

**City of Clearwater
Firefighters' Relief and Pension Fund**

**Actuarial Valuation
As of October 1, 2024**

**Determines the Contribution
For the 2024/25 Fiscal Year**



	<u>Page</u>
Discussion	1
 <u>Funding Results</u>	
Table I-A	Minimum Required Contribution I-1
Table I-D	Present Value of Future Benefits I-2
Table I-E	Present Value of Accrued Benefits I-3
Table I-F	Present Value of Vested Benefits I-4
Table I-G	Entry Age Normal Accrued Liability I-5
 <u>Accounting Results</u>	
GASB 67/68 Supplement as of September 30, 2024	
 <u>Assets</u>	
Table II-A	Actuarial Value of Assets II-1
Table II-B	Market Value of Assets II-2
Table II-C	Investment Return II-3
Table II-D	Asset Reconciliation II-4
Table II-E	Historical Trust Fund Detail II-5
Table II-F	Other Reconciliations II-6
 <u>Data</u>	
Table III-A	Summary of Participant Data III-1
Table III-B	Data Reconciliation III-2
Table III-C	Inactive Participant Data III-3
Table III-D	Projected Benefit Payments III-4
 <u>Methods & Assumptions</u>	
Table IV-A	Summary of Actuarial Methods and Assumptions IV-1
Table IV-B	Changes in Actuarial Methods and Assumptions IV-2



December 13, 2024

Introduction

This report presents the results of the October 1, 2024 actuarial valuation for the City of Clearwater Firefighters' Relief and Pension Fund. The report is based on the participant data and asset information provided by the pension plan administrator and, except for a cursory review for reasonableness including a comparison to the data provided for the previous valuation, we have not attempted to verify the accuracy of this information.

The primary purpose of this report is to provide a summary of the funded status of the plan as of October 1, 2024 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2024/25 plan year. In addition, this report provides a projection of the long-term funding requirements of the plan, statistical information concerning the assets held in the trust, statistical information concerning the participant population, and a summary of any recent plan changes.

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an *estimate* of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, if any of the assumptions is not completely realized, then the cost shown in this report will change in the future.

Certain assumptions play a bigger role than others in determining the cost of the post-employment pension benefits. In some cases, relatively small changes in a particular assumption can have a dramatic impact on the anticipated cost of benefits. Although a thorough analysis of the impact of such changes is beyond the scope of this report, Table I-B illustrates the impact that alternative long-term investment returns would have on the normal cost rate.

Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2024/25 plan year. The minimum required contribution is \$0, which is the same as the minimum required contribution that was developed in the prior valuation.

Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the City must contribute an amount equal to the annual normal cost of the plan plus an adjustment as necessary to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the City's 2024/25 minimum required contribution will be equal to \$0.



Based on the current assets, participant data, and actuarial assumptions and methods that are used to value the plan, the present-day value of the total long-term funding requirement is \$1,337,724. As illustrated in Table I-A, current assets are sufficient to cover this entire amount. Again, demographic and investment experience that differs from that assumed may change the future employer funding requirement.

Asset Performance

The market value of assets earned 5.54% during the 2023/24 plan year, whereas a 2.50% annual investment return was required to avoid any actuarial gains or losses due to investment performance.

Identification and Assessment of Risk

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an *estimate* of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, there is always a risk that, should these assumptions not be realized, the liabilities of the plan, the contributions required to fund the plan, and the funded status of the plan may be significantly different than the amounts shown in this report.

Although a thorough analysis of the risk of not meeting the assumptions is beyond the scope of this report, this discussion is intended to identify the significant risks faced by the plan. In some cases, a more detailed review of the risks, including numerical analysis, may be appropriate to help the plan sponsor and other interested parties assess the specific impact of not realizing certain assumptions. Note that this report is not intended to provide advice on the management or reduction of the identified risks nor is this report intended to provide investment advice.

The most significant risk faced by most defined benefit pension plans is investment risk, i.e. the risk that long-term investment returns will be less than assumed. Other related risks include a risk that, if the investments of the plan decline dramatically over a short period of time (such as occurred with many pension plans in 2008), the plan's assets may not have sufficient time to recover before benefits become due. Even if the assets of the plan grow in accordance with the assumed investment return over time, if benefit payments are expected to be large in the short-term (for example, if the plan provides an actuarial equivalent lump sum payment option and a large number of participants are expected to become entitled to such a lump sum in the near future), the plan's assets may not be sufficient to support such a high level of benefit payments. We have provided a 10-year projection of the expected benefit payments in Table III-G to help the Trustees in formulating an investment policy that is expected to provide an investment return that meets both the short- and long-term cash flow needs of the pension plan.

