





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

		ded ring		ОР	Disal	•					nations		Active Members
Year	Ye	ar	Retire	ment	Retire	ment	De	ath	Vested	Other	10	tals	End of
Ended	Α	E	Α	E	Α	E	Α	E	Α	Α	Α	E	Year
9/30/2019	15	14	7	6	0	1	0	0	2	5	7	5	354
9/30/2020	21	26	22	8	2	1	0	0	2	0	2	5	349
9/30/2021	29	23	19	4	1	1	0	0	2	1	3	5	355
9/30/2022	44	32	27	5	0	1	0	0	4	1	5	5	367
9/30/2023				5		1		0				6	
4 Yr Totals *	109	95	75	23	3	4	0	0	10	7	17	20	

^{*} Totals are through current Plan Year only



Cumulative Actuarial Gains (Losses)

The Plan provides for a discretionary cost-of-living adjustment (COLA) using investment returns of the fund in excess of the assumed investment return if there is a cumulative net actuarial gain starting from the year ending September 30, 2006 (when this provision went into effect). The cumulative value of COLA's granted under this provision may not exceed the cumulative net actuarial gains since the year ending September 30, 2006. Since the cumulative total is negative (as shown below), no COLA may be paid under this provision at this time.

	Cumulative Actuarial Gains (Losses)									
Year Ending 9/30	Balance at Beginning of Year	Gain (Loss) for Year	Value of Cost of Living Adjustment	Balance at End of Year						
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	\$ - 2,118,259 1,173,330 (6,926,523) (13,795,569) (9,018,474) (26,638,270) (6,987,963) (27,526,109) (31,184,822)	\$ 2,118,259 (276,356) (8,099,853) (6,869,046) 4,777,095 (17,619,796) 19,650,307 (20,538,146) (3,658,713) (8,323,731)	\$ - (668,573) - - - - - - -	\$ 2,118,259 1,173,330 (6,926,523) (13,795,569) (9,018,474) (26,638,270) (6,987,963) (27,526,109) (31,184,822) (39,508,553)						
2016 2017 2018 2019 2020 2021 2022	(39,508,553) (40,426,337) (43,413,318) (44,482,764) (48,918,550) (52,948,111) (47,069,292)	(917,784) (2,986,981) (1,069,446) (4,435,786) (4,029,561) 5,878,819 (5,370,296)	- - - - -	(40,426,337) (43,413,318) (44,482,764) (48,918,550) (52,948,111) (47,069,292) (52,439,588)						



RECENT HISTORY OF VALUATION RESULTS

	Number of		Number of		Number of Actuarial		Unfunded		
Valuation	Active	Inactive	Valuation	Value of	Actuarial	Employer N	ormal Cost		
Date	Members	Members*	Payroll	Assets	Liability	Amount	% of Payroll		
							_		
10/1/2017	345	223	\$ 31,114,789	\$ 235,393,178	\$ 92,404,184	\$ 6,887,184	22.13 %		
10/1/2018	353	230	31,906,504	252,105,896	93,756,209	6,768,471	21.21		
10/1/2019	354	239	32,499,211	268,879,630	105,548,304	7,589,027	23.35		
10/1/2020	349	263	32,691,321	290,414,155	107,011,659	7,500,531	22.94		
10/1/2021	355	284	33,486,143	323,453,629	102,663,202	7,795,282	23.28		
40/4/2022	267	240	22 205 604	242 626 042	400 433 635	0.040.350	22.00		
10/1/2022	367	310	33,395,684	343,636,843	109,432,635	8,010,250	23.99		

^{*}Inactive counts have been adjusted to remove DROP members being counted as two different inactive records.

RECENT HISTORY OF UAAL AND FUNDED RATIO

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) - Entry Age (b)	Unfunded AAL (UAAL) - Entry Age (b) - (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL As % of Covered Payroll (b-a)/(c)
10/1/2017	\$ 235,393,178	\$ 327,797,362	\$ 92,404,184	71.8 %	\$ 31,241,424	295.8 %
10/1/2018	252,105,896	345,862,105	93,756,209	72.9	32,038,980	292.6
10/1/2019	268,879,630	374,427,934	105,548,304	71.8	32,834,609	321.5
10/1/2020	290,414,155	397,425,814	107,011,659	73.1	32,834,294	325.9
10/1/2021	323,453,629	426,116,831	102,663,202	75.9	33,486,143	306.6
10/1/2022	343,636,843	453,069,478	109,432,635	75.8	33,532,013	326.4



	RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS									
	End of Year To		Required Contributions							
	Which	Employer	& State	Estimated	State	Net Emp	oloyer	Act	tual Contribu	tions
	Valuation		% of		% of		% of			
Valuation	Applies	Amount	Payroll	Amount	Payroll	Amount	Payroll	Employer	State	Total
10/1/2017	9/30/2019	15,273,245	45.96	2,112,321	6.36	13,160,924	39.60	13,160,924	2,112,321	15,273,245
10/1/2018	9/30/2020	16,315,048	47.84	2,212,862	6.49	14,102,186	41.35	14,048,387	2,266,661	16,315,048
10/1/2019	9/30/2021	17,694,455	52.86	2,112,321	6.31	15,582,134	46.55	15,582,134	2,112,321	17,694,455
10/1/2020	9/30/2022	17,623,957	52.34	2,112,321	6.27	15,511,636	46.07	14,911,453	2,712,504	17,623,957
10/1/2021	9/30/2023	17,707,539	17,707,539 51.34 2,712,504 7.86 14,995,035 43.48							
10/1/2022	9/30/2024	18,818,902	54.71	2,112,321	6.14	16,706,581	48.57			



ACTUARIAL ASSUMPTIONS AND METHODS

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 were amortized as a level (principal & interest combined) percent of payroll over a prescribed period of future years. For bases created on and after October 1, 2016, the unfunded actuarial accrued liabilities are amortized as a level dollar amount over a prescribed period of future years. For the amortization of bases as a level percent of payroll, the actual payroll growth average over the last 10 years was 2.49%. This is compared to the assumed rate of 3.0%. Florida administrative code requires using the lesser of the two rates for purposes of amortizing unfunded liabilities as a level percent of pay, but not less than zero.

Actuarial Value of Assets - The Actuarial Value of Assets phase in the difference between the expected return on actuarial value and actual return on 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. The decrement assumptions were established following the Experience Study, prepared by Foster & Foster dated September 12, 2016.

Economic Assumptions

The investment return rate assumed in the valuation is 7.30% per year, compounded annually (net after investment expenses), previously 7.40%. This assumption will be lowered by 0.10% each year until 7.00% is reached.



The *Inflation Rate* assumed in this valuation is 2.50% per year. The Inflation Rate is defined to be the expected long-term rate of increases in the prices of goods and services.

The assumed *real rate of return* over inflation is defined to be the portion of total investment return that is more than the assumed inflation rate. Considering other economic assumptions, the 7.30% investment return rate translates to an assumed real rate of return over inflation of 4.80%.

The rate of salary increase for individual active members is shown in the table below. Salary increases are a combination of merit, seniority and productivity increases plus annual inflation of 2.50%. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

Years of	% Increase
Credited Service	in Salary
Less than 1	25.0%
1 - 3	10.0%
4 - 9	7.5%
10 - 14	6.0%
15 & over	5.5%

Demographic Assumptions

The mortality table is 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 the Special Risk Class members in the July 1, 2021 Actuarial Valuation of the Florida Retirement System (FRS).

FRS Healthy Post-Retirement Mortality for Special Risk Class Members

Sample	Probabili	ity of	Future	e Life
Attained	Dying Nex	ct Year	Expectan	cy (years)
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 year's benefit payments being made after retirement.



FRS Healthy Pre-Retirement Mortality for Special Risk Class Members

Sample	Probabil	ity of	Future	e Life
Attained	Dying Nex	kt Year	Expectan	cy (years)
Ages (in 2022)	Men	Women	Men	Women
50	0.16 %	0.10 %	35.74	39.66
55	0.25	0.16	30.66	34.51
60	0.42	0.22	25.70	29.44
65	0.69	0.30	20.93	24.42
70	1.17	0.54	16.40	19.51
75	2.06	1.06	12.16	14.81
80	6.24	4.12	8.24	10.41

This assumption is used to measure the probabilities of active members dying prior to retirement (85% of pre-retirement deaths are assumed to be service-connected).

For disabled retirees, the male mortality tables are 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Male Table and 20% of the Headcount Weighted Safety Disabled Retiree Male Table, and the female mortality tables are 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Female Table and 20% of the Headcount Weighted Safety Disabled Retiree Female Table, both with no provision being made for future mortality improvements. These are the same rates used for the Special Risk Class members in the July 1, 2021 Actuarial Valuation of the Florida Retirement System (FRS).

