

# West Palm Beach Police Pension Fund

ANNUAL ACTUARIAL VALUATION AS OF SEPTEMBER 30, 2022





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**REPORT OF SEPTEMBER 30, 2022 ACTUARIAL VALUATION**

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March 21, 2023

Board of Trustees  
West Palm Beach Police Pension Fund  
West Palm Beach, Florida

**Re: West Palm Beach Police Pension Fund  
Actuarial Valuation as of September 30, 2022**

The results of the September 30, 2022 Annual Actuarial Valuation of the West Palm Beach Police Pension Fund (the Plan) are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Plan and those designated or approved by the Board. This report may be provided to parties other than the Plan 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 Plan's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2024, and to determine the actuarial information for GASB Statement No. 67 for the fiscal year ending September 30, 2022. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section B of this report. This report includes risk metrics in Section A but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data or other information through September 30, 2022. The valuation was based upon information furnished by the Plan Administrator concerning Pension Fund benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

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

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

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

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.

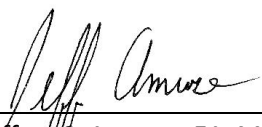
The signing actuaries are independent of the plan sponsor.


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   
Jeffrey S. Amrose, EA, MAAA  
Enrolled Actuary No. 20-6599

By   
Trisha Amrose, EA, MAAA  
Enrolled Actuary No. 20-8010



## **SECTION A**

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**VALUATION RESULTS, COMMENTS, CONCLUSION,  
RECOMMENDATIONS, ACTUARIAL EXPERIENCE AND ACCRUED  
LIABILITIES**

## ***FUNDING OBJECTIVE***

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The funding objective for the defined benefit provisions of the Pension Fund is to establish and receive contributions, expressed as percents of active member payroll, which will remain approximately level from year to year and will not have to be increased for future generations of citizens in the absence of benefit changes. This objective is stated in the Pension Fund special act and meets the requirements of Part VII, Chapter 112, Florida Statutes and Chapter 185 Florida Statutes.

## ***CONTRIBUTION RATES***

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The defined benefit provisions of the Pension Fund are supported by member contributions, City contributions, Chapter 185 revenue (for fiscal years beginning October 1, 2011, October 1, 2012, and October 1, 2014), and investment income from Pension Fund assets.

The Share Accounts are supported by Chapter 185 receipts and investment income. No Share Plan allocations were made for fiscal years ending September 30, 2011, September 30, 2012, and September 30, 2014. Individual Share and DROP Accounts may accept accumulated leave paid out at termination up to the amount permitted by law.

Contributions which satisfy the funding objective are determined by the annual actuarial valuation and are sufficient to:

- (1) cover the actuarial costs allocated to the current year (normal cost) by the actuarial cost methods described in Section C; and
- (2) finance over a period of future years the actuarial costs not covered by present assets and anticipated future normal costs (unfunded actuarial accrued liability).

***Contribution requirements*** for the plan year beginning October 1, 2023 are shown on page A-2. It is anticipated that the contribution will be paid to the Fund during the Plan and Fiscal year beginning October 1, 2023.



## CONTRIBUTIONS NEEDED TO FINANCE DEFINED BENEFITS OF THE PENSION FUND

Defined Benefit Contributions for	Contributions Expressed as Percents of UnDROPed Payroll(1)		Contributions Expressed as Percents of Payroll Including DROP	
	October 1, 2023	October 1, 2022	October 1, 2023	October 1, 2022
<b>For Fiscal Year Beginning</b>				
Normal Cost:				
Service pensions	23.66 %	23.20 %	19.18 %	19.70 %
Disability pensions	1.87	1.86	1.52	1.58
Survivor pensions				
Pre-retirement	0.30	0.30	0.24	0.25
Post-retirement	1.91	2.40	1.55	2.04
Termination benefits:				
Deferred service pensions	1.33	1.30	1.08	1.10
Refunds of member contributions	0.76	0.76	0.62	0.65
<b>Total Normal Cost</b>	<b>29.83</b>	<b>29.82</b>	<b>24.19</b>	<b>25.32</b>
Unfunded Actuarial Accrued Liability (UAAL):				
Retired members and beneficiaries	0.00	0.00	0.00	0.00
Active and vested terminated members	11.86	3.59	9.61	3.04
<b>Total UAAL</b>	<b>11.86</b>	<b>3.59</b>	<b>9.61</b>	<b>3.04</b>
Administrative Expenses (net of charges to Share and DROP accounts)				
	1.32	1.16	1.07	0.98
<b>Total Calculated Contribution Requirement</b>	<b>43.01 %</b>	<b>34.57 %</b>	<b>34.87 %</b>	<b>29.34 %</b>
Adjustments to Calculated Contribution Requirement:				
Temporary full funding credit	0.00	0.00	0.00	0.00
FS112.64(5) compliance	0.00	0.17	0.00	0.15
<b>Total adjustments</b>	<b>0.00</b>	<b>0.17</b>	<b>0.00</b>	<b>0.15</b>
<b>Total Adjusted Contribution Requirement:</b>	<b>43.01 %</b>	<b>34.74 %</b>	<b>34.87 %</b>	<b>29.49 %</b>
Member portion	11.00 %	11.00 %	8.91 %	9.34 %
Chapter 185 portion	0.00 %	0.00 %	0.00 %	0.00 %
City portion	32.01 % <sup>(2)</sup>	23.74 %	25.96 %	20.15 %
Expected Covered Payroll for Contribution Year	25,176,432	24,649,746	31,069,581	29,029,297
City Contribution Requirement Paid Quarterly	8,058,978	5,851,852	8,058,978	5,851,852
City Contribution Requirement Paid at				
Beginning of Fiscal Year	7,790,908	5,657,198	7,790,908	5,657,198
Use of Contribution Stabilization Reserve (3)	1,992,280	N/A	1,992,280	N/A
Net City Contribution Requirement Paid at				
Beginning of Fiscal Year	5,798,628	5,657,198	5,798,628	5,657,198

Unfunded actuarial accrued liability is financed as a level percent of member payroll. Please refer to page A-11 for a schedule of financing periods.

FS 112.64 requires City contributions to be deposited not less frequently than quarterly. Member contributions, which are in addition to City contributions, must be deposited immediately after each pay period. Chapter 185 monies must be deposited within 5 days of receipt from the State.

**Procedures for determining dollar contribution amounts** are shown on page A-3.

(1) Please refer to page A-3 for an explanation.

(2) This amount is reduced to 30.95% of covered UnDROPed payroll if the contribution is made on October 1, 2023.

(3) Please refer to page B-7 for the determination of the offset due to the application of the Contribution Stabilization Reserve.





## ***DETERMINING CITY DOLLAR CONTRIBUTIONS***

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For any period of time, the percent-of-payroll contribution rate needs to be converted to dollar amounts. We recommend the following procedure.

Contribute \$6,066,698. This amount is derived from the City portion of the contribution rate on page A-2. The unDROPed payroll was increased by a factor of 1.068254 (1.045<sup>1.5</sup>) to reflect projected payroll growth to the fiscal year during which the contribution will be made.

The above contribution amount was calculated on the basis of contributions being made in a manner which is financially equivalent to making one-quarter of the contribution at the mid-point of each calendar quarter. If contributions are made on a later schedule, interest should be added at the rate of 0.57% (.0057) for each month of delay. If 100% of the City's contribution is made on an earlier schedule, the City's contribution requirement may be reduced. For an October 1, 2023 contribution date, the City's contribution requirement is \$5,798,628.

The actual employer contribution received during the fiscal year ending September 30, 2022 was \$5,354,106. The actuarially determined minimum required contribution, reflecting an October 1, 2021 payment date, was \$5,354,106. Based on this, the City required contribution has been met for the fiscal year ending September 30, 2022.



## **FUNDING PROGRESS INDICATORS**

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There is no single all-encompassing measure of a pension fund's funding progress and current funded status.

A traditional measure has been the relationship of the funding value of assets to unfunded actuarial accrued liability -- a measure that is influenced by the choice of actuarial cost method. This relationship is shown on page A-12.

**We believe a better understanding** of funding progress and status can be achieved using the following measures which are less dependent on the actuarial cost method.

*Indicator (1) **Gains or losses realized in the operation of the pension fund.*** Gains and losses are expected to cancel each other over a period of years but sizable year to year fluctuations are common. Further details on the derivation of the gain (loss) are shown on page A-10.

*Indicator (2) **The ratio of valuation assets to the accrued liability.*** The ratio is expected to increase but the trend may be interrupted by actuarial losses and benefit improvements.

*Indicator (3) **The ratio of the unfunded accrued liability to member payroll.*** The ratio is expected to decrease but the trend may be interrupted by actuarial losses and benefit improvements.

**FUNDING PROGRESS INDICATORS - HISTORICAL SCHEDULE**  
**(\$ AMOUNTS IN THOUSANDS)**

Valuation Date September 30	Indicator 1 Gain (Loss)	Indicator 2			Indicator 3		
		Funding Value of Assets	AAL	Funded Ratio	Unfunded AAL	Member Payroll#	Ratio to Payroll
1995 (a)	7,969	65,446	68,466	95.6 %	3,020	8,942	33.8
1996	3,801	75,829	75,233	100.8	(596)	8,813	(6.8)
1997	11,915	97,029	84,212	115.2	(12,817)	9,255	(138.5)
1998 (a)	(2,055)	106,055	95,292	111.3	(10,763)	10,974	(98.1)
1999	1,317	117,800	106,614	110.5	(11,186)	11,753	(95.2)
2000	1,307	127,732	116,825	109.3	(10,907)	12,645	(86.3)
2001	(1,194)	130,913	121,161	108.0	(9,752)	14,174	(68.8)
2002	(20,340)	121,789	132,426	92.0	10,637	15,589	68.2
2003 (a)	(6,970)	126,420	145,824	86.7	19,403	17,355	111.8
2004 (a)	(8,290)	128,623	153,354	83.9	24,731	17,834	138.7
2005	(1,394)	139,646	165,387	84.4	25,740	17,853	144.2
2006	(1,345)	154,408	182,231	84.7	27,823	18,391	151.3
2007	18,832	187,332	200,536	93.4	13,204	19,543	67.6
2008	(8,914)	191,001	209,842	91.0	18,841	21,394	88.1
2009	(11,643)	193,614	224,471	86.3	30,858	21,264	145.1
2010	(6,545)	197,179	235,148	83.9	37,969	19,830	191.5
2011 (a)	(14,464)	193,879	254,617	76.1	60,737	19,142	317.3
2012 (a)	(3,649)	206,006	272,724	75.5	66,718	16,575	402.5
2013 (a)	3,186	225,469	289,949	77.8	64,479	16,819	383.4
2014 (a)	3,621	245,070	305,376	80.3	60,306	17,461	345.4
2015 (a)	2,094	313,182	322,692	97.1	9,510	19,210	49.5
2016 (a)	(622)	335,208	342,892	97.8	7,684	20,369	37.7
2017 (a)	(567)	352,552	366,391	96.2	13,839	21,910	63.2
2018 (a)	(118)	371,296	390,387	95.1	19,091	23,793	80.2
2019 (a)	(785)	389,635	414,553	94.0	24,918	24,216	102.9
2020 (a)	8,356	410,350	427,593	96.0	17,243	23,193	74.3
2021 (a)	12,321	485,339	496,343	97.8	11,004	23,075	47.7
<b>2022</b>	<b>(26,803)</b>	<b>487,066</b>	<b>524,687</b>	<b>92.8</b>	<b>37,621</b>	<b>23,568</b>	<b>159.6</b>

(a) After changes in benefit provisions and/or actuarial assumptions and/or actuarial cost methods.

