Retirement Plan for the Police Officers Of the City of Green Cove Springs

Actuarial Valuation
As of October 1, 2023

Determines the Contribution For the 2023/24 Fiscal Year



		<u>Page</u>
Discussion		1
Funding Resul Table I-A Table I-B Table I-C Table I-D Table I-E Table I-F Table I-G	Minimum Required Contribution Sensitivity Analysis Gain and Loss Analysis Present Value of Future Benefits Present Value of Accrued Benefits Present Value of Vested Benefits Entry Age Normal Accrued Liability	I-1 I-3 I-4 I-5 I-6 I-7
Accounting Re GASB 67/68 Su	pplement as of September 30, 2023	
Assets Table II-A Table II-B Table II-C Table II-D Table II-E Table II-F Table II-G	Actuarial Value of Assets Market Value of Assets Investment Return Asset Reconciliation Historical Trust Fund Detail Other Reconciliations Historical Chapter 175/185 Contributions	-1 -2 -3 -4 -5 -6
Data Table III-A Table III-B Table III-C Table III-D Table III-E Table III-F Table III-G	Summary of Participant Data Data Reconciliation Active Participant Data Active Age-Service Distribution Active Age-Service-Salary Table Inactive Participant Data Projected Benefit Payments	-1 -2 -3 -4 -5 -6
Methods & Ass		11//
Table IV-A Table IV-B	Summary of Actuarial Methods and Assumptions Changes in Actuarial Methods and Assumptions	IV-1 IV-3
Plan Provisions Table V-A Table V-B	<u>s</u> Summary of Plan Provisions Summary of Plan Amendments	V-1 V-5



April 28, 2024

Introduction

This report presents the results of the October 1, 2023 actuarial valuation for the Retirement Plan for the Police Officers of the City of Green Cove Springs. 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, 2023 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2023/24 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 <u>estimate</u> 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 2023/24 plan year. The minimum required contribution rate is 30.18% of covered payroll, which represents an increase of 3.28% of payroll from the prior valuation.

The normal cost rate is 29.49%, which is 3.16% greater than the normal cost rate that was developed in the prior valuation. Table I-C provides a breakdown of the sources of change in the normal cost rate. Significantly, the rate increased by 1.36% of payroll due to investment shortfalls and increased by another 1.80% of payroll due to demographic experience. The market value of assets earned 8.36% during the 2022/23 plan year. However, the actuarial value of assets is based on a five-year phase-in of the unexpected investment gains and losses. On this basis, the actuarial value of assets only earned 4.16% during the 2022/23 plan year, whereas a 6.75% annual investment return was required to maintain a stable contribution rate.



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 2023/24 minimum required contribution will be equal to 30.18% multiplied by the total pensionable earnings for the 2023/24 fiscal year for the active employees who are covered by the plan and reduced by the portion of the Chapter 175/185 contribution that is allowed to be recognized during the 2023/24 plan year.

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 \$12,794,129. As illustrated in Table I-A, current assets are sufficient to cover \$8,831,157 of this amount, the employer's 2023/24 expected contribution will cover \$449,167 of this amount, and future employee contributions are expected to cover \$129,965 of this amount, leaving \$3,383,840 to be covered by future employer funding beyond the 2023/24 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Advance Employer Contribution

The City has made contributions to the plan in excess of the minimum amount that was required to be contributed pursuant to Chapter 112. In this report, the excess contributions are referred to as an "advance employer contribution." As of October 1, 2023, the advance employer contribution is \$141,322, which reflects the \$135,194 balance as of October 1, 2022 plus \$6,128 of actual employer contributions in excess of the minimum required contribution for the 2022/23 plan year as shown in Table II-F.

The City may apply all or any portion of the advance employer contribution towards the minimum required contribution for the 2023/24 plan year or for any later plan year. The minimum required contribution for that plan year will be reduced dollar-for-dollar by the amount of the advance employer contribution that is applied in this manner. Alternatively, at any time, the City may apply all or any portion of the advance employer contribution as an <u>extra</u> contribution in excess of the minimum required contribution.

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 <u>estimate</u> 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. For example, Table I-B illustrates the impact that alternative long-term investment returns would have on the contribution rate. 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 liablities 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 as a percentage of payroll over the working life of the plan's active 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-G provide statistical information concerning the plan's participant population. In particular, Table III-G 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 through V-B provide a summary of the actuarial assumptions and methods that are used to value the plan's benefits and of the relevant plan provisions as of October 1, 2023, 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 V. Carry ugs

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

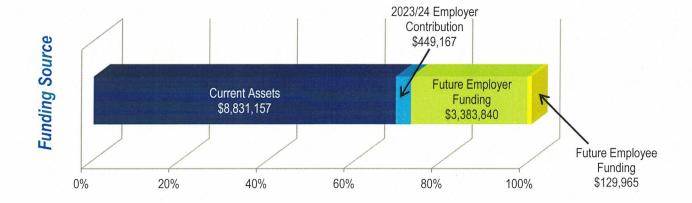
Enrolled Actuary No. 23-04927

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 2023/24 Plan Year

Minimum Required Contribution Rate	30.18%
Expected Payroll for the 2023/24 Plan Year	÷ \$1,488,370
Preliminary Employer Contribution for the 2023/24 Plan Year	\$449,167
Adjustment to Reflect Bi-Weekly Employer Contributions	\$10,213
Normal Cost	\$438,954
Expected Payroll	x \$1,488,370
Normal Cost Rate	= 29.4923%
Present Value of Future Payroll	÷ \$12,996,641
Present Value of Future Normal Costs	\$3,833,007
Present Value of Future Employee Contributions	(\$129,965)
Actuarial Value of Assets	(\$8,831,157)
Present Value of Future Administrative Expenses	\$129,966
Present Value of Future Benefits	\$12,664,163

