RETIREMENT PLAN FOR THE POLICE OFFICERS OF THE CITY OF GULF BREEZE

ACTUARIAL VALUATION AS OF OCTOBER 1, 2018

DETERMINES THE CONTRIBUTION FOR THE 2019/20 FISCAL YEAR



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February 2, 2019

Introduction

This report presents the results of the October 1, 2018 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, 2018 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2019/20 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 2019/20 plan year. The minimum required contribution rate is 25.54% of covered payroll, which represents an increase of 3.20% of payroll from the prior valuation.

The normal cost rate is 25.38%, which is 2.85% higher 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 0.58% of payroll due to investment gains and increased by 3.43% of payroll due to demographic experience. The market value of assets earned 7.91% during the 2017/18 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 2019/20 minimum required contribution will be equal to 25.54% multiplied by the total pensionable earnings for the 2019/20 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 2019/20 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 \$6,868,124. As illustrated in Table I-A, current assets are sufficient to cover \$4,636,504 of this amount, the employer's 2018/19 expected contribution will cover \$169,237 of this amount, the employer's 2019/20 expected contribution will cover \$201,204 of this amount, and future employee contributions are expected to cover \$303,844 of this amount, leaving \$1,557,335 to be covered by future employer funding beyond the 2019/20 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Excess Chapter 175/185 Contributions

As of October 1, 2018, the plan has accumulated excess Chapter 175/185 contributions of \$57,930 as shown in Table II-F. This amount is equal to the \$42,709 accumulated excess Chapter 175/185 contribution balance as of October 1, 2017 plus \$15,221 of Chapter 175/185 distribution in excess of the allowable amount. The total Chapter 175/185 distribution received during the 2017/18 plan year was \$73,655, \$58,434 of which 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.

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, 2018, the advance employer contribution is \$127,518, which reflects the advance employer contribution of \$58,204 as of October 1, 2017 plus \$69,314 which was contributed in excess of the minimum required contribution for the 2017/18 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 2018/19 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. In this case, the immediate application of the entire balance of the advance employer contribution as of October 1, 2018 would reduce the normal cost rate to 23.70% of payroll and would reduce the minimum required contribution for the 2019/20 plan year to 23.75% of payroll.



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, 2018, 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 five participants who are due a refund of their employee contributions. We have estimated the accumulated amount of their refunds to be \$2,359 as of October 1, 2018. The average amount owed is \$472. 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. 17-04927

Chief of Com

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

2019/20 Employer 2018/19 Employer Contribution Contribution Funding Source \$169,237 \$201,204 uture Employer **Current Assets Funding** \$4,636,504 \$1,557,335 Future Employee Funding \$303,844 0% 20% 40% 60% 80% 100%

For the 2019/20 Plan Year

Present Value of Future Benefits	\$6,749,999
Present Value of Future Administrative Expenses	\$118,125
Actuarial Value of Assets	(\$4,636,504)
Present Value of Future Employee Contributions	(\$303,844)
Present Value of Future Normal Costs	\$1,927,776
Present Value of Future Payroll	÷ \$7,596,104
Normal Cost Rate	= 25.3785%
Expected Payroll	x \$757,553
Normal Cost	\$192,255
Adjustment to Reflect Semi-Monthly Employer Contributions	\$6,858
Expected Employer Contribution for the 2018/19 Plan Year	(\$169,237)
Remaining Contribution Due/(Credit) for the 2018/19 Plan Year	\$29,876
	x 0.07
One Year's Interest Charge/(Credit) on the Remaining Contribution	\$2,091
Preliminary Employer Contribution for the 2019/20 Plan Year	\$201,204
Expected Payroll for the 2019/20 Plan Year	÷ \$787,855
Minimum Required Contribution Rate	25.54%

