

RETIREMENT PLAN FOR THE FIREFIGHTERS
OF THE SOUTHERN MANATEE FIRE & RESCUE DISTRICT

ACTUARIAL VALUATION
AS OF OCTOBER 1, 2016

DETERMINES THE CONTRIBUTION
FOR THE 2016/17 FISCAL YEAR



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November 25, 2016

Introduction

This report presents the results of the October 1, 2016 actuarial valuation for the Retirement Plan for the Firefighters of the Southern Manatee Fire & Rescue District. 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, 2016 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2016/17 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 2016/17 plan year. The minimum required contribution rate is 54.83% of covered payroll, which represents an increase of 5.44% of payroll from the prior valuation.

The normal cost rate is 52.94%, which is 5.25% 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 1.16% of payroll due to investment gains, increased by 0.28% of payroll due to demographic experience, and increased by another 6.13% of payroll due to the assumption change that is described below. The market value of



assets earned 8.14% during the 2015/16 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 District 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 District's 2016/17 minimum required contribution will be equal to 54.83% multiplied by the total pensionable earnings for the 2016/17 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 2016/17 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 \$47,257,880. As illustrated in Table I-A, current assets are sufficient to cover \$29,496,972 of this amount, the employer's 2016/17 expected contribution will cover \$2,451,014 of this amount, and future employee contributions are expected to cover \$1,101,438 of this amount, leaving \$14,208,456 to be covered by future employer funding beyond the 2016/17 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 District 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, 2016, the advance employer contribution is \$309,217, which reflects the advance employer contribution of \$472,337 as of October 1, 2015 less \$163,120 that was used to cover the gap between the allowable Chapter 175/185 contribution, actual employer contributions, and the minimum funding requirement for the 2015/16 plan year as shown in Table II-F.

The District may apply all or any portion of the advance employer contribution towards the minimum required contribution for the 2016/17 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 District 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, 2016 would reduce the normal cost rate to 51.96% of payroll and would reduce the minimum required contribution for the 2016/17 plan year to 53.81% of payroll.

Excess Chapter 175/185 Contributions

As of October 1, 2016, the plan has accumulated excess Chapter 175/185 contributions of \$78,562 as shown in Table II-F. This amount is equal to the accumulated excess Chapter 175/185 contribution balance as of October 1, 2015. The total Chapter 175/185 distribution received during the 2015/16 plan year was \$414,319, all of which was



allowed to be used to offset the District's minimum required contribution. The Chapter 175/185 contribution consisted of a \$356,502 regular distribution plus a \$57,817 supplemental distribution. Table II-G provides a history of the Chapter 175/185 contributions and the portion that is allowed to be recognized.

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, 2016, 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 13 participants who are due a refund of their contributions. We have estimated the accumulated amount of their refunds to be \$1,268 as of October 1, 2016. The average amount owed to these individuals is only \$98. 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.

Assumption Change

Pursuant to the requirements of State law, the mortality basis has been 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 Combined Mortality Table. This change increased the minimum required contribution for the 2016/17 plan year by 6.13% of payroll.

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
Consulting Actuary
Southern Actuarial Services Company, Inc.

Enrolled Actuary No. 14-04927

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 2016/17 Plan Year

Present Value of Future Benefits	\$46,789,980
Present Value of Future Administrative Expenses	\$467,900
Actuarial Value of Assets	(\$29,496,972)
Present Value of Future Employee Contributions	(\$1,101,438)
Present Value of Future Normal Costs	<u>\$16,659,470</u>
Present Value of Future Payroll	<u>÷ \$31,469,714</u>
Normal Cost Rate	= 52.9381%
Expected Payroll	<u>x \$4,470,500</u>
Normal Cost	\$2,366,598
Adjustment to Reflect Semi-Monthly Employer Contributions	<u>\$84,416</u>
Preliminary Employer Contribution for the 2016/17 Plan Year	\$2,451,014
Expected Payroll for the 2016/17 Plan Year	÷ \$4,470,500

