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

Actuarial Valuation As of October 1, 2021

Determines the Contribution For the 2021/22 Fiscal Year



		<u>Page</u>
Discussion		1
Funding Resultable 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 R GASB 67/68 S	<u>esults</u> upplement as of September 30, 2021	
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 & As Table IV-A Table IV-B	Sumptions Summary of Actuarial Methods and Assumptions Changes in Actuarial Methods and Assumptions	IV-1 IV-3
Plan Provision Table V-A Table V-B	ns Summary of Plan Provisions Summary of Plan Amendments	V-1 V-5



June 13, 2022

Introduction

This report presents the results of the October 1, 2021 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, 2021 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2021/22 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 2021/22 plan year. The minimum required contribution rate is 21.29% of covered payroll, which represents an increase of 0.78% of payroll from the prior valuation.

The normal cost rate is 20.82%, which is 1.05% 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 decreased by 1.38% of payroll due to investment gains, decreased by another 1.54% of payroll due to demographic experience, and increased by 3.97% of payroll due to the assumption change that is described below. The market value of assets earned 19.21% during the 2020/21 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 earned 10.01% during the 2020/21 plan year, whereas a 7.00% 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 2021/22 minimum required contribution will be equal to 21.29% multiplied by the total pensionable earnings for the 2021/22 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 2021/22 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 \$10,122,691. As illustrated in Table I-A, current assets are sufficient to cover \$7,521,183 of this amount, the employer's 2021/22 expected contribution will cover \$262,718 of this amount, and future employee contributions are expected to cover \$119,249 of this amount, leaving \$2,219,541 to be covered by future employer funding beyond the 2021/22 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, 2021, the advance employer contribution is \$87,285, which reflects the \$50,324 balance as of October 1, 2020 plus \$36,961 of actual employer contributions in excess of the minimum required contribution for the 2020/21 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 2021/22 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.

Actuarial Assumption Change

Since the completion of the previous valuation, the assumed interest (or discount) rate was decreased from 7.00% per annum to 6.75% per annum. The impact of this assumption change was to increase the normal cost rate by 3.97% of payroll.

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, 2021, 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 J. Carrying

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

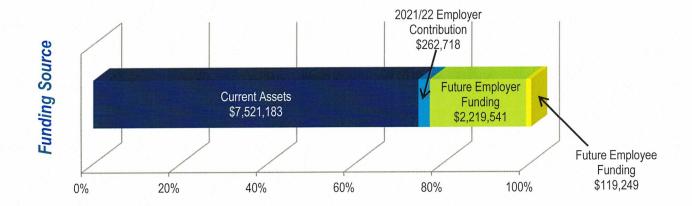
Enrolled Actuary No. 20-04927

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 2021/22 Plan Year

Minimum Required Contribution R	Rate 21.29%
Expected Payroll for the 2021/22 Plan	Year ÷ \$1,234,144
Preliminary Employer Contribution for the 2021/22 Plan	Year \$262,718
Adjustment to Reflect Bi-Weekly Employer Contribu	
Normal	1
Expected Pa	ayroll x \$1,234,144
Normal Cost	Rate = 20.8159%
Present Value of Future Pa	ayroll ÷ \$11,924,808
Present Value of Future Normal C	Costs \$2,482,259
Present Value of Future Employee Contribu	tions (\$119,249)
Actuarial Value of As	ssets (\$7,521,183)
Present Value of Future Administrative Expe	enses \$119,248
Present Value of Future Ber	nefits \$10,003,443

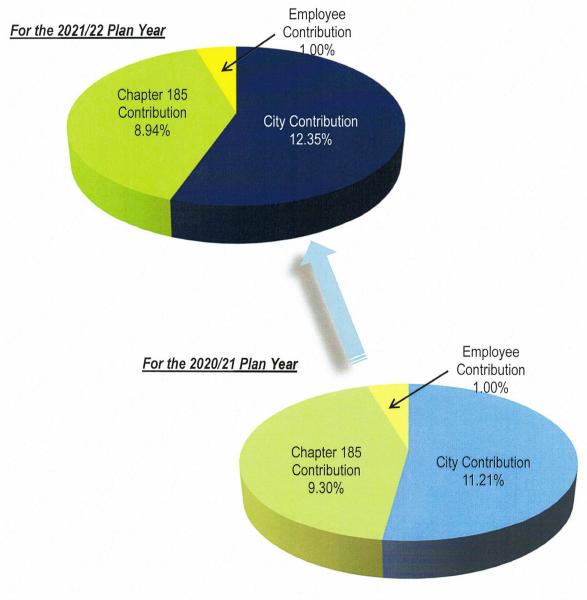
(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)



