City of Delray Beach Firefighters' Retirement System

ACTUARIAL VALUATION REPORT AS OF OCTOBER 1, 2022

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2024









May 11, 2023

Board of Trustees City of Delray Beach Firefighters' Retirement System Delray Beach, Florida

Re: City of Delray Beach Firefighters' Retirement System Actuarial Valuation as of October 1, 2022

Dear Board Members:

The results of the October 1, 2022 Annual Actuarial Valuation of the City of Delray Beach Firefighters' Retirement System are presented in this report.

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

The purposes of the valuation are to measure the System's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2024, and to determine the actuarial information for Governmental Accounting Standards Board (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 and other information through October 1, 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 reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

This report was prepared using certain assumptions approved by the Board as authorized under Florida Statutes and prescribed by the Florida Statutes as described in the section of this report entitled Actuarial Assumptions and Cost Method. The assumed mortality rates detailed in the Actuarial Assumptions and Cost Method section were prescribed by Chapter 112.63, Florida Statutes. All actuarial assumptions used in this report are reasonable for purposes of this valuation.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the City of Delray Beach Firefighters' Retirement System as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

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

The signing actuaries are independent of the plan sponsor.

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

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

Respectfully submitted,

GABRIEL, ROEDER, SMITH & COMPANY

Jeffrew/Amrose, MAAA

Enrolled Actuary No. 23-6599 Senior Consultant and Actuary Trisha Amrose, MAAA

Enrolled Actuary No. 23-8010

Consultant and Actuary



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DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

Comparison of Required Employer Contributions

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

	For FYE 9/30/2024 Based on 10/1/2022 Valuation		For FYE 9/30/2023 Based on 10/1/2021 Valuation		L	Increase (Decrease)		
Required Contribution As % of Contr. Year Payroll	\$	10,171,937 73.09	%	\$	9,928,412 72.20 %	6	\$	243,525 0.89 %
Estimated State Contribution As % of Contr. Year Payroll		1,206,994 8.67	%		1,206,994 * 8.78 %	6		0 (0.11) %
Net Employer Contribution** As % of Contr. Year Payroll		8,964,943 64.42	%		8,721,418 63.42 %	6		243,525 1.00 %

^{*} Updated from the prior year's valuation report to reflect the State contribution received for the fiscal year ending September 30, 2022.

Payment of Required Contribution

The contribution developed in this valuation has been calculated as though payments are made at the end of each biweekly pay period. If the full contribution for the fiscal year ending September 30, 2024 is paid on October 1, 2023, the net required employer contribution is \$8,636,502 or 62.06% of covered payroll.

Further, the required Employer contribution has been computed with the assumption that the amount to be received from the State in 2023 and 2024 will be equal to the amount received in 2022 of \$1,206,994. If the actual payment from the State falls below this amount, then the Employer must increase its contribution by the difference.

Actual contributions for the fiscal year ending September 30, 2022 were \$8,106,171 from the City (after excluding \$63,143 in additional prepaid City contributions) plus \$1,206,994 of annual State revenue, for a total of \$9,313,165. The total annual required contribution was \$9,313,165.

Revisions in Benefits

There were no revisions in benefits since the prior valuation.



^{**} Contribution may be offset by the \$169,393 prepaid City contribution.

Revisions in Actuarial Assumptions and Methods

There were no revisions in actuarial assumptions or methods since the prior valuation.

Actuarial Experience

There was a net actuarial loss of \$2,580,437 since the last valuation which means that actual experience was less favorable than expected. The loss was primarily due to a lower investment rate of return than expected. The recognized investment rate of return was 5.4% based on the actuarial value of assets, as compared to the assumed investment return of 6.625%. The investment return was -14.7% based on the market value of assets. Additionally, there were losses due to greater than expected retirements, lower than expected mortality among pensioners, and higher salary increases than expected.

A portion of these losses were offset by gains due to the lower than expected return in the COLA Reserve Account. The COLA Reserve Account is used to fund the extra 0.5% COLA and is part of Plan assets but is reserved to only provide extra COLA's. Since the investment return in this account was -14.7% compared to the 6.625% expected return, the balance of the COLA Reserve was less than expected, and therefore, the liability for this was lower than expected.

The net loss caused the required employer contribution to increase by 1.91% of covered payroll.

Funded Ratio

This year's funded ratio is 70.6% compared to 69.2% last year. The ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

Analysis of Change in Employer Contribution

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

Contribution Rate Last Year	63.42 %
Experience (Gains) or Losses	1.91
Revision in Assumptions/Methods	0.00
Amortization Payment on UAAL	(0.73)
Normal Cost Rate	(0.22)
Administrative Expense	(0.07)
Benefit Changes	0.00
Change in State Contribution Rate	0.11
Contribution Rate This Year	64.42 %

Variability of Future Contribution Rates

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



The Actuarial Value of Assets is greater than the Market Value of Assets by \$11,895,560 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 increase by approximately 8.72% of covered payroll.

Relationship to Market Value

If Market Value had been the basis for the valuation, the City contribution rate would have been 73.14% and the funded ratio would have been 64.6%. In the absence of other gains and losses or changes, the City contribution rate should increase to that level over the next several years.

Estimated Required City Contribution for FYE 2025

The estimated required employer contribution for FYE 2025 compared to the required employer contribution for FYE 2024 is as follows:

	Estimated Required Employer Contribution For FYE 9/30/2025		For FYE 9/30/2024 Based on 10/1/2022 Valuation		Increase (Decrease)	
Required Employer Contribution Date of Payment		Biweekly		Biweekly		
Dollar Amount	\$	9,350,000 1	\$	8,964,943	\$	385,057
As % of Covered Payroll		63.70 % ¹		64.42 %		(0.72) %

¹ Estimated Required Employer Contribution for FYE 2025 assuming no gains, losses, or assumption changes and a 5.55% increase in total covered payroll.

Conclusion

It is important to note that system assets are not sufficient to cover the liabilities for current retirees. As of October 1, 2022, the market value of assets is \$127.4 million, and the liability for current pensioners is \$131.5 million.

Steps have been taken to address this issue, such as strengthening the actuarial assumptions and methods, including lowering the investment return assumption and shortening the amortization period. These steps are resulting in higher contributions in the short-term for the City, which will serve to improve the funded position of the Plan over time.

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



RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION

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

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

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

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

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

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



PLAN MATURITY MEASURES

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

	<u> 2022</u>	<u> 2021</u>
Ratio of the market value of assets to total payroll*	8.9	10.4
Ratio of the actuarial accrued liability to payroll*	14.2	13.6
Ratio of actives to retirees and beneficiares	0.9	1.0
Ratio of net cash flow to market value of assets	0.8%	0.6%

^{*} Net of the COLA reserve

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							
Base Amount Previous Plan Year	\$	1,201,496					
2. Amount Received for Previous Plan Year		1,322,142					
3. Benefit Improvements (COLA Account)		115,148					
4. Excess Funds for Previous Plan Year		0					
5. Accumulated Excess at Beginning of Previous Year		0					
6. Prior Excess Used in Previous Plan Year		0					
7. Accumulated Excess as of Valuation Date (Available for Benefit Improvements): (4) + (5) - (6)		0 *					
8. Base Amount This Plan Year	\$	1,206,994					

^{*} Not including the COLA Account, which is shown on the following page.