Another source of risk is demographic experience. This is the risk that participants will receive salary increases that are different than the amount assumed, that participants will retire, become disabled, or terminate their employment at a rate



that is different than assumed, and that participants will live longer than assumed, just to cite a few examples of the demographic risk faced by the plan. Although for most pension plans, the demographic risk is not as significant as the investment risk, particularly in light of the fact that the mortality assumption includes a component for future life expectancy increases, the demographic risk can nevertheless be a significant contributing factor to liabilities and contribution rates that become higher than anticipated.

A third source of risk is the risk that the plan sponsor (or other contributing entities) will not make, or will not have the ability to make, the contributions that are required to keep the plan funded at a sufficient level. Material changes in the number of covered employees, covered payroll, and, in some cases, hours worked by active participants can also significantly impact the plan's liabilities and the level of contributions received by the plan.

Finally, an actuarial funding method has been used to allocate the gap between projected liabilities and assets to each year in the future. The contribution rate under some funding methods is higher during the early years of the plan and then is lower during the later years of the plan. Other funding methods provide for lower contribution rates initially, with increasing contribution rates over time.

The Trustees have adopted the aggregate funding method for this plan, which is expected to result in a contribution rate that is level over the remaining life of the plan's retired participants. A brief description of the actuarial funding method is provided in Table IV-A.

Contents of the Report

Tables I-D through I-G provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-F provide information concerning the assets of the trust fund. Tables III-A through III-D provide statistical information concerning the plan's participant population. In particular, Table III-D gives a 10-year projection of the cash that is expected to be required from the trust fund in order to pay benefits to the current group of participants. Finally, Tables IV-A and IV-B provide a summary of the actuarial assumptions and methods that are used to value the plan's benefits as of October 1, 2024, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Chapter 112, Florida Statutes. 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 change in plan costs or required contribution rates have been taken into account in the valuation.



For the firm,

Charles T. Carr/ly

Charles T. Carr
Consulting Actuary
Southern Actuarial Services Company, Inc.

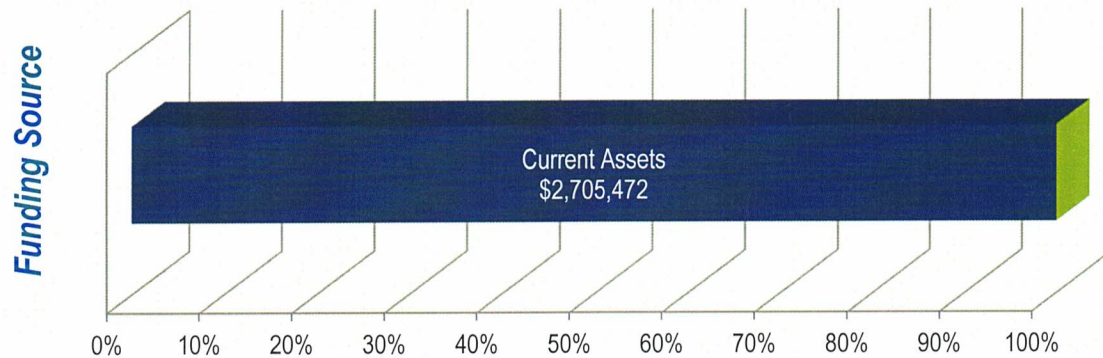
Enrolled Actuary No. 23-04927

The individual above is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Minimum Required Contribution

Table I-A



For the 2024/25 Plan Year

Present Value of Future Benefits	\$1,298,761
Present Value of Future Administrative Expenses	\$38,963
Actuarial Value of Assets	(\$2,705,472)
Present Value of Future Employee Contributions	\$0
Present Value of Future Normal Costs	\$0
Present Value of Future Life	÷ 66.8499
Normal Cost Rate	= \$0
Expected Lives	x 10.0000
Normal Cost	\$0
Adjustment to Reflect an End-of-Year Employer Contribution	\$0