FRS Disabled Mortality for Special Risk Class Members

Sample Attained	Probabil Dying Ne	•	Future Expectane	
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 used to measure the probability of eligible members retiring during the next year were as follows:

For members eligible for retirement with less than 25 years of credited service:

	Probability
Age	of Retirement
55	30.0%
56	40.0%
57	50.0%
58 & over	100.0%



For members eligible for retirement with 25 or more years of credited service:

Years of	Probability
Credited Service	of Retirement
25	40.0%
26	40.0%
27	40.0%
28	40.0%
29	40.0%
30	40.0%
31 & over	100.0%

For those eligible for early retirement, 10% each year.

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 separating from employment for reasons other than death, disability or retirement.

Years of	% of Active Members
Credited Service	Separating Within Next Year
Less than 3	3.0%
3 - 9	2.0%
10 & over	1.0%

Rates of disability among active members (85% of disabilities are assumed to be service-connected).

	% Becoming Disabled
Age	Within Next Year
20	0.07%
25	0.09%
30	0.10%
35	0.14%
40	0.21%
45	0.32%
50	0.52%
55	0.92%
60	1.53%
65	1.65%



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 prior year's expenses. 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 halfway through 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 vested separations from service, it is assumed that 0% of

members separating will withdraw their contributions and forfeit an

employer financed benefit.

Incidence of Contributions Employer contributions are assumed to be made in full on January

1st (three months into the fiscal year). 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 10-year certain and life annuity is the normal form of benefit.

Pay Increase TimingBeginning 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.

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).



Actuarially Determined Contribution (ADC)

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

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 ARC 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 25 years, it is 24 years at the end of one year, 23 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 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. 67 sets accounting rules

for the public retirement systems.

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.





PENSION FUND INFORMATION

Statement of Plan Assets at Market Value

	September 30						
Item	2022	2021					
A. Receivables:							
1. Member Contributions in Transit	\$ 112,417	\$ 173,780					
2. From Broker for Investments Sold	115,715	192,247					
3. State Contributions	-	-					
4. Investment Income and Other Receivables	220,930	290,160					
5. Prepaid Expenses	<u> </u>						
6. Total Receivables	\$ 449,062	\$ 656,187					
B. Investments							
1. Short Term Investments	\$ 8,666,198	\$ 12,429,887					
2. Fixed Income	74,424,596	73,576,077					
3. Domestic Equities (Including Mutual Funds)	122,512,727	189,765,262					
4. International Equities (Mutual Funds)	25,256,075	17,406,639					
5. Real Estate	51,718,976	30,177,813					
6. Alternatives	33,912,155	32,835,775					
7. Total Investments	\$ 316,490,727	\$356,191,453					
C. Liabilities							
 Refunds Payable 	\$ (14,363)	\$ (14,363)					
2. Investment Expenses	(240,129)	(259,824)					
3. Accrued Expenses and Other Payables	(210,994)	(190,626)					
4. Prepaid Member Contribution	-	-					
5. Prepaid District Contribution	(1,124,563)	(524,380)					
6. Total Liabilities	\$ (1,590,049)	\$ (989,193)					
D. Total Market Value of Assets Available for Benefits	\$ 315,349,740	\$355,858,447					
E. Allocation of Investments							
1. Short Term Investments	2.7%	3.5%					
2. Fixed Income	23.5%	20.6%					
3. Domestic Equities (Including Mutual Funds)	38.7%	53.3%					
4. International Equities (Mutual Funds)	8.0%	4.9%					
5. Real Estate	16.4%	8.5%					
6. Alternatives	10.7%	9.2%					
7. Total Investments	100.0%	100.0%					