(b) Before changes in benefit provisions and/or actuarial assumptions and/or actuarial cost methods.

# Excludes DROP participants.

AAL represents actuarial accrued liability



## **COMMENTS AND CONCLUSION**

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### **COMMENT A**

The results as of September 30, 2021 are from the Supplemental Actuarial Valuation Report dated June 24, 2022 which reflects the benefit provision change under House Bill 929. Under this plan amendment, the 3% benefit multiplier was restored for all years of service between October 1, 2011 to October 1, 2017 for members who retire (including entry into the DROP) after the effective date of May 6, 2022.

There were no changes in actuarial assumptions or methods since the previous valuation.

### **COMMENT B**

The funded ratio this year is 92.8% compared to 97.8% last year. The funded ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

### **COMMENT C**

The activities of the Pension Fund and its members generated an experience loss of \$26,803,273 during the plan year ended September 30, 2022. Please refer to pages B-6, B-17, C-4, C-5, and C-6 for additional experience information. The primary source of the actuarial loss was investment earnings less than expected. The investment return for the FYE 2022 on the actuarial (smoothed) value of assets was 1.2% compared to the assumed rate of 7%. The investment return on the market value of assets for FYE 2022 was -16.4%. In addition to the investment losses, there were losses caused by greater than expected salary increases.

Currently the actuarial value of assets, which is used to determine the contribution requirements and funded ratios for the Fund, is greater than the market value by 15%, or \$61.8 million (see page B-6). This means that 25% of the significant investment loss from the current fiscal year will be recognized each year from 2023 to 2025. The recognition of this loss will put upward pressure on the contribution requirements and downward pressure on the funded ratios in those years. If this loss were fully recognized on September 30, 2022, the City contribution would increase by 19.11% of covered payroll to 51.12% of covered payroll (\$12,870,192 if made quarterly or \$12,442,084 if made on October 1, 2023), and the funded ratio would decrease from 92.8% to 81.1%.

### **COMMENT D**

Another potential area of variability has to do with the annual payment on the unfunded accrued liability (UAL). This payment is computed as a level percent of covered payroll under the assumption that covered payroll will rise by 2.5% per year. According to the Florida Statutes, this payroll growth assumption may not exceed the average growth over the last ten years which is 3.58%. Amortizing the UAL as a level percent of payroll using a 0% payroll growth assumption instead of a 2.5% payroll growth assumption would have caused the required contribution to increase by approximately \$655,000.

### **COMMENT E**

The value of the Contribution Stabilization Reserve is \$16,585,000 as of September 30, 2022. Page A-2 shows the net Required City Contribution for FYE 2024 reflecting the application of the Contribution Stabilization Reserve pursuant to the Board's Funding Policy. The determination of the offset due to the application of the Contribution Stabilization Reserve is shown on page B-7.

### **CONCLUSION**

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



## ***RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION***

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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 A-2 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.



## **RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

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### **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 payroll	17.65	20.58
Ratio of actuarial accrued liability to payroll	21.78	21.04
Ratio of actives to retirees and beneficiaries	0.8	0.9
Ratio of net cash flow to market value of assets	-2.32 %	-2.13 %

### **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.

This risk metric is elevated in this Plan compared to other plans, which indicates that investment experience will cause a more significant amount of volatility in the City contribution rate than in other plans with a lower ratio.

### **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.



## ***RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION***

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### **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.

**EXPERIENCE GAIN (LOSS) FOR  
YEAR ENDED SEPTEMBER 30, 2022  
(DEFINED BENEFIT)**

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(1) UAAL at start of year	\$ 11,004,141
(2) Normal cost for year (ER normal cost and expenses x unDROPEd pay)	4,610,365
(3) Actual City Contribution	5,354,106
(4) Interest accrual [(1) + 1/2 x (2) - (3)] x 7.00%	556,865
(5) Expected UAAL before changes (1) + (2) - (3) + (4)	10,817,265
(6) Effect of assumption/method changes	0
(7) Effect of benefit changes	0
(8) Supplemental pension distribution	0
(9) Expected UAAL after changes (5) + (6) + (7) + (8)	10,817,265
(10) Actual UAAL at end of year	37,620,538
(11) Gain/(Loss) (9) - (10)	(26,803,273)
(12) Gain/(Loss) Due to Investments	(20,591,284)
(13) Gain/(Loss) Due to Other Sources	(6,211,989)

UAAL represents unfunded actuarial accrued liability.





## ***SOURCES AND FINANCING OF UNFUNDED ACTUARIAL ACCRUED LIABILITY***

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Source of Unfunded Act. Accrued Liab.	Initial Amount	Current Amount	Remaining Financing Period	Amortization Payment	% of Payroll Contribution
Combined unfunded actuarial accrued liability at October 1, 2021					
9/30/2021	8,152,630	7,961,645	16 yrs.	688,085	2.86%
Changes from experience deviations (20 year initial financing period)					
9/30/2022	26,803,273	26,803,273	20	1,997,442	8.29%
Changes from amendments (30 year initial financing period)					
9/30/2021	2,851,511	2,855,620	29	172,238	0.71%
		<b><u>\$ 37,620,538</u></b>		<b><u>\$ 2,857,765</u></b>	<b><u>11.86%</u></b>

**UNFUNDED ACTUARIAL ACCRUED LIABILITY**

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	<b>9/30/2022</b>	<b>9/30/2021</b>
A. Actuarial present value of future benefits including Share Account balances, DROP Account balances, Supplemental Pension Distribution reserve, and Contribution Stabilization Reserve	\$ 585,311,321	\$ 552,243,449
B. Actuarial present value of future normal costs	<u>60,624,287</u>	<u>55,900,706</u>
C. Actuarial accrued liability	524,687,034	496,342,743
D. Funding value of assets	<u>487,066,496</u>	<u>485,338,602</u>
E. Unfunded actuarial accrued liability	<u>\$ 37,620,538</u>	<u>\$ 11,004,141</u>

**RECOMMENDED AND ACTUAL CONTRIBUTIONS FOR DEFINED BENEFITS  
HISTORICAL SCHEDULE**

Fiscal Year	Valuation Date 9/30	City Dollar Contributions		Recommended City Percent of Payroll Contribution Rates
		Recommended	Actual *	
82/83	1981	\$ 777,053	\$ 818,769	23.93 %
83/84 (a)	1982	865,930	944,636	22.86
84/85	1983	913,867	990,862	21.50
85/86 (a)	1984	961,431	1,113,735	21.52
86/87	1985	986,683	1,190,205	20.53
87/88 (a)	1986	1,210,379	1,585,161 (1)	20.74 #
88/89 (a)	1987	1,423,887	1,627,024	22.01 #
89/90	1988	1,723,519	1,937,986	23.28
90/91	1989	1,929,004	2,264,201	24.01
91/92	1990	2,127,589	1,658,885 @	24.80
92/93	1991	2,219,809	2,117,441 @	24.11
93/94	1992	2,257,412	2,235,881 @	23.42
94/95 (a)	1993	2,238,679	2,213,297 @	23.81
95/96 (a)	1994	2,446,700	2,446,256 @	25.91
96/97 (a)	1995	2,332,069	2,332,069	24.24
97/98	1996	2,230,247	1,747,540 @	23.52
98/99	1997	1,764,510	1,764,510	17.72
99/00 (a)	1998	1,462,965	1,483,807	12.39
00/01	1999	1,474,445	1,487,320	11.66
01/02	2000	1,699,292	1,699,815	12.49
02/03	2001	1,974,891	1,975,410	12.95
03/04	2002	3,498,786	3,498,068	20.86
04/05 (a)	2003	4,197,731	4,197,731	22.48
05/06 (a)	2004	3,799,257	3,799,257	19.80
06/07	2005	3,812,530	3,812,530	20.65
07/08	2006	4,056,590	4,056,590	21.49
08/09	2007	3,433,646	3,433,646	16.99
09/10	2008	4,057,571	4,057,571	17.63
10/11	2009	5,028,968	5,028,968	21.98
11/12 (a)	2010	4,796,575	4,796,576	27.15
12/13 (a)	2011	6,506,923	6,506,923	31.82
13/14 (a)	2012	8,941,538	8,941,538	50.50
14/15 (a)	2013	8,644,805	8,644,805	48.30
15/16 (a)	2014	9,726,454	9,726,454	52.14
16/17 (a)	2015	3,285,065	3,285,065	15.91
17/18 (a)	2016	3,131,968	3,556,968	14.39
18/19 (a)	2017	4,363,006	4,363,006	18.64
19/20 (a)	2018	5,240,652	5,240,652	20.62
20/21 (a)	2019	5,935,584	5,935,584	22.95
21/22 (a)	2020	5,354,106	5,354,106	21.61
22/23 (a)	2021	5,657,198		22.95
<b>23/24</b>	<b>2022</b>	<b>7,790,908</b>		<b>30.95</b>

(b) Before changes in benefit provisions and/or actuarial assumptions and/or actuarial cost methods.

(a) After changes described in (b).

# Recomputed to reflect 1988 Amendments to the Special Act.

(1) Including compliance issue City contribution receivable of \$267,441 from 87/88 fiscal year.

@ Excluding the difference between recommended and actual which was transferred from the reserve for prepaid contributions.

\* The actual contributions were made throughout the fiscal year prior to October 1, 2006. Since then, the actual contributions are made at the beginning of the fiscal year, resulting in the adjustment from the corresponding recommended contributions.



## ***NOTES TO HISTORICAL CONTRIBUTIONS SCHEDULE***

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**9/30/1998 Valuation:** Effective October 1, 1999, increase from 2.5% to 3.0% multiplier for service after March 31, 1987, increase from 6.45% to 7.0% member contributions, and increase the minimum from 7.0% to 8.25% investment return for the 13<sup>th</sup> check threshold.

**9/30/2001 Valuation:** First report to use a 4-year smoothed market value asset valuation method.

**9/30/2002 Valuation:** Removed Share Accounts from smoothed market value.

**9/30/2003 Valuation:** First report to include minimum 66 2/3% of pay for Duty Death in service. Investment expenses removed from Contribution requirement. Removed DROP Accounts from smoothed market value.

**9/30/2004 Valuation:** The member contribution rate for pensions will increase to 9% of salary effective January 1, 2005, to 10.0% of salary effective January 1, 2006, and to 11.0% of salary effective January 1, 2007. Overtime includable in Final Average Salary was prospectively limited to 400 hours per year.

**9/30/2010 Valuation:** The Chapter 185 revenue of \$996,459 received during calendar year 2011 will be used to offset the required contribution for the fiscal year beginning October 1, 2011.

**9/30/2011 Valuation:** The Chapter 185 revenue received during calendar year 2012 will be used to offset the required contribution for the fiscal year beginning October 1, 2012. The benefit multiplier for service accrued after September 30, 2011 was lowered from 3.00% to 2.68%. Effective January 1, 2013, the limit on the amount of overtime that is included in pensionable compensation is lowered from 400 hours to 300 hours. The investment return assumption was lowered from 8.25% to 8.00%, along with additional changes in actuarial assumptions as a result of the Ten-Year Experience Study Report covering the period October 1, 2000 through September 30, 2010.