Minimum Required Contribution Rate **54.83%**

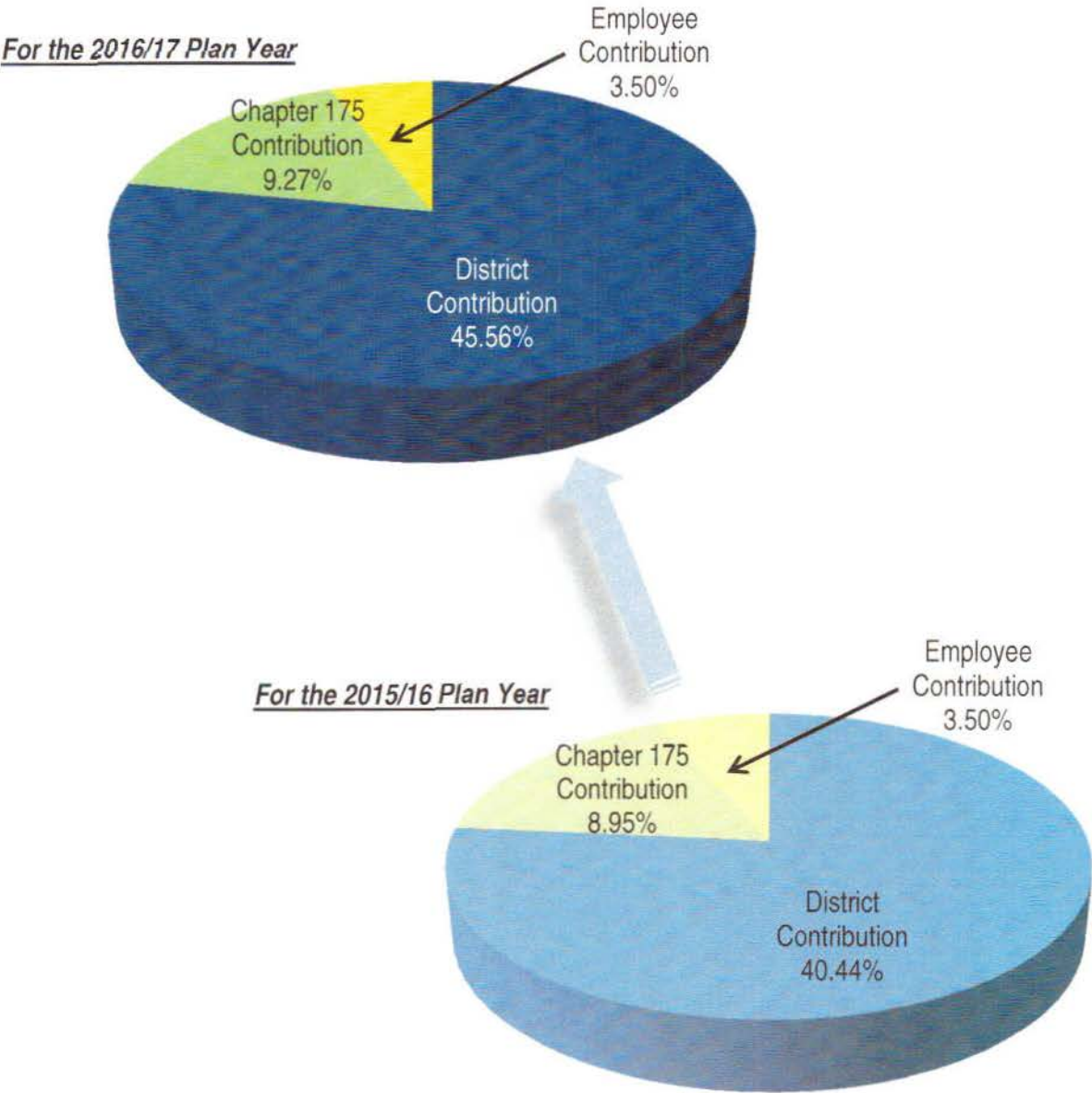
(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)