Reconciliation of Plan Assets

			September 30						
		Item	2022	2021					
A. M	larket	Value of Assets at Beginning of Year	\$ 355,858,447	\$286,199,944					
	a.	Adjustment to Match Financial Statements	-	-					
	b.	Adjusted Market Value of Assets	355,858,447	286,199,944					
B. Re	evenu	es and Expenditures							
1.	. Con	tributions							
	a.	Employee Contributions	\$ 2,386,674	\$ 2,270,932					
	b.	Employer Contributions	14,911,453	15,582,134					
	c.	State Contributions	2,712,504	2,612,886					
	d.	Purchased Service Credit	45,828	239,384					
	e.	Total	\$ 20,056,459	\$ 20,705,336					
2.	. Inve	estment Income							
	a.	Interest, Dividends, and Other Income	\$ 10,122,758	\$ 8,527,656					
	b.	Net Realized/Unrealized Gains/(Losses)	(50,444,513)	59,476,582					
	c.	Investment Expenses	(2,692,899)	(2,162,407)					
	d.	Net Investment Income	\$ (43,014,654)	\$ 65,841,831					
3.	. Ben	efits and Refunds							
	a.	Regular Monthly Benefits	\$ (15,475,005)	\$ (14,612,594)					
	b.	Refunds	-	-					
	c.	Lump Sum Benefits	-	-					
	d.	DROP Disbursements	(1,893,292)	(2,126,117)					
	e.	Total	\$ (17,368,297)	\$ (16,738,711)					
4.	. Adn	ninistrative and Miscellaneous Expenses	\$ (182,215)) \$ (149,953)					
5.	. Trar	nsfers	\$ -	\$ -					
C. M	larket '	Value of Assets at End of Year	\$315,349,740	\$355,858,447					



ACTUARIAL VALUE OF ASSETS

Valuation Date – September 30	2021	2022		2023	2024	2025		2026
A. Actuarial Value of Assets Beginning of Year	\$ 290,938,535	\$ 323,978,009	\$	-	\$ -	\$ -	\$	-
B. Market Value End of Year	356,382,827	316,474,303		-	-	-		-
C. Market Value Beginning of Year	286,724,324	356,382,827		-	-	-		-
D. Non-Investment/Administrative Net Cash Flow	3,816,672	3,106,130						
E. Investment Income								
E1. Actual Market Total: B-C-D	65,841,831	(43,014,654)		-	-	-		-
E2. Assumed Rate of Return	7.50%	7.40%		7.30%	7.20%	7.10%		7.00%
E3. Assumed Amount of Return	21,647,450	24,275,902		-	-	-		-
E4. Amount Subject to Phase-In: E1–E3	44,194,381	(67,290,556)		-	-	-		-
F. Phase-In Recognition of Investment Income								
F1. Current Year: 0.2 x E4	8,838,876	(13,458,111)		-	-	-		-
F2. First Prior Year	529,784	8,838,876	(13,458,111)	-	-		-
F3. Second Prior Year	(2,030,854)	529,784		8,838,876	(13,458,111)	-		-
F4. Third Prior Year	(478,328)	(2,030,854)		529,784	8,838,876	(13,458,111)		-
F5. Fourth Prior Year	715,874	(478,330)		(2,030,855)	529,784	8,838,877	(2	13,458,112)
F6. Total Phase-Ins	7,575,352	(6,598,635)		(6,120,306)	(4,089,451)	(4,619,234)	(2	L3,458,112)
G. Actuarial Value of Assets End of Year								
G1. Preliminary Actuarial Value of Assets:	\$ 323,978,009	\$ 344,761,406	\$	-	\$ -	\$ -	\$	-
G2. Upper Corridor Limit: 120%*B	427,659,392	379,769,164		-	-	-		-
G3. Lower Corridor Limit: 80%*B	285,106,262	253,179,442		-	-	-		-
G4. Funding Value End of Year	323,978,009	344,761,406		-	-	-		-
G5. Less: Prepaid Contributions	(524,380)	(1,124,563)		-	-	-		-
G6. Final Funding Value End of Year	323,453,629	343,636,843		-	-	-		-
H. Difference between Market & Actuarial Value	\$ 32,404,818	\$ (28,287,103)	\$	-	\$ -	\$ -	\$	-
I. Actuarial Rate of Return	10.0%	5.4%		0.0%	0.0%	0.0%		0.0%
J. Market Value Rate of Return	22.8%	-11.9%		0.0%	0.0%	0.0%		0.0%
K. Ratio of Actuarial Value to Market Value	90.91%	108.94%		0.0%	0.0%	0.0%		0.0%



Reconciliation of DROP Accounts

	Beginning					
Year Ended	of Year					Balance at
9/30	Balance	Credits	Interest	Distributions	Adjustment	End of Year
2018	30,577,010	2,899,046	2,421,518	(2,038,936)	-	33,858,637
2019	33,858,637	3,084,358	2,699,122	(1,713,864)	147	37,928,400
2020	37,928,400	3,366,099	2,991,037	(2,175,020)	(24,898)	42,085,618
2021	42,085,618	4,666,849	3,269,325	(1,938,901)	(219,881)	47,863,010
2022	47,863,010	4,956,613	3,503,763	(1,893,292)	-	54,430,094