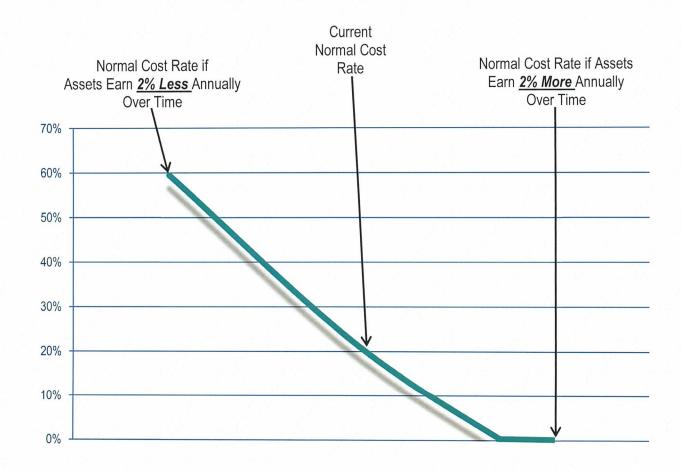
Minimum Required Contribution

Table I-A (continued)

The minimum required contribution rate of 21.29% 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 12.35% based on the allowable Chapter 185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2021/22 plan year based on the expected payroll. A comparative chart shows the contribution rate by source for the previous plan year.







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

Previous normal cost rate	19.77%
Increase (decrease) due to investment gains and losses	-1.38%
Increase (decrease) due to demographic experience	-1.54%
Increase (decrease) due to plan amendments	0.00%
Increase (decrease) due to actuarial assumption changes	3.97%
Increase (decrease) due to actuarial method changes	0.00%
Current normal cost rate	20.82%



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	\$7,051,856	\$7,051,856	\$7,459,951
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$7,051,856	\$7,051,856	\$7,459,951
Deferred Vested Participants			
Retirement benefits	\$846,890	\$846,890	\$890,430
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$846,890	\$846,890	\$890,430
Due a Refund of Contributions	\$13,273	\$13,273	\$13,273
<u>Deferred Beneficiaries</u>	\$570,271	\$570,271	\$594,934
Retired Participants			
Service retirements	\$1,015,748	\$1,015,748	\$1,044,855
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,015,748	\$1,015,748	\$1,044,855
Grand Total	<u>\$9,498,038</u>	<u>\$9,498,038</u>	<u>\$10,003,443</u>
Present Value of Future Payroll	\$11,718,386	\$11,718,386	\$11,924,808
Present Value of Future Employee Contribs.	\$117,184	\$117,184	\$119,249
Present Value of Future Employer Contribs.	\$1,976,855	\$1,976,855	\$2,482,259



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	\$2,520,233	\$2,520,233	\$2,628,918
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$2,520,233	\$2,520,233	\$2,628,918
Deferred Vested Participants			
Retirement benefits	\$846,890	\$846,890	\$890,430
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$846,890	\$846,890	\$890,430
Due a Refund of Contributions	\$13,273	\$13,273	\$13,273
<u>Deferred Beneficiaries</u>	\$570,271	\$570,271	\$594,934
Retired Participants			
Service retirements	\$1,015,748	\$1,015,748	\$1,044,855
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,015,748	\$1,015,748	\$1,044,855
Grand Total	<u>\$4,966,415</u>	<u>\$4,966,415</u>	<u>\$5,172,410</u>
Funded Status	165.68%	165.68%	159.08%

(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	\$2,266,183	\$2,266,183	\$2,360,501
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$2,266,183	\$2,266,183	\$2,360,501
Deferred Vested Participants			
Retirement benefits	\$846,890	\$846,890	\$890,430
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$846,890	\$846,890	\$890,430
Due a Refund of Contributions	\$13,273	\$13,273	\$13,273
<u>Deferred Beneficiaries</u>	\$570,271	\$570,271	\$594,934
Retired Participants			
Service retirements	\$1,015,748	\$1,015,748	\$1,044,855
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,015,748	\$1,015,748	\$1,044,855
Grand Total	<u>\$4,712,365</u>	<u>\$4,712,365</u>	\$4,903,993