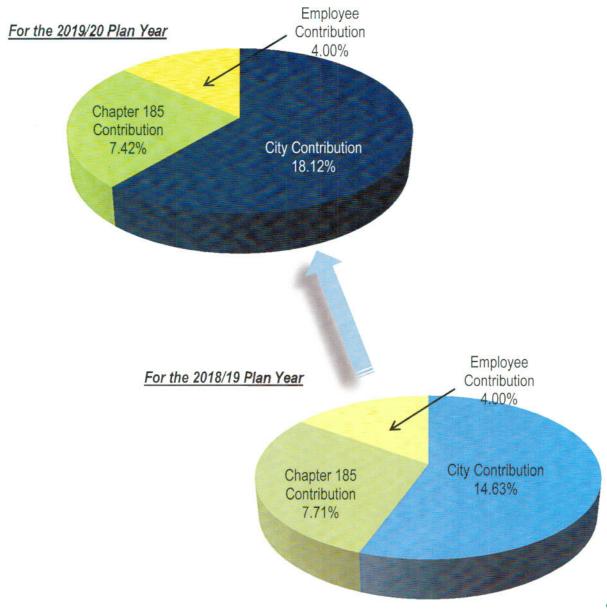
(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)



Minimum Required Contribution

Table I-A (continued)

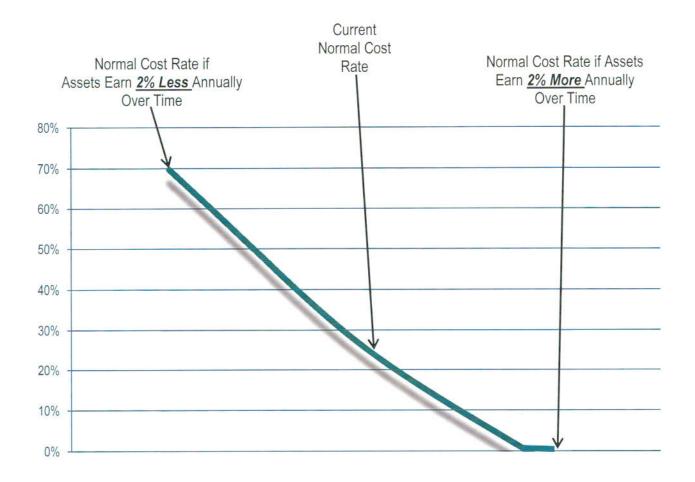
The minimum required contribution rate of 25.54% includes both the City contribution and the allowable Chapter 185 contribution. In addition, employees are required to contribute 4.00% of pensionable earnings. The actual City contribution rate is expected to be approximately 18.12% based on the allowable Chapter 185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2019/20 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	22.53%
Increase (decrease) due to investment gains and losses Increase (decrease) due to demographic experience	-0.58% 3.43%
Increase (decrease) due to plan amendments Increase (decrease) due to actuarial assumption changes Increase (decrease) due to actuarial method changes	0.00% 0.00% 0.00%
Current normal cost rate	25.38%



Present Value of Future Benefits

Table I-D

	Old Assumptions	Old Assumptions	New Assumptions
	w/o Amendment	w/ Amendment	w/ Amendment
Actively Employed Participants			
Retirement benefits	\$5,181,369	\$5,181,369	\$5,181,369
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$5,181,369	\$5,181,369	\$5,181,369
Deferred Vested Participants			
Retirement benefits	\$902,040	\$902,040	\$902,040
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$902,040	\$902,040	\$902,040
	, ,		¥****,****
Due a Refund of Contributions	\$2,359	\$2,359	\$2,359
Deferred Beneficiaries	\$0	\$0	\$0
		***	*52
Retired Participants			
Service retirements	\$664,231	\$664,231	\$664,231
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$664,231	\$664,231	\$664,231
Grand Total	\$6,749,999	\$6,749,999	\$6,749,999
<u> </u>	<u> </u>	4317 101000	90,1 40,000
Present Value of Future Payroll	\$7,596,104	\$7,596,104	\$7,596,104
Present Value of Future Employee Contribs.	\$303,844	\$303,844	\$303,844
Present Value of Future Employer Contribs.	\$1,927,776	\$1,927,776	\$1,927,776
2	¥1,021,110	\$1,021,110	Ψ1,021,110