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

Under the mutual agreement between the City and the Union, the City may use up to \$1,206,994 to offset the required contribution. Any excess Chapter 175 revenue above this amount will be applied to the COLA Account. Please see the following page for the development of the COLA Account.



COLA ACCOUNT

ANALYSIS OF EXCESS STATE CONTRIBUTIONS

A. COLA Account at Beginning of Year	October 1, 2022 \$12,465,259	October 1, 2021 \$10,478,588
B. Investment Return	-14.71%	24.21%
C. Investment Earnings	-1,833,640	2,536,866
D. Chapter 175 Regular Revenue	1,322,142	1,201,496
E. Chapter 175 Supplemental Revenue	0	0
F. Total Chapter 175 Revenue	1,322,142	1,201,496
G. Chapter Revenue in Excess of \$1,206,994	115,148	0
H. Benefit Enhancement Percentage	0.50%	0.50%
I. Total Present Value of Benefit Enhancement	564,265	550,195
J. COLA Account at End of Year (A. + C. + G I.)	\$10,182,502	\$12,465,259



SECTION B

VALUATION RESULTS

PARTICIPANT DATA						
	October 1, 2022		Oc	tober 1, 2021		
ACTIVE MEMBERS						
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$	131 13,185,223 100,651 37.5 10.1 27.4	\$	141 13,028,198 92,399 36.6 9.1 27.5		
RETIREES, BENEFICIARIES & DROP	,					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	145 9,869,575 68,066 62.3	\$	141 9,383,905 66,553 61.9		
DISABILITY RETIREES	<u> </u>		·			
Number Annual Benefits Average Annual Benefit Average Age	\$	4 141,356 35,339 65.4	\$	4 140,121 35,030 64.4		
TERMINATED VESTED MEMBERS (EXC	LUDIN	G NON-VESTED	REFUNI	OS PAYABLE)		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	1 28,716 28,716 37.6	\$	1 28,716 28,716 36.6		



ACTUARIALLY DETERMINED CONTRIBUTION (ADC)							
A. Valuation Date	October 1, 2022	October 1, 2021					
B. ADC to Be Paid During Fiscal Year Ending	9/30/2024	9/30/2023					
C. Assumed Dates of Employer Contributions	Biweekly	Biweekly					
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 6,524,502	\$ 6,300,222					
E. Employer Normal Cost	2,801,192	2,803,000					
F. ADC if Paid on the Valuation Date: D+E	9,325,694	9,103,222					
G. ADC Adjusted for Frequency of Payments	9,636,613	9,406,723					
H. ADC as % of Covered Payroll	73.09 %	72.20 %					
Assumed Rate of Increase in Covered Payroll to Contribution Year	5.55 %	5.55 %					
J. Covered Payroll for Contribution Year	13,917,003	13,751,263					
K. ADC for Contribution Year: H x J	10,171,937	9,928,412					
L. Estimated Credit for State Revenue in Contribution Year	1,206,994	1,206,994					
M. Required Employer Contribution (REC) in Contribution Year	8,964,943	8,721,418					
N. REC as % of Covered Payroll in Contribution Year: M/J	64.42 %	63.42 %					



	ACTUARIAL VALUE OF BENEFITS AND ASSETS						
Α.	Valu	uation Date	October 1, 2022	October 1, 2021			
В.		uarial Present Value of All Projected efits for Active Members a. Service Retirement Benefits b. Vesting Benefits c. Disability Benefits d. Preretirement Death Benefits e. Return of Member Contributions f. Total	\$ 86,164,698 3,398,106 2,330,883 1,035,033 426,020 93,354,740	\$ 83,017,291 3,486,356 2,401,112 1,113,937 558,320 90,577,016			
	2.	Inactive Members a. Service Retirees & Beneficiaries b. Disability Retirees c. Terminated Vested Members* d. COLA Account e. Total	129,976,980 1,477,082 154,982 10,182,502 141,791,546	124,651,586 1,492,031 122,335 12,465,259 138,731,211			
C.		Total for All Members uarial Accrued (Past Service) ility under Entry Age Normal	235,146,286 197,253,212	229,308,227 189,548,724			
D.	Actu	uarial Value of Accumulated Plan efits per FASB No. 35	173,321,161	165,067,596			
	1. 2.	n Assets Market Value Actuarial Value unded Actuarial Accrued Liability	127,367,362 139,262,922 57,990,290	148,204,634 131,140,532 58,408,192			
	Actu	uarial Present Value of Projected ered Payroll	131,051,144	137,570,846			
Н.		uarial Present Value of Projected mber Contributions	11,875,926	12,414,374			
I.		umulated Contributions of Active mbers	8,195,642	7,738,812			

^{*} Terminated Vested liability includes refunds payable for terminated non-vested members.



CALCULATION OF EMPLOYER NORMAL COST							
A. Valuation Date	October 1, 2022	October 1, 2021					
B. Normal Cost for							
Service Retirement Benefits	\$ 3,408,954	\$ 3,369,361					
Vesting Benefits	224,044	220,887					
3. Disability Benefits	163,351	161,704					
4. Preretirement Death Benefits	80,134	84,754					
5. Return of Member Contributions	85,067	83,936					
6. Total for Future Benefits	3,961,550	3,920,642					
7. Assumed Amount for Administrative							
Expenses	134,090	141,002					
8. Total Normal Cost	4,095,640	4,061,644					
C. Expected Member Contribution	1,294,448	1,258,644					
D. Employer Normal Cost: B8-C	2,801,192	2,803,000					
E. Employer Normal Cost as a % of Covered Payroll	21.24%	21.52%					



A. UAAL AMORTIZATION PERIOD AND PAYMENTS							
Original UAAL			Current UAAL				
Date Established	Base Established	Amortization Period (Years)	Years Remaining	Amount	Amortization Payment		
10/1/2015	Initial Unfunded Liability	18	11	\$ 31,673,607	\$ 3,887,780		
10/1/2015	Benefit Change	20	13	(956,630)	(105,079)		
10/1/2016	Assumption Change	20	14	3,514,224	368,436		
10/1/2016	Actuarial Loss	20	14	6,067,395	636,114		
10/1/2017	Actuarial Gain	20	15	(1,441,376)	(144,926)		
10/1/2017	Assumption Change	20	15	10,617,500	1,067,560		
10/1/2017	Method Change	20	15	(10,749)	(1,081)		
10/1/2018	Actuarial Loss	20	16	1,373,873	133,029		
10/1/2018	Assumption Change	20	16	4,107,885	397,757		
10/1/2019	Actuarial Loss	20	17	296,991	27,793		
10/1/2019	Benefit Change	20	17	5,792	542		
10/1/2019	Assumption Change	20	17	(572,154)	(53,543)		
10/1/2020	Actuarial Loss	19	17	410,364	38,402		
10/1/2020	Benefit Change	19	17	(1,260,958)	(118,002)		
10/1/2020	Assumption Change	19	17	2,310,483	216,217		
10/1/2021	Actuarial Gain	18	17	(726,394)	(67,977)		
10/1/2022	Actuarial Loss	17	17	2,580,437	241,480		
				\$ 57,990,290	\$ 6,524,502		

The amortization period for new UAAL bases is being lowered by 1 year each year until reaching a 15-year amortization period.