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	\$3,369,623	\$3,369,623	\$3,502,303
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$3,369,623	\$3,369,623	\$3,502,303
Deferred Vested Participants			
Retirement benefits	\$846,890	\$846,890	\$890,430
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$846,890	\$846,890	\$890,430
Due a Refund of Contributions	\$13,273	\$13,273	\$13,273
<u>Deferred Beneficiaries</u>	\$570,271	\$570,271	\$594,934
Retired Participants			
Service retirements	\$1,015,748	\$1,015,748	\$1,044,855
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,015,748	\$1,015,748	\$1,044,855
Grand Total	<u>\$5,815,805</u>	<u>\$5,815,805</u>	<u>\$6,045,795</u>



Actuarial Value of Assets

Table II-A

<u>Unexpected Invest</u>	<u>tment Gain (Loss)</u>	<u>Unrecog</u>	<u>nized Gain (Loss)</u>
For the 2017/18 plan year	\$19,269	x 20%	\$3,854
For the 2018/19 plan year	(\$85,796)	x 40%	(\$34,318)
For the 2019/20 plan year	(\$25,509)	x 60%	(\$15,305)
For the 2020/21 plan year	\$831,807	x 80%	\$665,446
			\$619,677

Market Value of Assets as of October 1, 2021 \$8,228,145

Minus advance employer contributions (\$87,285)

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

(\$619,677)

Actuarial Value of Assets as of October 1, 2021

\$7,521,183

Historical Actuarial V	alue of Assets	
October 1, 2012	\$2,401,711	
October 1, 2013	\$2,916,857	
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	
October 1, 2019	\$6,009,936	
October 1, 2020	\$6,662,471	
October 1, 2021	\$7,521,183	

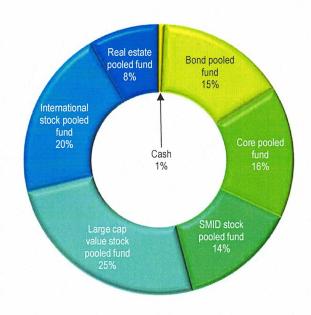


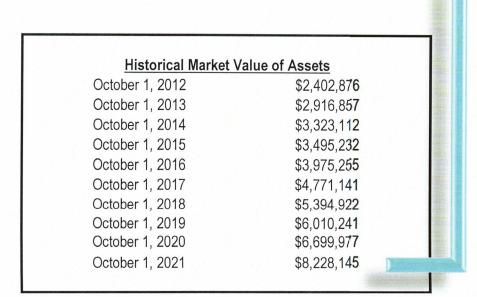
Market Value of Assets

Table II-B

As of October 1, 2021

Market Value of Assets	\$8,228,145
Cash	\$57,823
Bond pooled fund	\$1,280,371
Core pooled fund	\$1,305,152
SMID stock pooled fund	\$1,148,204
Large cap value stock pooled fund	\$2,089,896
International stock pooled fund	\$1,685,133
Real estate pooled fund	\$693,878
Employee contribution receivable	\$490

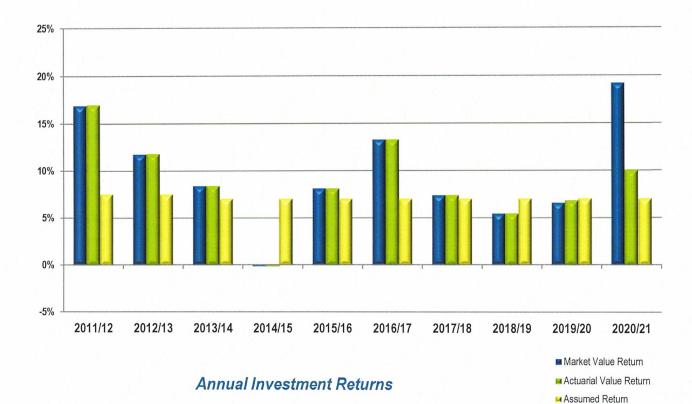






Investment Return

Table II-C



	Market	Actuarial		
Plan	Value	Value	Assumed	
Year	Return	Return	Return	
2011/12	16.90%	16.99%	7.50%	
2012/13	11.75%	11.80%	7.50%	
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%	
10yr. Avg.	9.56%	8.72%	7.10%	



