

# City of Delray Beach Firefighters' Retirement System

ACTUARIAL VALUATION REPORT  
AS OF OCTOBER 1, 2021

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR  
ENDING SEPTEMBER 30, 2023







June 15, 2022

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, 2021**

Dear Board Members:

The results of the October 1, 2021 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, 2023, and to determine the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 67. 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, 2021. 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

By   
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## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>A</b>	Discussion of Valuation Results	
	1. Discussion of Valuation Results	1
	2. Risks Associated with Measuring the Accrued Liability and Actuarially Determined Contribution	4
	3. Chapter Revenue	7
	4. COLA Account	8
<b>B</b>	Valuation Results	
	1. Participant Data	9
	2. Actuarially Determined Contribution (ADC)	10
	3. Actuarial Value of Benefits and Assets	11
	4. Calculation of Employer Normal Cost	12
	5. Unfunded Actuarial Accrued Liability	13
	6. Actuarial Gains and Losses	14
	7. Recent History of Valuation Results	18
	8. Recent History of Required and Actual Contributions	19
	9. Actuarial Assumptions and Cost Method	20
	10. Glossary of Terms	27
<b>C</b>	Pension Fund Information	
	1. Statement of Plan Assets at Market Value	30
	2. Reconciliation of Plan Assets	31
	3. Reconciliation of DROP Accounts	32
	4. Actuarial Value of Assets	33
	5. Investment Rate of Return	34
<b>D</b>	Financial Accounting Information	
	1. FASB No. 35	35
	2. GASB No. 67	36
<b>E</b>	Miscellaneous Information	
	1. Reconciliation of Membership Data	42
	2. Age/Service/Salary Distributions	43
<b>F</b>	Summary of Plan Provisions	45



## **SECTION A**

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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 9/30/2023 Based on 10/1/2021 Valuation	For FYE 9/30/2022 Based on 10/1/2020 Valuation	Increase (Decrease)
Required Contribution	\$ 9,928,412	\$ 9,623,557	\$ 304,855
As % of Contr. Year Payroll	72.20 %	68.52 %	3.68 %
Estimated State Contribution	1,201,496	1,201,496 *	0
As % of Contr. Year Payroll	8.74 %	8.55 %	0.19 %
Net Employer Contribution**	8,726,916	8,422,061	304,855
As % of Contr. Year Payroll	63.46 %	59.97 %	3.49 %

\* Updated from the prior year's valuation report to reflect the State contribution received for the fiscal year ending September 30, 2021.

\*\* Contribution may be offset by the \$106,250 prepaid City contribution.

### 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, 2023 is paid on October 1, 2022, the net required employer contribution is \$8,406,511 or 61.13% of covered payroll.**

Further, the required Employer contribution has been computed with the assumption that the amount to be received from the State in 2022 and 2023 will be equal to the amount received in 2021 of \$1,201,496. 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, 2021 were \$7,726,267 from the City (after excluding \$71,737 in additional prepaid City contributions) plus \$1,201,496 of annual State revenue, for a total of \$8,927,763. The total annual required contribution was \$8,927,763.

### Revisions in Benefits

There were no revisions in benefits since the prior valuation.



## Revisions in Actuarial Assumptions and Methods

The following assumption changes were made:

- The amortization period was decreased from 19 years to 18 years. This amortization period will be lowered by 1 year each year until a 15-year amortization period is attained.
- The amortization of the unfunded actuarial accrued liability was changed to use a level dollar method (no payroll growth assumption needed) from the previous percent of payroll method (and a 1.17% payroll growth assumption).

The impact of these two changes was an increase in the contribution requirement of 3.00% of covered payroll.

## Actuarial Experience

There was a net actuarial gain of \$750,914 since the last valuation which means that actual experience was more favorable than expected. The gain was primarily due to a higher investment rate of return than expected. The investment rate of return was 24.2% based on the market value of assets and 11.0% based on the actuarial value of assets. The expected investment return was 6.625%.

A portion of these gains were offset by losses due to the greater 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 24.2% compared to the 6.625% expected return, the balance of the COLA Reserve was more than expected, and therefore, the liability for this was greater than expected. Additionally, there were losses due to greater than expected retirements and lower than expected mortality amongst pensioners.

The net gain caused the required employer contribution to decrease by 0.48% of covered payroll.

## Funded Ratio

This year's funded ratio is 69.2% compared to 65.6% 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	59.97 %
Experience (Gains) or Losses	(0.48)
Revision in Assumptions/Methods	3.00
Amortization Payment on UAAL	1.50
Normal Cost Rate	(0.35)
Administrative Expense	0.01
Benefit Changes	0.00
Change in State Contribution Rate	(0.19)
Contribution Rate This Year	<u>63.46 %</u>





## 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 less than the Market Value of Assets by \$17,064,102 as of the valuation date (see Section C). This difference will be gradually recognized in the absence of offsetting gains and losses. In turn, the computed employer contribution rate will decrease by approximately 12.28% of covered payroll.

## Relationship to Market Value

If Market Value had been the basis for the valuation, the City contribution rate would have been 51.18% and the funded ratio would have been 78.2%. In the absence of other gains and losses or changes, the City contribution rate should decrease to that level over the next several years.