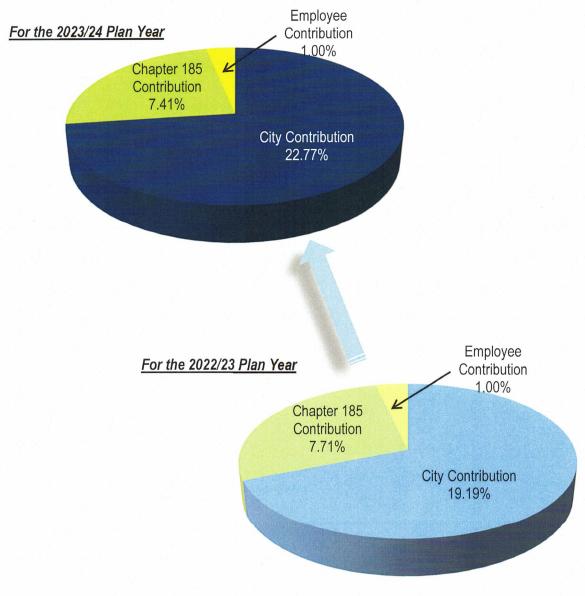
(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)



Minimum Required Contribution

Table I-A (continued)

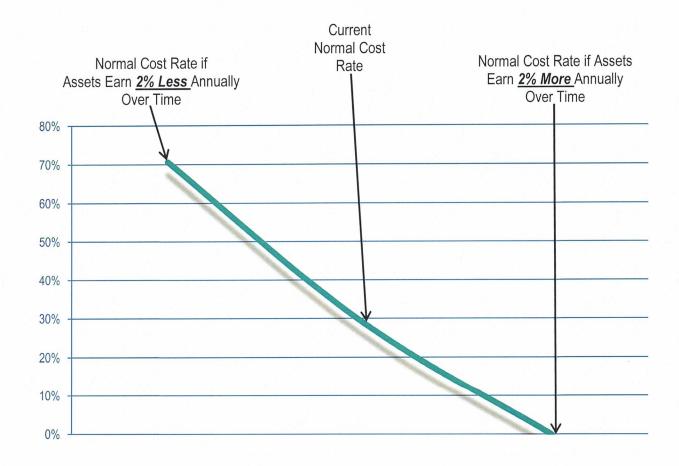
The minimum required contribution rate of 30.18% includes both the City contribution and the allowable Chapter 185 contribution. In addition, employees are required to contribute 1.00% of pensionable earnings. The actual City contribution rate is expected to be approximately 22.77% based on the allowable Chapter 185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2023/24 plan year based on the expected payroll. A comparative chart shows the contribution rate by source for the previous plan year.





Sensitivity Analysis

Table I-B



The line above illustrates the sensitivity of the normal cost rate to changes in the long-term investment return.



Gain and Loss Analysis

Table I-C

	33%
	36% 30%
Increase (decrease) due to actuarial assumption changes 0.0)0%)0%)0%
Current normal cost rate 29.4	19%
Source of Change in the Present Value of Accrued Benefits	
Previous present value of accrued benefits \$5,923,7	'26
Increase (decrease) due to benefit accruals/experience \$570,3	365
Increase due to interest \$399,8	352
Decrease due to benefit payments (\$70,5	559)
Increase (decrease) due to plan amendments	\$0
Increase (decrease) due to actuarial assumption changes	\$0
Current present value of accrued benefits \$6,823,3	884



Present Value of Future Benefits

Table I-D

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$9,893,296	\$9,893,296	\$9,893,296
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$9,893,296	\$9,893,296	\$9,893,296
Deferred Vested Participants			
Retirement benefits	\$1,015,282	\$1,015,282	\$1,015,282
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,015,282	\$1,015,282	\$1,015,282
Due a Refund of Contributions	\$15,833	\$15,833	\$15,833
<u>Deferred Beneficiaries</u>	\$688,318	\$688,318	\$688,318
Retired Participants			
Service retirements	\$1,051,434	\$1,051,434	\$1,051,434
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,051,434	\$1,051,434	\$1,051,434
Grand Total	<u>\$12,664,163</u>	<u>\$12,664,163</u>	<u>\$12,664,163</u>
Present Value of Future Payroll	\$12,996,641	\$12,996,641	\$12,996,641
Present Value of Future Employee Contribs.	\$129,965	\$129,965	\$129,965
Present Value of Future Employer Contribs.	\$3,833,007	\$3,833,007	\$3,833,007