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 Termination benefits Disability benefits Death benefits Refund of employee contributions Sub-total	\$1,755,193 \$0 \$0 \$0 \$0 \$0 \$1,755,193	\$1,755,193 \$0 \$0 \$0 \$0 \$1,755,193	\$1,755,193 \$0 \$0 \$0 \$0 \$0 \$1,755,193
Deferred Vested Participants			
Retirement benefits Termination benefits Disability benefits Death benefits Refund of employee contributions Sub-total	\$902,040 \$0 \$0 \$0 \$0 \$0 \$902,040	\$902,040 \$0 \$0 \$0 \$0 \$902,040	\$902,040 \$0 \$0 \$0 \$0 \$902,040
Due a Refund of Contributions	\$2,359	\$2,359	\$2,359
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants Service retirements Disability retirements Beneficiaries receiving DROP participants Sub-total	\$664,231 \$0 \$0 \$0 \$664,231 \$3,323,823	\$664,231 \$0 \$0 \$0 \$664,231 \$3,323,823	\$664,231 \$0 \$0 \$0 \$664,231 \$3,323,823
<u>Funded Ratio</u>	143.33%	143.33%	143.33%

(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	\$1,507,296	\$1,507,296	\$1,507,296
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,507,296	\$1,507,296	\$1,507,296
Deferred Vested Participants			
Retirement benefits	\$902,040	\$902,040	\$902,040
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$902,040	\$902,040	\$902,040
Due a Refund of Contributions	\$2,359	\$2,359	\$2,359
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$664,231	\$664,231	\$664,231
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$664,231	\$664,231	\$664,231
Grand Total	\$3,075,926	\$3,075,926	\$3,075,926



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
	W/O / Information	W/ / thioriamone	Wi 7 tillollatilolla
Actively Employed Participants			
Retirement benefits	\$2,518,170	\$2,518,170	\$2,518,170
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$2,518,170	\$2,518,170	\$2,518,170
Deferred Vested Participants			
Retirement benefits	\$902,040	\$902,040	\$902,040
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$902,040	\$902,040	\$902,040
Due a Refund of Contributions	\$2,359	\$2,359	\$2,359
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$664,231	\$664,231	\$664,231
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$664,231	\$664,231	\$664,231
Grand Total	\$4,086,800	\$4,086,800	\$4,086,800



Actuarial Value of Assets

Table II-A

Market Value of	Assets as of	October 1,	2018	\$4,821,952
-----------------	--------------	------------	------	-------------

Minus DROP account balances	\$0
Minus advance employer contributions	(\$127,518)
Minus excess Chapter 175/185 contributions	(\$57,930)

Actuarial Value of Assets as of October 1, 2018 \$4,636,504



October 1, 2009	\$1,495,015
October 1, 2010	\$1,821,794
October 1, 2011	\$2,141,195
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