**9/30/2012 Valuation:** This valuation reflects the second year of phasing in the recognition of the mortality table change from the 1983 Group Annuity Mortality Table to the RP-2000 Combined Healthy Participant Mortality Table using Scale AA after 2000 to reflect future mortality improvements.

**9/30/2013 Valuation:** This valuation reflects the third year of phasing in the recognition of the mortality table change detailed above.

**9/30/2014 Valuation:** This valuation reflects the fourth year of phasing in the recognition of the mortality table change detailed above.

**9/30/2015 Valuation:** This valuation reflects the fifth and final year of phasing in the recognition of the mortality table change detailed above.



## ***NOTES TO HISTORICAL CONTRIBUTIONS SCHEDULE***

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**9/30/2016 Valuation:** The investment return assumption was lowered from 8.00% to 7.875%. The mortality assumption was changed from the RP-2000 Combined Healthy Participant Mortality Table for males and females with mortality improvements projected to all future years after 2000 using Scale AA to the mortality assumption used by the Florida Retirement System (FRS) for Special Risk Class members in the actuarial valuation as of July 1, 2016.

**9/30/2017 Valuation:** The investment return assumption was lowered from 7.875% to 7.75%. The Special Act was amended by increasing the benefit multiplier from 2.68% to 3.00% for Credited Service earned on or after October 1, 2017.

**9/30/2018 Valuation:** The investment return assumption was lowered from 7.75% to 7.625%.

**9/30/2019 Valuation:** The investment return assumption was lowered from 7.625% to 7.50%.

**9/30/2020 Valuation:** The investment return assumption was lowered from 7.50% to 7.25%. The mortality assumption was changed from the mortality assumption used by the Florida Retirement System (FRS) for Special Risk Class members in the FRS actuarial valuation as of July 1, 2018 to the mortality assumption used by the FRS for Special Risk Class members in the FRS actuarial valuation as of July 1, 2019, as mandated by Florida Statutes Chapter 112.63(1)(f).

**9/30/2021 Valuation:** The investment return assumption was lowered from 7.25% to 7.00%. The Funding Value of Assets was set equal to the market value. A Supplemental Pension Distribution of \$19,516,400 was determined for the fiscal year ending September 30, 2021 based on the Plan's accumulated gain position as of September 30, 2021. A Contribution Stabilization Reserve of \$15,500,000 was established. The Unfunded Actuarial Accrued Liability (UAAL) amortization bases were combined and offset, in accordance with the methodology described for combining and offsetting amortization bases under Internal Revenue Code Section 412(b). In addition, the Plan was amended in accordance with House Bill 929, which was signed into law. Under this plan amendment, the 3% benefit multiplier was restored (from 2.68%) for all years of service between October 1, 2011 to October 1, 2017 for members who retire (including entry into the DROP) after the effective date of May 6, 2022.



## ACTUARIAL BALANCE SHEET - SEPTEMBER 30, 2022

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### Present Resources And Expected Future Resources

A. Funding Value of Plan Assets	
Funding Value of Assets	\$ 352,261,426
Share Accounts	64,416,396
DROP Accounts	<u>70,388,674</u>
Total Assets	487,066,496
B. Actuarial Present Value of Expected Future Employer Contributions:	
1. For Normal Costs	38,166,930
2. For UAAL	<u>37,620,538</u>
3. Total	75,787,468
C. Actuarial Present Value of Expected Future Member Contributions	<u>22,457,357</u>
D. Total Present and Expected Future Resources	<u><u>\$ 585,311,321</u></u>

### Actuarial Present Value of Expected Future Benefit Payments and Reserves

A. To retirees and beneficiaries	\$ 238,547,394
B. To vested terminated members	4,313,586
C. To present active members:	
1. Allocated to service rendered prior to valuation date	110,919,584
2. Allocated to service likely to be rendered after valuation date	<u>60,624,287</u>
3. Total	171,543,871
D. Total actuarial present value of expected future benefit payments	414,404,851
E. Reserve for Chapter 185 Share Accounts	64,416,396
F. Reserve for Supplemental Pension Distribution	19,516,400
G. Reserve for DROP balances	70,388,674
H. Contribution Stabilization Reserve	<u>16,585,000</u>
I. Total actuarial present value of expected future payments and reserves	<u><u>\$ 585,311,321</u></u>



## **SECTION B**

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### **SUMMARY OF BENEFIT PROVISIONS AND VALUATION DATA SUBMITTED BY THE PENSION FUND**

## **SUMMARY OF BENEFIT PROVISIONS** **(SEPTEMBER 30, 2022)**

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### **Normal Retirement:**

**Eligibility** - 25 or more years of continuous service; or, 55 years of age with 10 or more years of service; or, 50 years of age with 20 or more years of service.

**Amount of Pension** - 2.5% of final average salary times credited service earned through March 31, 1987; plus 3.0% of final average salary times credited service earned after March 31, 1987, for service up to 26 years; plus 1% of final average salary times credited service in excess of 26 years.

**Type of Final Average Salary** - Average of salary for 3 best years. Salary excludes lump sum payments for accumulated leave and contractual overtime. Other overtime is limited to 400 hours per year effective January 1, 2005. This limit is reduced to 300 hours starting January 1, 2013.

**Post-Retirement Cost-of-Living Adjustments** - Each January 1 following attainment of age 65, benefits will be adjusted by 3% of the base amount providing the cost of living, as measured by the Consumer Price Index, has increased at least 3%.

### **Early Retirement:**

**Eligibility** - 50 years of age with 10 or more years of service.

**Amount of Pension** - Computed as normal retirement reduced 3% for each year retirement precedes normal retirement age.

### **Deferred Retirement:**

**Eligibility** - 10 or more years of credited service.

**Amount of Pension** - Computed as normal or early retirement, based upon FAS and service credit at date of termination. Payment begins upon application on or after age 50.

### **Duty Disability Retirement:**

**Eligibility** - Permanent disability preventing useful and efficient service as a police officer, which was acquired as a consequence of performing the duties of a police officer.

**Amount of Pension** - The amount of accrued normal retirement pension, with a minimum benefit of 2/3 of FAS. At age 55, the member has the option to convert to the accrued benefit, computed as the normal retirement benefit but with additional service credit granted to age 55.



## **SUMMARY OF BENEFIT PROVISIONS** **(SEPTEMBER 30, 2022)**

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### **Non-Duty Disability:**

**Eligibility** - Requires total and permanent disability and 5 or more years of service.

**Amount of Pension** - If disability retirement occurs after normal retirement eligibility, the amount of pension is the accrued normal retirement pension. Otherwise, the amount of pension is computed as for normal retirement with a minimum benefit of 25% of FAS if credited service is 10 or more years; otherwise, the minimum is 20% of FAS.

### **Duty Death:**

**Eligibility** - Death which is the result of performance of duty.

**Amount of Pension** – 2/3 of the member's highest 12 consecutive months salary or the current top step police officer pay, whichever is greater.

### **Non-Duty Death:**

**Eligibility** - Death after 5 or more years of credited service.

**Amount of Pension** - 2/3 of pension member would have received had he retired the day before death, to the widow for life. Minimum benefit is 1/7 of FAS. If no widow, unmarried children under 18 receive equal shares of above amount.

### **Death After Retirement:**

**Amount of Pension** - 2/3 of deceased retired member's annual pension to widow for life. If no widow, unmarried children under 18 receive equal shares of above amount.

If retired member is unmarried, there is no eligible child (or parent), and death occurs within 10 years of retirement, the pension is continued to the designated beneficiary for the balance of the 10 year period following retirement.

Optional forms of payment are available on an "equivalent actuarial value" basis to the 10 year certain and life form of payment.

**Member Contributions:** 7% of salary. Member contributions will increase to 9% of salary effective January 1, 2005, to 10% of salary effective January 1, 2006 and to 11% of salary effective January 1, 2007. Effective October 1, 2011, the member contribution rate is increased to 18%, and Chapter 185 revenue received in calendar years 2011 and 2012 is used to reduce member contributions to 11%. If the Chapter 185 revenue is not sufficient to reduce the member contributions to 11%, then the City makes up the difference. Effective October 1, 2013, the member contribution rate is increased to 20%, and Chapter 185 revenue received in calendar year 2013 will be used to reduce member contributions to 11%. If the Chapter 185 revenue is not sufficient to reduce the member contributions to 11%, then the City will make up the difference. Effective October 1, 2014, the member contribution rate is lowered back to 11%. Interest is not credited to member contributions.



## **SUMMARY OF BENEFIT PROVISIONS** **(SEPTEMBER 30, 2022)**

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**Premium Tax Monies:** Casualty insurance premium tax monies collected by the State and distributed pursuant to Chapter 185, Florida Statutes.

**Chapter 185 Share Accounts:** Effective October 1, 1988, separate accounts were established for each member of the Pension Fund. The accounts are funded by premium tax monies and are credited with net investment earnings after deduction of expenses. Members may elect interest at the Fund's investment return or a fixed return equal to 4% or 8% depending on the Fund's investment earnings from fiscal year ending September 30, 2012. The accounts may also be funded by accumulated leave paid out at termination up to the amount permitted by law.

Share accounts will not receive any allocation of Chapter 185 revenue during fiscal years ending September 30, 2011, September 30, 2012, and September 30, 2014. Effective with the fiscal year ending September 30, 2015, Chapter 185 revenue will again be allocated to the Share Plan accounts.

**City Contributions:** Actuarially determined amounts which together with member contributions are sufficient to cover the requirements of the funding objective stated on page A-1.

### **Deferred Retirement Option Plan (DROP):**

**Eligibility** - Any member who is eligible to receive a normal retirement pension may participate in the DROP. Participation shall cease after the earlier of 5 years in the DROP or 30 years of service.

**Amount of Pension** - Calculated as if the member had elected to retire on the date of election to participate in the DROP, using credited service and final average salary at the date of election. The payments will be accumulated in an account and be credited with investment earnings. Members may elect interest at the Fund's investment return or a fixed return equal to 4% or 8% depending on the Fund's investment earnings from fiscal year ending September 30, 2012. Disbursements from the account are deferred until termination of employment.

**Member Contributions** - Cease following election to participate in the DROP. Accumulated leave paid out at termination may be contributed up to the amount permitted by law.

**Post-Retirement Supplemental Pension Distribution:** The Board of Trustees may make a supplemental distribution each April 1 from net accumulated experience from all sources, if any, to the extent of investment earnings in excess of 7% (to a 2% excess) for hires before April 1, 1987 and in excess of 8% (to a 1% excess) for hires after March 31, 1987 plus one-half of investment earnings in excess of 9%, if any, for all hires, applied to the actuarial present value of pensions being paid to retired members and beneficiaries.