Historical Investment Rates of Return

Year Ending September 30th	Actuarial Value Basis	Market Value Basis
2014	4.6 %	8.8 %
2015	6.6	(2.4)
2016	7.3	8.0
2017	6.7	9.6
2018	6.4	6.9
2019	5.6	3.9
2020	6.9	8.6
2021	10.0	22.8
2022	5.4	(11.9)
Average Returns:		
Last 5 Years	6.8 %	5.5 %
All Years	6.6 %	5.7 %

The above rates are based on the retirement systems 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 INFORMATION									
Α.	Valuation Date		October 1, 2022		October 1, 2021					
В.	Actuarial Present Value of Accumulated Plan Benefits									
	1. Vested Benefits									
	a. Members Currently Receiving Paymentsb. Terminated Vested Members	\$	308,133,581 5,088,186	\$	271,918,622 3,575,543					
	c. Other Members d. Total	-	76,165,729 389,387,496	_	86,945,271 362,439,436					
	2. Non-Vested Benefits		16,161,327		17,422,575					
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2		405,548,823		379,862,011					
	4. Accumulated Contributions of Active Members		8,598,646	7,750,695						
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits									
	1. Total Value at Beginning of Year		379,862,011		352,754,887					
	2. Increase (Decrease) During the Period Attributable to:									
	a. Plan Amendment		0		0					
	b. Change in Actuarial Assumptionsc. Latest Member Data, Benefits Accumulated		3,884,484		3,676,020					
	and Decrease in the Discount Period		39,170,625		40,169,815					
	d. Benefits Paid	-	(17,368,297)	-	(16,738,711)					
	e. Net Increase		25,686,812		27,107,124					
	3. Total Value at End of Period		405,548,823		379,862,011					
D.	Market Value of Assets		315,349,740		355,858,447					
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods									





MISCELLANEOUS INFORMATION

RECONCILIATION OF MEMBERSHIP DATA									
		From 10/1/21 To 10/1/22	From 10/1/20 To 10/1/21						
Α.	Active Members								
2. 3. 4. 5. 6. 7. 8. 9.	Number Included in Last Valuation New Members Included in Current Valuation Non-Vested Employment Terminations Vested Employment Terminations Service Retirements DROP Retirements Disability Retirements Deaths Rehires Other	355 43 (1) (4) 0 (27) 0 0 1	349 29 (1) (2) (2) (17) (1) 0						
	Number Included in This Valuation	367	355						
В.	Terminated Vested Members								
2. 3. 4. 5. 6.	Number Included in Last Valuation Additions from Active Members Lump Sum Payments/Refunds Payments Commenced Deaths Rehires Number Included in This Valuation	25 4 0 0 0 0 (1) 28	23 2 0 0 0 0 0 						
c.	DROP Participation								
2. 3. 4. 5.	Number Included in Last Valuation Additions from Active Members Payments Commenced Deaths Other Number Included in This Valuation	53 27 (6) 0 <u>0</u> 74	52 17 (15) (1) <u>0</u> 53						
D.	Service Retirees, Disability Retirees and Beneficiaries		<u> </u>						
2. 3. 4. 5. 6. 7. 8.	Number Included in Last Valuation Additions from Active Members Additions from Terminated Vested Members Additions from DROP Deaths Resulting in No Further Payments Deaths Resulting in New Survivor Benefits End of Certain Period - No Further Payments Other - Data Correction Number Included in This Valuation	206 0 0 6 (4) 0 0 0 208	188 3 0 15 (1) 1 (1) 1 206						



Schedule of Active Participant Data as of October 1, 2022

Age	,	Years of S		Earnings						
Group	0-1	1-4	5-9	10-14	15-19	20-24	25-29	Total	Total	Average
< 25	13	9	-	-	-	-	-	22	\$1,155,528	\$ 52,524
25-29	18	33	10	-	-	-	-	61	3,719,963	60,983
30-34	8	22	30	2	1	-	-	63	4,691,232	74,464
35-39	4	12	17	10	24	-	-	67	6,462,972	96,462
40-44	-	3	13	16	37	18	-	87	9,705,633	111,559
45-49	-	-	5	6	17	18	2	48	5,647,776	117,662
50-54	-	-	3	2	6	6	-	17	1,890,825	111,225
55-59	-	-	-	-	1	1	-	2	258,084	129,042
60-64	-	-	-	-	-	-	-	-	-	-
Total	43	79	78	36	86	43	2	367	33,532,013	91,368