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2020	\$6,699,977	\$6,662,471
Increases Due To:		
Employer Contributions	\$183,182	\$183,182
Chapter 175/185 Contributions	\$114,750	\$114,750
Employee Contributions	\$13,046	\$13,046
Service Purchase Contributions	\$0	\$0
Total Contributions	\$310,978	\$310,978
Interest and Dividends	\$0	
Realized Gains (Losses)	\$0	
Unrealized Gains (Losses)	\$1,308,368	
Total Investment Income	\$1,308,368	\$675,873
Other Income	\$0	
Total Income	\$1,619,346	\$986,851
Decreases Due To:		
Monthly Benefit Payments	(\$59,440)	(\$59,440)
Refund of Employee Contributions	(\$1,148)	(\$1,148)
Total Benefit Payments	(\$60,588)	(\$60,588)
Investment Expenses	\$0	
Administrative Expenses	(\$30,590)	(\$30,590)
Advance Employer Contribution		(\$36,961)
Total Expenses	(\$91,178)	(\$128,139)
As of October 1, 2021	\$8,228,145	\$7,521,183



Historical Trust Fund Detail

Table II-E

<u>Income</u>								
				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	<u>Dividends</u>	Losses	Losses	Income
2011/12	\$130,334	\$70,453	\$7,107	\$0	\$0	\$0	\$333,897	\$0
2012/13	\$164,021	\$66,408	\$7,527	\$0	\$0	\$0	\$295,219	\$0
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

Expenses					Other Actuarial Adjustments
	Monthly				Advance
Plan	Benefit	Contrib.	Admin.	Invest.	Employer
Year	Payments	Refunds	Expenses	Expenses	Contribs.
2011/12	\$5,352	\$0	\$15,903	\$0	-\$17,895
2012/13	\$7,597	\$0	\$11,597	\$0	\$0
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

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, 2020	\$50,324
Additional Employer Contribution Minimum Required Contribution Net Increase in Advance Employer Contribution	\$297,932 (\$260,971) \$36,961
Advance Employer Contribution as of October 1, 2021	\$87,285
Advance Employer Continuation as of October 1, 2021	ψ01,203
Excess Chapter 175/185 Contribution	
Excess Chapter 175/185 Contribution as of October 1, 2020	\$9,611
Additional Chapter 175/185 Contribution Allowable Chapter 175/185 Contribution	\$135,826 (\$114,750)
Transfer to Share Plan Net Increase in Excess Chapter 175/185 Contribution	(\$30,687) (\$9,611)
Excess Chapter 175/185 Contribution as of October 1, 2021	\$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>	<u>Distribution</u>	Amount	
	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)	
	Interest Adjustment				\$9,792	
Tr	ansfer to Share Plan				(\$30,687)	

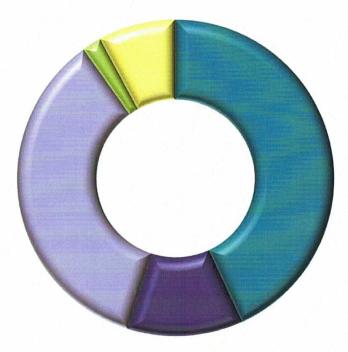


51

Summary of Participant Data

Table III-A

As of October 1, 2021



Participant Distribution by Status

Total Participants	51
Beneficiaries Receiving	0
Disability Retirements	0
Service Retirements	4
Participants Receiving a Benefit	
Deterred Beneficiality	
Deferred Beneficiaries	1
Due a Refund of Contributions	18
 Deferred Vested Participants 	6
Inactive Participants	
DROP Participants	0
Active Participants	22
Actively Employed Participants	

	Active	DROP	Inactive	Retired	Total
October 1, 2012	N/A	N/A	N/A	N/A	N/A
October 1, 2013	16	0	4	2	22
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