Present Value of Accrued Benefits

Table I-E

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment	
Actively Employed Participants				
Retirement benefits	\$4,052,517	\$4,052,517	\$4,052,517	
Termination benefits	\$0	\$0	\$0	
Disability benefits	\$0	\$0	\$0	
Death benefits	\$0	\$0	\$0	
Refund of employee contributions	\$0	\$0	\$0	
Sub-total	\$4,052,517	\$4,052,517	\$4,052,517	
Deferred Vested Participants				
Retirement benefits	\$1,015,282	\$1,015,282	\$1,015,282	
Termination benefits	\$0	\$0	\$0	
Disability benefits	\$0	\$0	\$0	
Death benefits	\$0	\$0	\$0	
Refund of employee contributions	\$0	\$0	\$0	
Sub-total	\$1,015,282	\$1,015,282	\$1,015,282	
Due a Refund of Contributions	\$15,833	\$15,833	\$15,833	
<u>Deferred Beneficiaries</u>	\$688,318	\$688,318	\$688,318	
Retired Participants				
Service retirements	\$1,051,434	\$1,051,434	\$1,051,434	
Disability retirements	\$0	\$0	\$0	
Beneficiaries receiving	\$0	\$0	\$0	
DROP participants	\$0	\$0	\$0	
Sub-total	\$1,051,434	\$1,051,434	\$1,051,434	
Grand Total	<u>\$6,823,384</u>	\$6,823,384	<u>\$6,823,384</u>	
<u>Funded Status</u>	123.04%	123.04%	123.04%	

(Note: Funded percentage is equal to the ratio of the usable portion of the market value of assets divided by the present value of accrued benefits.)



Present Value of Vested Benefits

Table I-F

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$3,428,182	\$3,428,182	\$3,428,182
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$3,428,182	\$3,428,182	\$3,428,182
Deferred Vested Participants			
Retirement benefits	\$1,015,282	\$1,015,282	\$1,015,282
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,015,282	\$1,015,282	\$1,015,282
Due a Refund of Contributions	\$15,833	\$15,833	\$15,833
<u>Deferred Beneficiaries</u>	\$688,318	\$688,318	\$688,318
Retired Participants			
Service retirements	\$1,051,434	\$1,051,434	\$1,051,434
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,051,434	\$1,051,434	\$1,051,434
<u>Grand Total</u>	<u>\$6,199,049</u>	\$6,199,049	<u>\$6,199,049</u>



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$5,462,677	\$5,462,677	\$5,462,677
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$5,462,677	\$5,462,677	\$5,462,677
Deferred Vested Participants			
Retirement benefits	\$1,015,282	\$1,015,282	\$1,015,282
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,015,282	\$1,015,282	\$1,015,282
Due a Refund of Contributions	\$15,833	\$15,833	\$15,833
<u>Deferred Beneficiaries</u>	\$688,318	\$688,318	\$688,318
Retired Participants			
Service retirements	\$1,051,434	\$1,051,434	\$1,051,434
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,051,434	\$1,051,434	\$1,051,434
Grand Total	\$8,233,544	\$8,233,544	\$8,233,544



Actuarial Value of Assets

Table II-A

<u>ognized Gain (Loss)</u>	<u>Unreco</u>	tment Gain (Loss)	Unexpected Invest
(\$5,102)	x 20%	(\$25,509)	For the 2019/20 plan year
\$332,723	x 40%	\$831,807	For the 2020/21 plan year
(\$1,002,048)	x 60%	(\$1,670,080)	For the 2021/22 plan year
\$97,765	x 80%	\$122,206	For the 2022/23 plan year
(\$576,662)			

Market Value of Assets as of October 1, 2023 \$8,395,817

Minus advance employer contributions (\$141,322)

Adjustment for unrecognized gain or loss as shown above, but restricted to an amount that keeps the actuarial value of assets within an 80%-120% corridor of the market value

\$576,662

Actuarial Value of Assets as of October 1, 2023

\$8,831,157

Historical Actuarial Value of Assets October 1, 2014 \$3,317,987 October 1, 2015 \$3,489,529 October 1, 2016 \$3,973,702 October 1, 2017 \$4,770,709 October 1, 2018 \$5,394,922 \$6,009,936 October 1, 2019 October 1, 2020 \$6,662,471 October 1, 2021 \$7,521,183 October 1, 2022 \$8,112,696 October 1, 2023 \$8,831,157