**ACCOUNTING INFORMATION SUBMITTED FOR VALUATION**

**REVENUES AND EXPENDITURES**

	Year Ended 9/30/22	Year Ended 9/30/21
<b>REVENUES:</b>		
a. Member contributions	\$ 2,871,212	\$ 2,647,132
b. Buyback contributions	174,140	0
c. City contributions	5,354,106	5,935,584
d. Chapter 185 revenue	1,814,266	1,597,683
e. Prepaid contribution	0	0
f. Transfers to Plan for Share and DROP accounts	387,837	689,406
g. Investment income		
1. Interest, dividends and other income	8,846,361	6,955,238
2. Net appreciation	(57,033,914)	89,035,648
3. Investment expenses	<u>(1,299,356)</u>	<u>(1,298,830)</u>
4. Net investment income	(49,486,909)	94,692,056
h. Total revenues	\$ (38,885,348)	\$ 105,561,861
<b>EXPENDITURES:</b>		
a. Refunds of member contributions	233,429	262,973
b. Benefits paid	14,243,528	13,003,722
c. Lump-Sum share account distributions	2,379,806	2,262,164
d. DROP account distributions	3,867,725	4,382,046
e. Supplemental pension distribution	0	0
f. Administrative expenses	<u>436,123</u>	<u>367,760</u>
g. Total expenditures	21,160,611	20,278,665
<b>RESERVE INCREASE:</b>		
<b>Total revenues minus total expenditures</b>	<b>\$ (60,045,959)</b>	<b>\$ 85,283,196</b>

## ACCOUNTING INFORMATION SUBMITTED FOR VALUATION

### SUMMARY OF ASSETS

	Market Value	
	9/30/22	9/30/21
Cash & cash equivalents	\$ 12,634,151	\$ 4,965,031
Prepaid contribution	0	0
Payables	(1,104,695)	(654,531)
Receivables	3,304,451	1,112,546
Prepaid expenses	1,430,259	1,396,618
Bonds - government/domestic	27,375,676	42,944,725
- corporate	4,920,337	4,656,833
Stocks - domestic	78,423,445	104,777,287
- international	0	0
Mutual Funds - domestic	144,441,086	162,583,468
- international	66,403,701	87,669,336
Real Estate	86,144,009	74,895,170
Mortgage backed securities	0	0
Participant Loans	1,101,091	788,756
Accrued investment income	219,132	203,363
<b>Total Assets</b>	<b>\$ 425,292,643</b>	<b>\$ 485,338,602</b>



**DERIVATION OF FUNDING VALUE OF ASSETS**  
**(BEFORE SETTING FUNDING VALUE OF ASSETS EQUAL TO MARKET VALUE AS OF SEPTEMBER 30, 2022)**

	2022
<b><u>Beginning of Year Values</u></b>	
(1) Market Value	\$485,338,602
Market Value net of Share/DROP Accounts	356,560,284
(2) Funding Value	485,338,602
Funding Value net of Share/DROP Accounts	356,560,284
<b><u>End of Year</u></b>	
(3) Market Value net of Share/DROP Accounts	290,487,573
(4) Net Addition to Assets	
Excluding Investment Income,	(8,373,714)
Chapter 185 and DROP Cash Flows	
(5) Total Investment Income net of Share/DROP Accounts and Expenses = (3) - (1) - (4)	(57,698,997)
(6) Projected Net Rate of Return	7.00%
(7) Projected Investment Income = (6) x [(2) + 0.5 x (4)]	24,666,140
(8) Investment Income in Excess of Projected Excess Investment Income Recognized	(82,365,137)
(9a) From Current Year = 0.25 x (8)	(20,591,284)
(9b) From One Year Prior	N/A
(9c) From Two Years Prior	N/A
(9d) From Three Years Prior	N/A
(9e) Total Cap. Val. Change Recogn. = (9a) + (9b) + (9c) + (9d)	(20,591,284)
(10) Increase(Decr.) in Funding Value = (4) + (7) + (9e)	(4,298,858)
<b><u>End of Year</u></b>	
(11) Market Value	\$425,292,643
Market Value net of Share/DROP Accounts	290,487,573
(12) Funding Value	487,066,496
Funding Value net of Share/DROP Accounts	352,261,426
(13) Rate of Return on Funding Value net of Share/DROP Accounts	1.2%
(14) Rate of Return on Market Value net of Share/DROP Accounts	(16.4)%
(15) Ratio of Funding Value to Market Value	115%



## RECONCILIATION OF THE RESERVE ACCOUNT BALANCES

	Share	DROP	Total
A. Beginning of Year Reserve	\$ 62,460,463	\$66,317,855	\$128,778,318
B. Disbursements	(2,379,806)	(3,867,725)	(6,247,531)
C. Net Additions/Adjustments	1,450,428	2,611,767	4,062,195
D. Investment Earnings	<u>2,885,311</u>	<u>5,326,777</u>	<u>8,212,088</u>
E. End of Year Reserve (A + B + C + D)	<b>\$64,416,396</b>	<b>\$70,388,674</b>	<b>\$134,805,070</b>

Reconciliation of Contribution Stabilization Reserve	
Balance at 9/30/2021	\$ 15,500,000
Amount Used in FYE 9/30/2022	- 0
Interest on Balance	<u>+ 1,085,000</u>
Balance at 9/30/2022	16,585,000

Use of Contribution Stabilization Reserve to Offset Required Contribution for FYE 2024 Pursuant to Funding Policy	
A. Use of Contribution Stabilization Reserve needed to have Required Contribution increase by 2.5% from prior year	\$ 1,992,280
B. 20% of Contribution Stabilization Reserve	3,317,000
C. Funded value of Contribution Stabilization Reserve at 9/30/2023	2,027,495
D. Maximum amount of Contribution Stabilization Reserve to use for FYE 2024 (Minimum of A, B and C)	\$ 1,992,280

Based on the Board's Funding Policy, the amount of the Contribution Stabilization Reserve used to offset the Required City Contribution is the lesser of (a) The amount needed to have the Required City Contribution increase by 2.5% from the prior year; (b) 20% of the available Contribution Stabilization Reserve; and (c) funded value of the Contribution Stabilization Reserve.

**DETERMINATION OF FIXED INTEREST CREDITING RATE  
FOR DROP AND SHARE PLAN ACCOUNTS**

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Under the Special Act, the fixed rate on DROP accounts for members who enter the DROP on or after October 1, 2012 and on Share Plan accounts for members who are vested is 8.00% per year. However, if the amount paid in investment earnings creates a deficiency as compared to the gross earnings of the fund from fiscal year ending September 30, 2012, then the rate will be reduced to 4% effective the following October 1 until the deficiency is satisfied. The DROP accounts for members who are in the DROP as of October 1, 2012 continue to earn 8.25% per year.

(a)	Gross rate of market investment return for fiscal year ending*	
	9/30/12	18.43%
	9/30/13	13.74%
	9/30/14	9.53%
	9/30/15	0.69%
	9/30/16	8.77%
	9/30/17	14.01%
	9/30/18	10.19%
	9/30/19	2.40%
	9/30/20	7.03%
	9/30/21	24.33%
	9/30/22	(9.82)%
(b)	Cumulative return from fiscal year ending 9/30/12 through 9/30/22	149.4%
(c)	Return needed from fiscal year ending 9/30/12 to maintain 8% fixed interest crediting rate	133.2%
(d)	Difference between actual return since fiscal year ending 9/30/12 and return based on 8% per year: (b) - (c)	16.2%
(e)	Actual fixed interest crediting rate for DROP/Share Plan accounts for 10/1/22 through 9/30/23	8.0% **
(f)	Minimum gross rate of market investment return 10/1/22 through 9/30/23 to provide 8.00% fixed interest crediting rate for 10/1/23 through 9/30/24	1.0%

\* As determined by the Investment Consultant.

\*\* Members in the DROP as of October 1, 2012 will continue to earn 8.25% per year.



***CALCULATION OF SUPPLEMENTAL PENSION  
DISTRIBUTION AMOUNT - SEC. 17(12) AS OF SEPTEMBER 30, 2022***

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<b>Factor (i):</b>	Actuarial present value of future payments to 164 pension recipients* on 9/30/22 using valuation investment return assumption	\$103,460,522
<b>Factor (ii):</b>	(a) Rate of market investment return 10/1/21 through 9/30/22 calculated by actuary	(9.8)% **
	(b) Lesser of (a) and 8.00%	(9.8)%
<b>Preliminary Distribution Amount (prior to experience gain limitation):</b>		
	Factor (i) x [Factor (ii) - 7.0%]	(17,381,368)
<b>Amount Available for Distribution:</b>		
	(a) Unamortized Balances of Accumulated net experience gains (page B-11)	1,248,987
	(b) Unamortized Balances of Accumulated distributions @ (page B-11)	22,008,944
	(c) Accumulated net gains less accumulated distributions [(a) - (b)] < 0	0
	(d) Amount available for distribution#	0

\* Pensioners who retired before October 1, 1999 plus those with 12.5 years of service as of October 1, 1999 who terminated employment after October 1, 1999.

@ This amount does **not** include the supplemental pension distribution, if any, for the current year.

# The lesser of the preliminary distribution amount and accumulated net gains less accumulated distributions, not less than \$0.

\*\* Return of the total pension fund before investment expenses.





**CALCULATION OF SUPPLEMENTAL PENSION  
DISTRIBUTION AMOUNT - SEC. 17(12) AS OF SEPTEMBER 30, 2022**

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<b>Factor (i):</b>	Actuarial present value of future payments to 300 pension recipients (all pensioners) on 9/30/22 using 7.0% interest set by Special Act	\$238,547,394
<b>Factor (ii):</b>	(a) Rate of market investment return 10/1/21 through 9/30/22 calculated by actuary	(9.8)% *
	(b) Excess of (a) over 9%, if positive, otherwise zero.	0.0%
	(c) 1/2 of (b)	0.00%
<b>Factor (iii):</b>	(a) Net rate of market investment return 10/1/21 through 9/30/22 calculated by actuary	(9.8)%
	(b) Lesser of (a) and 9%	(9.8)%
<b>Preliminary Distribution Amount (prior to experience gain limitation):</b>		
	Factor (i) x [Factor (ii) + ((Factor (iii) - 8.00%)]	\$0
<b>Amount Available for Distribution:</b>		
	(a) Unamortized Balances of Accumulated net experience gains (page B-11)	1,248,987
	(b) Unamortized Balances of Accumulated distributions @ (page B-11)	22,008,944
	(c) Accumulated net gains less accumulated distributions [(a) - (b)] < 0	0
	(d) Amount available for distribution#	0

@ This amount does **not** include the supplemental pension distribution, if any, for the current year.

# The lesser of the preliminary distribution amount and accumulated net gains less accumulated distributions, including any supplemental pension distributions for the current year determined on page B-6 of this report.

\* Return of the total pension fund before investment expenses.