B. Amortization Schedule

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

Amortization Schedule					
Year	Expected UAAL				
2022	\$ 57,990,290				
2023	54,875,400				
2024	51,554,145				
2025	48,012,857				
2026	44,236,959				
2027	40,210,907				
2032	15,708,317				
2037	1,082,907				
2039	-				



ACTUARIAL GAINS AND LOSSES

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

Last Year's UAAL	58,408,192
2. Last Year's Employer Normal Cost	2,803,000
 3. Last Year's Contributions a. Employer Contribution b. State Contribution Used to Offset Required Contribution c. Total Contributions 	8,106,171 1,206,994 9,313,165
4. Interest at the Assumed Rate on:a. 1 and 2 for one yearb. 3 from dates paidc. a - b	4,055,241 543,415 3,511,826
 This Year's Expected UAAL Prior to Revision: 1+2-3c+4c 	55,409,853
Change in UAAL Due to Plan Amendments and/or Changes in Actuarial Assumptions and Methods	0
 This Year's Expected UAAL (after changes): 5+6 	55,409,853
8. This Year's Actual UAAL (after changes)	57,990,290
9. Net Actuarial Gain/(Loss): 7 - 8	(2,580,437)
10. Gain/(Loss) Due to Investment	(1,880,312)
11. Gain/(Loss) Due to Other Sources	(700,125)



Net actuarial gains/(losses) since October 1, 2016 have been as follows:

	Actuarial Gain /
Year Ending	(Loss)
9/16	\$ (6,763,388)
9/17	1,589,255
9/18	(1,495,646)
9/19	(318,669)
9/20	(433,176)
9/21	750,914
9/22	(2,580,437)



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

	Investment	Return	Salary Increases		
Year Ending	Actual*	Assumed	Actual**	Assumed	
9/30/2014	9.4 %	8.0 %	0.8 %	5.7 %	
9/30/2015	8.8	8.0	9.8	5.6	
9/30/2016	7.1	8.0	28.1	5.6	
9/30/2017	7.1 ***	8.0	(4.5)	5.3	
9/30/2018	8.1	7.25	10.7	5.5	
9/30/2019	7.3	7.00	8.1	5.6	
9/30/2020	7.6	6.75	7.1	6.6	
9/30/2021	11.0	6.625	4.7	6.7	
9/30/2022	5.4	6.625	9.0	6.6	
Average	8.0 %		7.9 %		

^{*} Prior to 9/30/2017, the investment return was based on the combined Police and Fire Retirement System.

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 period.



^{**} Prior to 9/30/2016, the salary increase was based on the combined Police and Fire Retirement System.

^{***} Before reflecting fresh start of assets as of 10/1/2016 and new asset smoothing method.

Number Added To and Removed from Active Participation

Actual (A) Versus Expected (E) Decrements

Year	Add Dui		& D	vice ROP ement	Disab Retire	- 1	Die Serv		T Vested	erminat Other	ions Tota	ıls	Active Members End of
Ended	Α	E	Α	E	Α	E	Α	E	Α	Α	Α	E	Year
9/30/2017	25	4	2	4	0	0	0	0	0	2	2	3	133
9/30/2018	14	8	5	2	0	0	0	0	0	3	3	4	139
9/30/2019	13	11	7	4	0	0	0	0	1	3	4	5	141
9/30/2020	14	6	1	1	0	0	0	0	0	5	5	5	149
9/30/2021	0	8	6	2	0	0	0	0	0	2	2	5	141
9/30/2022 9/30/2023	0	10	5	1 4	0	0 0	0	0 0	0	5	5	5 4	131



	RECENT HISTORY OF VALUATION RESULTS								
	Numl	ber of		Actuarial		Unfunded		Employer N	lormal Cost
Valuation	Active	Inactive	Covered	Value of	Accrued	Accrued	Funded		
Date	Members	Members	Annual Payroll	Assets	Liability	Liability	Ratio	Amount	% of Payroll
10/1/2015	110	116	\$8,019,724	\$83,276,890	\$121,406,576	\$38,129,686	68.6 %	\$1,366,029	17.03 %
10/1/2016	112	127	9,536,432	89,529,663	136,953,691	47,424,028	65.4	1,563,454	16.39
10/1/2017	133	128	9,960,429	93,945,622	151,453,131	57,507,509	62.0	1,990,286	19.98
10/1/2018	139	134	11,150,507	101,123,590	164,163,274	63,039,684	61.6	2,282,165	20.47
10/1/2019	141	140	11,851,375	108,512,188	170,306,017	61,793,829	63.7	2,701,414	22.79
10/1/2020	149	140	13,306,383	117,411,937	178,848,501	61,436,564	65.6	2,905,838	21.84
10/1/2021	141	146	13,028,198	131,140,532	189,548,724	58,408,192	69.2	2,803,000	21.51
10/1/2022	131	150	13,185,223	139,262,922	197,253,212	57,990,290	70.6	2,801,192	21.24

Results before October 1, 2017 were determined by the Retirement System's prior actuary.



RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS

	End of		Required Contributions							
	Year To Which	Employer	& State	State Estimated State		Net Employer		Actual Contributions		
Valuation Date	Valuation	Amount	% of Payroll	Amount	% of Payroll	Amount	% of Payroll	Employer	State	Total
10/1/2015	9/30/2017	\$5,332,347	62.99 %	\$1,193,140	14.09 %	\$4,139,207	48.90 %	\$4,197,643	\$1,134,704	\$5,332,347
10/1/2016	9/30/2018	6,538,017	64.95	1,134,704	11.27	5,403,313	53.68	5,463,192	1,074,825	6,538,017
10/1/2017	9/30/2019	7,582,571	72.12	1,074,825	10.22	6,507,746	61.90	6,452,812	1,129,759	7,582,571
10/1/2018	9/30/2020	8,451,577	71.81	1,129,759	9.60	7,321,818	62.21	7,342,239	1,109,338	8,451,577
10/1/2019	9/30/2021	8,927,763	71.37	1,109,338	8.87	7,818,425	62.50	7,726,267	1,201,496	8,927,763
10/1/2020	9/30/2022	9,313,165	66.31	1,201,496	8.55	8,111,669	57.76	8,106,171	1,206,994	9,313,165
10/1/2021	9/30/2023	9,928,412	72.20	1,206,994	8.78	8,721,418	63.42			
10/1/2022	9/30/2024	10,171,937	73.09	1,206,994	8.67	8,964,943	64.42			

Results before October 1, 2017 were determined by the Retirement System's prior actuary.