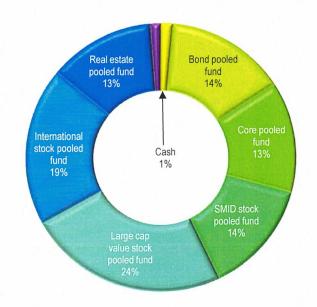


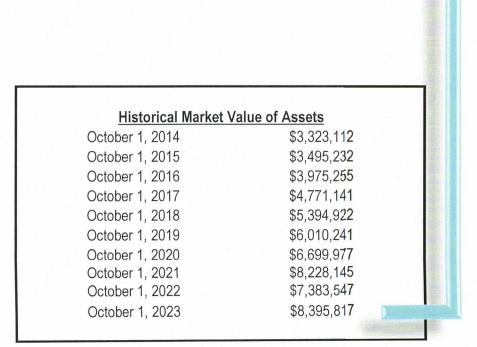
Market Value of Assets

Table II-B

As of October 1, 2023

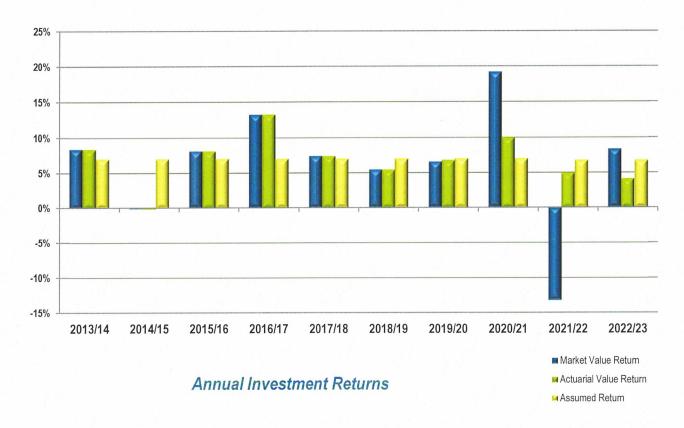
Market Value of Assets	\$8,395,817
Cash	\$118,839
Bond pooled fund	\$1,239,319
Core pooled fund	\$1,154,435
SMID stock pooled fund	\$1,179,900
Large cap value stock pooled fund	\$2,071,192
International stock pooled fund	\$1,638,279
Real estate pooled fund	\$1,086,527
Employer contribution receivable	\$10,908
Employee contribution receivable	\$1,528
Payable to the share plan	(\$105,110)







Investment Return Table II-C



DI.	Market	Actuarial		
Plan	Value	Value	Assumed	
<u>Year</u>	Return	Return	Return	
2013/14	8.38%	8.39%	7.00%	
2014/15	-0.14%	-0.14%	7.00%	
2015/16	8.11%	8.11%	7.00%	
2016/17	13.29%	13.29%	7.00%	
2017/18	7.39%	7.39%	7.00%	
2018/19	5.45%	5.45%	7.00%	
2019/20	6.58%	6.82%	7.00%	
2020/21	19.21%	10.01%	7.00%	
2021/22	-13.23%	4.96%	6.75%	
2022/23	8.36%	4.16%	6.75%	
10yr. Avg.	6.01%	6.79%	6.95%	



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2022	\$7,383,547	\$8,112,696
Increases Due To:		
Employer Contributions Chapter 175/185 Contributions Employee Contributions Service Purchase Contributions Total Contributions Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income	\$351,427 \$114,750 \$17,102 \$0 \$483,279 \$0 \$0 \$0 \$633,181 \$633,181	\$351,427 \$114,750 \$17,102 \$0 \$483,279
Other Income	\$0 \$1,116,460	\$828,779
Total Income Decreases Due To:	\$1,110,400	\$020,119
Monthly Benefit Payments Refund of Employee Contributions	(\$70,559) \$0	(\$70,559) \$0
Total Benefit Payments	(\$70,559)	(\$70,559)
Investment Expenses Administrative Expenses	\$0 (\$33,631)	(\$33,631)
Advance Employer Contribution		(\$6,128)
Total Expenses	(\$104,190)	(\$110,318)
As of October 1, 2023	\$8,395,817	\$8,831,157



Historical Trust Fund Detail

Table II-E

<u>Income</u>								
				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains /	Gains /	Other
<u>Year</u>	Contribs.	Contribs.	Contribs.	Contribs.	<u>Dividends</u>	Losses	Losses	<u>Income</u>
2013/14	\$120,009	\$73,366	\$7,497	\$0	\$0	\$0	\$251,005	\$0
2014/15	\$130,150	\$73,815	\$8,100	\$0	\$0	\$0	-\$4,721	\$0
2015/16	\$141,437	\$85,340	\$8,475	\$0	\$0	\$0	\$291,007	\$0
2016/17	\$181,998	\$93,609	\$10,155	\$0	\$0	\$0	\$545,018	\$0
2017/18	\$199,572	\$102,434	\$10,065	\$0	\$0	\$0	\$362,248	\$0
2018/19	\$245,801	\$112,175	\$11,902	\$0	\$0	\$0	\$302,608	\$0
2019/20	\$238,718	\$114,750	\$12,201	\$0	\$0	\$0	\$405,005	\$0
2020/21	\$183,182	\$114,750	\$13,046	\$0	\$0	\$0	\$1,308,368	\$0
2021/22	\$238,874	\$114,750	\$14,360	\$0	\$0	\$0	-\$1,106,002	\$0
2022/23	\$351,427	\$114,750	\$17,102	\$0	\$0	\$0	\$633,181	\$0

<u>Expenses</u>					Other Actuarial Adjustments
Monthly					Advance
Plan	Benefit	Contrib.	Admin.	Invest.	Employer
Year	<u>Payments</u>	Refunds	Expenses	Expenses	Contribs.
2013/14	\$18,503	\$3,814	\$23,305	\$0	\$5,125
2014/15	\$18,780	\$0	\$16,444	\$0	\$578
2015/16	\$19,062	\$0	\$27,174	\$0	-\$4,150
2016/17	\$19,348	\$0	\$15,546	\$0	-\$1,121
2017/18	\$19,638	\$0	\$30,900	\$0	-\$432
2018/19	\$36,019	\$0	\$21,148	\$0	\$305
2019/20	\$47,293	\$1,751	\$31,894	\$0	\$50,019
2020/21	\$59,440	\$1,148	\$30,590	\$0	\$36,961
2021/22	\$70,330	\$0	\$36,250	\$0	\$47,909
2022/23	\$70,559	\$0	\$33,631	\$0	\$6,128