**SUPPLEMENTAL PENSION DISTRIBUTION  
ACCUMULATED GAIN (LOSS) LIMITATION**

Year Ended September 30	Experience Gain/(Loss)*		Addition to Supplemental Pension Distribution Reserve		Net Unamort. Balance
	For Year	Unamort. Balance	For Year	Unamort. Balance	
1992	\$ 2,690,102	\$ 2,690,102	\$ 237,777	\$ 237,777	\$ 2,452,325
1993	2,897,258	5,658,917	374,365	614,282	5,044,635
1994	(2,192,085)	3,597,634	0	617,542	2,980,092
1995	7,969,009	11,641,571	508,437	1,127,456	10,514,115
1996	3,801,172	15,703,104	625,973	1,756,172	13,946,932
1997	11,915,022	27,958,649	671,448	2,430,738	25,527,911
1998	(2,054,604)	26,513,470	795,633	3,227,980	23,285,490
1999	1,317,262	27,209,332	1,210,681	4,453,115	23,303,374
2000	1,306,848	28,753,737	1,005,600	5,475,473	23,278,264
2001	(1,194,305)	27,729,286	0	5,487,451	22,241,835
2002	(20,340,405)	7,449,284	0	5,478,365	1,970,919
2003	(6,969,923)	204,562	0	5,445,433	(5,240,871)
2004	(8,289,567)	(8,507,096)	0	5,385,592	(13,892,688)
2005	(1,393,874)	(10,472,274)	0	5,295,375	(15,767,649)
2006	(1,344,886)	(12,442,674)	0	5,171,008	(17,613,682)
2007	18,831,566	6,588,529	1,580,142	6,588,529	0
2008	(8,914,445)	(2,080,609)	0	6,400,898	(8,481,507)
2009	(11,642,886)	(15,238,314)	0	6,161,238	(21,399,552)
2010	(6,544,967)	(22,737,844)	0	5,863,350	(28,601,194)
2011	(14,463,674)	(38,291,884)	0	5,500,590	(43,792,474)
2012	(3,649,317)	(42,618,248)	0	5,394,429	(48,012,677)
2013	3,185,651	(40,099,567)	0	5,262,805	(45,362,372)
2014	3,620,537	(37,263,884)	0	5,103,868	(42,367,752)
2015	2,093,970	(36,107,628)	0	4,914,514	(41,022,142)
2016	(621,595)	(40,971,323)	0	4,691,395	(45,662,718)
2017	(567,465)	(42,686,410)	0	4,431,961	(47,118,371)
2018	(118,171)	(43,951,336)	0	4,132,360	(48,083,696)
2019	(784,721)	(41,021,670)	0	3,788,961	(44,810,631)
2020	8,355,556	(28,451,874)	0	3,397,182	(31,849,056)
2021	52,971,707 **	28,639,367	19,516,400	22,469,570	6,169,797
<b>2022</b>	<b>(26,803,273)</b>	<b>1,248,987</b>	<b>0</b>	<b>22,008,944 @</b>	<b>(20,759,957)</b>
<b>Projected</b>					<b>(82,533,810)</b>

\* All sources.

@ This amount is composed of \$22,008,944 for unamortized balances of prior supplemental pension distributions and \$0 for the current year supplemental pension distribution.

\*\* Includes the recognition of \$40,650,800 of deferred investment gains as of September 30, 2021 due to the fresh start method change.



**RECONCILIATION OF MEMBERSHIP  
FOR THE PLAN YEAR ENDED SEPTEMBER 30, 2022**

	Active Members	Vested Terminated Members	Pension Recipients			
			Active DROP	Service Retired	Disability Retired	All Beneficiaries
No. at Start of Year	261	11	30	195	21	35
Increase (Decrease) From						
Service Retirement	(1)		(5)	6		
DROP Retirement	(17)		17			
Disability Retirement	(3)				3	
Deaths/Benefit Stopped				(2)		(1)
New Beneficiaries						1
Vested Terminations	(1)	1				
Non-Vested Terminations	(6)					
New Entrants/Rehires	15					
<b>No. at End of Year</b>	<b>248</b>	<b>12</b>	<b>42</b>	<b>199</b>	<b>24</b>	<b>35</b>



**ACTIVE MEMBERS NOT PARTICIPATING IN THE DROP**  
**AS OF SEPTEMBER 30, 2022**  
**BY NEAR AGE AND YEARS OF SERVICE**

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 +	
20-24 NO.	1	3	1	0	0	0	0	0	0	0	5
TOT PAY	61,961	180,160	63,419	0	0	0	0	0	0	0	305,540
AVG PAY	61,961	60,053	63,419	0	0	0	0	0	0	0	61,108
25-29 NO.	7	6	9	1	9	3	0	0	0	0	35
TOT PAY	431,298	385,838	603,217	75,522	650,919	214,174	0	0	0	0	2,360,968
AVG PAY	61,614	64,306	67,024	75,522	72,324	71,391	0	0	0	0	67,456
30-34 NO.	5	9	2	2	5	22	1	0	0	0	46
TOT PAY	322,957	574,181	138,967	137,974	374,732	1,794,189	111,626	0	0	0	3,454,626
AVG PAY	64,591	63,798	69,484	68,987	74,946	81,554	111,626	0	0	0	75,101
35-39 NO.	1	3	0	3	6	18	14	4	0	0	49
TOT PAY	59,011	184,147	0	211,251	448,045	1,512,124	1,567,680	460,639	0	0	4,442,897
AVG PAY	59,011	61,382	0	70,417	74,674	84,007	111,977	115,160	0	0	90,671
40-44 NO.	0	1	2	0	1	11	6	19	4	0	44
TOT PAY	0	66,082	139,737	0	63,979	974,938	621,251	2,306,970	500,532	0	4,673,489
AVG PAY	0	66,082	69,869	0	63,979	88,631	103,542	121,419	125,133	0	106,216
45-49 NO.	0	1	1	0	2	2	5	10	21	0	42
TOT PAY	0	59,741	64,718	0	145,374	171,039	552,279	1,173,841	2,719,499	0	4,886,491
AVG PAY	0	59,741	64,718	0	72,687	85,520	110,456	117,384	129,500	0	116,345
50-54 NO.	0	0	0	0	0	1	2	7	12	0	22
TOT PAY	0	0	0	0	0	68,429	190,390	839,382	1,585,901	0	2,684,102
AVG PAY	0	0	0	0	0	68,429	95,195	119,912	132,158	0	122,005
55-59 NO.	0	0	0	0	0	0	0	1	2	0	3
TOT PAY	0	0	0	0	0	0	0	115,914	282,531	0	398,445
AVG PAY	0	0	0	0	0	0	0	115,914	141,266	0	132,815
60-64 NO.	0	0	0	2	0	0	0	0	0	0	2
TOT PAY	0	0	0	361,280	0	0	0	0	0	0	361,280
AVG PAY	0	0	0	180,640	0	0	0	0	0	0	180,640
TOT NO.	14	23	15	8	23	57	28	41	39	0	248
TOT AMT	875,227	1,450,149	1,010,058	786,027	1,683,049	4,734,893	3,043,226	4,896,746	5,088,463	0	23,567,838
AVG AMT	62,516	63,050	67,337	98,253	73,176	83,068	108,687	119,433	130,473	0	95,032

Averages

Age: 38.6 years.  
Service: 10.4 years.



**RETIRED AND BENEFICIARY MEMBERS AS OF SEPTEMBER 30, 2022**  
**BY ATTAINED AGES**

Attained Ages	Age and Service Retired Members & DROP		Disability Retired Members		Surviving Beneficiaries		Totals	
	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions
Under 20								
20 - 24								
25 - 29								
30 - 34								
35 - 39					1	58,140	1	58,140
40 - 44			4	271,407	1	76,121	5	347,528
45 - 49	4	400,969	3	209,041	1	31,865	8	641,875
50 - 54	49	4,131,161	9	427,915			58	4,559,076
55 - 59	35	2,409,699	3	125,657	4	144,892	42	2,680,248
60 - 64	52	3,714,908	3	164,243	3	135,297	58	4,014,448
65 - 69	39	2,623,861			4	105,981	43	2,729,842
70 - 74	28	1,305,505	2	73,192	5	117,604	35	1,496,301
75 - 79	19	865,509			6	139,560	25	1,005,069
80 - 84	9	362,546			5	118,475	14	481,021
85 - 89	4	101,035			3	44,638	7	145,673
90 - 94	1	16,913			2	32,837	3	49,750
95 - 99	1	19,347					1	19,347
100 and Over								
<b>Totals</b>	<b>241</b>	<b>\$ 15,951,453</b>	<b>24</b>	<b>\$ 1,271,455</b>	<b>35</b>	<b>\$1,005,410</b>	<b>300</b>	<b>\$ 18,228,318</b>

Averages

Age: 64.0 years.  
Annual Benefit: \$60,761



**VESTED TERMINATED MEMBERS AS OF SEPTEMBER 30, 2022**  
**BY ATTAINED AGES**

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Attained Ages	Vested Terminated Members	
	No.	Estimated Annual Pensions
Under 20		
20 - 24		
25 - 29		
30 - 34	1	21,138
35 - 39	1	33,493
40 - 44	1	18,570
45 - 49	9	305,426
50 and Over		
<b>Totals</b>	<b>12</b>	<b>\$ 378,627</b>

Averages

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Age: 45.5 years

Annual Benefit: \$31,552

## NUMBER ADDED TO AND REMOVED FROM ACTIVE MEMBERSHIP

Year Ended 9/30	Number Added		Terminations During Year										Active Members End of Year
	During Year		Normal/Early Retirement		Disability Retirement		Died-in Service		Withdrawals				
	A	E	A	E	A	E	A	E	Vested	Other	Total		
	A	E	A	E	A	E	A	E	A	A	A	E	
1994	3	11	9	1.1	0	0.8	0	0.3	0	2	2	5.9	207
1995	18	14	8	1.2	0	0.7	0	0.2	1	5	6	5.3	211
1996	13	18	11	3.3	0	0.6	0	0.2	0	7	7	6.1	206
1997	22	16	3	1.0	3	0.7	0	0.2	2	8	10	6.1	212
1998	20	9	5	2.5	0	0.6	2	0.2	1	1	2	10.0	223
1999	14	12	4	2.6	0	0.7	0	0.2	2	6	8	10.7	225
2000	28	6	3	1.7	0	0.7	0	0.2	0	3	3	6.9	247
2001	20	13	4	1.3	1	0.7	0	0.2	0	8	8	8.4	254
2002	11	14	8	2.7	2	0.8	0	0.2	0	4	4	8.3	251
2003	12	8	4	1.3	0	0.8	0	0.2	1	3	4	7.6	255
2004	16	12	9	5.6	0	0.8	1	0.3	0	2	2	7.0	259
2005	15	18	10	8.3	0	0.8	0	0.3	0	8	8	6.7	256
2006	24	28	13	6.2	0	0.8	0	0.3	0	15	15	6.5	252
2007	38	10	3	4.3	1	0.9	0	0.3	1	5	6	7.1	280
2008	18	23	7	5.9	2	0.8	0	0.3	0	14	14	9.4	275
2009	11	23	8	6.1	0	0.8	0	0.3	5	10	15	8.4	263
2010	13	22	13	6.0	1	0.8	0	0.3	2	6	8	6.7	254
2011	8	13	7	4.7	1	0.8	0	0.3	1	4	5	6.3	249
2012	2	37	30	12.1	2	0.6	0	0.2	0	5	5	5.5	214
2013	12	11	4	2.4	2	0.6	0	0.2	2	3	5	4.3	215
2014	18	12	4	3.2	1	0.6	0	0.1	1	6	7	4.5	221
2015	24	4	1	2.5	0	0.7	1	0.1	1	1	2	5.3	241
2016	19	10	7	4.2	1	0.7	1	0.1	0	1	1	6.6	250
2017	12	9	4	2.9	1	0.8	0	0.2	1	3	4	7.0	253
2018	28	12	3	4.1	1	0.9	1	0.2	1	6	7	6.9	269
2019	12	17	8	8.3	3	0.8	0	0.2	0	6	6	8.0	264
2020	19	19	9	9.3	0	0.8	0	0.2	3	7	10	7.2	264
2021	27	30	10	11.7	2	0.7	1	0.2	3	14	17	7.2	261
<b>2022</b>	<b>15</b>	<b>28</b>	<b>18</b>	<b>13.5</b>	<b>3</b>	<b>0.6</b>	<b>0</b>	<b>0.2</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>7.7</b>	<b>248</b>
5-Year Totals													
2018 - 2022	101	106	48	46.9	9	3.8	2	1.0	8	39	47	37.0	
Expected for													
2023				12.2		0.5		0.1				7.1	

A represents actual number.