Data Reconciliation

Table III-B

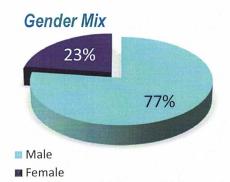
	<u>Active</u>	DROP	Deferred <u>Vested</u>	Due a <u>Refund</u>	Def. <u>Benef.</u>	Service Retiree	Disabled <u>Retiree</u>	Benef. Rec'v.	<u>Total</u>
October 1, 2020	22	0	6	14	0	3	0	0	45
Change in Status Re-employed Terminated Retired	(5) (1)			5		1			
Participation Ended Transferred Out Cashed Out Died	(1)			(1)					(1) (1)
Participation Began Newly Hired Transferred In New Beneficiary	7				1				7
Other Adjustment October 1, 2021	22	0	6	18	1	4	0	0	51



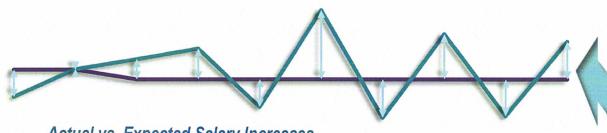
Active Participant Data

Table III-C

As of October 1, 2021



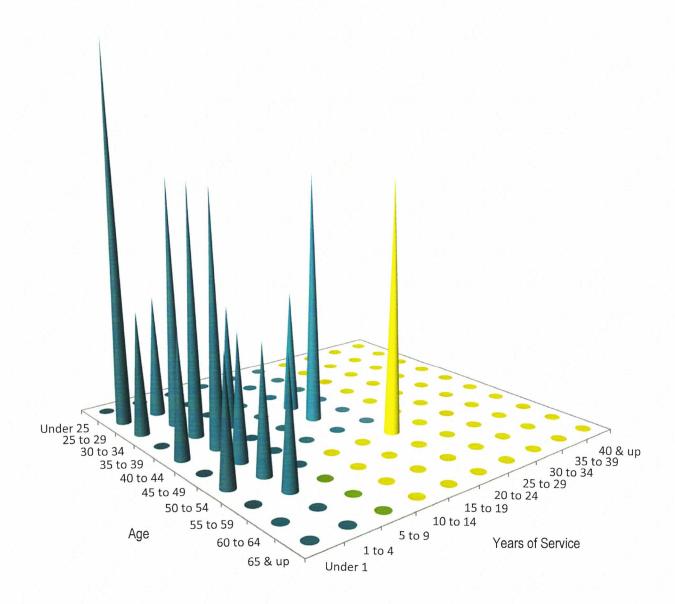
Average Age	39.6 years
Average Service	5.6 years
Total Annualized Compensation for the Prior Year	\$1,186,675
Total Expected Compensation for the Current Year	\$1,234,144
Average Increase in Compensation for the Prior Year	9.59%
Expected Increase in Compensation for the Current Year	4.00%

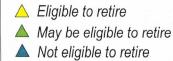


Actual vs. Expected Salary Increases

Active Participant Statistics From Prior Valuations Average Average Expected Actual Average Average Average Salary Salary Service Age Salary Increase Increase October 1, 2012 N/A 5.46% N/A N/A 1.38% October 1, 2013 37.4 8.2 \$42,158 5.53% 5.46% 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 N/A N/A N/A 4.00% -0.14% October 1, 2017 37.2 9.7 \$57,084 4.00% 14.36% 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 -1.48% 40.0 6.6 \$54,372 4.00% October 1, 2021 9.59% 39.6 5.6 \$53,940 4.00%