Note: 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, 2022	\$135,194
Additional Employer Contribution Minimum Required Contribution	\$466,177 (\$460,049)
Net Increase in Advance Employer Contribution	\$6,128
Advance Employer Contribution as of October 1, 2023	\$141,322
Excess Chapter 175/185 Contribution	
Excess Chapter 175/185 Contribution as of October 1, 2022	\$0
Additional Chapter 175/185 Contribution	\$156,185
Allowable Chapter 175/185 Contribution	(\$114,750)
Transfer to Share Plan	(\$41,435)
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2023	\$0



Historical Chapter 175/185 Contributions

Table II-G

		Total Accumulate	185 Contribution	\$0	
		Chapter 175	Chapter 175		
		Regular	Supplemental	Chapter 185	Allowable
		Distribution	<u>Distribution</u>	Distribution	<u>Amount</u>
	1998 Distribution	\$0	\$0	\$41,503	(\$38,402)
	1999 Distribution	\$0	\$0	\$41,605	(\$41,605)
	2000 Distribution	\$0	\$0	\$47,931	(\$47,931)
	2001 Distribution	\$0	\$0	\$53,832	(\$53,832)
	2002 Distribution	\$0	\$0	\$71,142	(\$57,547)
	2003 Distribution	\$0	\$0	\$73,504	(\$35,705)
	2004 Distribution	\$0	\$0	\$81,317	(\$57,547)
	2005 Distribution	\$0	\$0	\$81,317	(\$57,547)
	2006 Distribution	\$0	\$0	\$83,776	(\$195,603)
	2007 Distribution	\$0	\$0	\$81,317	(\$81,317)
	2008 Distribution	\$0	\$0	\$79,450	(\$79,450)
	2009 Distribution	\$0	\$0	\$75,381	(\$75,381)
	2010 Distribution	\$0	\$0	\$71,899	(\$71,899)
	2011 Distribution	\$0	\$0	\$70,453	(\$70,453)
	2012 Distribution	\$0	\$0	\$66,408	(\$66,408)
	2013 Distribution	\$0	\$0	\$73,366	(\$73,366)
	2014 Distribution	\$0	\$0	\$73,815	(\$73,815)
	2015 Distribution	\$0	\$0	\$85,340	(\$85,340)
	2016 Distribution	\$0	\$0	\$93,609	(\$93,609)
	2017 Distribution	\$0	\$0	\$102,434	(\$102,434)
	2018 Distribution	\$0	\$0	\$112,175	(\$112,175)
	2019 Distribution	\$0	\$0	\$124,361	(\$114,750)
	2020 Distribution	\$0	\$0	\$135,826	(\$114,750)
	2021 Distribution	\$0	\$0	\$145,216	(\$114,750)
	2022 Distribution	\$0	\$0	\$156,185	(\$114,750)
	Interest Adjustment				\$9,792
Tra	ansfer to Share Plan				(\$102,588)

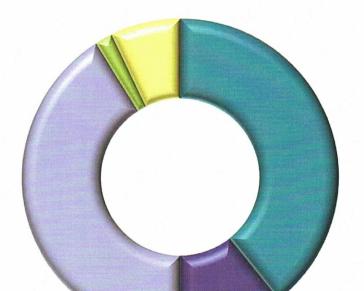


56

Summary of Participant Data

Table III-A

As of October 1, 2023



Participant Distribution by Status

Actively Employed Participants 22 **Active Participants DROP** Participants 0 Inactive Participants **Deferred Vested Participants** 6 Due a Refund of Contributions 23 **Deferred Beneficiaries** 1 Participants Receiving a Benefit Service Retirements 4 0 **Disability Retirements** Beneficiaries Receiving 0

Total Participants

	of Participant	io morado	11111101 741	dationio		
	Active	DROP	Inactive	Retired	Total	
October 1, 2014	N/A	N/A	N/A	N/A	N/A	
October 1, 2015	17	0	7	2	26	
October 1, 2016	N/A	N/A	N/A	N/A	N/A	
October 1, 2017	18	0	8	2	28	
October 1, 2018	N/A	N/A	N/A	N/A	N/A	
October 1, 2019	22	0	18	3	43	
October 1, 2020	22	0	20	3	45	
October 1, 2021	22	0	25	4	51	
October 1, 2022	24	0	26	4	54	
October 1, 2023	22	0	30	4	5 6	0



Data Reconciliation

Table III-B

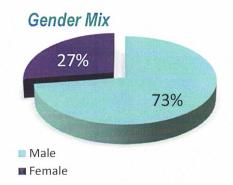
			Deferred	Due a	Def.	Service	Disabled	Benef.	
	<u>Active</u>	<u>DROP</u>	Vested	Refund	Benef.	Retiree	Retiree	Rec'v.	<u>Total</u>
October 1, 2022	24	0	6	19	1	4	0	0	54
Change in Status Re-employed Terminated Retired Participation Ended Transferred Out Cashed Out	(4)			4					
Participation Began Newly Hired Transferred In New Beneficiary	2								2
Other Adjustment October 1, 2023	22	0	6	23	1	4	0	0	56



