

Retirement Plan for the Police Officers
Of the City of Gulf Breeze

Actuarial Valuation
As of October 1, 2021

Determines the Contribution
For the 2022/23 Fiscal Year



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February 17, 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 Gulf Breeze. 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 2022/23 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 2022/23 plan year. The minimum required contribution rate is 17.76% of covered payroll, which represents a decrease of 11.85% of payroll from the prior valuation.

The normal cost rate is 18.53%, which is 11.18% lower 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 7.09% of payroll due to investment gains and decreased by another 4.09% of payroll due to demographic experience. The market value of assets earned 19.02% 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 2022/23 minimum required contribution will be equal to 17.76% multiplied by the total pensionable earnings for the 2022/23 plan 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 2022/23 plan year. As of the date of this report, the allowable portion of the Chapter 175/185 contribution is \$58,434 per 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 \$8,825,795. As illustrated in Table I-A, current assets are sufficient to cover \$6,748,777 of this amount, the employer's 2021/22 expected contribution will cover \$272,212 of this amount, the employer's 2022/23 expected contribution will cover \$169,769 of this amount, and future employee contributions are expected to cover \$368,679 of this amount, leaving \$1,266,358 to be covered by future employer funding beyond the 2022/23 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 \$303,539, which reflects the advance employer contribution of \$245,105 as of October 1, 2020 plus \$58,434 which was contributed 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 *extra* contribution in excess of the minimum required contribution. In this case, the immediate application of the entire balance of the advance employer contribution as of October 1, 2021 would reduce the normal cost rate to 15.24% of payroll and would reduce the minimum required contribution for the 2022/23 plan year to 14.25% of payroll.

Excess Chapter 175/185 Contributions

As of October 1, 2021, the plan has no accumulated excess Chapter 175/185 contributions as shown in Table II-F. Chapter 175/185 contributions in excess of \$58,434 each year are transferred to the share plan. The total Chapter 175/185 distribution received during the 2020/21 plan year was \$78,422, of which \$58,434 was allowed to be used to offset the City's minimum required contribution. Table II-G provides a history of the Chapter 175/185 contributions and the portion that is allowed to be recognized.



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. 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 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 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. Specifically, Table II-A shows the development of the actuarial value of assets, which is based on the market value adjusted to reflect any excess Chapter 175/185 contributions and advance employer contributions. 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.

Refund of Participant Contributions

It is our understanding that there are seven participants who are due a refund of their employee contributions. We have estimated the accumulated amount of their refunds to be \$14,296 as of October 1, 2021. The average amount owed is \$1,588. If possible, we recommend that the accumulated contributions be distributed to these individuals in order to simplify the administration of the plan and to reduce future administrative costs.

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

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

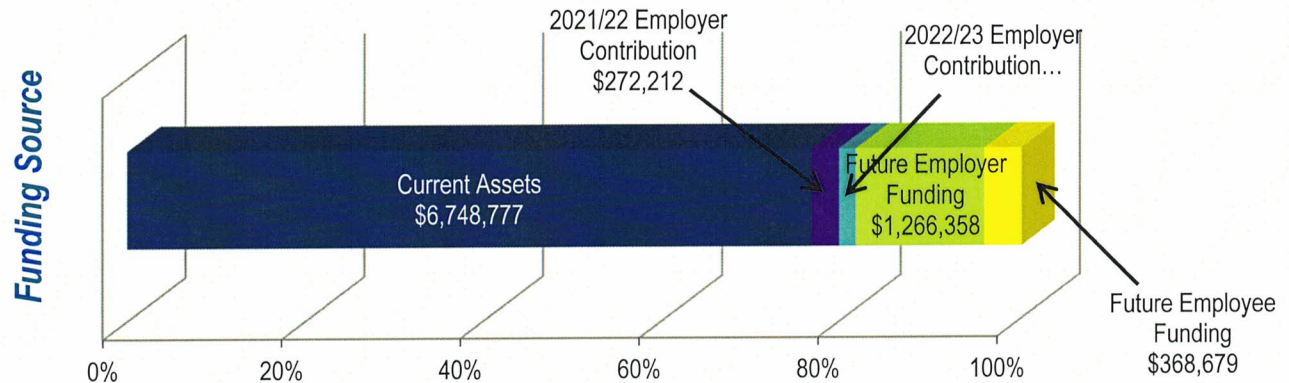
Enrolled Actuary No. 20-04927

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 2022/23 Plan Year

Present Value of Future Benefits	\$8,674,000
Present Value of Future Administrative Expenses	\$151,795
Actuarial Value of Assets	(\$6,748,777)
Present Value of Future Employee Contributions	(\$368,679)
Present Value of Future Normal Costs	\$1,708,339
Present Value of Future Payroll	÷ \$9,216,993
Normal Cost Rate	= 18.5347%
Expected Payroll	x \$919,323
Normal Cost	\$170,393
Adjustment to Reflect Semi-Monthly Employer Contributions	\$6,078
Expected Employer Contribution for the 2021/22 Plan Year	(\$272,212)
Remaining Contribution Due/(Credit) for the 2021/22 Plan Year	(\$95,741)
	x 0.07
One Year's Interest Charge/(Credit) on the Remaining Contribution	(\$6,702)
Preliminary Employer Contribution for the 2022/23 Plan Year	\$169,769
Expected Payroll for the 2022/23 Plan Year	÷ \$956,096