Minimum Required Contribution **\$0**



Present Value of Future Benefits

Table I-D

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$0	\$0	\$0
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$449,783	\$449,783	\$449,783
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$848,978	\$848,978	\$848,978
DROP participants	\$0	\$0	\$0
Sub-total	\$1,298,761	\$1,298,761	\$1,298,761
<i><u>Grand Total</u></i>	<u>\$1,298,761</u>	<u>\$1,298,761</u>	<u>\$1,298,761</u>
Present Value of Future Payroll	\$0	\$0	\$0
Present Value of Future Employee Contribs.	\$0	\$0	\$0
Present Value of Future Employer Contribs.	\$0	\$0	\$0



Present Value of Accrued Benefits

Table I-E

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$0	\$0	\$0
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$449,783	\$449,783	\$449,783
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$848,978	\$848,978	\$848,978
DROP participants	\$0	\$0	\$0
Sub-total	\$1,298,761	\$1,298,761	\$1,298,761
<i><u>Grand Total</u></i>	<u>\$1,298,761</u>	<u>\$1,298,761</u>	<u>\$1,298,761</u>
<i><u>Funded Percentage</u></i>	208.31%	208.31%	208.31%



Present Value of Vested Benefits

Table I-F

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$0	\$0	\$0
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$449,783	\$449,783	\$449,783
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$848,978	\$848,978	\$848,978
DROP participants	\$0	\$0	\$0
Sub-total	\$1,298,761	\$1,298,761	\$1,298,761
<i><u>Grand Total</u></i>	<u>\$1,298,761</u>	<u>\$1,298,761</u>	<u>\$1,298,761</u>



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<u>Actively Employed Participants</u>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<u>Deferred Vested Participants</u>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<u>Due a Refund of Contributions</u>	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$449,783	\$449,783	\$449,783
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$848,978	\$848,978	\$848,978
DROP participants	\$0	\$0	\$0
Sub-total	\$1,298,761	\$1,298,761	\$1,298,761
<u>Grand Total</u>	<u>\$1,298,761</u>	<u>\$1,298,761</u>	<u>\$1,298,761</u>



Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1, 2024 \$2,705,472

Minus advance employer contributions \$0

Actuarial Value of Assets as of October 1, 2024 \$2,705,472

<u>Historical Actuarial Value of Assets</u>	
October 1, 2015	\$4,615,299
October 1, 2016	\$4,360,757
October 1, 2017	\$3,842,781
October 1, 2018	\$3,566,898
October 1, 2019	\$3,598,272
October 1, 2020	\$3,481,098
October 1, 2021	\$3,247,484
October 1, 2022	\$2,912,716
October 1, 2023	\$2,753,663
October 1, 2024	\$2,705,472

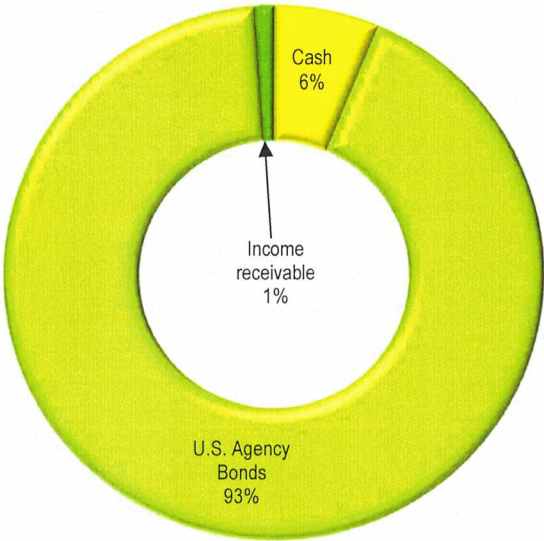


Market Value of Assets

Table II-B

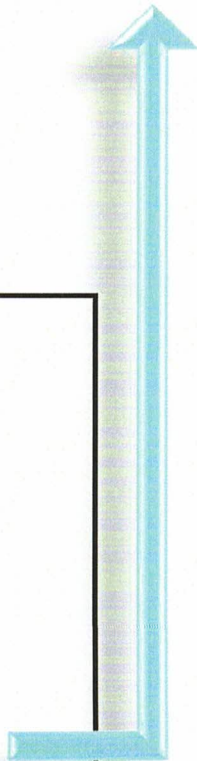
As of October 1, 2024

Market Value of Assets	<u>\$2,705,472</u>
Cash	\$170,398
U.S. Agency Bonds	\$2,503,529
Income receivable	\$31,545