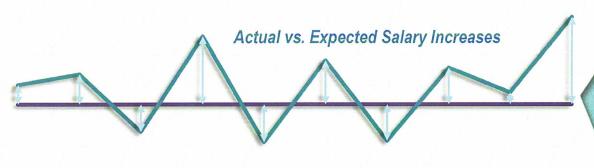
Active Participant Data

Table III-C

As of October 1, 2023

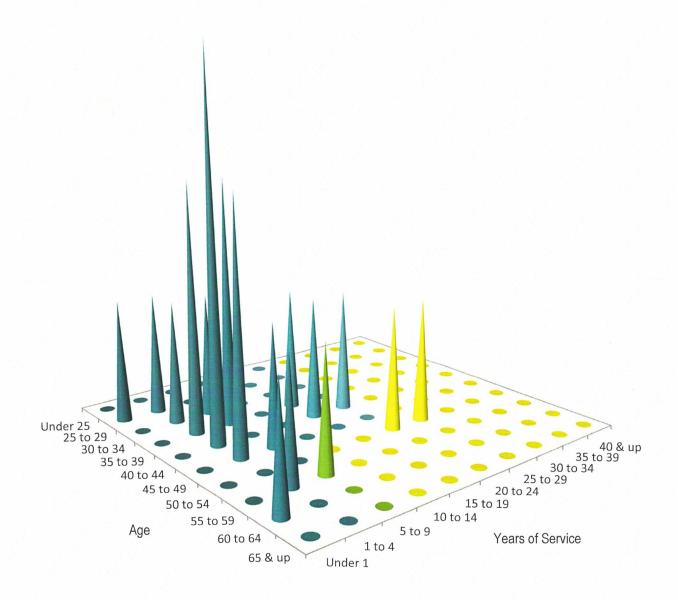


Average Age
Average Service
Total Annualized Compensation for the Prior Year
Total Expected Compensation for the Current Year
Average Increase in Compensation for the Prior Year
Expected Increase in Compensation for the Current Year
42.5 years
7.5 years
\$1,488,370
17.27%



Active Participant Statistics From Prior Valuations Average Average Expected Actual Average Average Average Salary Salary Age Service Salary Increase Increase October 1, 2014 N/A N/A N/A 4.00% 6.99% October 1, 2015 37.8 8.5 \$47,935 4.00% 8.58% October 1, 2016 4.00% -0.14% N/A N/A N/A October 1, 2017 37.2 9.7 \$57,084 14.36% 4.00% October 1, 2018 N/A N/A N/A 4.00% -1.73% October 1, 2019 38.1 6.4 \$54,944 4.00% 10.73% October 1, 2020 40.0 6.6 \$54,372 4.00% -1.48% October 1, 2021 39.6 5.6 \$53,940 4.00% 9.59% October 1, 2022 40.5 6.1 \$58,846 4.00% 5.80% 7.5 \$69,393 17.27% October 1, 2023 42.5 4.00%





▲ Eligible to retire▲ May be eligible to

May be eligible to retire

▲ Not eligible to retire



Active Age-Service-Salary Table

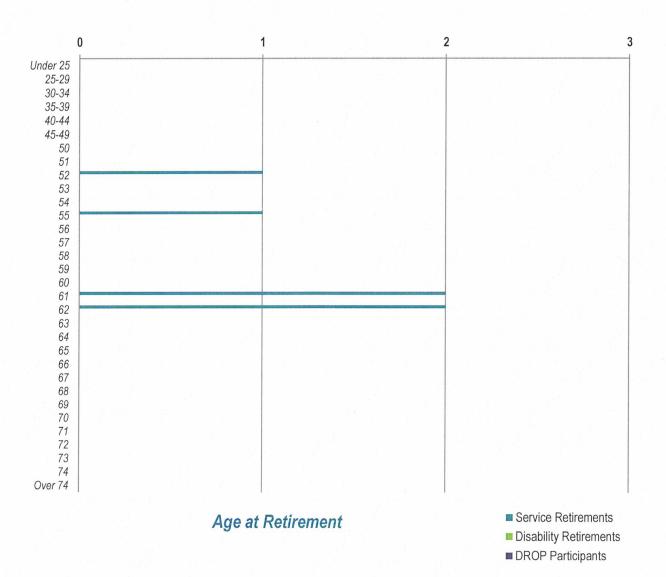
Table III-E

Attained					Complet	ed Years o	f Service				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
7.5											
Under 25	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	U
25 to 29	1	1	0	0	0	0	0	0	0	0	2
Avg.Pay	43,071	64,712	0	0	0	0	0	0	0	0	53,892
								1 2"	7 171		
30 to 34	0	1	1	0	0	0	0	0	0	0	2
Avg.Pay	0	52,641	70,882	0	0	0	0	0	0	0	61,762
35 to 39	0	2	2	0	1	0	0	0	0	0	5
Avg.Pay	0	61,787	67,321	0	93,132	0	0	0	0	0	70,269
7 9		.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,					-	1911
40 to 44	0	3	0	0	1	1	0	0	0	0	5
Avg.Pay	0	59,286	0	0	83,497	111,303	0	0	0	0	74,532
45.40			2.0								
45 to 49	0 0	2 54,612	1 59,432	0 0	0 0	0 0	0 0	0	0	0 0	50 010
Avg.Pay		54,612	39,432	0	U	0	0	0	0		56,218
50 to 54	0	0	0	0	0	1	1	0	0	0	2
Avg.Pay	0	0	0	0	0	92,134	95,533	0	0	0	93,834
		100	100								
55 to 59	0	1	1	0	0	0	0	0	0	0	2
Avg.Pay	0	67,479	92,823	0	0	0	0	0	0	0	80,151
60 to 64	1	0	0	0	0	0	0	0	0	0	1
Avg.Pay	54,722	0	0	0	0	0	0	0	0	0	54,722
	- ,								1 - 1 -	9-21	.,,
65 & up	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
Total Avg.Pay	2 48,897	10 59,549	5 71,556	0 0	2 88,315	2 101,719	95,533	0 0	0	0	22 69,393
Avg.i ay	40,007	00,040	7 1,000	0	00,010	101,710	00,000	0	0	٥	00,000