Minimum Required Contribution

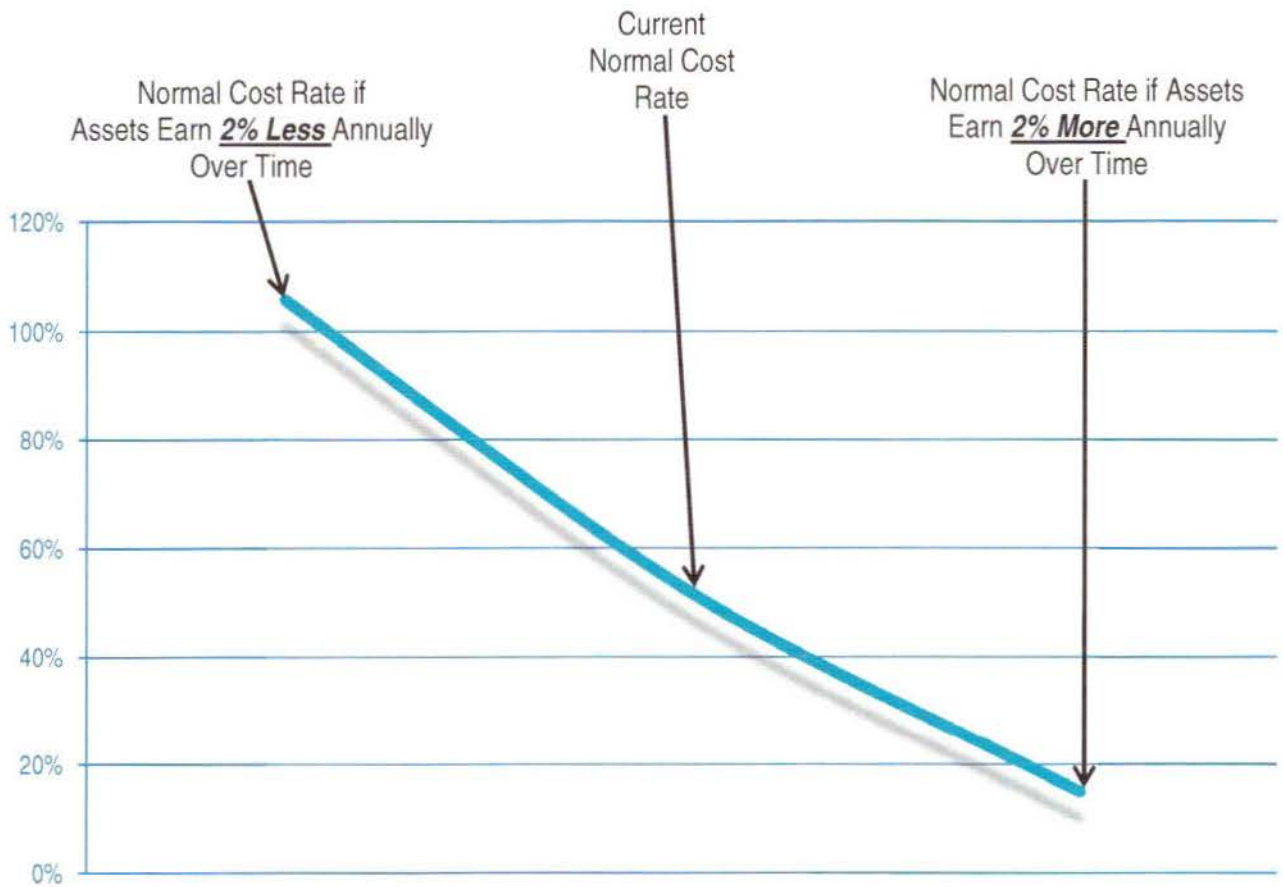
Table I-A
(continued)

The minimum required contribution rate of 54.83% includes both the District contribution and the allowable Chapter 175 contribution. In addition, employees are required to contribute 3.50% of pensionable earnings. The actual District contribution rate is expected to be approximately 45.56% based on the allowable Chapter 175 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2016/17 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	47.69%
Increase (decrease) due to investment gains and losses	-1.16%
Increase (decrease) due to demographic experience	0.28%
Increase (decrease) due to plan amendments	0.00%
Increase (decrease) due to actuarial assumption changes	6.13%
Increase (decrease) due to actuarial method changes	0.00%
Current normal cost rate	<u>52.94%</u>



Present Value of Future Benefits

Table I-D

	<u>Old Assumptions w/o Amendment</u>	<u>Old Assumptions w/ Amendment</u>	<u>New Assumptions w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$28,665,678	\$28,665,678	\$29,907,670
Termination benefits	\$1,563,596	\$1,563,596	\$1,675,951
Disability benefits	\$1,400,181	\$1,400,181	\$1,452,717
Death benefits	\$288,985	\$288,985	\$356,080
Refund of employee contributions	\$12,486	\$12,486	\$12,486
Sub-total	\$31,930,926	\$31,930,926	\$33,404,904
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$1,268	\$1,268	\$1,268
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$6,656,319	\$6,656,319	\$6,875,394
Disability retirements	\$1,878,947	\$1,878,947	\$1,951,053
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$4,424,636	\$4,424,636	\$4,557,361
Sub-total	\$12,959,902	\$12,959,902	\$13,383,808
<i><u>Grand Total</u></i>	<u>\$44,892,096</u>	<u>\$44,892,096</u>	<u>\$46,789,980</u>
Present Value of Future Payroll	\$31,492,765	\$31,492,765	\$31,469,714
Present Value of Future Employee Contribs.	\$1,102,248	\$1,102,248	\$1,101,438
Present Value of Future Employer Contribs.	\$14,741,797	\$14,741,797	\$16,659,470