E represents expected number.



## SECTION C

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### **ACTUARIAL COST METHOD, ACTUARIAL ASSUMPTIONS AND DEFINITIONS OF TECHNICAL TERMS**



## **ACTUARIAL COST METHOD**

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The actuarial cost method is a procedure for allocating the actuarial present value of benefits and expenses to time periods. The method used for your valuation is known as the individual entry-age actuarial cost method, and has the following characteristics:

- (i) The annual normal costs for each individual active member are sufficient to accumulate the value of the member's pension at time of retirement or DROP.
- (ii) Each annual normal cost is a constant percentage of the member's year by year projected pensionable compensation.

The entry-age actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's pensionable compensation between the entry age of the member and the assumed active status exit ages. This is based on our understanding of the approach preferred by the Florida Division of Retirement. The portion of the actuarial present value allocated to the valuation year is called the normal cost. The portion of the actuarial present value not provided for by the actuarial present value of future normal costs is called the actuarial accrued liability. Deducting accrued assets from the actuarial accrued liability determines the unfunded actuarial accrued liability. The unfunded actuarial accrued liability was financed as a level percent of member payroll. Please refer to page A-11 for a schedule of financing periods. The amortization period is 20 years for experience gains and losses and 30 years for assumption changes and plan amendments.

The characteristics of this method of financing the unfunded actuarial accrued liability are shown on page C-2.

The active member payroll was assumed to increase by 2.50% a year for the purpose of determining the level percent amortization payments. According to FS 112.64(5), this assumption may not exceed the average payroll growth over the last ten years, which was 3.58%.

**LEVEL PERCENT OF ACTIVE MEMBER PAYROLL AMORTIZATION  
OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES\*  
(AMORTIZATION SCHEDULE \$ AMOUNTS IN THOUSANDS)**

Year	UnDROPEd Pay		Unfunded		Contribution	
	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars
2022	\$23,568	\$23,568	\$37,621	\$37,621	\$2,858	\$3,485
2023	24,157	23,568	37,261	36,352	2,929	3,485
2024	24,761	23,568	36,801	35,028	3,002	3,485
2025	25,380	23,568	36,233	33,646	3,078	3,485
2026	26,014	23,568	35,546	32,203	3,154	3,485
2027	26,665	23,568	34,730	30,697	3,233	3,485
2032	30,169	23,568	28,307	22,113	3,658	3,485
2037	34,133	23,568	16,616	11,473	4,139	3,485
2042	38,619	23,568	2,107	1,286	282	225
2047	43,693	23,568	1,174	633	319	225
2052	49,435	23,568	0	0	0	225

* \$	0	over 30 years	\$	0	over 15 years
	2,855,620	over 29 years		0	over 14 years
	0	over 28 years		0	over 13 years
	0	over 27 years		0	over 12 years
	0	over 26 years		0	over 11 years
	0	over 25 years		0	over 10 years
	0	over 24 years		0	over 9 years
	0	over 23 years		0	over 8 years
	0	over 22 years		0	over 7 years
	0	over 21 years		0	over 6 years
	26,803,273	over 20 years		0	over 5 years
	0	over 19 years		0	over 4 years
	0	over 18 years		0	over 3 years
	0	over 17 years		0	over 2 years
	7,961,645	over 16 years		0	over 1 year
			<b>\$ 37,620,538</b>		<b>TOTAL</b>

Level percent-of-payroll financing of unfunded actuarial accrued liabilities treats each generation of taxpayers equally during the financing period. The alternative, level-dollar financing, produces declining percent-of-payroll contributions and places a greater relative burden on current taxpayers.

The annual rate of increase in member payroll used to compute the level percent-of-payroll contribution is the same rate of base payroll growth used to compute actuarial liabilities and costs. It reflects across-the-board salary increases, not group size increases.

If future payroll growth is less than the assumed rate due to smaller than projected salary increases, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to decline.

If future payroll growth is less than the assumed rate due to decreases in the number of members, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to increase but dollar contributions will be less than indicated in the preceding schedule.



## ***ACTUARIAL ASSUMPTIONS USED FOR THE VALUATION***

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Funding objective contribution requirements and actuarial present values are calculated by applying estimates of future Fund activities (actuarial assumptions) to the benefit provisions and people information of the Pension Fund, using the actuarial cost method described on page C-1.

The principal areas of risk which require estimates of future Fund activities are:

- (i) rates of inflation impacting assets of the Pension Fund
- (ii) long-term rates of investment return to be generated by the assets of the Pension Fund
- (iii) rates of salary increases to active members
- (iv) rates of mortality among members, retired members and beneficiaries
- (v) rates of withdrawal of active members
- (vi) rates of disability among active members
- (vii) rates of retirements due to age and service

In making a valuation, the monetary effect of each activity is calculated for as long as a present covered person survives – a period of time which can be as long as a century.

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Actual activities of the Pension Fund will not coincide exactly with estimated activities due to their nature. Each valuation provides a complete recalculation of estimated future activities and takes into account the effect of differences between estimated and actual activities to date. The result is a continual series of adjustments (usually small) to the computed contribution rate. From time to time one or more of the estimates are modified to reflect experience trends (but not random or temporary year to year fluctuations).

Both the economic and decrement assumptions were established following the Experience Study Report dated March 10, 2011 covering the ten-year period from October 1 2000, through September 30, 2010. The investment return assumption has been adjusted in accordance with subsequent analyses. 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.

The actuarial assumptions include an INFLATION rate, SALARY INCREASE rates and a REAL INVESTMENT RETURN rate. These assumptions are used, in combination with the other assumptions, to (i) determine the present value of amounts expected to be paid in the future and (ii) establish rates of contribution which are expected to remain relatively level as a percent of total member payroll.



The interest rate used in making this valuation was 7.00% a year, compounded yearly. It is composed of inflation and real investment return.

**RATES OF INFLATION.** 2.50% per annum, compounded annually. This is the rate at which growth in the supply of money and credit is estimated to exceed growth in the supply of goods and services. It may be thought of as the rate of depreciation of the purchasing power of the dollar. There are a number of indices for measuring the inflation rate. The recent inflation rate, as measured by the Consumer Price Index, has been:

	Year Ended September 30					5-Year Average
	2022	2021	2020	2019	2018	
Actual	8.2 %	5.4 %	1.4 %	1.7 %	2.3 %	3.8 %
Assumed	2.5	2.5	2.5	2.5	2.5	2.5

**RATES OF REAL INVESTMENT RETURN.** 4.50% per annum, compounded annually. This is the rate of return estimated to be produced by investing a pool of assets in an inflation-free environment. Recent real investment return on the funding value of assets (internal rate of return) has been:

	Year Ended September 30					5-Year Average
	2022	2021	2020	2019	2018	
Expected Rate of Return	7.00 %	7.25 %	7.50 %	7.625 %	7.75 %	7.43 %
Rate of Return (Pension Assets)	1.2	11.3	7.7	8.1	8.4	7.34
less inflation	8.2	5.4	1.4	1.7	2.3	3.80
Real Rate of Return	(7.0)	5.9	6.3	6.4	6.1	3.54
Assumed Real Rate of Return	4.50	4.75	5.00	5.125	5.25	4.93

The total investment return rate was computed using the approximate formula  $i = I$  divided by  $1/2 (A + B - I)$ , where  $I$  is actual ordinary investment income plus market value adjustments,  $A$  is the beginning of year funding value, and  $B$  is the end of year funding value.

The preceding investment return rates reflect the particular characteristics of this pension fund and should not be used to measure an investment advisor's performance or for comparison with other pension funds. Such use will usually mislead.

**RATES OF SALARY INCREASES.** Employee salaries are assumed to increase between the date of hire and date of retirement. Salary increases occur in recognition of (i) individual merit and seniority, (ii) inflation related depreciation of the purchasing power of salaries, and (iii) competition from other employers for personnel. A schedule of assumed rates of increases in individual salaries for sample ages follows:

Attributable to:	Annual Rates of Salary Increase for Sample Ages				
	20	30	40	50	60
Merit & Seniority	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %
General Increase in Wage Level Due to:					
Inflation	2.5	2.5	2.5	2.5	2.5
Other factors	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>
Total	5.0	5.0	5.0	5.0	5.0

The valuation is based on a constant group size and total payroll increasing at the rate of the general increase in wage levels due to inflation and other causes, which in this case is 5.0% a year.

A schedule of recent salary change experience, as measured by average reported pay, follows:

	Year Ended September 30					Average		
	2022	2021	2020	2019	2018	3-Year	5-Year	10-Year
% Change: Actual (1)	11.5 %	5.5 %	(0.3) %	5.2 %	6.9 %	5.6 %	5.8 %	5.5 %
Assumed (1)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
% Change in Total Payroll (2)	7.0	1.3	0.0	4.6	2.5	2.8	3.1	3.2

(1) Excluding termination and new members.

(2) Including pays of members electing DROP participation but still working.

In order to achieve the financial objective of a contribution rate which remains level as a percent of payroll, the rate of investment return (net of investment expenses) must exceed the rate of average increase in salaries by an amount equal to the estimated real investment return rate. The following schedule illustrates the recent history of the relationship between total investment return and average pay changes.

	Year Ended September 30					Average	
	2022	2021	2020	2019	2018	3-Year	5-Year
Net Rate of Investment Return (Pension Assets)	1.2 %	11.3 %	7.7 %	8.1 %	8.4 %	6.7 %	7.3 %
Rate of Change in Average Pay	11.5	5.5	(0.3)	5.2	6.9	5.6	5.8
Difference: Actual	(10.3)	5.8	8.0	2.9	1.5	1.1	1.5
Target	2.0	2.3	2.5	2.6	2.8	2.3	2.4

**RATES OF MORTALITY.** The PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2021 Actuarial Valuation of the Florida Retirement System (FRS), as required under Florida Statutes, Chapter 112.63. Sample values follow:

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

Sample Attained Ages (in 2022)	Probability of Dying Next Year		Future Life Expectancy (years)	
	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 Ages (in 2022)	Probability of Dying Next Year		Future Life Expectancy (years)	
	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 members dying before retirement. 50% of deaths before retirement were assumed to be duty related.

For disabled retirees, the mortality tables used were 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Male Table and 20% of the Headcount Weighted Safety Disabled Retiree Male Table, and 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Female Table and 20% Headcount Weighted Safety Disabled Retiree Female Table, both with no provision being made for future mortality improvements. These are the same rates used for Special Risk Class members in the July 1, 2021 Actuarial Valuation of the Florida Retirement System (FRS), as required under Florida Statutes, Chapter 112.63.

**FRS Disabled Mortality for Special Risk Class Members**

Sample Attained Ages	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

**RATES OF WITHDRAWAL from active membership.** The 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.

Sample Ages	Years of Service	% of Active Members Separating within Next Year
ALL	0	12.00 %
	1	9.00
	2	7.00
	3	5.00
	4	4.50
	5	3.50
	6	2.50
	7	1.50
	8	1.00
	9	0.50
25	10 & Over	1.00
30		1.00
35		1.00
40		1.00
45		1.00
50		1.00
55		1.00
60		1.00

**VESTED MEMBERS** who terminate with a benefit worth less than 100% of their own accumulated contributions were presumed to elect a refund of accumulated contributions and forfeit the vested benefit.