ACTUARIAL ASSUMPTIONS AND COST METHOD

Valuation Methods

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

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

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

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

Actuarial Value of Assets – The Actuarial Value of Assets 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. Both the economic and decrement assumptions were established following an Experience Investigation for the seven years ended September 30, 2019. For detailed information, refer to the Experience Investigation for the 7 Years Ended September 30, 2019, dated May 20, 2020. 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 valuation is 6.625% 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 expected long-term rate of increases in the prices of goods and services.



The assumed **real rate of return** over inflation is defined to be the portion of total investment return that is more than the assumed inflation rate. Considering other economic assumptions, the 6.625% investment return rate translates to an assumed real rate of return over inflation of 4.125%.

The rates of salary increase used are based on the member's service and are shown in the table below. This assumption is used to project a member's current salary to the salaries upon which benefits will be based. Part of the assumption for each age is for merit and/or seniority increase, and the other 2.5% recognizes wage inflation, including price inflation, productivity increases, and other macroeconomic forces.

	%	Increase in Sala	ry
Years of	Merit and	Base	Total
Service	Seniority	(Economic)	Increase
0 - 4	5.75%	2.5%	8.25%
5 - 9	5.25%	2.5%	7.75%
10 - 14	3.25%	2.5%	5.75%
15 - 19	2.50%	2.5%	5.00%
20+	2.00%	2.5%	4.50%

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, 2022 Actuarial Valuation of the Florida Retirement System (FRS).

FRS Healthy Post-Retirement Mortality for Special Risk Class Members

Sample	Probability of		Future	e Life
Attained	Dying Nex	t Year	Expectan	cy (years)
Ages (in 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.



FRS Healthy Pre-Retirement Mortality for Special Risk Class Members

Sample Attained	Probabili Dying Nex	•	Future Life Expectancy (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 preretirement 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% 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, 2022 Actuarial Valuation of the Florida Retirement System (FRS).

FRS Disabled Mortality for Special Risk Class Members

Sample	Probability of		Future	e Life
Attained	Dying Nex	ct Year	Expectan	cy (years)
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:

Normal Retirement for Members Hired

Refore October 4, 2016

	Before Oct	tober 4, 2016			
Sample	Years of	Probability of			
Ages	Service	Normal Retirement			
55+	10 - 19	20.0%			
All	20	25.0%			
	21	17.5%			
	22	17.5%			
	23	25.0%			
	24	40.0%			
	25	40.0%			
	26	40.0%			
	27	40.0%			
	28	40.0%			
	29	40.0%			
	30	100.0%			

Normal Retirement for Members Hired

After October 4, 2016

After October 4, 2016			
Sample	Years of	Probability of	
Ages	Service	Normal Retirement	
55+	10 - 24	20%	
All	25	70%	
	26	40%	
	27	40%	
	28	40%	
	29	40%	
	30	100%	

No early retirement rates were assumed.

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.

Years of	Sample	% of Active Members
Service	Ages	Separating Within Next Year
0 - 1	All Ages	6.50 %
2 - 3		5.50
4 - 5		5.00
6 - 7		3.75
8 - 9		3.50
10+	0 - 34	1.50
	35 - 39	1.50
	40 - 44	1.00
	45+	1.00



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

	Sample	% Becoming Disabled
_	Ages	Within Next Year
	20	0.07 %
	25	0.08
	30	0.09
	35	0.12
	40	0.15
	45	0.26
	50	0.50
	55	0.78



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

Service calculated based on completed months is used to determine the amount of benefit payable.

Cost of Living Adjustment

Cost of living increases of 1.00% apply for those retiring after October 1, 1993, commencing on the 25th anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after October 4, 2016, the adjustment shall not commence until one year after separating from employment. The assumed COLA start date for future retirees is one additional year after the 25th anniversary of the retiree's hire date since the COLA for DROP retirees does not apply until the member separates from employment for benefits accrued after October 4, 2016.

Decrement Operation

Disability and mortality decrements operate during retirement eligibility.

Decrement Timing

Decrements of all types are assumed to occur at the beginning of the year.

Eligibility Testing

Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

Forfeitures

For vested separations from service, it is assumed that 0% of members separating will withdraw their contributions and forfeit an employer financed benefit. It was further assumed that the liability at termination is the greater of the vested deferred benefit (if any) or the member's accumulated contributions.

Incidence of Contributions

Employer contributions are assumed to be made at the end of each biweekly pay period. Member contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.

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 For married participants, a monthly income payable for life of the

member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. For members who were not eligible for normal retirement on October 4, 2016, the normal form for the benefit based on service

after October 4, 2016 is a 10-Year Certain and Life annuity.

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.

Projected Member Contributions for Future DROP Members All future projected normal retirements are assumed to participate in

the DROP for seven years.

Service Credit Accruals It is assumed that members accrue one year of service credit per year.



GLOSSARY

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions

Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.

Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.

Actuarial Equivalent

Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value (APV)

The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.

Actuarial Present Value of Future Benefits (APVFB)

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67, such as the Funded Ratio and the Actuarially Determined Contribution (ADC).

Actuarial Value of Assets

The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the Actuarially Determined Contribution (ADC).



Amortization Method

A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.

Amortization Payment

That portion of the plan contribution or ADC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period

The period used in calculating the Amortization Payment.

Actuarially Determined Contribution (ADC)

The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB No. 67. The ADC consists of the Employer Normal Cost and Amortization Payment.

Closed Amortization Period

A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.

Employer Normal Cost

The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.

Equivalent Single
Amortization Period

For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.

Experience Gain/Loss

A measure of the difference between the normal cost rate from last year and the normal cost rate from this year.

Funded Ratio

The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.

GASB

Governmental Accounting Standards Board.

GASB No. 67 and GASB No. 68

These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67 sets the rules for the systems themselves.



Normal Cost The annual cost assigned, under the Actuarial Cost Method, to the

current plan year.

Open Amortization Period An open amortization period is one which is used to determine the

Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to

covered payroll.

Unfunded Actuarial Accrued

Liability

The difference between the Actuarial Accrued Liability and Actuarial

Value of Assets.

Valuation Date The date as of which the Actuarial Present Value of Future Benefits are

determined. The benefits expected to be paid in the future are

discounted to this date.





PENSION FUND INFORMATION

Statement of Plan Assets at Market Value

September 30

		Septen	iibei st	,
Item			2021	
A. Cash and Cash Equivalents (Operating Cash)	\$	50,801	\$	24,657
B. Receivables				
1. Member Contributions	\$	-	\$	55,668
2. Interest and Dividends		40,150		24,236
3. Due from Broker		-		281,730
4. Prepaid Expenses and Other		-		-
5. State Contribution		-		-
6. Total Receivables	\$	40,150	\$	361,634
C. Investments				
1. Short Term Investments	\$ 1	1,263,000	\$	3,388,593
2. Domestic Equities	6	2,075,856		82,171,572
3. International Equities	2	1,522,143		27,436,864
4. Domestic Fixed Income	1	6,398,786		25,662,220
5. International Fixed Income		-		-
6. Real Estate	1	4,019,643		9,198,988
7. Other		2,449,952		896,564
8. Total Investments	\$ 12	7,729,380	\$1	48,754,801
D. Liabilities				
1. Prepaid City Contribution	\$	(169,393)	\$	(106,250)
2. Accounts Payable		(76,026)		(114,824)
3. Due to Broker		(207,550)		(715,384)
4. Due to Police Officers Retirement System				-
5. Total Liabilities	\$	(452,969)	\$	(936,458)
E. Total Market Value of Assets Available for Benefits	\$ 12	7,367,362	\$1	48,204,634
F. Allocation of Investments				
 Short Term Investments 		8.8%		2.3%
2. Domestic Equities		48.7%		55.2%
3. International Equities		16.8%		18.4%
4. Domestic Fixed Income		12.8%		17.3%
5. International Fixed Income		0.0%		0.0%
6. Real Estate		11.0%		6.2%
7. Other		1.9%		0.6%
8. Total Investments		100.0%		100.0%

Note: The asset amounts do not include DROP account balances.