## Estimated Required City Contribution for FYE 2024

The estimated required employer contribution for FYE 2024 compared to the required employer contribution for FYE 2023 is as follows:

	Estimated Required Employer Contribution For FYE 9/30/2024	For FYE 9/30/2023 Based on 10/1/2021 Valuation	Increase (Decrease)
Required Employer Contribution			
Date of Payment	Biweekly	Biweekly	
Dollar Amount	\$ 8,450,000 <sup>1</sup>	\$ 8,726,916	\$ (276,916)
As % of Covered Payroll	58.20 % <sup>1</sup>	63.46 %	(5.26) %

<sup>1</sup> Estimated Required Employer Contribution for FYE 2024 assuming no gains, losses, or assumption changes and a 5.55% increase in total covered payroll.

## Conclusion

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;
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 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>2021</u>	<u>2020</u>
Ratio of the market value of assets to total payroll*	10.4	8.1
Ratio of the actuarial accrued liability to payroll*	13.6	12.7
Ratio of actives to retirees and beneficiaries	1.0	1.1
Ratio of net cash flow to market value of assets	0.6%	0.5%

\* 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

<b>Actuarial Confirmation of the Use of State Chapter Money</b>	
1. Base Amount Previous Plan Year	\$ 1,109,338
2. Amount Received for Previous Plan Year	1,201,496
3. Benefit Improvements	0
4. Excess Funds for Previous Plan Year	0
5. Accumulated Excess at Beginning of Previous Year	0
6. Prior Excess Used in Previous Plan Year	0
7. Accumulated Excess as of Valuation Date (Available for Benefit Improvements): (4) + (5) - (6)	0 *
8. Base Amount This Plan Year	\$ 1,201,496

\* 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

	<u>October 1, 2021</u>	<u>October 1, 2020</u>
A. COLA Account at Beginning of Year	\$10,478,588	\$10,098,699
B. Investment Return	24.21%	8.73%
C. Investment Earnings	2,536,866	881,616
D. Chapter 175 Regular Revenue	1,201,496	1,109,338
E. Chapter 175 Supplemental Revenue	0	0
F. Total Chapter 175 Revenue	1,201,496	1,109,338
G. Chapter Revenue in Excess of \$1,206,994	0	0
H. Benefit Enhancement Percentage	0.50%	0.50%
I. Total Present Value of Benefit Enhancement	550,195	501,727
J. COLA Account at End of Year (A. + C. + G. - I.)	\$12,465,259	\$10,478,588

## **SECTION B**

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### **VALUATION RESULTS**

<b>PARTICIPANT DATA</b>			
	<b>October 1, 2021</b> <i>After Changes</i>	<b>October 1, 2021</b> <i>Before Changes</i>	<b>October 1, 2020</b>
<b>ACTIVE MEMBERS</b>			
Number	141	141	149
Covered Annual Payroll	\$ 13,028,198	\$ 13,028,198	\$ 13,306,383
Average Annual Payroll	\$ 92,399	\$ 92,399	\$ 89,305
Average Age	36.6	36.6	35.9
Average Past Service	9.1	9.1	8.5
Average Age at Hire	27.5	27.5	27.4
<b>RETIREES, BENEFICIARIES &amp; DROP</b>			
Number	141	141	135
Annual Benefits	\$ 9,383,905	\$ 9,383,905	\$ 8,775,142
Average Annual Benefit	\$ 66,553	\$ 66,553	\$ 65,001
Average Age	61.9	61.9	61.5
<b>DISABILITY RETIREES</b>			
Number	4	4	4
Annual Benefits	\$ 140,121	\$ 140,121	\$ 138,904
Average Annual Benefit	\$ 35,030	\$ 35,030	\$ 34,726
Average Age	64.4	64.4	63.4
<b>TERMINATED VESTED MEMBERS (EXCLUDING NON-VESTED REFUNDS PAYABLE)</b>			
Number	1	1	1
Annual Benefits	\$ 28,716	\$ 28,716	\$ 28,716
Average Annual Benefit	\$ 28,716	\$ 28,716	\$ 28,716
Average Age	36.6	36.6	35.6





<b>ACTUARIALLY DETERMINED CONTRIBUTION (ADC)</b>			
A. Valuation Date	October 1, 2021 <i>After Changes</i>	October 1, 2021 <i>Before Changes</i>	October 1, 2020
B. ADC to Be Paid During Fiscal Year Ending	9/30/2023	9/30/2023	9/30/2022
C. Assumed Dates of Employer Contributions	Biweekly	Biweekly	Biweekly
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 6,300,222	\$ 5,921,649	\$ 5,917,191
E. Employer Normal Cost	2,803,000	2,803,000	2,905,838
F. ADC if Paid on the Valuation Date: D+E	9,103,222	8,724,649	8,823,029
G. ADC Adjusted for Frequency of Payments	9,406,723	9,015,529	9,117,189
H. ADC as % of Covered Payroll	72.20 %	69.20 %	68.52 %
I. Assumed Rate of Increase in Covered Payroll to Contribution Year	5.55 %	5.55 %	5.55 %
J. Covered Payroll for Contribution Year	13,751,263	13,751,263	14,044,887
K. ADC for Contribution Year: H x J	9,928,412	9,515,874	9,623,557
L. Estimated Credit for State Revenue in Contribution Year	1,201,496	1,201,496	1,201,496
M. Required Employer Contribution (REC) in Contribution Year	8,726,916	8,314,378	8,422,061
N. REC as % of Covered Payroll in Contribution Year: M/J	63.46 %	60.46 %	59.97 %