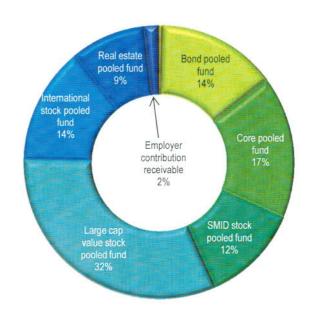


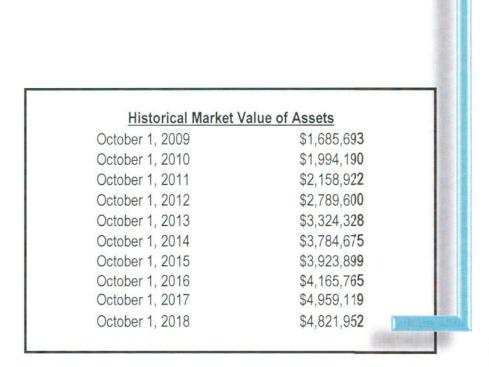
Market Value of Assets

Table II-B

As of October 1, 2018

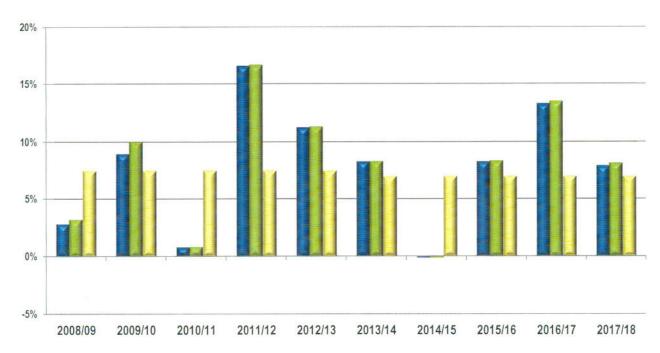
Market Value of Assets	<u>\$4,821,952</u>
Cash	\$18,930
Bond pooled fund	\$686,197
Core pooled fund	\$813,972
SMID stock pooled fund	\$567,887
Large cap value stock pooled fund	\$1,547,493
International stock pooled fund	\$672,000
Real estate pooled fund	\$425,916
Employer contribution receivable Employee contribution receivable	\$87,297 \$2,260
Employed contribution receivable	Ψ2,200







Investment Return Table II-C



Annual Investment Returns

■ Market Value Return
Actuarial Value Return
Assumed Return

	Market	Actuarial	
Plan	Value	Value	Assumed
Year	Return	Return	Return
2008/09	2.81%	3.21%	7.50%
2009/10	8.99%	10.03%	7.50%
2010/11	0.81%	0.84%	7.50%
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%
10yr. Avg.	7.70%	7.91%	7.25%



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2017	\$4,959,119	\$4,858,206
Increases Due To:		
Employer Contributions Chapter 175/185 Contributions Employee Contributions Service Purchase Contributions Total Contributions	\$188,365 \$73,655 \$28,558 \$0 \$290,578	\$188,365 \$73,655 \$28,558 \$0 \$290,578
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income Other Income	\$0 \$0 \$371,898 \$371,898	\$371,898
Total Income	\$662,476	\$662,476
Decreases Due To:		
Monthly Benefit Payments Refund of Employee Contributions DROP Credits Total Benefit Payments	(\$776,760) (\$3,398) (\$780,158)	(\$776,760) (\$3,398) \$0 (\$780,158)
Investment Expenses Administrative Expenses	\$0 (\$19,485)	(\$19,485)
Advance Employer Contribution Excess Chapter 175/185 Contribution		(\$69,314) (\$15,221)
Total Expenses	(\$799,643)	(\$884,178)
As of October 1, 2018	\$4,821,952	\$4,636,504



Historical Trust Fund Detail

Table II-E

Other Actuarial Adjustments

\$0

\$13,756

\$44,448 \$69,314

\$0

\$0

\$0

\$0

\$7,566

\$8,710

\$11,557

\$15,221

Expenses

2014/15

2015/16

2016/17

2017/18

\$41,752

\$300,039

\$45,096

\$776,760

\$0

\$2,907

\$1,127

\$3,398

\$14,254

\$16,678

\$15,900

\$19,485

				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest I	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	Dividends	Losses	Losses	Income
2008/09	\$92,763	\$58,656	\$5,723	\$0	\$0	\$0	\$43,988	\$0
2009/10	\$93,148	\$57,242	\$5,750	\$0	\$0	\$0	\$158,352	\$0
2010/11	\$95,501	\$58,284	\$5,892	\$0	\$0	\$0	\$16,662	\$0
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