Minimum Required Contribution Rate **17.76%**

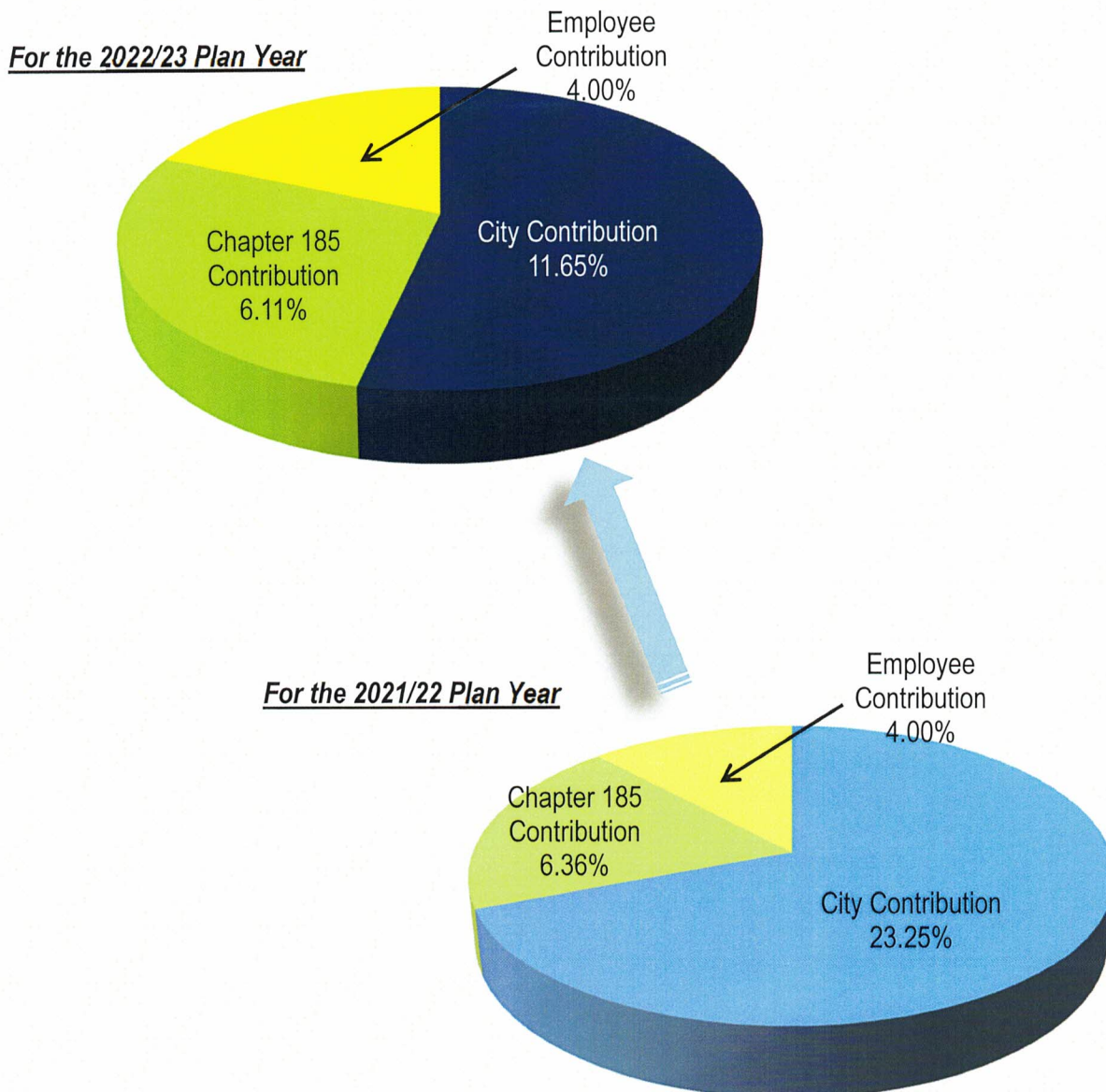
(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)



Minimum Required Contribution

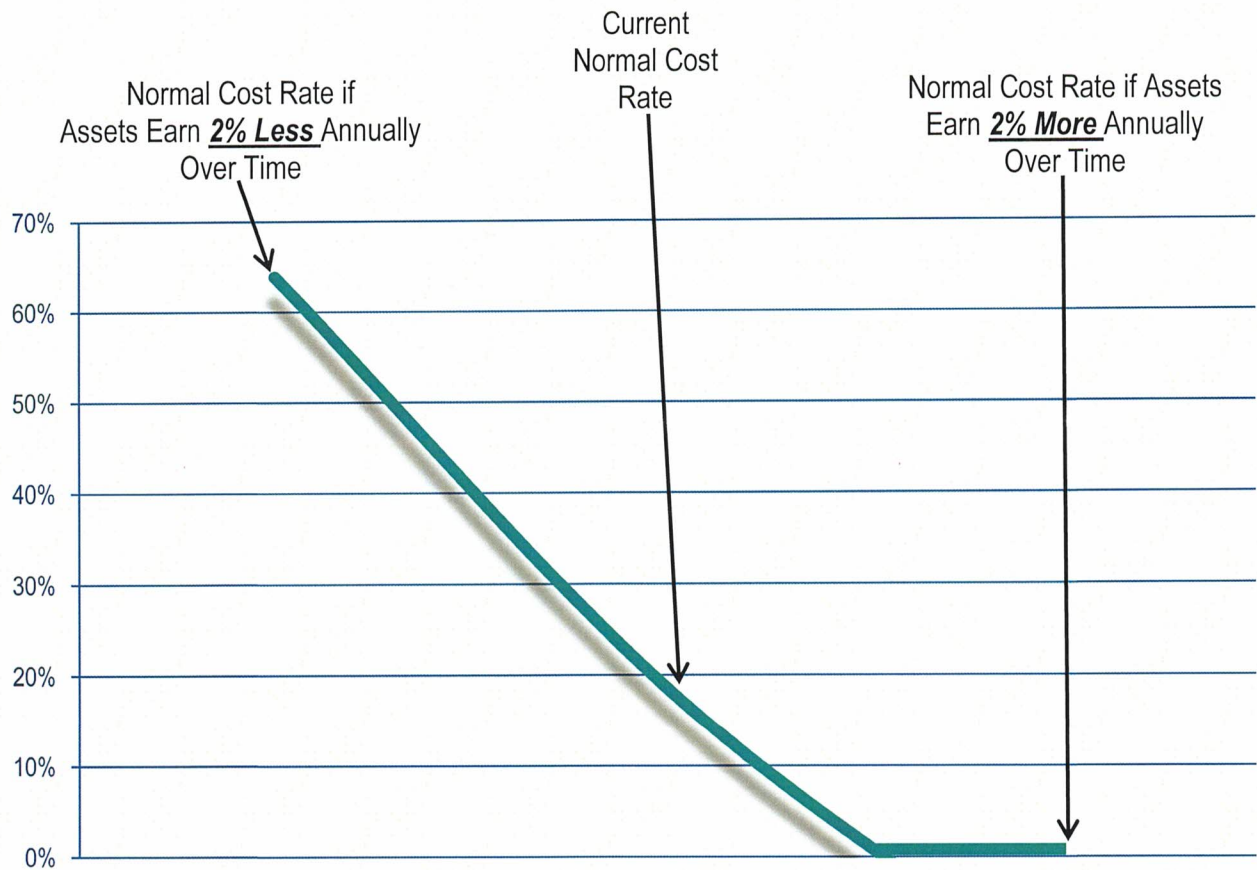
Table I-A
(continued)

The minimum required contribution rate of 17.76% includes both the City contribution and the allowable Chapter 185 contribution. In addition, employees are required to contribute 4.00% of pensionable earnings. The actual City contribution rate is expected to be approximately 11.65% based on the allowable Chapter 185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2022/23 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

Previous normal cost rate	29.71%
Increase (decrease) due to investment gains and losses	-7.09%
Increase (decrease) due to demographic experience	-4.09%
Increase (decrease) due to plan amendments	0.00%
Increase (decrease) due to actuarial assumption changes	0.00%
Increase (decrease) due to actuarial method changes	0.00%
Current normal cost rate	<u>18.53%</u>