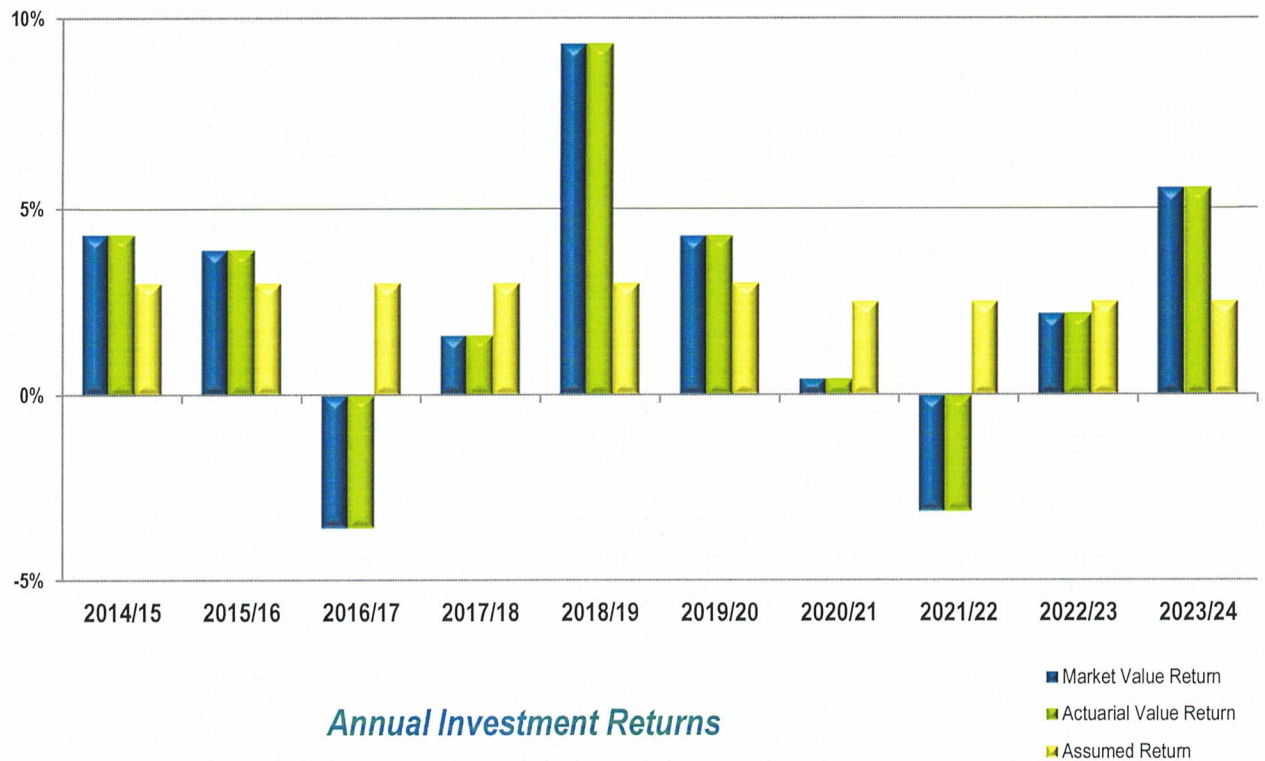
Historical Market Value of Assets

October 1, 2015	\$4,615,299
October 1, 2016	\$4,360,757
October 1, 2017	\$3,842,781
October 1, 2018	\$3,566,898
October 1, 2019	\$3,598,272
October 1, 2020	\$3,481,098
October 1, 2021	\$3,247,484
October 1, 2022	\$2,912,716
October 1, 2023	\$2,753,663
October 1, 2024	\$2,705,472



Investment Return

Table II-C

*Annual Investment Returns*

Plan Year	Market Value Return	Actuarial Value Return	Assumed Return
2014/15	4.31%	4.31%	3.00%
2015/16	3.90%	3.90%	3.00%
2016/17	-3.58%	-3.58%	3.00%
2017/18	1.61%	1.61%	3.00%
2018/19	9.34%	9.34%	3.00%
2019/20	4.27%	4.27%	3.00%
2020/21	0.43%	0.43%	2.50%
2021/22	-3.14%	-3.14%	2.50%
2022/23	2.18%	2.18%	2.50%
2023/24	5.54%	5.54%	2.50%
10yr. Avg.	2.42%	2.42%	2.80%