Excess	Advance		9.00000000			Monthly	
Chapter	Employer	DROP	Invest.	Admin.	Contrib.	Benefit	Plan
Contribs.	Contribs.	Credits	Expenses	Expenses	Refunds	Payments	Year
\$222	-\$8,316	\$0	\$0	\$5,166	\$551	\$0	2008/09
\$0	-\$18,282	\$0	\$0	\$5,417	\$578	\$0	2009/10
\$0	-\$154,669	\$0	\$0	\$9,748	\$0	\$1,859	2010/11
\$883	-\$8,883	\$0	\$0	\$6,117	\$0	\$28,241	2011/12
\$0	\$0	\$0	\$0	\$11,460	\$0	\$39,355	2012/13
\$5,149	\$0	\$0	\$0	\$17,637	\$2,125	\$40,536	2013/14

\$0

\$0

\$0

\$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, 2017	\$58,204
Additional Employer Contribution	\$246,799
Minimum Required Contribution	(\$177,485)
Net Increase in Advance Employer Contribution	\$69,314
Advance Employer Contribution as of October 1, 2018	\$127,518

Excess Chapter 175/185 Contribution

Excess Chapter 175/185 Contribution as of October 1, 2017	\$42,709
Additional Chapter 175/185 Contribution	\$73,655
Allowable Chapter 175/185 Contribution	(\$58,434)
Net Increase in Excess Chapter 175/185 Contribution	\$15,221
Excess Chapter 175/185 Contribution as of October 1, 2018	\$57,930



Historical Chapter 175/185 Contributions

Table II-G

	Total Accumulated Excess Chapter 175/185 Contribution						
	Chapter 175 Regular Distribution	Chapter 175 Supplemental Distribution	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 2008 Distribution	\$0 \$0 \$0	\$0 \$0	\$62,954 \$58,656	(\$58,434) (\$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 2014 Distribution	\$0 \$0	\$0 \$0 \$0	\$63,583 \$66,000 \$67,144	(\$58,434) (\$58,434) (\$58,434)			
2015 Distribution 2016 Distribution 2017 Distribution	\$0 \$0 \$0	\$0 \$0 \$0	\$69,991 \$73,655	(\$58,434) (\$58,434)			
Interest Adjustment			den erdennesse	\$3,338			

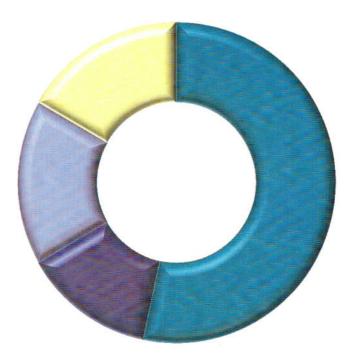


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Summary of Participant Data

Table III-A

As of October 1, 2018



Participant Distribution by Status

Actively Employed Participants Active Participants 16 **DROP** Participants 0 Inactive Participants Deferred Vested Participants 4 Due a Refund of Contributions 5 **Deferred Beneficiaries** 0 Participants Receiving a Benefit Service Retirements 5 Disability Retirements 0 Beneficiaries Receiving 0

Total Participants

Number	of Participant	s Included	in Prior Va	luations	
	Active	DROP	Inactive	Retired	Total
October 1, 2009	N/A	N/A	N/A	N/A	N/A
October 1, 2010	13	0	10	0	23
October 1, 2011	N/A	N/A	N/A	N/A	N/A
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



Data Reconciliation Table III-B

	Active	DROP	Deferred <u>Vested</u>	Due a Refund	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	<u>Total</u>
October 1, 2017	15	0	6	5	0	3	0	0	29
Change in Status Re-employed Terminated Retired	(1)		(2)	1		2			
Participation Ended Transferred Out Cashed Out Died				(1)					(1)
Participation Began Newly Hired Transferred In New Beneficiary	2								2
Other Adjustment									
October 1, 2018	16	0	4	5	0	5	0	0	30