Schedule of Inactive Benefits as of October 1, 2022

_	Terminated Vested		Disabled		Re	etired	Benef	iciaries	Grand Total		
•		Total		Total		Total		tal	Total		
<u>Age</u>	Number	Benefits	Number	Benefits	Number	<u>Benefits</u>	Number	Benefits	Number	<u>Benefits</u>	
Under 30	0	0	0	0	0	0	0	0	0	0	
30 - 34	2	32,565	0	0	0	0	0	0	2	32,565	
35 - 39	5	108,973	0	0	0	0	0	0	5	108,973	
40 - 44	8	286,900	3	200,603	0	0	0	0	11	487,503	
45 - 49	8	235,447	2	92,374	15	1,549,078	1	54,765	26	1,931,664	
50 - 54	5	81,444	2	165,846	60	5,686,660	0	0	67	5,933,950	
55 - 59	0	0	3	218,751	56	4,777,471	1	94,872	60	5,091,094	
60 - 64	0	0	1	88,790	41	3,808,611	4	240,191	46	4,137,592	
65 - 69	0	0	3	95,991	30	2,381,912	4	158,423	37	2,636,326	
70 - 74	0	0	3	111,024	20	1,458,661	1	6,906	24	1,576,591	
75 - 79	0	0	1	41,950	13	625,596	7	247,572	21	915,118	
80 - 84	0	0	0	0	4	168,144	2	62,847	6	230,991	
85 - 89	0	0	0	0	4	227,895	0	0	4	227,895	
90 & Over	0	0	0	0	0	0	1	4,356	1	4,356	
Total	28	745,329	18	1,015,329	243	20,684,028	21	869,932	310	23,314,618	
Average Ag	e:	44.3		58.5		60.9		71.4		60.0	
Avg. Annua		26,619		56,407		85,119		41,425		75,208	



SECTION **F**

SUMMARY OF PLAN PROVISIONS

SUMMARY OF PLAN PROVISIONS

A. Ordinances

The St. Lucie County Fire District Firefighters' Pension Trust Fund was most recently amended by Resolution 714-21. The Fund is also governed by certain provisions of Chapters 175 and 185, Florida Statutes, Part VII, Chapter 112, Florida Statutes (F.S.) and the Internal Revenue Code.

B. Plan Year

October 1 through September 30

C. Type of Plan

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

D. Eligibility Requirements

All full-time firefighters are eligible for membership on the date of employment.

E. Credited Service

Service is measured as the total number of years and fractional parts of years of service with the District as a firefighter. No service is credited for any periods of employment for which the member received a refund of employee contributions.

F. Compensation

Total salary or wages, including lump sum payments. For members who enter into the DROP with less than ten consecutive years of service, payments for accumulated sick leave, and vacation leave payments that exceed twice the annual accrual, are not included.

G. Final Average Salary (FAS)

For Firefighters eligible for Normal Retirement as of October 1, 2021 and for all Firefighters retiring or entering the DROP prior to October 1, 2021, Final Average Salary is the average of Compensation during the highest 4 years out of the last 10 years prior to retirement.

Effective October 1, 2021, for Firefighters not eligible for Normal Retirement as of that date, Final Average Salary is the average of Compensation during 5 highest years out of the last 10 years prior to retirement. The calculated benefit will be the greater of the accrued benefit using the 4-year Final Average Salary on September 30, 2021 or the 5-year Final Average Salary at the time of retirement.



H. Normal Retirement

Eligibility: Firefighters hired prior to October 1, 2014 may retire on the first day of the month

coincident with or next following the earliest of:

(1) age 55 with 5 years of Credited Service, or

(2) 25 years of Credited Service regardless of age.

Firefighters hired on or after October 1, 2014 may retire on the first day of the

month coincident with or next following the earliest of:

(1) age 55 with 10 years of Credited Service, or

(2) 25 years of Credited Service regardless of age.

Benefit: 3.00% of FAS multiplied by Credited Service.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

I. Early Retirement

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

attainment of age 50 with 5 years of Credited Service (10 years for those hired on

or after October 1, 2014).