**RATES OF DISABILITY.** These rates represent the probabilities of active members becoming disabled.

Sample Ages	Percent Becoming Disabled within Next Year	
	Men	Women
20	0.15 %	0.06 %
25	0.18	0.10
30	0.20	0.15
35	0.29	0.27
40	0.42	0.39
45	0.65	0.57
50	1.05	0.91
55	1.84	1.54
60	3.06	2.21

The mortality table was set forward five years from the age at disability for projecting disability costs. 50% of disability retirements were projected to receive a pension not less than the minimum duty disability pension.

**RATES OF RETIREMENT.** These rates are used to measure the probabilities of eligible members retiring during the next year.

Number of Years After First Eligibility for Normal Retirement	Probability of Normal Retirement
0	45 %
1	35
2	35
3	35
4	100

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

**ASSET VALUATION.** Assets were included in the valuation using a 4-year smoothed market value effective September 30, 2001.

**ADMINISTRATIVE EXPENSES.** Administrative expenses were included in the calculated contribution requirement.

**INVESTMENT EXPENSES.** Investment expenses are offset against gross investment income.

**ACTIVE MEMBER GROUP SIZE.** The valuation was based on a constant active member group size. This is unchanged from previous valuations.

**MARRIAGE PROPORTION.** 90% of active members were assumed to be married. In each case the male was assumed to be 3 years older than the female.

**COST-OF-LIVING ADJUSTMENTS.** The post-retirement cost-of-living benefit is projected to occur at the maximum rate of 3% a year, following attainment of age 65.

**SALARY.** The actuarial valuation includes all amounts included in final average salary for benefit purposes.

## *SUMMARY OF ASSUMPTIONS USED*

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### **Pensions in an Inflationary Environment**

**Value of \$1,000/month Retirement Benefit  
to an Individual who Retires at Age 50  
in an Environment of 2.5% Inflation  
and a 3% simple annual COLA starting at age 65**

<u>Age</u>	<u>Value</u>
50	\$1,000
51	976
52	952
53	929
54	906
55	884
60	781
65	711
70	720
75	717
80	706
85	687

The life expectancy of a 50-year old male retiree is age 83. The life expectancy for a 50-year old female retiree is age 86. Approximately half of the people will outlive their life expectancy. The effects of even moderate amounts of inflation can be significant for those who live to an advanced age.

## ***SUMMARY OF ASSUMPTIONS USED***

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<b>Pay Increase Timing:</b>	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.
<b>Decrement Timing:</b>	Decrements of all types are assumed to occur mid-year.
<b>Eligibility Testing:</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>Benefit Service:</b>	Exact fractional service is used to determine the amount of benefit payable.
<b>Decrement Relativity:</b>	Decrement rates are used without adjustment for multiple decrement table effects.
<b>Normal Form of Benefit:</b>	The assumed normal form of benefit is the 66 2/3% joint and survivor form for married members and the 10-year certain and life for unmarried members.
<b>Loads:</b>	No loads were used.
<b>Incidence of Contributions:</b>	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. New entrant normal cost contributions are applied to the funding of new entrant benefits.

## ***DEFINITIONS OF TECHNICAL TERMS***

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**Accrued Service.** Service credited under the fund which was rendered before the date of the actuarial valuation.

**Actuarial Accrued Liability.** The difference between the actuarial present value of future benefit payments and the actuarial present value of future normal costs. Also referred to as “accrued liability” or “past service liability.”

**Actuarial Assumptions.** Estimates of expected future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement estimates (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic estimates (salary increases and investment income) consist of the underlying rates in an inflation-free environment plus a provision for a long-term average rate of inflation.

**Actuarial Cost Method.** A mathematical budgeting procedure for allocating the dollar amount of the “actuarial present value of future benefit payments” between future normal costs and actuarial accrued liabilities. Sometimes referred to as the “actuarial valuation cost method.”

**Actuarial Equivalent.** A single amount or series of amounts of equal actuarial present value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.

**Actuarial Present Value.** The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payment. Also referred to as “present value.”

**Amortization.** Paying off an interest-discounted amount with periodic payments of interest and principal -- as opposed to paying off with a lump sum payment.

**Experience Gain (Loss).** The difference between actual actuarial costs and assumed actuarial costs - during the period between two valuation dates.

**Funding Value of Assets.** Also referred to as actuarial value of assets, smoothed market value of assets, or valuation assets.

Valuation assets recognize assumed investment return fully each year. Differences between actual and assumed investment return are phased in over a closed 4-year period. During periods when investment performance exceeds the assumed rate, valuation assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, valuation assets will tend to be greater than market value. If assumed rates are exactly realized for 3 consecutive years, valuation assets will become equal to market value.



**Normal Cost.** The actuarial cost allocated to the current year by the actuarial cost method. Sometimes referred to as “current service cost.”

**Pension Benefit Obligation.** A standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases, estimated to be payable in the future as a result of employee service to date. The PBO is independent of the actuarial funding method used to determine contributions.

**Unfunded Actuarial Accrued Liability.** The difference between actuarial accrued liability and the funding value of assets. Sometimes referred to as “unfunded past service liability,” “unfunded accrued liability” or “unfunded supplemental present value.”

Most pension funds have unfunded actuarial accrued liability. It increases each time new benefits are added and each time an experience loss is realized.

The existence of unfunded actuarial accrued liability is not in itself bad, any more than a mortgage on a house is bad. Unfunded actuarial accrued liability does not represent a debt that is payable today. What is important is the ability to control the amount of unfunded actuarial accrued liability and the trend in its amount (after due allowance for devaluation of the dollar).

## **SECTION D**

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### **DISCLOSURES REQUIRED BY GOVERNMENTAL ACCOUNTING STANDARDS BOARD STATEMENT NO. 67**

This information is presented in draft form for review by the Plan's auditor. Please let us know if there are any items that the auditor changes so that we may maintain consistency with the Plan's financial statements.

**STATEMENT OF CHANGES IN THE EMPLOYER'S  
NET PENSION LIABILITY AND RELATED RATIOS  
(GASB STATEMENT NO. 67)**

Fiscal year ending September 30,	2022	2021	2020	2019	2018	2017	2016	2015	2014
<b>Total Pension Liability</b>									
Service Cost	\$ 6,369,952	\$ 6,132,849	\$ 6,248,573	\$ 5,950,838	\$ 4,969,598	\$ 4,465,713	\$ 4,119,566	\$ 3,720,389	\$ 3,553,404
Interest	31,879,437	32,083,247	30,656,907	29,213,639	27,649,993	26,458,916	25,142,553	23,790,608	22,792,357
Benefit Changes	3,178,061	-	-	-	2,595,355	-	-	-	-
Difference between actual & expected experience	21,461,831	(7,942,606)	1,972,997	2,559,101	2,535,765	335,340	264,885	439,779	294,048
Assumption Changes	9,749,489	(421,692)	4,439,753	4,539,371	3,904,405	5,183,638	2,275,600	2,221,969	-
Benefit Payments	(20,491,059)	(19,647,932)	(18,512,808)	(18,963,330)	(18,801,870)	(18,064,650)	(16,224,666)	(14,788,140)	(13,557,996)
Refunds	(233,429)	(262,973)	(206,949)	(152,950)	(225,759)	(25,530)	(93,453)	(60,567)	(168,503)
Other (DROP and Share Plan Adjustments)	2,202,103	2,287,089	1,773,794	1,613,818	2,765,374	2,237,938	1,683,012	2,110,393	84,844
<b>Net Change in Total Pension Liability</b>	<b>54,116,385</b>	<b>12,227,982</b>	<b>26,372,267</b>	<b>24,760,487</b>	<b>25,392,861</b>	<b>20,591,365</b>	<b>17,167,497</b>	<b>17,434,431</b>	<b>12,998,154</b>
<b>Total Pension Liability - Beginning</b>	<b>446,893,643</b>	<b>434,665,661</b>	<b>408,293,394</b>	<b>383,532,907</b>	<b>358,140,046</b>	<b>337,548,681</b>	<b>320,381,184</b>	<b>302,946,753</b>	<b>289,948,599</b>
<b>Total Pension Liability - Ending (a)</b>	<b>\$ 501,010,028</b>	<b>\$ 446,893,643</b>	<b>\$ 434,665,661</b>	<b>\$ 408,293,394</b>	<b>\$ 383,532,907</b>	<b>\$ 358,140,046</b>	<b>\$ 337,548,681</b>	<b>\$ 320,381,184</b>	<b>\$ 302,946,753</b>
<b>Plan Fiduciary Net Position</b>									
Contributions - Employer*	\$ 5,354,106	\$ 5,935,584	\$ 5,240,652	\$ 4,363,006	\$ 3,556,968	\$ 3,285,065	\$ 59,726,454	\$ 8,644,805	\$ 8,941,538
Contributions - Employer (from State)	1,814,266	1,597,683	1,611,609	1,483,310	1,455,967	1,333,046	1,259,981	1,212,205	1,100,113
Contributions - Non-Employer Contributing Entity	-	-	-	-	-	-	-	-	-
Contributions - Member (including buyback contributions)	3,045,352	2,647,132	2,806,839	2,787,968	2,679,979	2,427,068	2,336,635	2,154,131	1,927,618
Net Investment Income	(49,486,909)	94,692,056	25,816,070	9,669,966	33,555,721	44,494,434	21,229,525	1,873,520	22,389,189
Benefit Payments	(20,491,059)	(19,647,932)	(18,512,808)	(18,963,330)	(18,801,870)	(18,064,650)	(16,224,666)	(14,788,140)	(13,557,996)
Refunds	(233,429)	(262,973)	(206,949)	(152,950)	(225,759)	(25,530)	(93,453)	(60,567)	(168,503)
Administrative Expense	(436,123)	(367,760)	(304,417)	(336,885)	(319,039)	(308,777)	(288,017)	(266,916)	(337,907)
Other	387,837	689,406	162,185	130,508	1,309,407	904,892	423,031	898,188	370,252
<b>Net Change in Plan Fiduciary Net Position</b>	<b>(60,045,959)</b>	<b>85,283,196</b>	<b>16,613,181</b>	<b>(1,018,407)</b>	<b>23,211,374</b>	<b>34,045,548</b>	<b>68,369,490</b>	<b>(332,774)</b>	<b>20,664,304</b>
<b>Plan Fiduciary Net Position - Beginning</b>	<b>485,338,602</b>	<b>400,055,406</b>	<b>383,442,225</b>	<b>384,460,632</b>	<b>361,249,258</b>	<b>327,203,710</b>	<b>258,834,220</b>	<b>259,166,994</b>	<b>238,502,690</b>
<b>Plan Fiduciary Net Position - Ending (b)</b>	<b>\$ 425,292,643</b>	<b>\$ 485,338,602</b>	<b>\$ 400,055,406</b>	<b>\$ 383,442,225</b>	<b>\$ 384,460,632</b>	<b>\$ 361,249,258</b>	<b>\$ 327,203,710</b>	<b>\$ 258,834,220</b>	<b>\$ 259,166,994</b>
<b>Net Pension Liability - Ending (a) - (b)</b>	<b>75,717,385</b>	<b>(38,444,959)</b>	<b>34,610,255</b>	<b>24,851,169</b>	<b>(927,725)</b>	<b>(3,109,212)</b>	<b>10,344,971</b>	<b>61,546,964</b>	<b>43,779,759</b>
<b>Plan Fiduciary Net Position as a Percentage of Total Pension Liability</b>	<b>84.89 %</b>	<b>108.60 %</b>	<b>92.04 %</b>	<b>93.91 %</b>	<b>100.24 %</b>	<b>100.87 %</b>	<b>96.94 %</b>	<b>80.79 %</b>	<b>85.55 %</b>
<b>Covered Payroll**</b>	<b>\$ 26,101,927</b>	<b>\$ 24,064,836</b>	<b>\$ 24,972,409</b>	<b>\$ 25,098,209</b>	<b>\$ 23,929,891</b>	<b>\$ 21,679,436</b>	<b>\$ 20,603,955</b>	<b>\$ 18,805,018</b>	<b>\$ 17,446,782</b>
<b>Net Pension Liability as a Percentage of Covered Payroll</b>	<b>290.08 %</b>	<b>(159.76)%</b>	<b>138.59 %</b>	<b>99.02 %</b>	<b>(3.88)%</b>	<b>(14.34)%</b>	<b>50.21 %</b>	<b>327.29 %</b>	<b>250.93 %</b>

\* Employer contribution for FYE 9/30/2016 includes \$50,000,000 proceeds from pension obligation bond.