Asset Reconciliation

Table II-D

	<u>Market Value</u>	<u>Actuarial Value</u>
As of October 1, 2023	\$2,753,663	\$2,753,663
<i>Increases Due To:</i>		
Employer Contributions	\$0	\$0
Total Contributions	<u>\$0</u>	<u>\$0</u>
Interest and Dividends	\$99,109	
Realized Gains (Losses)	\$0	
Unrealized Gains (Losses)	\$48,065	
Total Investment Income	<u>\$147,174</u>	\$147,174
Other Income	\$0	
Total Income	<u>\$147,174</u>	<u>\$147,174</u>
<i>Decreases Due To:</i>		
Monthly Benefit Payments	(\$192,615)	(\$192,615)
Total Benefit Payments	<u>(\$192,615)</u>	<u>(\$192,615)</u>
Investment Expenses	\$0	
Administrative Expenses	(\$2,750)	(\$2,750)
Advance Employer Contribution		\$0
Total Expenses	<u>(\$195,365)</u>	<u>(\$195,365)</u>
As of October 1, 2024	<u><u>\$2,705,472</u></u>	<u><u>\$2,705,472</u></u>



Historical Trust Fund Detail

Table II-E

Income

Plan Year	Employer Contribs.	Interest / Dividends	Realized Gains / Losses	Unrealized Gains / Losses	Other Income
2014/15	\$0	\$0	\$0	\$199,776	\$0
2015/16	\$0	\$0	\$0	\$171,674	\$0
2016/17	\$0	\$0	\$0	-\$149,322	\$0
2017/18	\$0	\$0	\$0	\$59,255	\$0
2018/19	\$0	\$0	\$0	\$319,636	\$0
2019/20	\$0	\$0	\$0	\$147,975	\$0
2020/21	\$0	\$0	\$0	\$14,512	\$0
2021/22	\$0	\$0	\$0	-\$98,130	\$0
2022/23	\$0	\$100,953	\$0	-\$39,931	\$0
2023/24	\$0	\$99,109	\$0	\$48,065	\$0

Expenses

Plan Year	Monthly Benefit Payments	Admin. Expenses	Invest. Expenses	Other Actuarial Adjustments Advance Employer Contribs.
2014/15	\$442,775	\$2,005	\$0	\$0
2015/16	\$423,458	\$2,758	\$0	\$0
2016/17	\$365,154	\$3,500	\$0	\$0
2017/18	\$332,638	\$2,500	\$0	\$0
2018/19	\$285,762	\$2,500	\$0	\$0
2019/20	\$262,649	\$2,500	\$0	\$0
2020/21	\$245,126	\$3,000	\$0	\$0
2021/22	\$227,768	\$8,870	\$0	\$0
2022/23	\$215,950	\$4,125	\$0	\$0
2023/24	\$192,615	\$2,750	\$0	\$0

Note: Prior to October 1, 2022, information was not available to separate the investment expenses from the investment income nor was information available to separate the investment income by source.



Other Reconciliations

Table II-F

Advance Employer Contribution

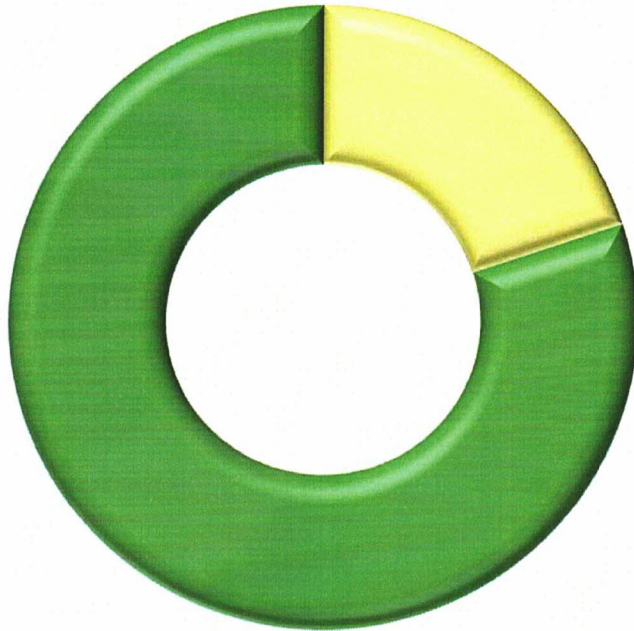
Advance Employer Contribution as of October 1, 2023	\$0
Additional Employer Contribution	\$0
Minimum Required Contribution	\$0
Net Increase in Advance Employer Contribution	\$0
Advance Employer Contribution as of October 1, 2024	\$0