Reconciliation of Plan Assets

September 30

		ocpto	
	Item	2022	2021
Α.	Market Value of Assets at Beginning of Year	\$ 148,204,634	\$ 118,579,565
В.	Revenues and Expenditures		
	1. Contributions		
	a. Member Contributions	\$ 1,489,819	\$ 1,242,141
	b. Employer Contributions	8,106,171	7,726,267
	c. State Contributions	1,322,142	1,201,496
	d. Total	\$ 10,918,132	\$ 10,169,904
	2. Investment Income		
	a. Interest, Dividends, and Other Income	\$ 4,140,436	\$ 2,354,642
	b. Net Realized/Unrealized Gains/(Losses)*	(25,408,240)	27,101,398
	c. Investment Expenses	(614,574)	(652,044)
	d. Net Investment Income	\$ (21,882,378)	\$ 28,803,996
	3. Benefits and Refunds		
	a. Regular Monthly Benefits	\$ (9,711,849)	\$ (9,184,788)
	b. Refunds	(27,087)	(23,041)
	c. Lump Sum Benefits Paid		
	d. Total	\$ (9,738,936)	\$ (9,207,829)
	4. Administrative and Miscellaneous Expenses	\$ (134,090)	\$ (141,002)
C.	Market Value of Assets at End of Year	\$ 127,367,362	\$ 148,204,634

^{*} The breakdown between realized and unrealized gain/losses was not provided.

Note: The asset amounts do not include DROP account balances.



Reconciliation of DROP Accounts

Year Ended 9/30	Balance at Beginning of Year	Credits	Interest	Distributions	Balance at End of Year
2017	\$ 10,488,353	\$ 1,541,096	\$ 741,658	\$ (1,680,260)	\$ 11,090,847
2018	11,090,847	1,278,933	762,812	(1,716,794)	11,415,798
2019	11,415,798	1,447,552	227,146	(1,508,044)	11,582,452
2020	11,582,452	1,511,119	626,891	(1,306,110)	12,414,352
2021	12,414,352	1,655,695	1,419,776	(543,446)	14,946,377
2022	14,946,377	1,912,018	(1,509,365)	(1,769,511)	13,579,519



ACTUARIAL VALUE OF ASSETS

	Valuation Date – September 30	2021	2022	2023	2024	2025	2026
A.	Actuarial Value of Assets Beginning of Year	\$ 117,411,937	\$ 131,140,532				
В.	Market Value End of Year	148,204,634	127,367,362				
C.	Market Value Beginning of Year	118,579,565	148,204,634				
D.	Non-Investment/Administrative Net Cash Flow	821,073	1,045,106				
E.	Investment Income						
	E1. Actual Market Total: B-C-D	28,803,996	(21,882,378)				
	E2. Assumed Rate of Return	6.625%	6.625%	6.625%	6.625%	6.625%	6.625%
	E3. Assumed Amount of Return	8,028,224	8,957,596				
	E4. Amount Subject to Phase-In: E1–E3	20,775,772	(30,839,974)				
F.	Phased-In Recognition of Investment Income						
	F1. Current Year: 0.2 x E4	4,155,154	(6,167,995)				
	F2. First Prior Year	387,123	4,155,154	(6,167,995)			
	F3. Second Prior Year	(463,290)	387,123	4,155,154	(6,167,995)		
	F4. Third Prior Year	208,694	(463,290)	387,123	4,155,154	(6,167,995)	
	F5. Fourth Prior Year	591,617	208,696	(463,288)	387,121	4,155,155	(6,167,994)
	F6. Total Phase-Ins	4,879,298	(1,880,312)	(2,089,006)	(1,625,720)	(2,012,840)	(6,167,994)
G.	Actuarial Value of Assets End of Year						
	G1. Preliminary Actuarial Value of Assets End of Year:						
	A+D+E3+F6	131,140,532	139,262,922				
	G2. Upper Corridor Limit: 120%*B	177,845,561	152,840,834				
	G3. Lower Corridor Limit: 80%*B	118,563,707	101,893,890				
	G4. Actuarial Value of Assets End of Year	131,140,532	139,262,922				
Н.	Difference between Market & Actuarial Value of Assets	17,064,102	(11,895,560)				
I.	Actuarial Rate of Return	11.0%	5.4%				
J.	Market Value Rate of Return	24.2%	-14.7%				
K.	Ratio of Actuarial Value of Assets to Market Value	88.5%	109.3%				



Year Ending	Investment R	ate of Return*
September 30th	Market Value	Actuarial Value
2014	10.0 %	9.4 %
2015	(1.2)	8.8
2016	8.9	7.1
2017	11.4	7.1 **
2018	8.2	8.1
2019	4.6	7.3
2020	8.7	7.6
2021	24.2	11.0
2022	(14.7)	5.4
Average Returns:		
Lasts 5 Years	5.4 %	7.9 %
All Years	6.2 %	8.0 %

^{*} Prior to 9/30/2017, the investment return was based on the combined Police and Firefighter Retirement System.

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



^{**} Before reflecting fresh start of assets as of 10/1/2016 and new asset smoothing method.