Inactive Participant Data

Table III-F



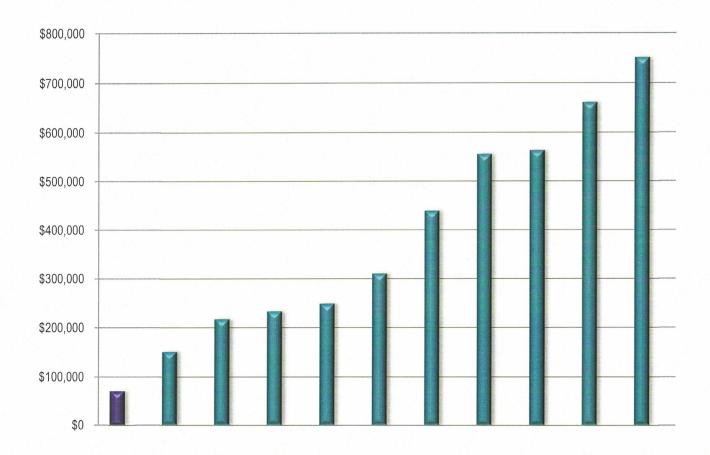
Average Monthly Benefit

Service Retirements	\$1,530.93
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Deferred Vested Participants	\$1,665.36
Deferred Beneficiaries	\$4.881.73



Projected Benefit Payments

Table III-G



<u>Actual</u>		
For the period October 1, 2022 through September 30, 2023	\$70,559	
<u>Projected</u>		
For the period October 1, 2023 through September 30, 2024	\$151,064	
For the period October 1, 2024 through September 30, 2025	\$217,733	
For the period October 1, 2025 through September 30, 2026	\$233,761	
For the period October 1, 2026 through September 30, 2027	\$249,057	
For the period October 1, 2027 through September 30, 2028	\$310,749	
For the period October 1, 2028 through September 30, 2029	\$440,090	
For the period October 1, 2029 through September 30, 2030	\$555,917	
For the period October 1, 2030 through September 30, 2031	\$563,395	
For the period October 1, 2031 through September 30, 2032	\$661,411	
For the period October 1, 2032 through September 30, 2033	\$751,956	



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 percentage of payroll. The level funding percentage is calculated as the excess of the total future benefit liability over accumulated assets and future employee contributions, with this excess spread over the expected future payroll for current active participants. The normal cost is equal to the level funding percentage multiplied by the expected payroll for 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, adjusted to reflect a five-year phase-in of the unexpected investment gains and losses.

3. Interest (or Discount) Rate

6.75% per annum

4. Salary Increases

Plan compensation is assumed to increase at the rate of 4.00% per annum, unless actual plan compensation is known for a prior plan year.

5. Decrements

• Pre-retirement mortality: None is assumed.

Post-retirement mortality:
 For non-disabled re

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



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

• Disability:

None is assumed.

Termination:

None is assumed.

• Retirement:

Retirement is assumed to occur at the most valuable retirement age.

6. Form of Payment

Future retirees have been assumed to select the 10-year certain and life annuity.

7. Marriage Assumption

For purposes of determining the liability attributable to the health insurance supplement, all participants are assumed to be married upon their death after retirement, with husbands assumed to be three years older than wives.

8. Expenses

Administrative expenses are assumed to be equal to 1.00% of covered payroll. 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

No assumptions or methods were changed since the completion of the previous valuation.

The following additional assumption and method changes were made during the past 10 years:

- (1) Effective October 1, 2021, the interest (or discount) rate was decreased from 7.00% per annum to 6.75% per annum.
- (2) Effective October 1, 2020, the mortality basis was changed from the RP-2000 Blue Collar Mortality Table with generational improvements in mortality using Scale BB to selected PUB-2010 Mortality Tables with generational improvements in mortality using Scale MP-2018.
- (3) Effective October 1, 2020, the actuarial value of assets was changed from the market value of assets to the market value adjusted to reflect a five-year phase-in of the unexpected investment gains and losses.
- (4) Effective October 1, 2017, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Blue Collar Mortality Table as required by State law.
- (5) Effective October 1, 2013, the interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.
- (6) Effective October 1, 2013, the assumed increase in future salaries was changed from a range of rates based on service to 4.00% per year.
- (7) Effective October 1, 2013, the additional 4.00% increase in compensation during the last year prior to retirement was removed.
- (8) Effective October 1, 2013, the mortality basis was changed from the 1994 Group Annuity Reserving Table, projected to 2002 by Scale AA, to the RP-2000 Mortality Table for annuitants, projected to 2015 by Scale AA, as published by the Internal Revenue Service (IRS) for purposes of Internal Revenue Code (IRC) section 430.