Summary of Participant Data

Table III-A

As of October 1, 2024



Participant Distribution by Status

Actively Employed Participants

Active Participants	0
DROP Participants	0

Inactive Participants

Deferred Vested Participants	0
Due a Refund of Contributions	0
Deferred Beneficiaries	0

Participants Receiving a Benefit

Service Retirements	2
Disability Retirements	0
Beneficiaries Receiving	8

Total Participants 10

Number of Participants Included in Prior Valuations

	Active	DROP	Inactive	Retired	Total
October 1, 2015	N/A	N/A	N/A	N/A	N/A
October 1, 2016	N/A	N/A	N/A	N/A	N/A
October 1, 2017	N/A	N/A	N/A	N/A	N/A
October 1, 2018	N/A	N/A	N/A	N/A	N/A
October 1, 2019	N/A	N/A	N/A	N/A	N/A
October 1, 2020	N/A	N/A	N/A	N/A	N/A
October 1, 2021	N/A	N/A	N/A	N/A	N/A
October 1, 2022	N/A	N/A	N/A	N/A	N/A
October 1, 2023	0	0	0	11	11
October 1, 2024	0	0	0	10	10



Data Reconciliation

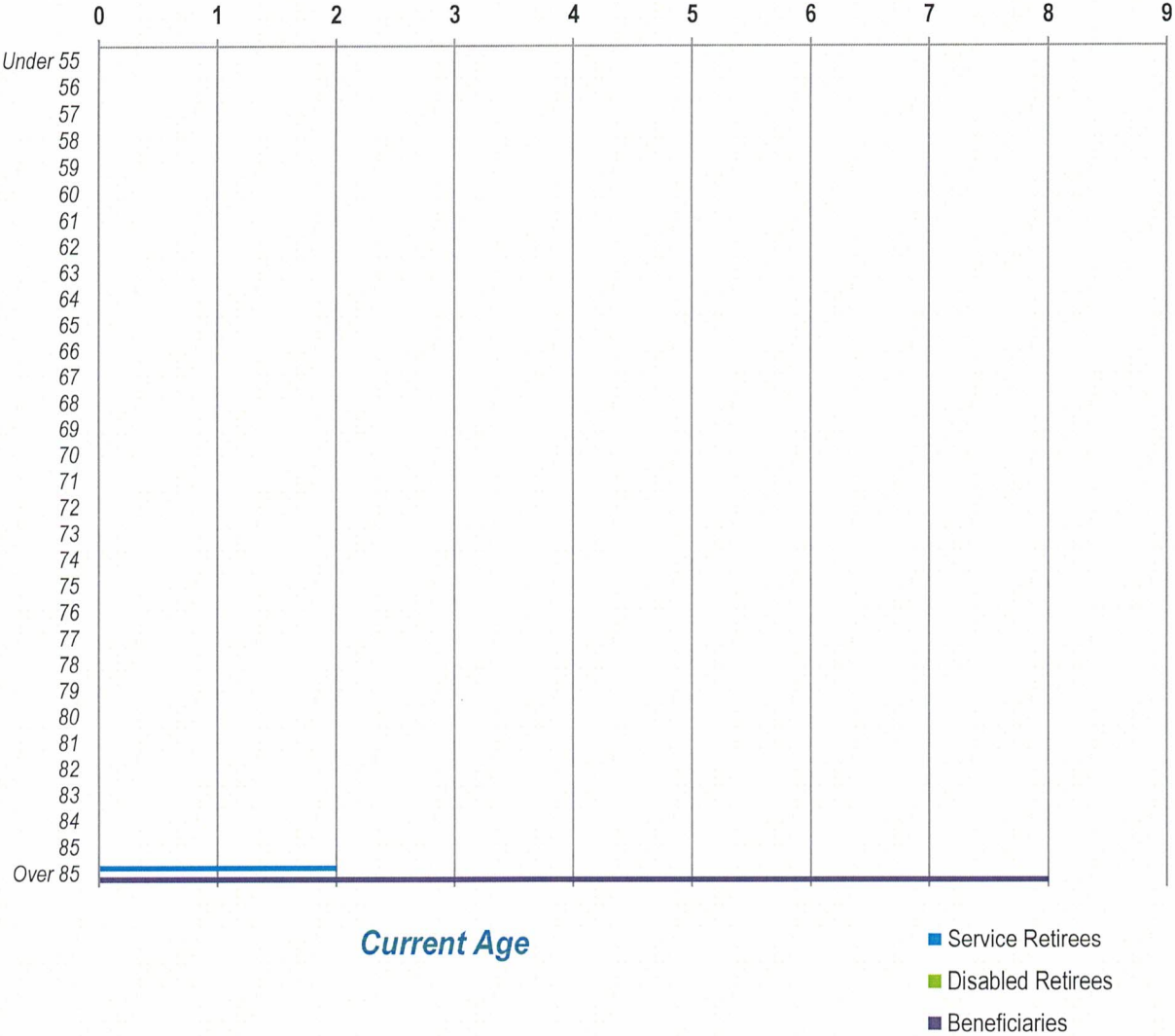
Table III-B

	<u>Active</u>	<u>DROP</u>	<u>Deferred Vested</u>	<u>Due a Refund</u>	<u>Def. Benef.</u>	<u>Service Retiree</u>	<u>Disabled Retiree</u>	<u>Benef. Rec'v.</u>	<u>Total</u>
<u>October 1, 2023</u>	0	0	0	0	0	2	1	8	11
<u>Change in Status</u>									
Re-employed									
Terminated									
Retired									
<u>Participation Ended</u>									
Transferred Out									
Cashed Out									
Died							(1)		(1)
<u>Participation Began</u>									
Newly Hired									
Transferred In									
New Beneficiary									
<u>Other Adjustment</u>									
<u>October 1, 2024</u>	0	0	0	0	0	2	0	8	10