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 Membersc. Other Membersd. Total	\$ 131,454,062 154,982 38,726,458 170,335,502	\$ 126,143,617 122,335 35,985,581 162,251,533						
	2. Non-Vested Benefits	2,985,659	2,816,063						
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	173,321,161	165,067,596						
	4. Accumulated Contributions of Active Members	8,195,642	7,738,812						
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits								
	1. Total Value at Beginning of Year	165,067,596	156,159,515						
	2. Increase (Decrease) During the Period Attributable to:								
	a. Plan Amendment	0	0						
	b. Change in Actuarial Assumptions	0	0						
	c. Latest Member Data, Benefits Accumulated		_						
	and Decrease in the Discount Period	17,992,501	18,115,910						
	d. Benefits Paid	(9,738,936)	(9,207,829)						
	e. Net Increase	8,253,565	8,908,081						
	3. Total Value at End of Period	173,321,161	165,067,596						
D.	Market Value of Assets (Net of COLA Reserve)	117,184,860	135,739,375						
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
Total Pension Liability						
Service Cost	\$ 3,920,642	\$ 3,992,364	\$ 3,280,458	\$ 2,996,276	\$ 2,325,806	\$ 2,278,992
Interest	13,182,831	12,761,659	12,697,183	12,125,368	12,106,606	11,308,126
Benefit Changes	-	(1,504,875)	19,307	-	-	-
Difference between actual & expected experience	4,938,237	1,108,003	89,257	2,766,907	(2,577,793)	4,638,688
Assumption Changes	-	2,485,078	(772,154)	4,551,070	11,883,072	-
Benefit Payments	(9,569,342)	(8,072,538)	(8,584,372)	(8,543,520)	(8,424,033)	(8,142,089)
Refunds	(27,087)	(23,041)	(25,385)	(10,566)	(10,449)	(6,673)
Net Change in Total Pension Liability	12,445,281	10,746,650	6,704,294	13,885,535	15,303,209	10,077,044
Total Pension Liability - Beginning	199,863,695	189,117,045	182,412,751	168,527,216	153,224,007	143,146,963
Total Pension Liability - Ending (a)	\$ 212,308,976	\$ 199,863,695	\$ 189,117,045	\$ 182,412,751	\$ 168,527,216	\$ 153,224,007
Plan Fiduciary Net Position						
Contributions - Employer	\$ 8,169,314	\$ 7,798,004	\$ 6,941,701	\$ 6,452,812	\$ 4,374,387	\$ 5,721,499
Contributions - Employer (from State)	1,322,142	1,201,496	1,109,338	1,129,759	1,074,825	1,134,704
Contributions - Non-Employer Contributing Entity	-	-	-	-	-	-
Contributions - Member	1,489,819	1,242,141	1,119,504	1,044,994	991,333	903,846
Net Investment Income	(23,391,743)	30,223,771	10,124,131	4,988,434	8,602,179	10,685,983
Benefit Payments	(9,569,342)	(8,072,538)	(8,584,372)	(8,543,520)	(8,424,033)	(8,142,089)
Refunds	(27,087)	(23,041)	(25,385)	(10,566)	(10,449)	(6,673)
Administrative Expense	(134,090)	(141,002)	(134,090)	(160,131)	(111,297)	(146,391)
Other		-	-	-	160,328 *	
Net Change in Plan Fiduciary Net Position	(22,140,987)	32,228,831	10,550,827	4,901,782	6,657,273	10,150,879
Plan Fiduciary Net Position - Beginning	163,257,261	131,028,430	120,485,851	115,584,069	108,926,796	98,775,917
Plan Fiduciary Net Position - Ending (b)	\$ 141,116,274	\$ 163,257,261	\$ 131,036,678	\$ 120,485,851	\$ 115,584,069	\$ 108,926,796
Net Pension Liability - Ending (a) - (b)	71,192,702	36,606,434	58,080,367	61,926,900	52,943,147	44,297,211
Plan Fiduciary Net Position as a Percentage						
of Total Pension Liability	66.47 %	81.68 %	69.29 %	66.05 %	68.58 %	71.09 %
Covered Payroll	\$ 13,028,198	\$ 12,490,811	\$ 12,193,590	\$ 11,003,736	\$ 10,494,232	\$ 8,954,177
Net Pension Liability as a Percentage						
of Covered Payroll	546.45 %	293.07 %	476.32 %	562.78 %	504.50 %	494.71 %

^{*} Due from Police Pension Fund for final settlement of Legacy Fund split.



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

FY Ending September 30,	Total Pension Liability	Plan Net Position	Net Pension Liability	Plan Net Position as a % of Total Pension Liability	Covered Payroll	Net Pension Liability as a % of Covered Payroll
2017	\$ 153,224,007	\$ 108,926,796	\$ 44,297,211	71.09%	\$ 8,954,177	494.71%
2018	168,527,216	115,584,069	52,943,147	68.58%	10,494,232	504.50%
2019	182,412,751	120,485,851	61,926,900	66.05%	11,003,736	562.78%
2020	189,117,045	131,028,430	58,088,615	69.28%	12,193,590	476.39%
2021	199,863,695	163,257,261	36,606,434	81.68%	12,490,811	293.07%
2022	212,308,976	141,116,274	71,192,702	66.47%	13,028,198	546.45%



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

Valuation Date: October 1, 2021
Measurement Date: September 30, 2022

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.

Methods and Assumptions Used to Determine Net Pension Liability:

Actuarial Cost Method Entry Age Normal

Inflation 2.50%

Salary Increases 4.50% to 8.25% depending on service

Investment Rate of Return 6.625%

Retirement Age Experience-based table of rates that are specific to the type of

eligibility condition.

Mortality PUB-2010 Headcount Weighted Safety Below Median Employee Male

Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2021 Actuarial Valuation of the Florida Retirement System

(FRS).

Other Information:

Notes See Section A in the October 1, 2021 Actuarial Valuation Report.



SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

	Actuarially		Contribution		Actual Contribution
FY Ending	Determined	Actual	Deficiency	Covered	as a % of
September 30,	Contribution	Contribution	(Excess)	Payroll	Covered Payroll
2017	\$ 5,332,347	\$ 6,856,203	\$ (1,523,856)	\$ 8,954,177	76.57%
2018	6,538,017	5,449,212	1,088,805	10,494,232	51.93%
2019	7,582,571	7,582,571	-	11,003,736	68.91%
2020	8,451,577	8,051,039	400,538	12,193,590	66.03%
2021	8,927,763	8,999,500	(71,737)	12,490,811	72.05%
2022	9,313,165	9,376,308	(63,143)	13,028,198	71.97%



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 Percentage of Pay, Closed

Remaining Amortization Period 19 years

Asset Valuation Method 5-year smoothed market

Inflation 2.50%

Salary Increases 4.50% to 8.25% based on service

Investment Rate of Return 6.625%

Retirement Age Experience-based table of rates that are specific to the type of

eligibility condition.

Mortality 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 Section A in the October 1, 2020 Actuarial Valuation Report.

Effective as of October 1, 2020 (adopted May 18, 2021), there were various changes to the Plan, along with assumptions associated with the changes. In addition, the investment return assumption was

lowered from 6.75% to 6.625%.



SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 6.625% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 6.625%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the total actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments (6.625%) was applied to all periods of projected benefit payments to determine the total pension liability.

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 6.625%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher.