Table V-A

1. Monthly Accrued Benefit

3% of Average Final Compensation multiplied by Credited Service

2. Normal Retirement Age and Benefit

Age

Age 55 with at least six years of Credited Service; or Any age with at least 25 years of Credited Service

Amount

Monthly Accrued Benefit

Form of Payment

Actuarially increased single life annuity (optional);

10-year certain and life annuity (normal form of payment);

Actuarially reduced 50% joint and contingent annuity (optional);

Actuarially reduced 66²/₃% joint and contingent annuity (optional);

Actuarially reduced 75% joint and contingent annuity (optional);

Actuarially reduced 100% joint and contingent annuity (optional);

Any other actuarially equivalent form of payment approved by the Board; or

Actuarially equivalent lump sum distribution (automatic if the single sum value of the participant's benefit is less than or equal to \$5,000 or the monthly annuity is less than \$100)

(Note: A participant may change his joint annuitant up to two times after retirement.)

3. Early Retirement Age and Benefit

Age

Age 50 with at least 10 years of Credited Service

Amount

Monthly Accrued Benefit (payable at Normal Retirement Age); or

Monthly Accrued Benefit reduced by 3% for each year by which the participant's Early Retirement Date precedes his Normal Retirement Date (payable at Early Retirement Age)

Form of Payment

Same as for Normal Retirement



Table V-A

(continued)

4. Service Incurred Disability Eligibility and Benefit

Eligibility

The participant is eligible if his disability was incurred during the course of his employment with the City.

Condition

The Board must find that the participant has a physical or mental condition resulting from bodily injury, disease, or a mental disorder which renders him incapable of employment as a police officer.

Amount Payable

A monthly 10-year certain and life annuity equal to the larger of (a) or (b), as follows, but offset as necessary to preclude the total of the participant's worker's compensation, disability benefit, and other City-provided disability compensation from exceeding his Average Monthly Earnings:

- (a) Monthly Accrued Benefit; or
- (b) 65% of Average Final Compensation

5. Non-Service Incurred Disability Eligibility and Benefit

Eligibility

The participant must have earned at least 10 years of Credited Service if his disability was incurred other than during the course of his employment with the City.

Condition

Same as for a Service Incurred Disability Benefit

Amount Payable

A monthly 10-year certain and life annuity equal to the larger of (a) or (b), as follows, but offset as necessary to preclude the total of the participant's worker's compensation, disability benefit, and other City-provided disability compensation from exceeding his Average Monthly Earnings:

- (a) Monthly Accrued Benefit; or
- (b) 25% of Average Final Compensation

6. Delayed Retirement Age and Benefit

Age

After Normal Retirement Age

Amount

Monthly Accrued Benefit

Form of Payment

Same as for Normal Retirement



Table V-A

(continued)

7. Deferred Vested Benefit

Age

Any age with at least six years of Credited Service

Amount

Monthly Accrued Benefit (payable at Normal Retirement Age); or Monthly Accrued Benefit reduced by 3% for each year by which the participant's Early Retirement Date precedes his Normal Retirement Date (payable at Early Retirement Age)

Form of Payment

Same as for Normal Retirement

8. Pre-Retirement Death Benefit

In the case of the death of a vested participant prior to retirement, his beneficiary will receive the participant's Monthly Accrued Benefit payable for 10 years beginning on the participant's early or normal retirement date. In the case of the death of a non-vested participant prior to retirement, his beneficiary will receive the participant's Accumulated Contributions in lieu of any other benefits payable from the plan.

9. Average Final Compensation

Average of the highest five years of Compensation out of the last 10 years of employment (or career average, if higher).

10. Compensation

Compensation means the total cash remuneration; annual compensation in excess of \$200,000 (as indexed) is excluded in accordance with IRC §401(a)(17).

11. Credited Service

The elapsed time from the participant's date of hire until his date of termination, retirement, or death.

12. Participation Requirement

All police officers of the City of Green Cove Springs, Florida automatically become a participant in the plan on their date of hire.



Table V-A

(continued)

13. Accumulated Contributions

The Employee Contributions accumulated with no interest; if the participant terminates his employment with less than six years of Credited Service, he receives his Accumulated Contributions in lieu of any other benefits payable from the plan.

14. Participant Contribution

1.00% of earnings

15. Automatic Cost-of-Living Adjustment

All monthly benefits include an automatic cost-of-living adjustment (COLA) equal to 1.50% compounded annually. The COLA is effective as of each October 1 after the participant has been retired for at least one year.

16. Health Insurance Supplement

All participants who retire with a normal or disability retirement benefit, as well as spouses who are entitled to receive a monthly benefit, receive a monthly health insurance supplement equal to \$8.00 for each year of service, to a maximum of \$200.00 per month. The supplement is payable for the lifetime of the participant or his spouse.

17. Definition of Actuarially Equivalent

Interest Rate

6.75% per annum

Mortality Table

Mortality table promulgated by the IRS for purposes of calculating lump sum distributions pursuant to IRC section 417(e)(3)

18. Plan Effective Date

January 1, 1996

19. Deferred Retirement Option Plan (DROP)

Those participants who have attained Normal Retirement Age may elect to participate in the DROP for a period of up to five years following their Normal Retirement Age. Interest accrues on the DROP accounts at the rate of 6.50% per annum.



Summary of Plan Amendments

Table V-B

No significant plan changes were adopted since the completion of the previous valuation.