<b>ACTUARIAL VALUE OF BENEFITS AND ASSETS</b>			
A. Valuation Date	October 1, 2021 <i>After Changes</i>	October 1, 2021 <i>Before Changes</i>	October 1, 2020
<b>B. Actuarial Present Value of All Projected Benefits for</b>			
1. Active Members			
a. Service Retirement Benefits	\$ 83,017,291	\$ 83,017,291	\$ 84,506,907
b. Vesting Benefits	3,486,356	3,486,356	3,543,283
c. Disability Benefits	2,401,112	2,401,112	2,431,477
d. Preretirement Death Benefits	1,113,937	1,113,937	1,127,804
e. Return of Member Contributions	558,320	558,320	583,187
f. Total	<u>90,577,016</u>	<u>90,577,016</u>	<u>92,192,658</u>
2. Inactive Members			
a. Service Retirees & Beneficiaries	124,651,586	124,651,586	115,864,535
b. Disability Retirees	1,492,031	1,492,031	1,505,892
c. Terminated Vested Members*	122,335	122,335	118,234
d. COLA Account	12,465,259	12,465,259	10,478,588
e. Total	<u>138,731,211</u>	<u>138,731,211</u>	<u>127,967,249</u>
3. Total for All Members	229,308,227	229,308,227	220,159,907
C. Actuarial Accrued (Past Service) Liability under Entry Age Normal	189,548,724	189,548,724	178,848,501
D. Actuarial Value of Accumulated Plan Benefits per FASB No. 35	165,067,596	165,067,596	156,159,515
E. Plan Assets			
1. Market Value	148,204,634	148,204,634	118,579,565
2. Actuarial Value	131,140,532	131,140,532	117,411,937
F. Unfunded Actuarial Accrued Liability	58,408,192	58,408,192	61,436,564
G. Actuarial Present Value of Projected Covered Payroll	137,570,846	137,570,846	142,186,006
H. Actuarial Present Value of Projected Member Contributions	12,414,374	12,414,374	14,876,479
I. Accumulated Contributions of Active Members	7,738,812	7,738,812	7,348,660

\* Terminated Vested liability includes refunds payable for terminated non-vested members.



CALCULATION OF EMPLOYER NORMAL COST			
A. Valuation Date	October 1, 2021 <i>After Changes</i>	October 1, 2021 <i>Before Changes</i>	October 1, 2020
B. Normal Cost for			
1. Service Retirement Benefits	\$ 3,369,361	\$ 3,369,361	\$ 3,465,617
2. Vesting Benefits	220,887	220,887	224,314
3. Disability Benefits	161,704	161,704	164,306
4. Preretirement Death Benefits	84,754	84,754	86,641
5. Return of Member Contributions	<u>83,936</u>	<u>83,936</u>	<u>85,779</u>
6. Total for Future Benefits	3,920,642	3,920,642	4,026,657
7. Assumed Amount for Administrative Expenses	<u>141,002</u>	<u>141,002</u>	<u>142,338</u>
8. Total Normal Cost	4,061,644	4,061,644	4,168,995
C. Expected Member Contribution	1,258,644	1,258,644	1,263,157
D. Employer Normal Cost: B8-C	2,803,000	2,803,000	2,905,838
E. Employer Normal Cost as a % of Covered Payroll	21.52%	21.52%	21.84%

A. UAAL AMORTIZATION PERIOD AND PAYMENTS						
Original UAAL			Current UAAL			
Date Established	Base Established	Amortization Period (Years)	Years Remaining	Amount	Amortization Payment	
					After Changes	Before Changes
10/1/2015	Initial Unfunded Liability	18	12	\$ 33,692,031	\$ 3,899,196	\$ 3,687,000
10/1/2015	Benefit Change	20	14	(1,004,903)	(105,355)	(98,754)
10/1/2016	Assumption Change	20	15	3,673,495	369,360	344,761
10/1/2016	Actuarial Loss	20	15	6,342,378	637,708	595,238
10/1/2017	Actuarial Gain	20	16	(1,500,342)	(145,275)	(135,043)
10/1/2017	Assumption Change	20	16	11,051,860	1,070,126	994,760
10/1/2017	Method Change	20	16	(11,189)	(1,083)	(1,007)
10/1/2018	Actuarial Loss	20	17	1,424,829	133,337	123,451
10/1/2018	Assumption Change	20	17	4,260,243	398,678	369,118
10/1/2019	Actuarial Loss	20	18	307,016	27,855	25,689
10/1/2019	Benefit Change	20	18	5,987	543	501
10/1/2019	Assumption Change	20	18	(591,466)	(53,662)	(49,490)
10/1/2020	Actuarial Loss	19	18	424,216	38,488	35,496
10/1/2020	Benefit Change	19	18	(1,303,522)	(118,266)	(109,070)
10/1/2020	Assumption Change	19	18	2,388,473	216,701	199,852
10/1/2021	Actuarial Gain	18	18	(750,914)	(68,129)	(60,853)
				\$ 58,408,192	\$ 6,300,222	\$ 5,921,649