Inactive Participant Data

Table III-C



Current Age

- Service Retirees
- Disabled Retirees
- Beneficiaries

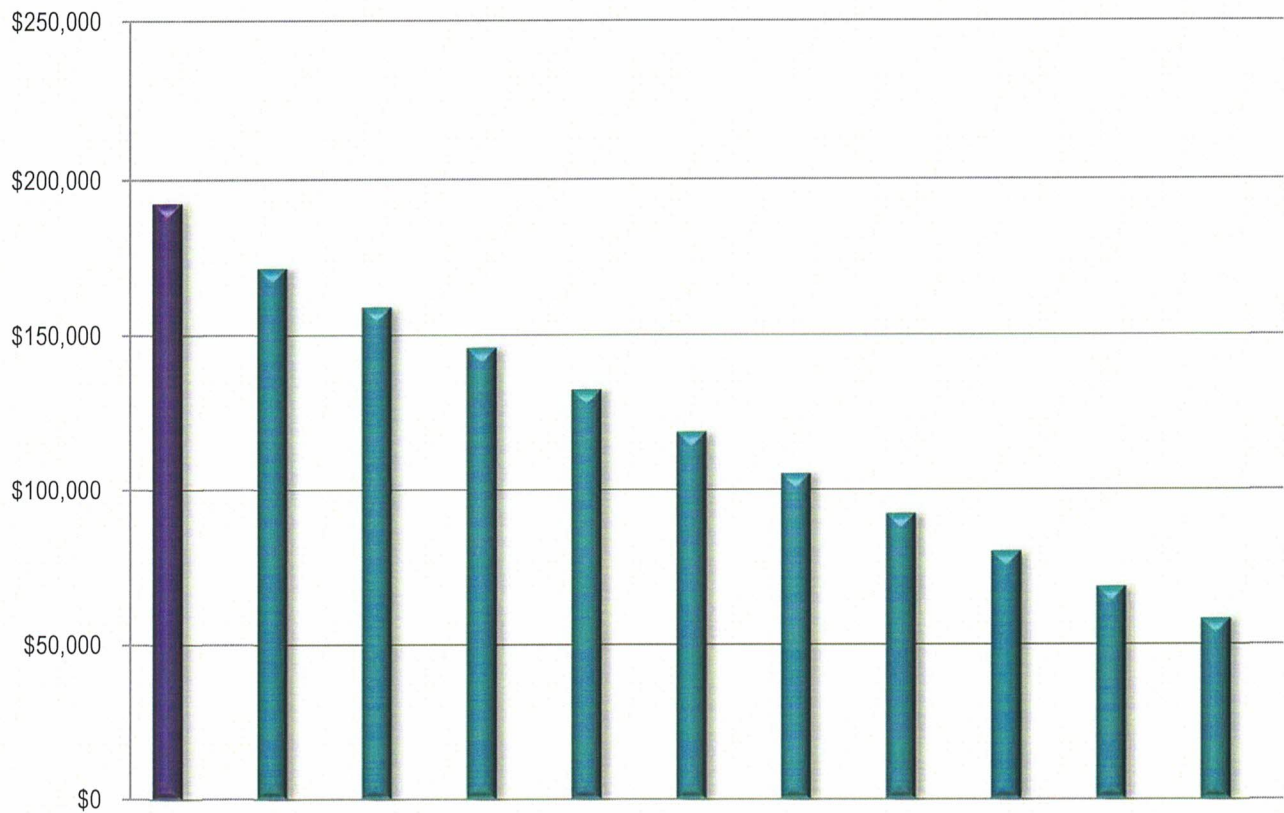
Average Monthly Benefit

Service Retirements	\$2,652.82
Disability Retirements	Not applicable
Beneficiaries Receiving	\$1,254.32
DROP Participants	Not applicable
Deferred Vested Participants	Not applicable
Deferred Beneficiaries	Not applicable



Projected Benefit Payments

Table III-D

Actual

For the period October 1, 2023 through September 30, 2024

\$192,615

Projected

For the period October 1, 2024 through September 30, 2025

\$171,618

For the period October 1, 2025 through September 30, 2026

\$159,107

For the period October 1, 2026 through September 30, 2027

\$146,058

For the period October 1, 2027 through September 30, 2028

\$132,548

For the period October 1, 2028 through September 30, 2029

\$118,723

For the period October 1, 2029 through September 30, 2030

\$105,206

For the period October 1, 2030 through September 30, 2031

\$92,222

For the period October 1, 2031 through September 30, 2032

\$79,963

For the period October 1, 2032 through September 30, 2033

\$68,594

For the period October 1, 2033 through September 30, 2034

\$58,245



Summary of Actuarial Methods and Assumptions

Table IV-A

NOTE: The following assumptions and methods have been selected and approved by the Board of Trustees based in part on the advice of the plan's enrolled actuary in accordance with the authority granted to the Board under the pension ordinances and State law.

1. Actuarial Cost Method