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	\$6,996,248	\$6,996,248	\$6,996,248
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$6,996,248	\$6,996,248	\$6,996,248
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$1,058,297	\$1,058,297	\$1,058,297
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,058,297	\$1,058,297	\$1,058,297
<i><u>Due a Refund of Contributions</u></i>	\$14,296	\$14,296	\$14,296
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$605,159	\$605,159	\$605,159
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$605,159	\$605,159	\$605,159
<i><u>Grand Total</u></i>	<u>\$8,674,000</u>	<u>\$8,674,000</u>	<u>\$8,674,000</u>
Present Value of Future Payroll	\$9,216,993	\$9,216,993	\$9,216,993
Present Value of Future Employee Contribs.	\$368,679	\$368,679	\$368,679
Present Value of Future Employer Contribs.	\$1,708,339	\$1,708,339	\$1,708,339



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>
<u>Actively Employed Participants</u>			
Retirement benefits	\$2,920,243	\$2,920,243	\$2,920,243
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$2,920,243	\$2,920,243	\$2,920,243
<u>Deferred Vested Participants</u>			
Retirement benefits	\$1,058,297	\$1,058,297	\$1,058,297
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,058,297	\$1,058,297	\$1,058,297
<u>Due a Refund of Contributions</u>	\$14,296	\$14,296	\$14,296
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$605,159	\$605,159	\$605,159
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$605,159	\$605,159	\$605,159
<u>Grand Total</u>	<u>\$4,597,995</u>	<u>\$4,597,995</u>	<u>\$4,597,995</u>
<u>Funded Ratio</u>	153.38%	153.38%	153.38%

(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 <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<u>Actively Employed Participants</u>			
Retirement benefits	\$2,738,097	\$2,738,097	\$2,738,097
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$2,738,097	\$2,738,097	\$2,738,097
<u>Deferred Vested Participants</u>			
Retirement benefits	\$1,058,297	\$1,058,297	\$1,058,297
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,058,297	\$1,058,297	\$1,058,297
<u>Due a Refund of Contributions</u>	\$14,296	\$14,296	\$14,296
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$605,159	\$605,159	\$605,159
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$605,159	\$605,159	\$605,159
<u>Grand Total</u>	<u>\$4,415,849</u>	<u>\$4,415,849</u>	<u>\$4,415,849</u>



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
<u>Actively Employed Participants</u>			
Retirement benefits	\$3,806,314	\$3,806,314	\$3,806,314
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$3,806,314	\$3,806,314	\$3,806,314
<u>Deferred Vested Participants</u>			
Retirement benefits	\$1,058,297	\$1,058,297	\$1,058,297
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,058,297	\$1,058,297	\$1,058,297
<u>Due a Refund of Contributions</u>	\$14,296	\$14,296	\$14,296
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$605,159	\$605,159	\$605,159
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$605,159	\$605,159	\$605,159
<u>Grand Total</u>	<u>\$5,484,066</u>	<u>\$5,484,066</u>	<u>\$5,484,066</u>



Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1, 2021	\$7,052,316
Minus DROP account balances	\$0
Minus advance employer contributions	(\$303,539)
Minus excess Chapter 175/185 contributions	\$0
Actuarial Value of Assets as of October 1, 2021	<u>\$6,748,777</u>

Historical Actuarial Value of Assets

October 1, 2012	\$2,779,873
October 1, 2013	\$3,314,601
October 1, 2014	\$3,769,799
October 1, 2015	\$3,901,457
October 1, 2016	\$4,120,857
October 1, 2017	\$4,858,206
October 1, 2018	\$4,636,504
October 1, 2019	\$5,066,799
October 1, 2020	\$5,391,866
October 1, 2021	\$6,748,777

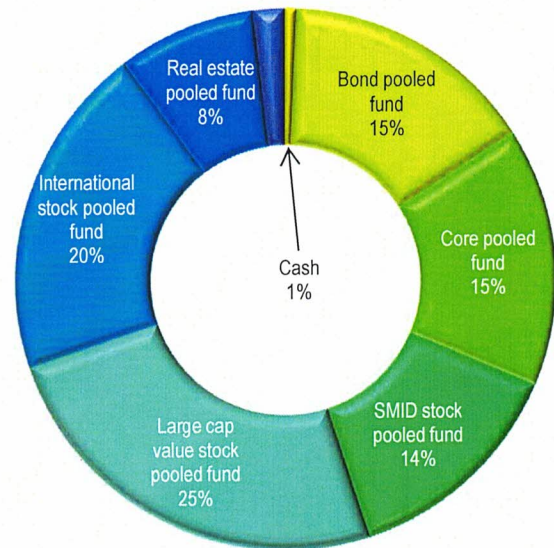


Market Value of Assets

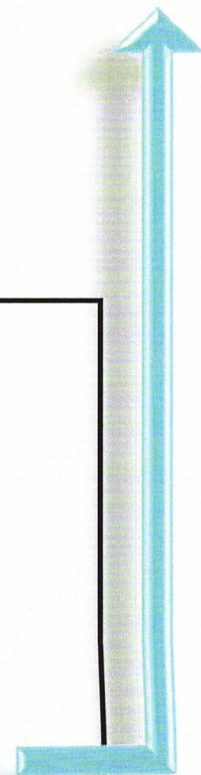
Table II-B

As of October 1, 2021**Market Value of Assets****\$7,052,316**

Cash	\$50,359
Bond pooled fund	\$1,115,093
Core pooled fund	\$1,136,676
SMID stock pooled fund	\$999,987
Large cap value stock pooled fund	\$1,820,120
International stock pooled fund	\$1,467,607
Real estate pooled fund	\$604,309
Payable to share plan	(\$141,835)