**B. Amortization Schedule**

The UAAL is being amortized as a level dollar amount (after the method change) 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
2021	\$ 58,408,192
2022	55,560,134
2023	52,523,382
2024	49,285,444
2025	45,832,993
2026	42,151,817
2031	19,748,144
2036	2,077,386
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:

1. Last Year's UAAL	61,436,564
2. Last Year's Employer Normal Cost	2,905,838
3. Last Year's Contributions	
a. Employer Contribution	7,726,267
b. State Contribution Used to Offset Required Contribution	<u>1,201,496</u>
c. Total Contributions	8,927,763
4. Interest at the Assumed Rate on:	
a. 1 and 2 for one year	4,262,684
b. 3 from dates paid	<u>518,217</u>
c. a - b	3,744,467
5. This Year's Expected UAAL Prior to Revision: 1 + 2 - 3c + 4c	59,159,106
6. Change in UAAL Due to Plan Amendments and/or Changes in Actuarial Assumptions and Methods	0
7. This Year's Expected UAAL (after changes): 5 + 6	59,159,106
8. This Year's Actual UAAL (after changes)	58,408,192
9. Net Actuarial Gain/(Loss): 7 - 8	750,914
10. Gain/(Loss) Due to Investment	4,879,298
11. Gain/(Loss) Due to Other Sources	(4,128,384)

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

<b>Year Ending</b>	<b>Actuarial Gain / (Loss)</b>
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

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:

Year Ending	Investment Return		Salary Increases	
	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
Average	8.3 %	---	7.7 %	---

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

\*\* 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.

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.

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

**Actual (A) Versus Expected (E) Decrements**

Year Ended	Number Added During Year		Service & DROP Retirement		Disability Retirement		Died In Service		Terminations				Active Members End of Year
									Vested	Other	Totals		
	A	E	A	E	A	E	A	E	A	A	A	E	
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				1		0		0				5	



**RECENT HISTORY OF VALUATION RESULTS**

Valuation Date	Number of		Covered Annual Payroll	Actuarial Value of Assets	Accrued Liability	Unfunded Accrued Liability	Funded Ratio	Employer Normal Cost	
	Active Members	Inactive Members						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

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



**RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS**

Valuation Date	End of Year To Which Valuation Applies	Required Contributions						Actual Contributions		
		Employer & State		Estimated State		Net Employer		Employer	State	Total
		Amount	% of Payroll	Amount	% of Payroll	Amount	% of Payroll			
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	9,623,557	68.52	1,201,496	8.55	8,422,061	59.97	---	---	---
10/1/2021	9/30/2023	9,928,412	72.20	1,201,496	8.74	8,726,916	63.46	---	---	---

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



## 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.

Years of Service	% Increase in Salary		
	Merit and Seniority	Base (Economic)	Total 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, 2021 Actuarial Valuation of the Florida Retirement System (FRS).

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

Sample Attained Ages (in 2021)	Probability of Dying Next Year		Future Life Expectancy (years)	
	Men	Women	Men	Women
50	0.42 %	0.20 %	32.50	36.33
55	0.56	0.36	27.73	31.30
60	0.92	0.61	23.14	26.51
65	1.32	0.92	18.87	22.00
70	2.08	1.45	14.86	17.74
75	3.54	2.42	11.27	13.82
80	6.30	4.16	8.19	10.35

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 Ages (in 2021)	Probability of Dying Next Year		Future Life Expectancy (years)	
	Men	Women	Men	Women
50	0.16 %	0.11 %	35.66	39.58
55	0.26	0.16	30.58	34.44
60	0.43	0.22	25.63	29.37
65	0.69	0.30	20.86	24.35
70	1.18	0.55	16.34	19.45
75	2.08	1.07	12.10	14.75
80	6.30	4.16	8.19	10.35

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% 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 Ages (in 2021)	Probability of Dying Next Year		Future Life Expectancy (years)	
	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 Before October 4, 2016			Normal Retirement for Members Hired After October 4, 2016		
Sample Ages	Years of Service	Probability of Normal Retirement	Sample Ages	Years of Service	Probability of Normal Retirement
55+	10 - 19	20.0%	55+	10 - 24	20%
All	20	25.0%	All	25	70%
	21	17.5%		26	40%
	22	17.5%		27	40%
	23	25.0%		28	40%
	24	40.0%		29	40%
	25	40.0%		30	100%
	26	40.0%			
	27	40.0%			
	28	40.0%			
	29	40.0%			
	30	100.0%			

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 Service	Sample Ages	% of Active Members 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).

<b>Sample Ages</b>	<b>% Becoming Disabled Within Next Year</b>
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

<b><i>Administrative &amp; Investment Expenses</i></b>	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.
<b><i>Benefit Service</i></b>	Service calculated based on completed months is used to determine the amount of benefit payable.
<b><i>Cost of Living Adjustment</i></b>	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.
<b><i>Decrement Operation</i></b>	Disability and mortality decrements operate during retirement eligibility.
<b><i>Decrement Timing</i></b>	Decrements of all types are assumed to occur at the beginning of the year.
<b><i>Eligibility Testing</i></b>	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.
<b><i>Forfeitures</i></b>	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.
<b><i>Incidence of Contributions</i></b>	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.
<b><i>Marriage Assumption</i></b>	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 Timing***

Beginning of fiscal year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.