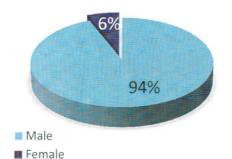


Active Participant Data

Table III-C

Gender Mix

As of October 1, 2018

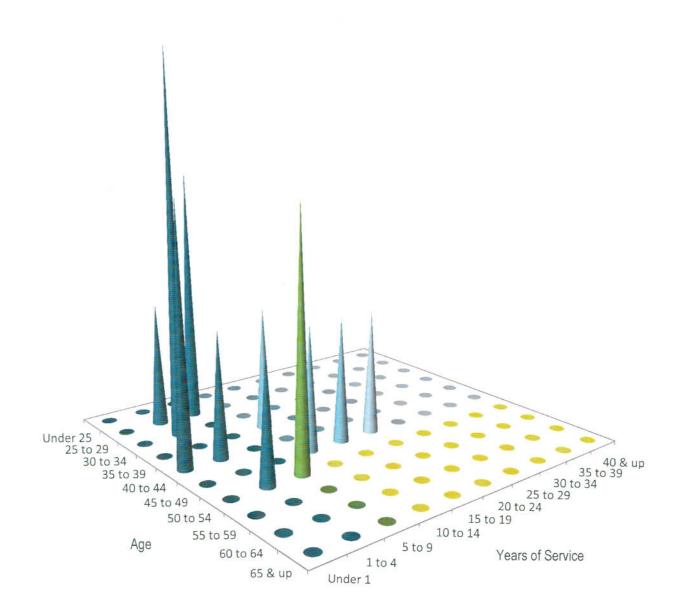


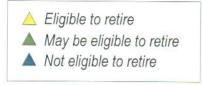
Average Age
Average Service
Average Service
Total Annualized Compensation for the Prior Year
Total Expected Compensation for the Current Year
Average Increase in Compensation for the Prior Year
Expected Increase in Compensation for the Current Year
40.1 years
6.2 years
\$728,419
\$757,553
4.25%



Active Participant Statistics From Prior Valuations Average Average Expected Actual Average Average Average Salary Salary Service Salary Age Increase Increase October 1, 2009 N/A N/A N/A 5.42% 4.96% October 1, 2010 41.5 7.3 -3.26% \$44,208 5.21% October 1, 2011 N/A N/A 5.31% 2.51% N/A 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 6.2 40.1 \$45,526 4.00% 4.25%