Active Age-Service-Salary Table

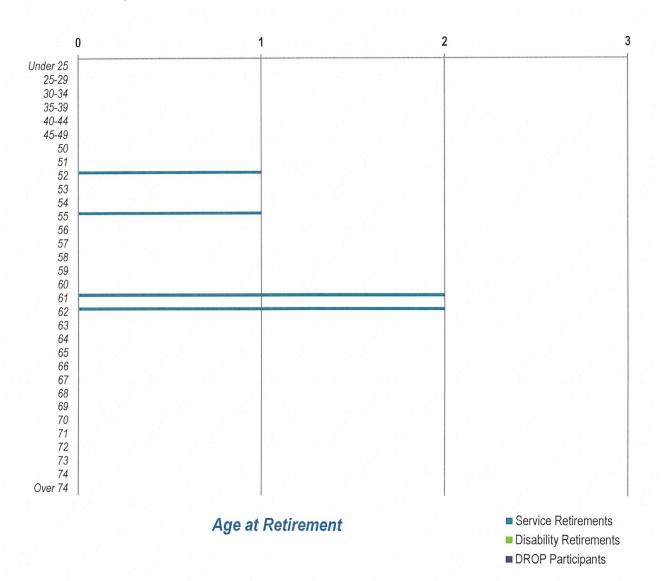
Table III-E

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
Under 25 Avg.Pay	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
25 to 29	3	1	0	0	0	0	0	0	0	0	4
Avg.Pay	29,125	53,516	0	0	0	0	0	0	0	0	35,223
30 to 34 Avg.Pay	1 43,813	2 49,813	0 0	0	0	0 0	0	0	0 0	0 0	3 47,813
35 to 39	0	2	1	0	1	0	0	0	0	0	4
Avg.Pay	0	58,491	60,156	0	72,999	0	0	0	0	0	62,534
40 to 44 Avg.Pay	1 41,439	2 50,201	0 0	0 0	2 70,538	0 0	0 0	0 0	0 0	0 0	5 56,583
45 to 49	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	54,409	0	0	0	0	0	0	0	0	54,409
50 to 54 Avg.Pay	50,810	1 69,421	0 0	0 0	0 0	2 69,324	0 0	0 0	0 0	0 0	4 64,720
55 to 59 Avg.Pay	0	1 56,004	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 56,004
60 to 64	0	0	0	0	0	0	0	0	0	0	00,004
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
65 & up Avg.Pay	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
Total Avg.Pay	6 37,240	10 55,036	1 60,156	0	3 71,358	2 69,324	0 0	0 0	0 0	0	22 53,940



Inactive Participant Data

Table III-F



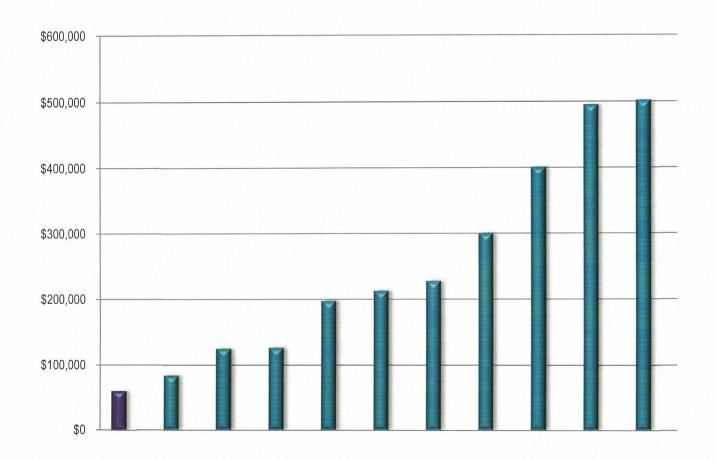
Average Monthly Benefit

Service Retirements	\$1,486.01
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Deferred Vested Participants	\$1,665.36
Deferred Beneficiaries	\$4,810.29



Projected Benefit Payments

Table III-G



<u>Actual</u>			
For the period October 1, 2020 through September 30, 2021			\$60,588

Projected For the period October 1, 2021 through September 30, 2022 \$84,269 For the period October 1, 2022 through September 30, 2023 \$125,329 For the period October 1, 2023 through September 30, 2024 \$126,792 For the period October 1, 2024 through September 30, 2025 \$197,916 For the period October 1, 2025 through September 30, 2026 \$212,889 For the period October 1, 2026 through September 30, 2027 \$227,837 For the period October 1, 2027 through September 30, 2028 \$300,367 For the period October 1, 2028 through September 30, 2029 \$400,767 For the period October 1, 2029 through September 30, 2030 \$495,650 For the period October 1, 2030 through September 30, 2031 \$502,204



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 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

Since the completion of the previous valuation, the interest (or discount) rate was decreased from 7.00% per annum to 6.75% per annum.

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

- (1) 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.
- (2) 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.
- (3) 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.
- (4) Effective October 1, 2013, the interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.
- (5) 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.
- (6) Effective October 1, 2013, the additional 4.00% increase in compensation during the last year prior to retirement was removed.
- (7) 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.