***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

<b><i>Actuarial Accrued Liability (AAL)</i></b>	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
<b><i>Actuarial Assumptions</i></b>	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.
<b><i>Actuarial Cost Method</i></b>	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.
<b><i>Actuarial Equivalent</i></b>	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
<b><i>Actuarial Present Value (APV)</i></b>	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.
<b><i>Actuarial Present Value of Future Benefits (APVFB)</i></b>	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.
<b><i>Actuarial Valuation</i></b>	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).
<b><i>Actuarial Value of Assets</i></b>	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).

<b><i>Amortization Method</i></b>	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.
<b><i>Amortization Payment</i></b>	That portion of the plan contribution or ADC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
<b><i>Amortization Period</i></b>	The period used in calculating the Amortization Payment.
<b><i>Actuarially Determined Contribution (ADC)</i></b>	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.
<b><i>Closed Amortization Period</i></b>	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.
<b><i>Employer Normal Cost</i></b>	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
<b><i>Equivalent Single Amortization Period</i></b>	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.
<b><i>Experience Gain/Loss</i></b>	A measure of the difference between the normal cost rate from last year and the normal cost rate from this year.
<b><i>Funded Ratio</i></b>	The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.
<b><i>GASB</i></b>	Governmental Accounting Standards Board.
<b><i>GASB No. 67 and GASB No. 68</i></b>	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.



<b><i>Normal Cost</i></b>	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
<b><i>Open Amortization Period</i></b>	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.
<b><i>Unfunded Actuarial Accrued Liability</i></b>	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
<b><i>Valuation Date</i></b>	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.

## **SECTION C**

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### **PENSION FUND INFORMATION**

## Statement of Plan Assets at Market Value

Item	September 30	
	2021	2020
A. Cash and Cash Equivalents (Operating Cash)	\$ 24,657	\$ 340
B. Receivables		
1. Member Contributions	\$ 55,668	\$ 43,049
2. Interest and Dividends	24,236	139,438
3. Due from Broker	281,730	1,042,723
4. Prepaid Expenses and Other	-	-
5. State Contribution	-	1,109,338
6. Total Receivables	<u>\$ 361,634</u>	<u>\$ 2,334,548</u>
C. Investments		
1. Short Term Investments	\$ 3,388,593	\$ 1,748,491
2. Domestic Equities	82,171,572	55,839,646
3. International Equities	27,436,864	23,166,584
4. Domestic Fixed Income	25,662,220	21,050,557
5. International Fixed Income	-	2,898,702
6. Real Estate	9,198,988	8,601,442
7. Other	896,564	3,933,091
8. Total Investments	<u>\$ 148,754,801</u>	<u>\$ 117,238,513</u>
D. Liabilities		
1. Prepaid City Contribution	\$ (106,250)	\$ (34,513)
2. Accounts Payable	(114,824)	(104,805)
3. Due to Broker	(715,384)	(854,518)
4. Due to Police Officers Retirement System	-	-
5. Total Liabilities	<u>\$ (936,458)</u>	<u>\$ (993,836)</u>
E. Total Market Value of Assets Available for Benefits	\$ 148,204,634	\$ 118,579,565
F. Allocation of Investments		
1. Short Term Investments	2.3%	1.5%
2. Domestic Equities	55.2%	47.5%
3. International Equities	18.4%	19.8%
4. Domestic Fixed Income	17.3%	18.0%
5. International Fixed Income	0.0%	2.5%
6. Real Estate	6.2%	7.3%
7. Other	0.6%	3.4%
8. Total Investments	<u>100.0%</u>	<u>100.0%</u>

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



## Reconciliation of Plan Assets

Item	September 30	
	2021	2020
A. Market Value of Assets at Beginning of Year	\$ 118,579,565	\$ 108,468,348
B. Revenues and Expenditures		
1. Contributions		
a. Member Contributions	\$ 1,242,141	\$ 1,119,504
b. Employer Contributions	7,726,267	7,342,239
c. State Contributions	1,201,496	1,109,338
d. Total	\$ 10,169,904	\$ 9,571,081
2. Investment Income		
a. Interest, Dividends, and Other Income	\$ 2,354,642	\$ 2,833,422
b. Net Realized/Unrealized Gains/(Losses)*	27,101,398	7,279,667
c. Investment Expenses	(652,044)	(615,849)
d. Net Investment Income	\$ 28,803,996	\$ 9,497,240
3. Benefits and Refunds		
a. Regular Monthly Benefits	\$ (9,184,788)	\$ (8,789,381)
b. Refunds	(23,041)	(25,385)
c. Lump Sum Benefits Paid	-	-
d. Total	\$ (9,207,829)	\$ (8,814,766)
4. Administrative and Miscellaneous Expenses	\$ (141,002)	\$ (142,338)
C. Market Value of Assets at End of Year	\$ 148,204,634	\$ 118,579,565

\* 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**

<b>Year Ended 9/30</b>	<b>Balance at Beginning of Year</b>	<b>Credits</b>	<b>Interest</b>	<b>Distributions</b>	<b>Balance at End of Year</b>
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