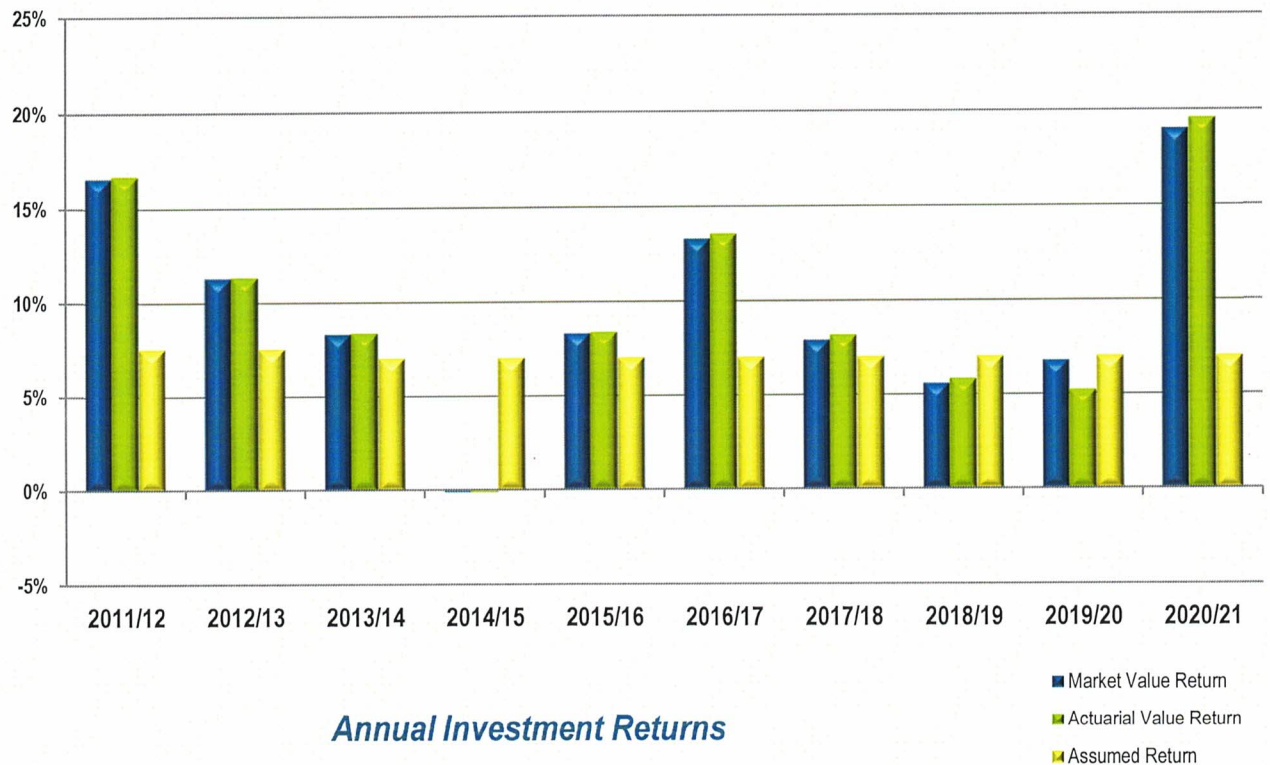
**Historical Market Value of Assets**

October 1, 2012	\$2,789,600
October 1, 2013	\$3,324,328
October 1, 2014	\$3,784,675
October 1, 2015	\$3,923,899
October 1, 2016	\$4,165,765
October 1, 2017	\$4,959,119
October 1, 2018	\$4,821,952
October 1, 2019	\$5,328,952
October 1, 2020	\$5,636,971
October 1, 2021	\$7,052,316



Investment Return

Table II-C



Plan Year	Market Value Return	Actuarial Value Return	Assumed Return
2011/12	16.59%	16.69%	7.50%
2012/13	11.28%	11.31%	7.50%
2013/14	8.31%	8.34%	7.00%
2014/15	-0.10%	-0.10%	7.00%
2015/16	8.30%	8.37%	7.00%
2016/17	13.29%	13.52%	7.00%
2017/18	7.91%	8.15%	7.00%
2018/19	5.56%	5.82%	7.00%
2019/20	6.79%	5.22%	7.00%
2020/21	19.02%	19.57%	7.00%
10yr. Avg.	9.57%	9.55%	7.10%



Asset Reconciliation

Table II-D

	<u>Market Value</u>	<u>Actuarial Value</u>
As of October 1, 2020	\$5,636,971	\$5,391,866
<i>Increases Due To:</i>		
Employer Contributions	\$292,426	\$292,426
Chapter 175/185 Contributions	\$78,422	\$78,422
Employee Contributions	\$38,490	\$38,490
Service Purchase Contributions	\$0	\$0
Total Contributions	<u>\$409,338</u>	<u>\$409,338</u>
Interest and Dividends	\$0	
Realized Gains (Losses)	\$0	
Unrealized Gains (Losses)	\$1,102,093	
Total Investment Income	<u>\$1,102,093</u>	\$1,082,105
Other Income	\$0	
Total Income	<u>\$1,511,431</u>	<u>\$1,491,443</u>
<i>Decreases Due To:</i>		
Monthly Benefit Payments	(\$52,788)	(\$52,788)
Refund of Employee Contributions	\$0	\$0
DROP Credits		\$0
Total Benefit Payments	<u>(\$52,788)</u>	<u>(\$52,788)</u>
Transfer to Share Plan	(\$19,988)	
Administrative Expenses	(\$23,310)	(\$23,310)
Advance Employer Contribution		(\$58,434)
Excess Chapter 175/185 Contribution		\$0
Total Expenses	<u>(\$96,086)</u>	<u>(\$134,532)</u>
As of October 1, 2021	<u><u>\$7,052,316</u></u>	<u><u>\$6,748,777</u></u>



Historical Trust Fund Detail

Table II-E

Income

Plan	Employer	Chapter	Employee	Service		Realized	Unrealized	Other
<u>Year</u>	<u>Contribs.</u>	<u>Contribs.</u>	<u>Contribs.</u>	<u>Purchase</u>	<u>Interest /</u>	<u>Gains /</u>	<u>Gains /</u>	<u>Income</u>
				<u>Contribs.</u>	<u>Dividends</u>	<u>Losses</u>	<u>Losses</u>	
2011/12	\$221,267	\$59,317	\$5,513	\$0	\$0	\$0	\$378,939	\$0
2012/13	\$196,995	\$56,576	\$5,689	\$0	\$0	\$0	\$326,283	\$0
2013/14	\$153,037	\$63,583	\$20,348	\$0	\$0	\$0	\$283,677	\$0
2014/15	\$106,365	\$66,000	\$26,716	\$0	\$0	\$0	-\$3,851	\$0
2015/16	\$146,839	\$67,144	\$25,241	\$0	\$0	\$0	\$322,266	\$0
2016/17	\$190,129	\$69,991	\$26,902	\$0	\$0	\$0	\$568,455	\$0
2017/18	\$188,365	\$73,655	\$28,558	\$0	\$0	\$0	\$371,898	\$0
2018/19	\$189,564	\$75,987	\$33,813	\$0	\$0	\$0	\$274,591	\$0
2019/20	\$246,139	\$77,015	\$38,549	\$0	\$0	\$0	\$360,232	\$0
2020/21	\$292,426	\$78,422	\$38,490	\$0	\$0	\$0	\$1,102,093	\$0