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

	Current Single Discount								
1% Decrease	Rate Assumption	1% Increase							
5.625%	6.625%	7.625%							
\$94,434,922	\$71,192,702	\$52,101,651							





MISCELLANEOUS INFORMATION

	RECONCILIATION OF MEMBERSHIP	P DATA	
	A sking Manushama	From 10/1/21 To 10/1/22	From 10/1/20 To 10/1/21
Α.	Active Members	1	Ι
II	Number Included in Last Valuation New Members Included in Current Valuation Non-Vested Employment Terminations Vested Employment Terminations DROP Retirement Service Retirements Disability Retirements Deaths Other - Transfer/Rehire Number Included in This Valuation	141 0 (5) 0 (4) (1) 0 0 131	149 0 (2) 0 (6) 0 0 0 141
В.	Terminated Vested Members		
1. 2. 3. 4. 5. 6.	Number Included in Last Valuation Additions from Active Members Lump Sum Payments/Refund of Contributions Payments Commenced Deaths Other - Rehire Number Included in This Valuation	1 0 0 0 0 0 0	1 0 0 0 0 0 0
C.	DROP Plan Members		
1. 2. 3. 4. 5. 6.	Number Included in Last Valuation Addition from Active Members Retirements Deaths Resulting in No Further Payments Other Number Included in This Valuation	23 4 (2) 0 0 25	20 6 (3) 0 0 23
D.	Service Retirees, Disability Retirees and Beneficiaries		•
1. 2. 3. 4. 5. 6. 7. 8.	Number Included in Last Valuation Additions from Active Members Additions from DROP Additions from Terminated Vested Members Deaths Resulting in No Further Payments Deaths Resulting in New Survivor Benefits End of Certain Period - No Further Payments Other - Data Correction Number Included in This Valuation	122 1 2 0 (1) 0 0 0	119 0 3 0 0 0 0 0



ACTIVE MEMBERS AS OF OCTOBER 1, 2022

	Years of Service to Valuation Date										
Age Group	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25 & Up	Totals
20-24 NO	_	_	2	1	_	_	_	_	_	_	3
TOT PAY	_	_	127,980	64,528	_	_	_	_	_	_	192,508
AVG PAY	-	-	63,990	64,528	-	-	-	-	-	-	64,169
25-29 NO	-	-	1	3	6	5	-	-	-	-	15
TOT PAY	-	-	63,149	193,494	424,553	410,286	-	-	-	-	1,091,482
AVG PAY	-	-	63,149	64,498	70,759	82,057	-	-	-	-	72,765
30-34 NO	-	-	2	2	1	24	1	-	-	-	30
TOT PAY	-	-	129,810	128,996	72,042	1,993,182	119,479	-	-	-	2,443,509
AVG PAY	-	-	64,905	64,498	72,042	83,049	119,479	-	-	-	81,450
35-39 NO	-	-	2	2	3	13	8	8	-	-	36
TOT PAY	-	-	128,011	131,245	212,390	1,054,625	813,926	1,014,523	-	-	3,354,720
AVG PAY	-	-	64,006	65,623	70,797	81,125	101,741	126,815	-	-	93,187
40-44 NO	-	-	2	-	-	6	2	13	2	-	25
TOT PAY	-	-	131,766	-	-	493,073	206,310	1,645,111	244,517	-	2,720,777
AVG PAY	-	-	65,883	-	-	82,179	103,155	126,547	122,259	-	108,831
45-49 NO	-	-	-	-	-	1	-	11	2	-	14
TOT PAY	-	-	-	-	-	68,760	-	1,290,809	235,264	-	1,594,833
AVG PAY	-	-	-	-	-	68,760	-	117,346	117,632	-	113,917
50-54 NO	-	-	-	-	1	-	-	3	-	-	4
TOT PAY	-	-	-	-	72,028	-	-	345,708	-	-	417,736
AVG PAY	-	-	-	-	72,028	-	-	115,236	-	-	104,434
55-59 NO	-	-	-	-	-	1	-	2	-	-	3
TOT PAY	-	-	-	-	-	183,826	-	257,801	-	-	441,627
AVG PAY	-	-	-	-	-	183,826	-	128,901	-	-	147,209
60-64 NO	-	-	-	-	-	-	-	-	-	-	-
TOT PAY	-	-	-	-	-	-	-	-	-	-	-
AVG PAY	-	-	-	-	-	-	-	-	-	-	-
65 & Up NO	-	-	-	-	-	-	1	-	-	-	1
TOT PAY	-	-	-	-	-	-	151,377	-	-	-	151,377
AVG PAY	-	-	-	-	-	-	151,377	-	-	-	151,377
TOT NO	-	-	9	8	11	50	12	37	4	-	131
TOT AMT	-	-	580,716	518,263	781,013	4,203,752	1,291,092	4,553,952	479,781	-	12,408,569
AVG AMT	-	-	64,524	64,783	71,001	84,075	107,591	123,080	119,945	-	94,722



INACTIVE MEMBERS AS OF OCTOBER 1, 2022

	Terminated Vested		Disabled		Retired		Beneficiaries		Grand Total	
		Total		Total		Total		Total		Total
Age	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	0	-	0	-	0	-	2	7,884	2	7,884
20 - 24	0	-	0	-	0	-	0	-	0	-
25 - 29	0	-	0	-	0	-	0	-	0	-
30 - 34	0	-	0	-	0	-	0	-	0	-
35 - 39	1	28,716	0	-	0	-	1	5,337	2	34,053
40 - 44	0	-	0	-	2	136,599	0	-	2	136,599
45 - 49	0	-	0	-	7	550,240	1	17,081	8	567,321
50 - 54	0	-	0	-	18	1,485,501	0	-	18	1,485,501
55 - 59	0	-	0	-	32	2,457,060	0	-	32	2,457,060
60 - 64	0	-	3	116,316	27	2,003,392	0	-	30	2,119,708
65 - 69	0	-	0	-	20	1,517,025	0	-	20	1,517,025
70 - 74	0	-	1	25,040	15	995,830	2	51,054	18	1,071,924
75 - 79	0	-	0	-	9	409,721	3	62,807	12	472,528
80 - 84	0	-	0	-	3	129,007	1	16,635	4	145,642
85 - 89	0	-	0	-	0	-	0	-	0	-
90 - 94	0	-	0	-	0	-	1	12,157	1	12,157
95 - 99	0	-	0	-	0	-	1	12,245	1	12,245
100 & Over	0	-	0	-	0	-	0	-	0	-
Total	1	28,716	4	141,356	133	9,684,375	12	185,200	150	10,039,647
Average Age	2	38		65		62		63		62



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 Delray Beach, Florida, Chapter 33, and was most recently amended under the ordinance passed and adopted on its second reading on May 18, 2021. The Plan is also governed by certain provisions of Chapter 175, Florida Statutes, Part VII, Chapter 112, Florida Statutes and the Internal Revenue Code.

B. Effective Date

April 22, 1974

C. Plan Year

October 1 through September 30

D. Type of Plan

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

E. Eligibility Requirements

All full-time firefighters

F. Credited Service

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

G. Compensation

Compensation is the total base wages, including state education compensation and fire career education compensation, but excluding overtime, bonuses and any other payments.

H. Final Average Compensation (FAC)

For Members hired prior to October 4, 2016:

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

For Members hired on or after October 4, 2016:

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



I. Normal Retirement

For Members hired prior to October 4, 2016 with 20 or more years of service as of that date:

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) 20 years of Credited Service regardless of age.

Benefit: 3.00% (or 3.50% of FAC for those electing the enhanced multiplier) for each year of

Credited Service; subject to a maximum of 30 years of credited service.

Normal Form

of Benefit: 10 Years Certain and Life thereafter. For married participants, a monthly

income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or

remarriage of spouse.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25th anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional

increases are also paid from the COLA Reserve Account.

For Members hired prior to October 4, 2016 with less than 20 years of service as of that date:

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) 20 years of Credited Service regardless of age.