### ACTUARIAL VALUE OF ASSETS

Valuation Date – September 30	2020	2021	2022	2023	2024	2025
A. Actuarial Value of Assets Beginning of Year	\$ 108,512,188	\$ 117,411,937				
B. Market Value End of Year	118,579,565	148,204,634				
C. Market Value Beginning of Year	108,468,348	118,579,565				
D. Non-Investment/Administrative Net Cash Flow	613,977	821,073				
E. Investment Income						
E1. Actual Market Total: B-C-D	9,497,240	28,803,996				
E2. Assumed Rate of Return	6.75%	6.625%	6.625%	6.625%	6.625%	6.625%
E3. Assumed Amount of Return	7,561,627	8,028,224				
E4. Amount Subject to Phase-In: E1–E3	1,935,613	20,775,772				
F. Phased-In Recognition of Investment Income						
F1. Current Year: 0.2 x E4	387,123	4,155,154				
F2. First Prior Year	(463,290)	387,123	4,155,154			
F3. Second Prior Year	208,694	(463,290)	387,123	4,155,154		
F4. Third Prior Year	591,618	208,694	(463,290)	387,123	4,155,154	
F5. Fourth Prior Year	-	591,617	208,696	(463,288)	387,121	4,155,155
F6. Total Phase-Ins	724,145	4,879,298	4,287,683	4,078,989	4,542,275	4,155,155
<b>G. Actuarial Value of Assets End of Year</b>						
G1. Preliminary Actuarial Value of Assets End of Year:						
A+D+E3+F6	117,411,937	131,140,532				
G2. Upper Corridor Limit: 120%*B	142,295,478	177,845,561				
G3. Lower Corridor Limit: 80%*B	94,863,652	118,563,707				
G4. Actuarial Value of Assets End of Year	117,411,937	131,140,532				
H. Difference between Market & Actuarial Value of Assets	1,167,628	17,064,102				
<b>I. Actuarial Rate of Return</b>	7.6%	11.0%				
<b>J. Market Value Rate of Return</b>	8.7%	24.2%				
<b>K. Ratio of Actuarial Value of Assets to Market Value</b>	99.0%	88.5%				

Year Ending September 30th	Investment Rate of Return*	
	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
<b>Average Returns:</b>		
Lasts 5 Years	11.2 %	8.2 %
All Years	9.1 %	8.3 %

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

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

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.

## **SECTION D**

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### **FINANCIAL ACCOUNTING INFORMATION**

**FASB NO. 35 INFORMATION**

A. Valuation Date	October 1, 2021	October 1, 2020
B. Actuarial Present Value of Accumulated Plan Benefits		
1. Vested Benefits		
a. Members Currently Receiving Payments	\$ 126,143,617	\$ 117,370,427
b. Terminated Vested Members	122,335	118,234
c. Other Members	<u>35,985,581</u>	<u>36,508,090</u>
d. Total	162,251,533	153,996,751
2. Non-Vested Benefits	2,816,063	2,162,764
3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	165,067,596	156,159,515
4. Accumulated Contributions of Active Members	7,738,812	7,348,660
C. Changes in the Actuarial Present Value of Accumulated Plan Benefits		
1. Total Value at Beginning of Year	156,159,515	148,095,900
2. Increase (Decrease) During the Period Attributable to:		
a. Plan Amendment	0	(929,105)
b. Change in Actuarial Assumptions	0	2,295,729
c. Latest Member Data, Benefits Accumulated and Decrease in the Discount Period	18,115,910	15,511,757
d. Benefits Paid	<u>(9,207,829)</u>	<u>(8,814,766)</u>
e. Net Increase	8,908,081	8,063,615
3. Total Value at End of Period	165,067,596	156,159,515
D. Market Value of Assets (Net of COLA Reserve)	135,739,375	108,100,977
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,	2021	2020	2019	2018	2017
<b>Total Pension Liability</b>					
Service Cost	\$ 3,992,364	\$ 3,280,458	\$ 2,996,276	\$ 2,325,806	\$ 2,278,992
Interest	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	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	(8,072,538)	(8,584,372)	(8,543,520)	(8,424,033)	(8,142,089)
Refunds	(23,041)	(25,385)	(10,566)	(10,449)	(6,673)
<b>Net Change in Total Pension Liability</b>	<b>10,746,650</b>	<b>6,704,294</b>	<b>13,885,535</b>	<b>15,303,209</b>	<b>10,077,044</b>
<b>Total Pension Liability - Beginning</b>	<b>189,117,045</b>	<b>182,412,751</b>	<b>168,527,216</b>	<b>153,224,007</b>	<b>143,146,963</b>
<b>Total Pension Liability - Ending (a)</b>	<b>\$ 199,863,695</b>	<b>\$ 189,117,045</b>	<b>\$ 182,412,751</b>	<b>\$ 168,527,216</b>	<b>\$ 153,224,007</b>
<b>Plan Fiduciary Net Position</b>					
Contributions - Employer	\$ 7,798,004	\$ 6,941,701	\$ 6,452,812	\$ 4,374,387	\$ 5,721,499
Contributions - Employer (from State)	1,201,496	1,109,338	1,129,759	1,074,825	1,134,704
Contributions - Non-Employer Contributing Entity	-	-	-	-	-
Contributions - Member	1,242,141	1,119,504	1,044,994	991,333	903,846
Net Investment Income	30,223,771	10,124,131	4,988,434	8,602,179	10,685,983
Benefit Payments	(8,072,538)	(8,584,372)	(8,543,520)	(8,424,033)	(8,142,089)
Refunds	(23,041)	(25,385)	(10,566)	(10,449)	(6,673)
Administrative Expense	(141,002)	(141,002)	(160,131)	(111,297)	(146,391)
Other	-	-	-	160,328 *	-
<b>Net Change in Plan Fiduciary Net Position</b>	<b>32,228,831</b>	<b>10,543,915</b>	<b>4,901,782</b>	<b>6,657,273</b>	<b>10,150,879</b>
<b>Plan Fiduciary Net Position - Beginning</b>	<b>131,028,430</b>	<b>120,485,851</b>	<b>115,584,069</b>	<b>108,926,796</b>	<b>98,775,917</b>
<b>Plan Fiduciary Net Position - Ending (b)</b>	<b>\$ 163,257,261</b>	<b>\$ 131,029,766</b>	<b>\$ 120,485,851</b>	<b>\$ 115,584,069</b>	<b>\$ 108,926,796</b>
<b>Net Pension Liability - Ending (a) - (b)</b>	<b>36,606,434</b>	<b>58,087,279</b>	<b>61,926,900</b>	<b>52,943,147</b>	<b>44,297,211</b>
<b>Plan Fiduciary Net Position as a Percentage of Total Pension Liability</b>	<b>81.68 %</b>	<b>69.29 %</b>	<b>66.05 %</b>	<b>68.58 %</b>	<b>71.09 %</b>
<b>Covered Payroll</b>	<b>\$ 12,490,811</b>	<b>\$ 12,193,590</b>	<b>\$ 11,003,736</b>	<b>\$ 10,494,232</b>	<b>\$ 8,954,177</b>
<b>Net Pension Liability as a Percentage of Covered Payroll</b>	<b>293.07 %</b>	<b>476.38 %</b>	<b>562.78 %</b>	<b>504.50 %</b>	<b>494.71 %</b>