Present Value of Accrued Benefits

Table I-E

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$13,944,733	\$13,944,733	\$14,525,282
Termination benefits	\$1,033,458	\$1,033,458	\$1,106,826
Disability benefits	\$846,545	\$846,545	\$877,085
Death benefits	\$198,621	\$198,621	\$241,932
Refund of employee contributions	\$7,962	\$7,962	\$7,961
Sub-total	\$16,031,319	\$16,031,319	\$16,759,086
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$1,268	\$1,268	\$1,268
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$6,656,319	\$6,656,319	\$6,875,394
Disability retirements	\$1,878,947	\$1,878,947	\$1,951,053
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$4,424,636	\$4,424,636	\$4,557,361
Sub-total	\$12,959,902	\$12,959,902	\$13,383,808
<i><u>Grand Total</u></i>	<u>\$28,992,489</u>	<u>\$28,992,489</u>	<u>\$30,144,162</u>



Present Value of Vested Benefits

Table I-F

	<u>Old Assumptions w/o Amendment</u>	<u>Old Assumptions w/ Amendment</u>	<u>New Assumptions w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$12,963,229	\$12,963,229	\$13,504,889
Termination benefits	\$998,774	\$998,774	\$1,069,393
Disability benefits	\$846,545	\$846,545	\$877,085
Death benefits	\$198,621	\$198,621	\$241,932
Refund of employee contributions	\$15,571	\$15,571	\$15,569
Sub-total	\$15,022,740	\$15,022,740	\$15,708,868
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$1,268	\$1,268	\$1,268
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$6,656,319	\$6,656,319	\$6,875,394
Disability retirements	\$1,878,947	\$1,878,947	\$1,951,053
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$4,424,636	\$4,424,636	\$4,557,361
Sub-total	\$12,959,902	\$12,959,902	\$13,383,808
<i><u>Grand Total</u></i>	<u>\$27,983,910</u>	<u>\$27,983,910</u>	<u>\$29,093,944</u>



Entry Age Normal Accrued Liability

Table I-G

	<u>Old Assumptions w/o Amendment</u>	<u>Old Assumptions w/ Amendment</u>	<u>New Assumptions w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$21,087,369	\$21,087,369	\$21,988,180
Termination benefits	\$1,262,572	\$1,262,572	\$1,352,682
Disability benefits	\$1,079,005	\$1,079,005	\$1,118,884
Death benefits	\$224,542	\$224,542	\$275,918
Refund of employee contributions	\$8,293	\$8,293	\$8,293
Sub-total	\$23,661,781	\$23,661,781	\$24,743,957
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<i><u>Due a Refund of Contributions</u></i>	\$1,268	\$1,268	\$1,268
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$6,656,319	\$6,656,319	\$6,875,394
Disability retirements	\$1,878,947	\$1,878,947	\$1,951,053
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$4,424,636	\$4,424,636	\$4,557,361
Sub-total	\$12,959,902	\$12,959,902	\$13,383,808
<i><u>Grand Total</u></i>	<u>\$36,622,951</u>	<u>\$36,622,951</u>	<u>\$38,129,033</u>



Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1, 2016	\$30,527,026
Minus DROP account balances	(\$642,275)
Minus advance employer contributions	(\$309,217)
Minus excess Chapter 175/185 contributions	(\$78,562)
Actuarial Value of Assets as of October 1, 2016	<u>\$29,496,972</u>

<u>Historical Actuarial Value of Assets</u>	
October 1, 2007	\$10,178,736
October 1, 2008	\$9,901,143
October 1, 2009	\$9,778,891
October 1, 2010	\$12,806,292
October 1, 2011	\$14,407,208
October 1, 2012	\$18,425,606
October 1, 2013	\$21,754,439
October 1, 2014	\$24,788,582
October 1, 2015	\$25,839,564
October 1, 2016	\$29,496,972