Active Age-Service-Salary Table

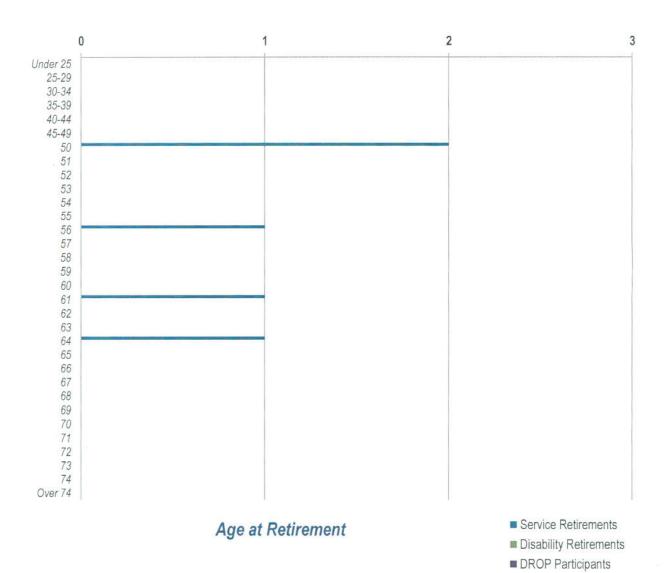
Table III-E

Attained	Completed Years of 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	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	2	0	0	0	0	0	0	0	3
Avg.Pay	0	35,168	48,335	0	0	0	0	0	0	0	43,946
30 to 34	0	3	0	0	0	0	0	0	0	0	3
Avg.Pay	0	40,958	0	0	0	0	0	0	0	0	40,958
5 5		92.									
35 to 39	0	0	0	1	0	0	0	0	0	0	1
Avg.Pay	0	0	0	54,043	0	0	0	0	0	0	54,043
40 to 44	2	1	0	0	0	0	0	0	0	0	3
Avg.Pay	29,149	37,106	0	0	0	0	0	0	0	0	31,801
45.4.40										0	
45 to 49	0	0	0 0	67.770	1	67.000	0	0	0	0	3
Avg.Pay	0	0	U	67,773	56,821	67,866	0	0	0	0	64,153
50 to 54	0	1	2	0	0	0	0	0	0	0	3
Avg.Pay	0	37,080	47,361	0	0	0	0	0	0	0	43,934
55 to 59	0	0	0		0					0	0
Avg.Pay	0	0	0	0 0	0 0	0 0	0	0	0	0	0
Avg.i dy			U	· ·	U	U	V			O	· ·
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	2	6	47.040	2	1	1	0	0	0	0	16
Avg.Pay	29,149	38,705	47,848	60,908	56,821	67,866	0	0	0	0	45,526



Inactive Participant Data

Table III-F



Average Monthly Benefit

Service Retirements	\$820.66
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable

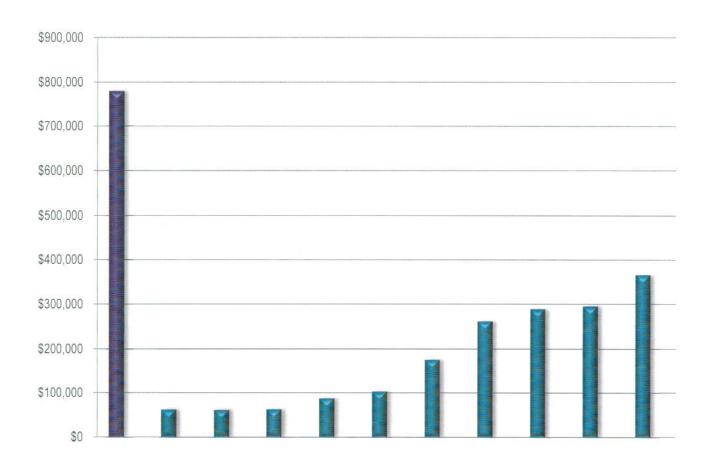
Deferred Vested Participants \$1,556.03

Deferred Beneficiaries Not applicable



Projected Benefit Payments

Table III-G



\$780,158
3.0.7.74.0.7.70
\$62,561
\$61,516
\$62,805
\$88,134
\$103,606
\$175,953
\$262,129
\$289,253
\$295,728
\$365,454



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.

Decrements

Pre-retirement mortality:

None assumed

Post-retirement mortality:

Sex-distinct rates set forth in the RP-2000 Blue Collar Mortality Table, with

full generational improvements in mortality using Scale BB

Disability:

None assumed

Termination:

None assumed

Retirement:

Retirement is assumed to occur at normal retirement age.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

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 methods or assumptions have been 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, 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.
- (2) Effective October 1, 2013, the assumed interest rate was decreased from 7.50% per annum to 7.00% per annum.
- (3) 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.
- (4) Effective October 1, 2013, the 4.00% loading that was previously applied to average final compensation was removed.
- (5) 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.
- (6) Effective October 1, 2013, the administrative expense load was increased from 1.50% of total projected liability to 1.75% of total projected liability.
- (7) Effective October 1, 2010, the administrative expense assumption was changed from a flat \$2,500 per year to a 1.50% loading of the total projected benefit liability.



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 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 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



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

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)

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).

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).

Credited Service

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



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.

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.

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) 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)
- (2) The benefit formula multiplier for service earned after March 2, 2014 was reduced from 3.50% to 3.00%.
- (3) The employee contribution rate was increased from 1.00% of pensionable earnings to 4.00% of pensionable earnings.
- (4) The definition of pensionable earnings was changed to exclude compensation in excess of base pay after February 3, 2014.
- (5) The 3.00% automatic cost-of-living adjustment is delayed for three years after retirement with respect to benefits earned after February 3, 2014.
- (6) 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).