\* 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%



## NOTES TO SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY

### GASB Statement No. 67

Valuation Date:	October 1, 2020
Measurement Date:	September 30, 2021
Roll Forward Procedures:	The Total Pension Liability was developed by using standard actuarial techniques to roll forward amounts from the October 1, 2020 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, 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%.
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**SCHEDULE OF CONTRIBUTIONS**  
**GASB Statement No. 67**

FY Ending September 30,	Actuarially Determined Contribution	Actual Contribution	Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
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%





## NOTES TO SCHEDULE OF CONTRIBUTIONS

### GASB Statement No. 67

<b>Valuation Date:</b>	October 1, 2019
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.
<b>Methods and Assumptions Used to Determine Contribution Rates:</b>	
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percentage of Pay, Closed
Remaining Amortization Period	20 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	6.75%
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, 2019 Actuarial Valuation of the Florida Retirement System (FRS).
<b>Other Information:</b>	
Notes	See Section A in the October 1, 2019 Actuarial Valuation Report. Effective as of October 1, 2019, rates of retirement, withdrawal, salary increases, and mortality were changed. In addition, the investment return assumption was lowered from 7.00% to 6.75%.

## 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

1% Decrease	Current Single Discount Rate Assumption	1% Increase
5.625%	6.625%	7.625%
\$55,425,474	\$36,606,434	\$15,716,056

## **SECTION E**

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### **MISCELLANEOUS INFORMATION**

<b>RECONCILIATION OF MEMBERSHIP DATA</b>		
	<b>From 10/1/20 To 10/1/21</b>	<b>From 10/1/19 To 10/1/20</b>
<b>A. Active Members</b>		
1. Number Included in Last Valuation	149	141
2. New Members Included in Current Valuation	0	14
3. Non-Vested Employment Terminations	(2)	(5)
4. Vested Employment Terminations	0	0
5. DROP Retirement	(6)	(1)
6. Service Retirements	0	0
7. Disability Retirements	0	0
8. Deaths	0	0
9. Other - Transfer/Rehire	0	0
10. Number Included in This Valuation	<u>141</u>	<u>149</u>
<b>B. Terminated Vested Members</b>		
1. Number Included in Last Valuation	1	1
2. Additions from Active Members	0	0
3. Lump Sum Payments/Refund of Contributions	0	0
4. Payments Commenced	0	0
5. Deaths	0	0
6. Other - Rehire	0	0
7. Number Included in This Valuation	<u>1</u>	<u>1</u>
<b>C. DROP Plan Members</b>		
1. Number Included in Last Valuation	20	21
2. Addition from Active Members	6	1
3. Retirements	(3)	(2)
4. Deaths Resulting in No Further Payments	0	0
5. Other	0	0
6. Number Included in This Valuation	<u>23</u>	<u>20</u>
<b>D. Service Retirees, Disability Retirees and Beneficiaries</b>		
1. Number Included in Last Valuation	119	118
2. Additions from Active Members	0	0
3. Additions from DROP	3	2
4. Additions from Terminated Vested Members	0	0
5. Deaths Resulting in No Further Payments	0	(1)
6. Deaths Resulting in New Survivor Benefits	0	0
7. End of Certain Period - No Further Payments	0	0
8. Other - Data Correction	0	0
9. Number Included in This Valuation	<u>122</u>	<u>119</u>