Benefit: For those retiring with more than 20 years of service: 3.00% of FAC (or 3.50% of

FAC for those electing the enhanced multiplier) for each year of Credited Service prior to October 4, 2016. For Credited Service earned after October 4, 2016, 3.00% of FAC for each year of Credited Service after October 4, 2016. Members hired after April 9, 2013 are not eligible for the enhanced multiplier. The benefit is

subject to a maximum of 30 years of credited service.

For those retiring with less than 20 years of service: 2.50% of FAC for each year of Credited Service prior to October 4, 2016. For Credited Service earned after October 4, 2016, 3.00% of FAC for each year of Credited Service after October 4,

2016.

The maximum annual starting benefit is \$100,000, but not less than 2.00% of average monthly earnings for each year of continuous service. The maximum benefit amount will be increased annually by 2% each October 1st beginning

October 1, 2016.



Normal Form

of Benefit: 10 Years Certain and Life thereafter. For married participants, a monthly

income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. For the benefit based on service accrued after October 4,

2016, the normal form is a 10-Year Certain and Life annuity.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25^{th} anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after

October 4, 2016, the adjustment shall not commence until one year after

separating from employment.

For Members hired after October 4, 2016:

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

following the earlier of:

(1) age 55 and 10 years of Credited Service, or(2) 25 years of Credited Service regardless of age.

Benefit: 2.75% of FAC for each year of Credited Service; subject to a maximum of 30 years

of credited service. The maximum annual starting benefit is \$100,000, but not less than 2.00% of average monthly earnings for each year of continuous service. The maximum benefit amount will be increased annually by 2% each October 1st

beginning October 1, 2016.

Normal Form

of Benefit: 10 Years Certain and Life thereafter.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25th anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after

October 4, 2016, the adjustment shall not commence until one year after

separating from employment.



J. Early Retirement

For Members hired prior to October 4, 2016:

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

attainment of age 50 and 10 years of Credited Service.

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

Early Retirement date precedes the Normal Retirement date.

Normal Form

of Benefit: 10 Years Certain and Life thereafter. For married participants, a monthly

income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. For the benefit based on service accrued after October 4,

2016, the normal form is a 10-Year Certain and Life annuity.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25^{th} anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after

October 4, 2016, the adjustment shall not commence until one year after

separating from employment.

For Members hired on or after October 4, 2016:

Early retirement is not available.

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 becomes totally and permanently disabled as a result of an act

occurring in the performance of service for the City is immediately eligible for a

disability benefit.

Benefit: The disability benefit is equal to the accrued benefit, but not less than 60% of FAC.

Normal Form

of Benefit: Payable until death or recovery from disability or until the member reaches Early

or Normal Retirement Age and elects to receive Early or Normal Retirement

Benefits in lieu of disability benefits. Other options are also available.

COLA: None



M. Non-Service Connected Disability

Eligibility: Any member with at least 10 years of Credited Service who becomes totally and

permanently disabled is immediately eligible for a disability benefit.

Benefit: The accrued Normal Retirement Benefit with a minimum equal to 2.00% of FAC for

each year of Credited Service, with a minimum of 25% of FAC.

Normal Form

of Benefit: Payable until death or recovery from disability or until the member reaches Early

or Normal Retirement Age and elects to receive Early or Normal Retirement

Benefits in lieu of disability benefits. Other options are also available.

COLA: None

N. Death in the Line of Duty

Eligibility: Any member whose death is determined to be the result of a service incurred

injury is eligible for survivor benefits regardless of Credited Service.

Benefit: Spouse will receive 50% of FAC, plus 5% to each unmarried child under 18 (age

22 if full-time student), subject to an overall maximum of 60% of FAC.

Normal Form

of Benefit: Payable for the life of spouse, or until age 18 (age 22 if full-time student) for

children.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25th anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after

October 4, 2016, the adjustment shall not commence until one year after

separating from employment.

O. Other Pre-Retirement Death

Eligibility: All members are eligible for survivor benefits.

Benefit: \$2,500 lump sum is payable if the member has less than one year of service. A

\$5,000 lump sum is payable if the member has more than one year of service

but less than five.

If the member has five or more years of service, a \$5,000 lump sum is payable, plus a month benefit of 65% of the accrued benefit to the spouse (as of the date

of death), subject to a minimum of 20% of FAC. In addition, 5% to each

unmarried child under 18 (age 22 if full-time student). The total monthly benefit is subject to a maximum of 50% of FAC and 35% after death or remarriage of

spouse.



Normal Form

of Benefit: Payable for the life of spouse, or until age 18 (age 22 if full-time student) for

children.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25th anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after

October 4, 2016, the adjustment shall not commence until one year after

separating from employment.

P. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.

Q. Optional Forms

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

R. Vested Termination

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

of 10 years of Credited Service.

Benefit: The benefit is the member's accrued Normal Retirement Benefit. Benefit begins on

the date that would have been the member's Normal Retirement date based on

Credited Service at termination.

Normal Form

of Benefit: 10 Years Certain and Life thereafter. For married participants, a monthly

income payable for life of member; upon death of member, 100% of member's benefit payable to spouse for one year and 60% thereafter until death or remarriage of spouse. For the benefit based on service accrued after October 4,

2016, the normal form is a 10-Year Certain and Life annuity.

COLA: Cost of living increases of 1.00% apply for those retiring after October 1, 1993,

commencing on the 25^{th} anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after

October 4, 2016, the adjustment shall not commence until one year after

separating from employment.



S. Refunds

Eligibility: All members terminating employment with less than 10 years of Credited Service

are eligible.

Benefit: Refund of the member's contributions with simple interest of 3%.

T. Member Contributions

9.00% of Compensation until the member has earned the maximum normal retirement benefit. For members who enter the DROP on or after May 18, 2021, 4.00% of Compensation.

U. State Contributions

Chapter 175 Premium Tax Refunds.

V. Employer Contributions

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

W. Cost of Living Increases

Cost of living increases of 1.00% apply for those retiring after October 1, 1993, commencing on the 25th anniversary of the retiree's hire date. Additional increases are available when the revenue under Chapter 175 exceeds \$1,206,994. Additional increases are also paid from the COLA Reserve Account. For benefits accrued after October 4, 2016, the adjustment shall not commence until one year after separating from employment.

X. Deferred Retirement Option Plan

Eligibility: Plan members who have met the eligibility requirements for Normal Retirement.

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

monthly retirement benefit as described under Normal Retirement is calculated

based upon the frozen Credited Service and FAC.

Maximum

DROP Period: 96 months for members who enter the DROP on or after May 18, 2021; 60 months

for members who enter the DROP before May 18, 2021. Members who enter the

DROP before May 18, 2021 may elect to extend their maximum DROP

participation to 96 months by paying 4.00% member contributions retroactively to

their DROP entry dates.

Interest

Credited: For members who enter the DROP, the member's DROP account is credited at the

net rate of return on retirement fund assets during the period the employee

participates in the DROP.



Normal Form

of Benefit: Lump Sum, Direct Rollover, or Partial Lump Sum with a Direct Rollover of

remaining balance.

Y. Other Ancillary Benefits

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

Z. Changes from Previous Valuation

None.