Expenses

Plan	Monthly	Contrib.	Admin.	<u>Other Actuarial Adjustments</u>		
<u>Year</u>	<u>Benefit</u>	<u>Refunds</u>	<u>Expenses</u>	<u>DROP</u>	<u>Advance</u>	<u>Excess</u>
	<u>Payments</u>			<u>Credits</u>	<u>Employer</u>	<u>Chapter</u>
					<u>Contribs.</u>	<u>Contribs.</u>
2011/12	\$28,241	\$0	\$6,117	\$0	-\$8,883	\$883
2012/13	\$39,355	\$0	\$11,460	\$0	\$0	\$0
2013/14	\$40,536	\$2,125	\$17,637	\$0	\$0	\$5,149
2014/15	\$41,752	\$0	\$14,254	\$0	\$0	\$7,566
2015/16	\$300,039	\$2,907	\$16,678	\$0	\$13,756	\$8,710
2016/17	\$45,096	\$1,127	\$15,900	\$0	\$44,448	\$11,557
2017/18	\$776,760	\$3,398	\$19,485	\$0	\$69,314	\$15,221
2018/19	\$49,239	\$0	\$17,716	\$0	\$59,152	\$17,553
2019/20	\$300,906	\$0	\$18,946	\$0	\$58,435	-\$75,483
2020/21	\$52,788	\$0	\$23,310	\$0	\$58,434	\$0

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	\$245,105
Additional Employer Contribution	\$350,860
Minimum Required Contribution	(\$292,426)
Net Increase in Advance Employer Contribution	\$58,434
Advance Employer Contribution as of October 1, 2021	<u>\$303,539</u>

Excess Chapter 175/185 Contribution

Excess Chapter 175/185 Contribution as of October 1, 2020	\$0
Additional Chapter 175/185 Contribution	\$78,422
Allowable Chapter 175/185 Contribution	(\$58,434)
Transfer to Share Plan	(\$19,988)
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2021	<u>\$0</u>



Historical Chapter 175/185 Contributions

Table II-G

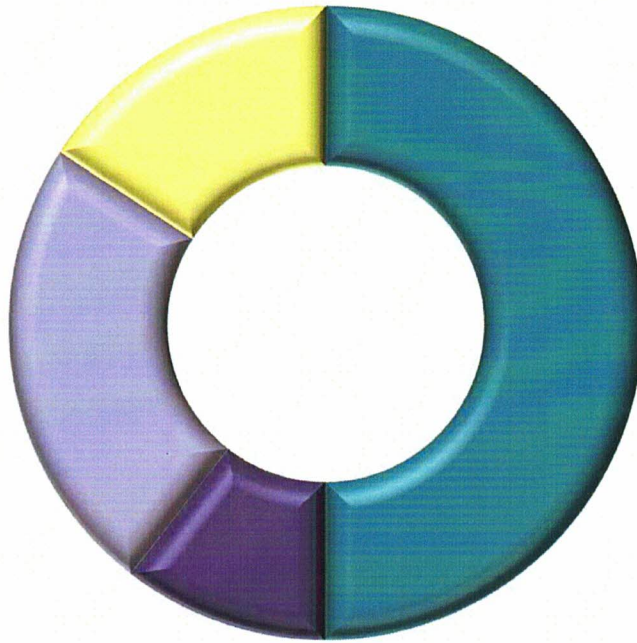
Total Accumulated Excess Chapter 175/185 Contribution \$0

	Chapter 175 Regular <u>Distribution</u>	Chapter 175 Supplemental <u>Distribution</u>	Chapter 185 <u>Distribution</u>	Allowable <u>Amount</u>
1998 Distribution	\$0	\$0	\$59,929	(\$55,101)
1999 Distribution	\$0	\$0	\$0	\$0
2000 Distribution	\$0	\$0	\$55,787	(\$55,787)
2001 Distribution	\$0	\$0	\$0	\$0
2002 Distribution	\$0	\$0	\$129,768	(\$110,202)
2003 Distribution	\$0	\$0	\$61,164	(\$55,101)
2004 Distribution	\$0	\$0	\$56,351	(\$55,101)
2005 Distribution	\$0	\$0	\$58,100	(\$93,145)
2006 Distribution	\$0	\$0	\$62,536	(\$58,434)
2007 Distribution	\$0	\$0	\$62,954	(\$58,434)
2008 Distribution	\$0	\$0	\$58,656	(\$58,434)
2009 Distribution	\$0	\$0	\$57,242	(\$57,242)
2010 Distribution	\$0	\$0	\$58,284	(\$58,284)
2011 Distribution	\$0	\$0	\$59,317	(\$58,434)
2012 Distribution	\$0	\$0	\$56,576	(\$56,576)
2013 Distribution	\$0	\$0	\$63,583	(\$58,434)
2014 Distribution	\$0	\$0	\$66,000	(\$58,434)
2015 Distribution	\$0	\$0	\$67,144	(\$58,434)
2016 Distribution	\$0	\$0	\$69,991	(\$58,434)
2017 Distribution	\$0	\$0	\$73,655	(\$58,434)
2018 Distribution	\$0	\$0	\$75,987	(\$58,434)
2019 Distribution	\$0	\$0	\$77,015	(\$58,434)
2020 Distribution	\$0	\$0	\$78,422	(\$58,434)
Interest Adjustment				\$3,338
Transfer to share plan				(\$114,052)



Summary of Participant Data

Table III-A

As of October 1, 2021Actively Employed Participants

Active Participants	19
DROP Participants	0

Inactive Participants

Deferred Vested Participants	4
Due a Refund of Contributions	9
Deferred Beneficiaries	0

Participants Receiving a Benefit

Service Retirements	6
Disability Retirements	0
Beneficiaries Receiving	0

Total Participants 38Number of Participants Included in Prior Valuations

	<i>Active</i>	<i>DROP</i>	<i>Inactive</i>	<i>Retired</i>	<i>Total</i>
October 1, 2012	13	0	12	2	27
October 1, 2013	13	0	14	2	29
October 1, 2014	14	0	14	2	30
October 1, 2015	13	0	16	2	31
October 1, 2016	14	0	12	3	29
October 1, 2017	15	0	11	3	29
October 1, 2018	16	0	9	5	30
October 1, 2019	18	0	9	5	32
October 1, 2020	19	0	10	6	35
October 1, 2021	19	0	13	6	38



Data Reconciliation

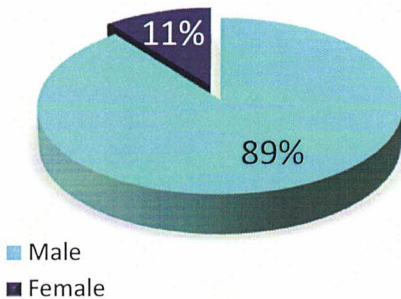
Table III-B

	<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, 2020</u>	19	0	3	7	0	6	0	0	35
<u>Change in Status</u>									
Re-employed									
Terminated	(3)		1	2					
Retired									
<u>Participation Ended</u>									
Transferred Out									
Cashed Out									
Died									
<u>Participation Began</u>									
Newly Hired	3								3
Transferred In									
New Beneficiary									
<u>Other Adjustment</u>									
<u>October 1, 2021</u>	19	0	4	9	0	6	0	0	38