\*\* Covered Payroll was calculated based on actual member contributions for the fiscal year divided by the employee contribution rate.





**SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY  
(GASB STATEMENT NO. 67)**

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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
2014	\$ 302,946,753	\$ 259,166,994	\$ 43,779,759	85.55%	\$ 17,446,782	250.93%
2015	320,381,184	258,834,220	61,546,964	80.79%	18,805,018	327.29%
2016	337,548,681	327,203,710	10,344,971	96.94%	20,603,955	50.21%
2017	358,140,046	361,249,258	(3,109,212)	100.87%	21,679,436	(14.34)%
2018	383,532,907	384,460,632	(927,725)	100.24%	23,929,891	(3.88)%
2019	408,293,394	383,442,225	24,851,169	93.91%	25,098,209	99.02%
2020	434,665,661	400,055,406	34,610,255	92.04%	24,972,409	138.59%
2021	446,893,643	485,338,602	(38,444,959)	108.60%	24,064,836	(159.76)%
2022	501,010,028	425,292,643	75,717,385	84.89%	26,101,927	290.08%



**NOTES TO SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY  
(GASB STATEMENT NO. 67)**

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**Valuation Date:** September 30, 2021  
**Measurement Date:** September 30, 2022

**Methods and Assumptions Used to Determine Net Pension Liability:**

Actuarial Cost Method	Entry Age Normal
Roll Forward Procedures	The Total Pension Liability was developed by using standard actuarial techniques to roll forward amounts from the September 30, 2021 actuarial valuation one year to the measurement date.
Inflation	2.5%
Salary Increases	5.0%, including inflation
Investment Rate of Return	7.00%
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition.
Mortality	The 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), as required under Florida Statutes, Chapter 112.63.

**Other Information:**

Notes See Section A in the September 30, 2021 Actuarial Valuation Report dated May 12, 2022, and page 1 of the September 30, 2021 Supplemental Actuarial Valuation Report dated June 24, 2022.

Effective as of September 30, 2021, the investment return assumption was lowered from 7.25% to 7.00%.

In addition, the Plan was amended in accordance with House Bill 929, which was signed into law. Under this plan amendment, the 3% benefit multiplier was restored for all years of service between October 1, 2011 to October 1, 2017 for members who retire (including entry into the DROP) after the effective date of May 6, 2022.



**SCHEDULE OF CONTRIBUTIONS  
(GASB STATEMENT NO. 67)**

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FY Ending September 30,	Actuarially Determined Contribution	Actual Contribution*	Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
2014	\$ 8,941,538	\$ 10,041,651	\$ (1,100,113)	\$ 17,446,782	57.56%
2015	9,744,918	8,644,805	1,100,113	18,805,018	45.97%
2016	9,726,454	59,726,454	(50,000,000)	20,603,955	289.88%
2017	3,285,065	3,285,065	-	21,679,436	15.15%
2018	3,131,968	3,556,968	(425,000)	23,929,891	14.86%
2019	4,363,006	4,363,006	-	25,098,209	17.38%
2020	5,240,652	5,240,652	-	24,972,409	20.99%
2021	5,935,584	5,935,584	-	24,064,836	24.66%
2022	5,354,106	5,354,106	-	26,101,927	20.51%

\* Employer contribution for FYE 9/30/2016 includes \$50,000,000 proceeds from pension obligation bond.

## **NOTES TO SCHEDULE OF CONTRIBUTIONS (GASB STATEMENT NO. 67)**

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**Valuation Date:** September 30, 2020  
**Notes** Actuarially determined contributions are calculated as of September 30, 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 Payroll, Closed
Remaining Amortization Period	30 years
Asset Valuation Method	4-year smoothed market
Inflation	2.5%
Salary Increases	5.0%, including inflation
Investment Rate of Return	7.25%
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition.
Mortality	The PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post-retirement), and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2019 Actuarial Valuation of the Florida Retirement System (FRS), as required under Florida Statutes, Chapter 112.63.

**Other Information:**

**Notes** See Section A in the September 30, 2020 Actuarial Valuation Report dated May 20, 2021. Effective as of September 30, 2020, the investment return assumption was lowered from 7.50% to 7.25%. In addition, the mortality tables were updated from the mortality rates used by the Florida Retirement System (FRS) for Special Risk Class members in the July 1, 2018 FRS Actuarial Valuation to the rates used in the July 1, 2019 FRS Actuarial Valuation. Florida Statutes Chapter 112.63(1)(f) mandates the use of mortality tables from one of the two most recently published FRS actuarial valuation reports.



**SINGLE DISCOUNT RATE  
(GASB STATEMENT NO. 67)**

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A single discount rate of 7.00% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 7.00%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the total actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments (7.00%) was applied to all periods of projected benefit payments to determine the total pension liability.

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 7.00%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

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

1% Decrease 6.00%	Current Single Discount Rate Assumption 7.00%	1% Increase 8.00%
\$120,809,032	\$75,717,385	\$39,106,588

## SECTION E

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### SUMMARY OF VALUATION RESULTS IN STATE FORMAT

**SUMMARY OF VALUATION RESULTS IN STATE FORMAT**  
**(\$ AMOUNTS IN THOUSANDS)**

	September 30, 2022	September 30, 2021
(a) Participant Data		
(i) Active participants - number	248	261
- annual payroll (excl. DROP participants)	\$ 23,568	\$ 23,075
(ii) Retired members & beneficiaries		
- number	276	260
- annualized benefit payroll	16,957	15,210
(iii) Disabled members		
- number	24	21
- annualized benefit payroll	1,271	1,091
(iv) Terminated vested members		
- number	12	11
- annualized benefit payroll	379	321
(b) Assets		
(i) Actuarial value of funding	487,066	485,339
(ii) Market value	425,293	485,339
(iii) Contribution receivable	0	0
(c) Actuarial Liabilities		
(i) Actuarial present value of active member benefits:		
service retirement	145,426	142,948
termination benefits - pensions	5,308	4,909
disability retirement	6,665	6,155
survivor benefits (pre-retirement)	1,289	1,228
survivor benefits (post-retirement)	12,302	15,693
termination benefits - refunds	554	516
share accounts	64,416	62,460
Total	235,960	233,908
(ii) Contribution stabilization reserve	16,585	15,500
(iii) Actuarial present value of terminated vested member benefits	4,314	3,435
(iv) Actuarial present value of retired member & beneficiary:		
total service retirement & survivors	220,740	199,016
disability retirement	17,807	14,550
distribution reserve	19,516	19,516
DROP Reserve	70,389	66,318
Total	328,452	299,400
(v) Total actuarial present value of future benefit payments and reserves	585,311	552,243
(vi) Payables	none	none
(vii) Actuarial accrued liability (including Share Accounts, DROP Reserve, and other reserves)	\$ 524,687	\$ 496,343
(viii) Unfunded actuarial accrued liability(1)	\$ 37,621	\$ 11,004

(1) Please refer to page A-11 for requested detail.



**SUMMARY OF VALUATION RESULTS IN STATE FORMAT**  
**(\$ AMOUNTS IN THOUSANDS)**

September 30, 2022

September 30, 2021

(d) Actuarial Present Value of Accrued Benefits (calculated in accordance with FASB Statement No. 35)		
(i) Vested accrued benefits		
Retired members and beneficiaries - pensions	\$ 308,936	\$ 279,884
- distribution reserves	19,516	19,516
Terminated members	4,314	3,435
Active members (includes non-forfeitable accum. member contributions of \$21,131 and \$22,610)	74,321	84,674
Active member share accounts	64,416	62,460
Total	<u>\$ 471,503</u>	<u>\$ 449,969</u>
(ii) Non-vested accrued benefits	5,480	4,249
(iii) Contribution stabilization reserve	16,585	15,500
(iv) Total actuarial p.v. of accrued benefits	<u>\$ 493,568</u>	<u>\$ 469,718</u>
(v) Actuarial p.v. of accrued benefits at begin. of year	\$ 469,718	\$ 402,243
(vi) Changes attributable to:		
Amendments	\$ 0	\$ 2,757
Assumption/method changes	0	43,879
Operation of decrements	38,548	31,284
Benefit payments	(20,724)	(19,911)
Other (Changes in Reserves)	6,027	9,467
(vii) Net change	23,850	67,475
(viii) Actuarial p.v. of Accr. benefits at end of year	<u>\$ 493,568</u>	<u>\$ 469,718</u>
(e) Plan costs for fiscal years beginning October 1, 2022 and October 1, 2021 (EANC)		
(i) Normal costs		
Service pensions (incl. post-ret. surv. pensions)	25.57 %	25.60 %
Disability pensions (incl. post-ret. surv. pensions)	1.87	1.86
Survivor pensions (pre-retirement)	0.30	0.30
Deferred service pensions	1.33	1.30
Refunds of member contributions	0.76	0.76
Total normal cost	<u>29.83</u>	<u>29.82</u>
(ii) Payment to amortize unf'd act. accr. liab.	11.86	3.59
(iii) Administrative expenses	1.32	1.16
(iv) FS112.64(5) Requirement	0.00	0.17
(v) Amount to be paid by participants	11.00	11.00
(vi) Expected state contribution	0.00	0.00
(vii) Expected plan sponsor contribution		
% of payroll	32.01 %	23.74 %
dollars	<u>\$ 8,059</u>	<u>\$ 5,852</u>





**SUMMARY OF VALUATION RESULTS IN STATE FORMAT**  
**(\$ AMOUNTS IN THOUSANDS)**

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	<b>September 30, 2022</b>	<b>September 30, 2021</b>
(f) Past Contributions (fiscal year ending 9/30/22 and 21)		
(i) Required minimum:		
Plan sponsor	\$ 5,354	\$ 5,936
Members	2,871	2,647
Total	8,225	8,583
(ii) Actual:		
Plan sponsor	5,354	5,936
Members	2,871	2,647
Total	8,225	8,583
(g) Net Experience Gain (Loss)	\$ (26,803)	\$ 12,321
(h) Other Disclosures		
(i) Present value of active member future salaries		
from attained age	\$ 204,158	\$ 188,451
from entry age		not applicable to individual EANC method
(ii) Present value of active member future contribs.		
from attained age	\$ 22,457	\$ 20,730
from entry age		not applicable to individual EANC method