Aggregate cost method. Under this actuarial cost method, a funding cost is developed for the plan as a level dollar amount per individual. The level dollar amount is calculated as the excess of the total future benefit liability over accumulated assets and future employee contributions, with this excess spread over the life expectancy for current retired participants and their beneficiaries. The normal cost is equal to the level dollar amount multiplied by the total life expectancy for retired participants and their beneficiaries solely during the year immediately following the valuation date. The actuarial accrued liability is equal to the accumulated assets. Therefore, under the aggregate cost method, no unfunded accrued liability is developed.

2. Asset Method

The actuarial value of assets is equal to the market value of assets.

3. Interest (or Discount) Rate

2.50% per annum

4. Decrements

- Post-retirement mortality: For non-disabled retirees, sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Healthy Retiree Mortality Table for public safety employees (Below Median table for males), with full generational improvements in mortality using Scale MP-2018 and with ages set forward one year; for disabled retirees, sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Disabled Retiree Mortality Table (80% general employee rates plus 20% public safety employee rates), with full generational improvements in mortality using Scale MP-2018

5. Expenses

The total projected benefit liability has been loaded by 3.00% to account for anticipated administrative expenses. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.



Changes in Actuarial Methods and Assumptions

Table IV-B

There were no method or assumption changes since the completion of the previous valuation.

The following additional assumption and method changes were made during the past few years:

- (1) *Effective October 1, 2022, the administrative expense assumption was changed from a flat \$9,500 to a 3.00% loading of the future benefit liability.*