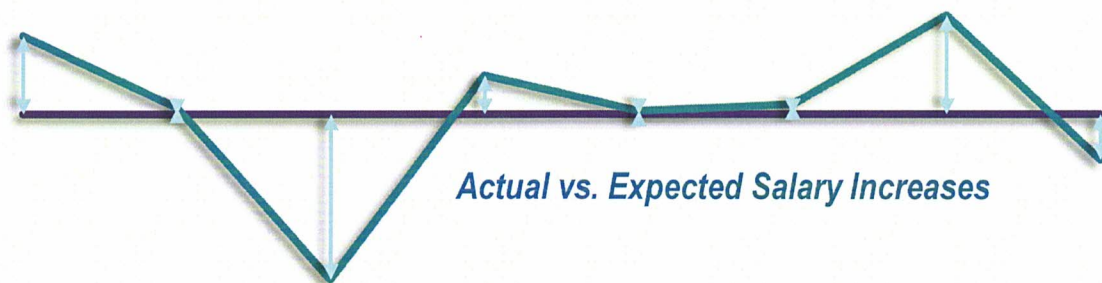


Active Participant Data

Table III-C

Gender Mix**As of October 1, 2021**

Average Age	39.8 years
Average Service	7.2 years
Total Annualized Compensation for the Prior Year	\$938,094
Total Expected Compensation for the Current Year	\$919,323
Average Increase in Compensation for the Prior Year	0.57%
Expected Increase in Compensation for the Current Year	4.00%

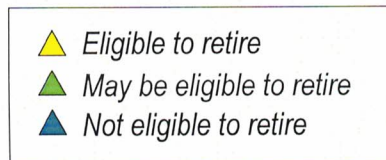
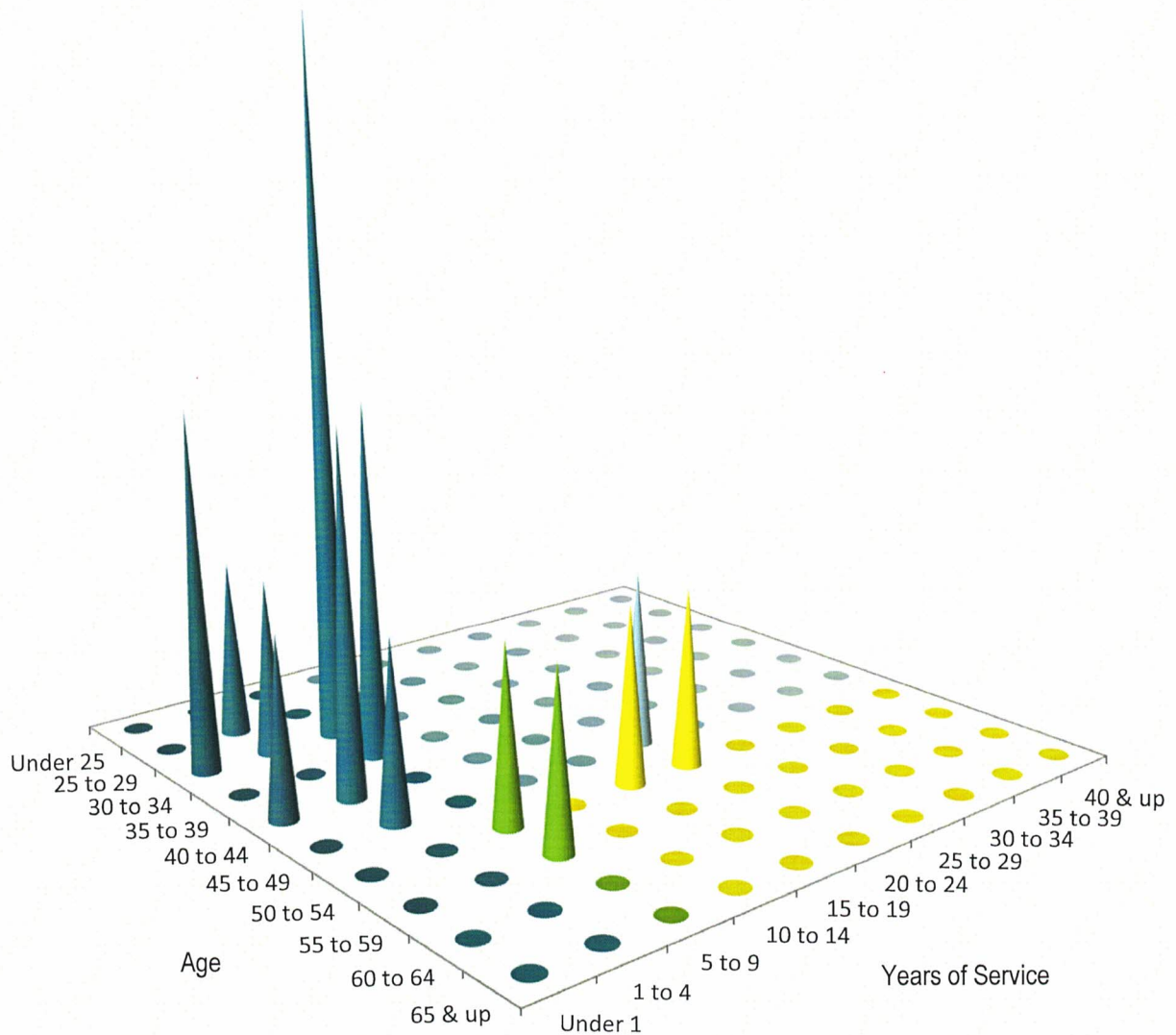
**Active Participant Statistics From Prior Valuations**

	Average Age	Average Service	Average Salary	Average Expected Salary Increase	Average Actual Salary Increase
October 1, 2012	38.6	6.8	\$39,077	5.23%	-2.47%
October 1, 2013	37.2	7.6	\$42,479	5.69%	8.12%
October 1, 2014	39.2	7.9	\$38,499	4.00%	9.94%
October 1, 2015	40.4	6.5	\$50,043	4.00%	4.53%
October 1, 2016	37.5	5.1	\$42,680	4.00%	-8.43%
October 1, 2017	38.7	5.7	\$45,047	4.00%	6.93%
October 1, 2018	40.1	6.2	\$45,526	4.00%	4.25%
October 1, 2019	39.7	6.8	\$46,963	4.00%	4.75%
October 1, 2020	39.0	7.2	\$51,263	4.00%	11.43%
October 1, 2021	39.8	7.2	\$49,373	4.00%	0.57%