Benefit: The Normal Retirement Benefit is reduced by 3.0% for each year by which the

Early Retirement date precedes the Normal Retirement date.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

J. Delayed Retirement

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

K. Service Connected Disability

Eligibility: Any member who becomes totally and permanently disabled and unable to

render useful and efficient service to the District as a result of an act occurring in the performance of service for the District is immediately eligible for a disability

benefit.

Benefit: Greater of the accrued benefit and 66 2/3% of FAS during the disability period.



Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

L. Non-Service Connected Disability

Eligibility: Any member with 5 or more years of Credited Service (10 years for those hired on

or after October 1, 2014) who becomes totally and permanently disabled and unable to render useful and efficient service to the District is immediately eligible

for a disability benefit.

Benefit: Accrued benefit.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

M. Death in the Line of Duty

Eligibility: Members who die as a direct result of the performance of the member's duties

are eligible for survivor benefits regardless of Credited Service.

Benefit: The survivor benefit payable to the designated beneficiary is the greater of the

accrued benefit and 75% of FAS.

Normal Form

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

COLA: None

N. Other Pre-Retirement Death

Eligibility: Any member who dies with 5 or more years of Credited Service (10 years for

those hired on or after October 1, 2014) is eligible for survivor benefits.

Benefit: Accrued benefit.

Normal Form

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

COLA: None

O. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.



P. Optional Forms

In lieu of electing the Normal Form of benefit, the optional forms of benefits available to all retirees are a Single Life Annuity or a 50%, 66 2/3%, 75% or 100% Joint and Survivor Annuity with Pop-Up options.

Q. Vested Termination

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

of 5 years of Credited Service (10 years of Credited Service for those hired on or

after October 1, 2014).

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

termination. Benefit begins on the member's earliest Normal Retirement date. Alternatively, members with 5 or more years of Credited Service (10 years of credited service for those hired on or after October 1, 2014) may elect to receive benefits any time after age 50. The benefit will be reduced for Early Retirement,

when applicable.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

R. Refunds

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

(10 years of Credited Service for those hired on or after October 1, 2014) are eligible. Optionally, vested members may elect a refund in lieu of the vested

benefits otherwise due.

Benefit: Refund of the member's accumulated contributions without interest.

S. Member Contributions

4% of Compensation prior to October 1, 2018. Effective October 1, 2018, 5% of Compensation (including members entering the DROP on and after October 1, 2018). Effective October 1, 2019, 6% of Compensation (including members entering the DROP on and after October 1, 2019).

T. State Contributions

Chapter 175 Premium Tax Refunds

U. Employer Contributions

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



V. Cost of Living Increases

Not Applicable

W. Supplemental Benefit

Eligibility: 5 years of Credited Service (10 years of credited service for those hired on or after

October 1, 2014).

Benefit: Age-based Pension Factor for each year of Credited Service, including years of

service while participating in the DROP. The Pension Factor ranges from \$12 at age 40, up to \$44 for ages 55 and older at the time benefits commence. For Plan members participating in the DROP, this benefit commences after DROP exit.

Normal Form

of Benefit: Single Life Annuity. Other options are also available.

COLA: None

X. Deferred Retirement Option Plan

Eligibility: Plan members are eligible for the DROP upon the attainment of Normal or Early

Retirement requirements.

Benefit: The member's Credited Service and FAS are frozen upon entry into the DROP.

The monthly retirement benefit as described under Normal and Early Retirement

is calculated based upon the frozen Credited Service and FAS.

Maximum

DROP Period: 6 years.

Interest

Credited: The member's DROP account is credited with interest based upon one of the

following options chosen by the member.

(1) the actual net investment return realized by the Fund each fiscal quarter, or

(2) actuarial rate of return provided for in the most recent actuarial valuation.

Members who enter the DROP subsequent to June 9, 2021 will earn an interest rate on their DROP accounts equal to 0.5% (50 basis points) below the assumed

rate of return.

Normal Form

of Benefit: Lump Sum or periodic payments after termination of employment. Members do

not have to withdraw balances until required to do so under IRC Section 401(a)(9).

COLA: None



Y. Other Ancillary Benefits

There are no ancillary retirement type benefits not required by statutes but which might be deemed a St. Lucie County Fire District Firefighters' Pension Trust Fund liability if continued beyond the availability of funding by the current funding source.

Z. Changes from Previous Valuation

None.