**ACTIVE MEMBERS AS OF OCTOBER 1, 2021**

Age Group	Years of Service to Valuation Date										Totals
	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25 & Up	
20-24 NO	-	2	2	-	-	-	-	-	-	-	4
TOT PAY	-	120,913	124,064	-	-	-	-	-	-	-	244,977
AVG PAY	-	60,457	62,032	-	-	-	-	-	-	-	61,244
25-29 NO	-	1	2	7	7	4	-	-	-	-	21
TOT PAY	-	60,141	123,940	468,399	475,789	307,803	-	-	-	-	1,436,072
AVG PAY	-	60,141	61,970	66,914	67,970	76,951	-	-	-	-	68,384
30-34 NO	-	4	3	2	8	21	1	-	-	-	39
TOT PAY	-	244,199	187,170	137,394	558,058	1,657,301	109,076	-	-	-	2,893,198
AVG PAY	-	61,050	62,390	68,697	69,757	78,919	109,076	-	-	-	74,185
35-39 NO	-	2	1	2	4	7	9	7	-	-	32
TOT PAY	-	120,756	62,060	128,475	277,945	588,059	964,518	839,568	-	-	2,981,381
AVG PAY	-	60,378	62,060	64,238	69,486	84,008	107,169	119,938	-	-	93,168
40-44 NO	-	1	-	-	-	5	5	11	1	-	23
TOT PAY	-	61,490	-	-	-	395,342	527,580	1,214,826	99,254	-	2,298,492
AVG PAY	-	61,490	-	-	-	79,068	105,516	110,439	99,254	-	99,934
45-49 NO	-	-	-	-	-	1	1	12	1	-	15
TOT PAY	-	-	-	-	-	68,760	112,246	1,293,506	100,061	-	1,574,573
AVG PAY	-	-	-	-	-	68,760	112,246	107,792	100,061	-	104,972
50-54 NO	-	-	-	1	-	-	1	3	-	-	5
TOT PAY	-	-	-	68,682	-	-	100,971	324,810	-	-	494,463
AVG PAY	-	-	-	68,682	-	-	100,971	108,270	-	-	98,893
55-59 NO	-	1	-	-	-	-	-	-	-	-	1
TOT PAY	-	171,755	-	-	-	-	-	-	-	-	171,755
AVG PAY	-	171,755	-	-	-	-	-	-	-	-	171,755
60-64 NO	-	1	-	-	-	-	-	-	-	-	1
TOT PAY	-	149,167	-	-	-	-	-	-	-	-	149,167
AVG PAY	-	149,167	-	-	-	-	-	-	-	-	149,167
65 & Up NO	-	-	-	-	-	-	-	-	-	-	-
TOT PAY	-	-	-	-	-	-	-	-	-	-	-
AVG PAY	-	-	-	-	-	-	-	-	-	-	-
TOT NO	-	12	8	12	19	38	17	33	2	-	141
TOT AMT	-	928,421	497,234	802,950	1,311,792	3,017,265	1,814,391	3,672,710	199,315	-	12,244,078
AVG AMT	-	77,368	62,154	66,913	69,042	79,402	106,729	111,294	99,658	-	86,837



**INACTIVE MEMBERS AS OF OCTOBER 1, 2021**

Age	<u>Terminated Vested</u>		<u>Disabled</u>		<u>Retired</u>		<u>Beneficiaries</u>		<u>Grand Total</u>	
	Number	Total Benefits	Number	Total Benefits	Number	Total Benefits	Number	Total Benefits	Number	Total 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	-	1	71,507	0	-	1	71,507
45 - 49	0	-	0	-	7	610,721	1	17,081	8	627,802
50 - 54	0	-	0	-	18	1,383,903	0	-	18	1,383,903
55 - 59	0	-	1	41,011	34	2,561,657	0	-	35	2,602,668
60 - 64	0	-	2	74,070	24	1,724,405	0	-	26	1,798,475
65 - 69	0	-	0	-	23	1,675,132	1	36,766	24	1,711,898
70 - 74	0	-	1	25,040	13	843,555	2	32,819	16	901,414
75 - 79	0	-	0	-	7	296,355	3	60,360	10	356,715
80 - 84	0	-	0	-	1	20,868	0	-	1	20,868
85 - 89	0	-	0	-	0	-	1	12,157	1	12,157
90 - 94	0	-	0	-	1	11,153	0	-	1	11,153
95 - 99	0	-	0	-	0	-	1	12,245	1	12,245
100 & Over	0	-	0	-	0	-	0	-	0	-
<b>Total</b>	<b>1</b>	<b>28,716</b>	<b>4</b>	<b>140,121</b>	<b>129</b>	<b>9,199,256</b>	<b>12</b>	<b>184,649</b>	<b>146</b>	<b>9,552,742</b>
<b>Average Age</b>		<b>37</b>		<b>64</b>		<b>62</b>		<b>62</b>		<b>62</b>



## **SECTION F**

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### **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 25<sup>th</sup> 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 1<sup>st</sup> 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<sup>th</sup> 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 1<sup>st</sup> 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 25<sup>th</sup> 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<sup>th</sup> 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 25<sup>th</sup> 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 25<sup>th</sup> 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<sup>th</sup> 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.