Active Age-Service Distribution

Table III-D



Active Age-Service-Salary Table

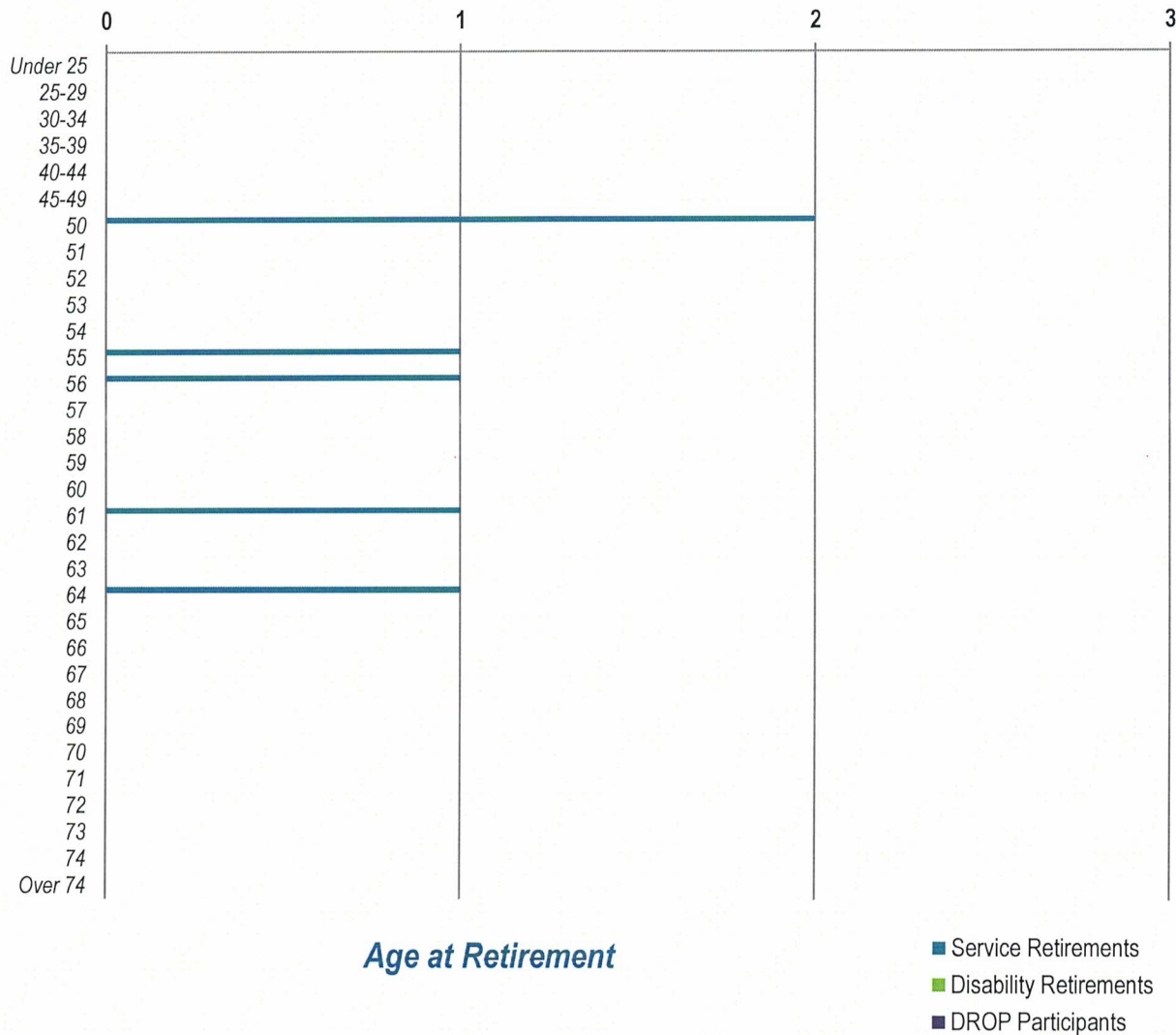
Table III-E

Attained Age	Completed Years of Service										Total
	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	
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	0
25 to 29	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	39,733	0	0	0	0	0	0	0	0	39,733
30 to 34	2	1	4	0	0	0	0	0	0	0	7
Avg.Pay	30,104	43,194	51,218	0	0	0	0	0	0	0	44,039
35 to 39	0	0	2	0	0	0	0	0	0	0	2
Avg.Pay	0	0	46,693	0	0	0	0	0	0	0	46,693
40 to 44	1	2	0	0	0	0	0	0	0	0	3
Avg.Pay	32,449	43,947	0	0	0	0	0	0	0	0	40,114
45 to 49	0	1	0	0	0	1	0	0	0	0	2
Avg.Pay	0	44,699	0	0	0	80,045	0	0	0	0	62,372
50 to 54	0	0	1	0	1	1	0	0	0	0	3
Avg.Pay	0	0	57,108	0	62,599	77,777	0	0	0	0	65,828
55 to 59	0	0	1	0	0	0	0	0	0	0	1
Avg.Pay	0	0	54,131	0	0	0	0	0	0	0	54,131
60 to 64	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
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	3	5	8	0	1	2	0	0	0	0	19
Avg.Pay	30,886	43,104	51,187	0	62,599	78,911	0	0	0	0	49,373



Inactive Participant Data

Table III-F

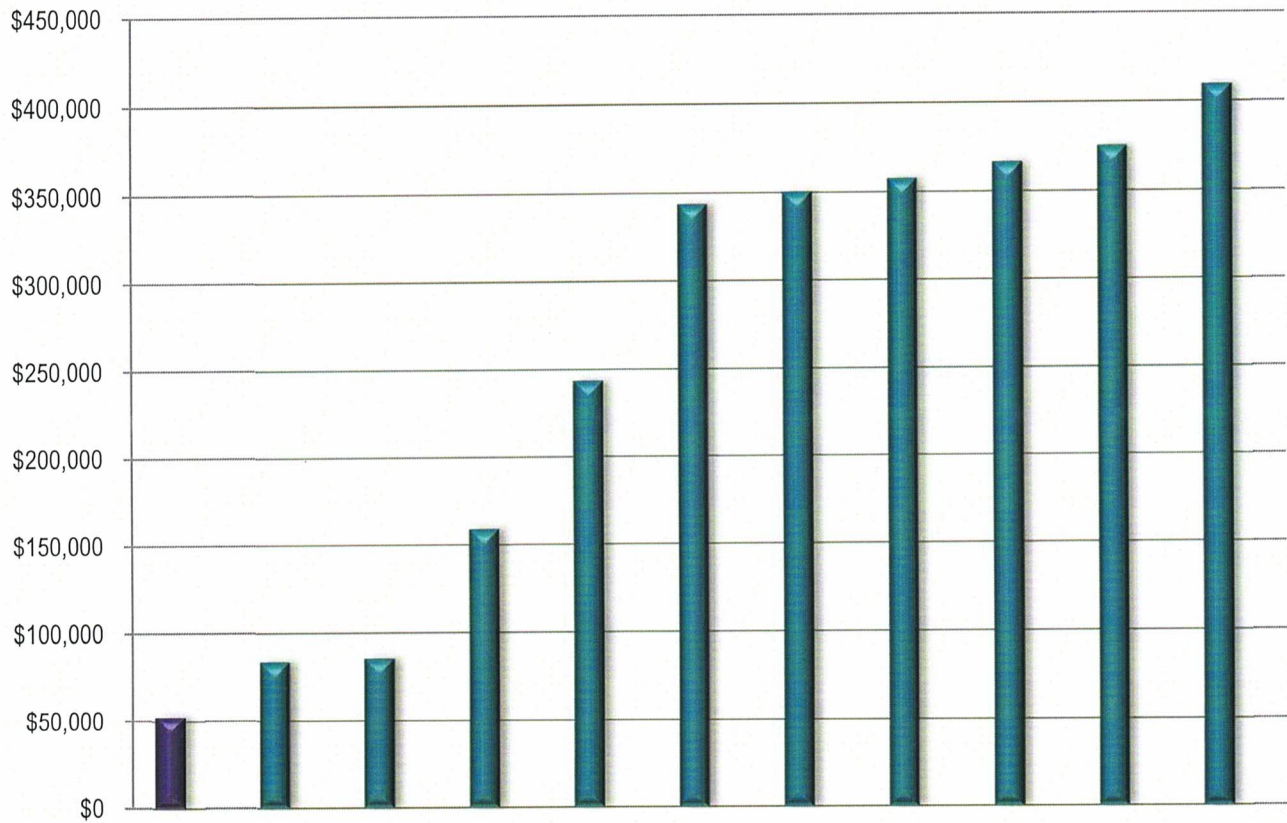
Average Monthly Benefit

Service Retirements	\$755.16
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Deferred Vested Participants	\$1,972.12
Deferred Beneficiaries	Not applicable



Projected Benefit Payments

Table III-G

Actual

For the period October 1, 2020 through September 30, 2021

\$52,788

Projected

For the period October 1, 2021 through September 30, 2022

\$83,735

For the period October 1, 2022 through September 30, 2023

\$85,635

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

\$158,935

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

\$243,663

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

\$343,802

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

\$350,369

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

\$357,793

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

\$366,570

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

\$375,334

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

\$409,463



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.

3. **Interest (or Discount) Rate**

7.00% 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 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 assumed
- Termination: None assumed
- Retirement: Retirement is assumed to occur at normal retirement age.

6. Form of Payment

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

7. Expenses

The total projected benefit liability has been loaded by 1.75% 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

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, 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, 2016, 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.*
- (3) Effective October 1, 2013, the assumed interest rate was decreased from 7.50% per annum to 7.00% per annum.*
- (4) Effective October 1, 2013, the assumed increase in future salaries was decreased from a range of 5.00% to 8.00% per year, depending on service, to a flat 4.00% per year.*
- (5) Effective October 1, 2013, the 4.00% loading that was previously applied to average final compensation was removed.*
- (6) Effective October 1, 2013, the mortality basis was changed from the unisex rates set forth in the 1994 Group Annuity Reserving Table, projected to 2002 by Scale AA, to the sex-distinct rates set forth in 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.*
- (7) Effective October 1, 2013, the administrative expense load was increased from 1.50% of total projected liability to 1.75% of total projected liability.*



Summary of Plan Provisions

Table V-A

1. Monthly Accrued Benefit

3.50% of Average Final Compensation multiplied by Credited Service earned prior to March 3, 2014 plus
3.00% of Average Final Compensation multiplied by Credited Service earned after March 2, 2014

2. Normal Retirement Age and Benefit

- **Age**
Age 55 with at least six years of Credited Service; or
Age 52 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 66 $\frac{2}{3}$ % 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 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



Summary of Plan Provisions

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) 42% 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



Summary of Plan Provisions

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

Prior to February 4, 2014, Compensation includes total cash remuneration, including overtime pay, but excluding amounts paid for extra duty and special detail work performed for a secondary party; after February 3, 2014, Compensation includes only base pay; annual compensation in excess of \$200,000 (as indexed) is excluded in accordance with Internal Revenue Code (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.



Summary of Plan Provisions

Table V-A

(continued)

12. Participation Requirement

All police officers of the City of Gulf Breeze, Florida automatically become a participant in the plan on their date of hire.

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

4.00% of earnings (1.00% of earnings prior to February 4, 2014)

15. Definition of Actuarially Equivalent

- **Interest Rate**

7.00% per annum

- **Mortality Table**

The unisex mortality table promulgated by the Secretary of the Treasury for purposes of determining lump sum distributions pursuant to Internal Revenue Code (IRC) section 417(e)(3)

16. Plan Effective Date

January 1, 1996

17. Automatic Cost-of-Living Adjustment (COLA)

All benefits include an automatic 3% annual COLA; the COLA is delayed for three years with respect to benefits earned after February 3, 2014.

18. Supplemental Retirement Benefit

All retirees receive a supplemental monthly benefit equal to \$5.00 for each year of Credited Service payable for their lifetime only.



Summary of Plan Provisions

Table V-A

(continued)

19. Deferred Retirement Option Program (DROP)

A DROP is available to all active participants who are eligible for normal retirement. Individuals may participate in the DROP for a period of up to five years.



Summary of Plan Amendments

Table V-B

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

The following additional plan amendments were adopted during the past 10 years and were reflected in prior valuation reports:

- (1) During the 2019/20 plan year, a share plan was created to receive excess Chapter 175/185 contributions. (Ordinance 01-2020)*
- (2) With respect to employees hired after September 30, 2013, average final compensation is based on a six-year average instead of a three- or five-year average. (Ordinance 2013-18)*
- (3) The benefit formula multiplier for service earned after March 2, 2014 was reduced from 3.50% to 3.00%.*
- (4) The employee contribution rate was increased from 1.00% of pensionable earnings to 4.00% of pensionable earnings.*
- (5) The definition of pensionable earnings was changed to exclude compensation in excess of base pay after February 3, 2014.*
- (6) The 3.00% automatic cost-of-living adjustment is delayed for three years after retirement with respect to benefits earned after February 3, 2014.*
- (7) During the 2011/12 plan year, the mortality table used for purposes of determining actuarial equivalence was changed from the 1983 Group Annuity Mortality Table, blended 50%/50% for males and females and set back two years to the unisex mortality table promulgated by the Secretary of the Treasury for purposes of determining lump sum distributions pursuant to IRC section 417(e)(3).*