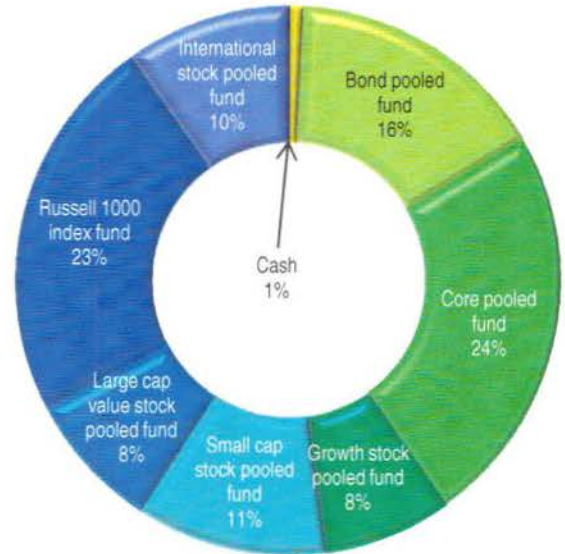


Market Value of Assets

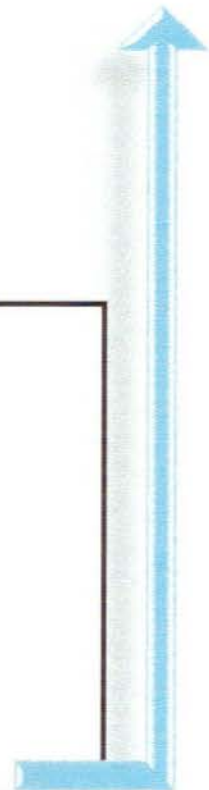
Table II-B

As of October 1, 2016

Market Value of Assets	<u>\$30,527,026</u>
Cash	\$244,216
Bond pooled fund	\$4,762,216
Core pooled fund	\$7,265,432
Growth stock pooled fund	\$2,320,054
Small cap stock pooled fund	\$3,449,554
Large cap value stock pooled fund	\$2,503,216
Russell 1000 index fund	\$6,990,689
International stock pooled fund	\$2,991,649

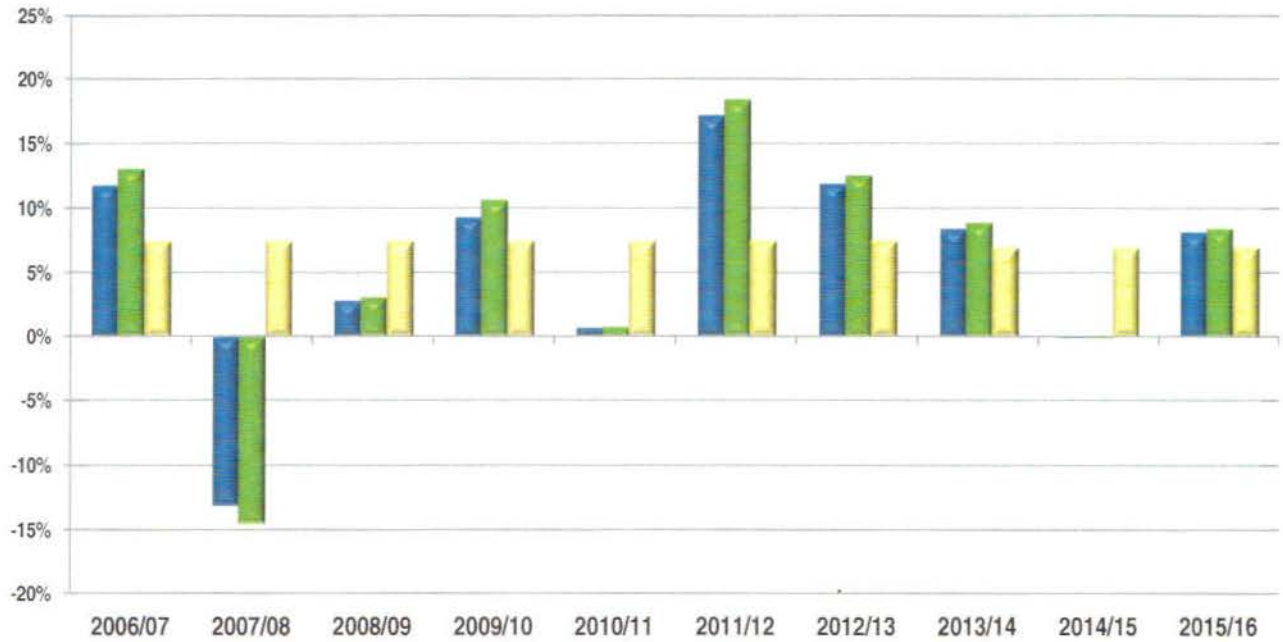


<u>Historical Market Value of Assets</u>	
October 1, 2007	\$11,170,167
October 1, 2008	\$11,461,484
October 1, 2009	\$11,531,839
October 1, 2010	\$14,165,249
October 1, 2011	\$15,576,823
October 1, 2012	\$19,409,374
October 1, 2013	\$22,836,219
October 1, 2014	\$26,085,813
October 1, 2015	\$26,747,732
October 1, 2016	\$30,527,026



Investment Return

Table II-C



Annual Investment Returns

■ Market Value Return
 ■ Actuarial Value Return
 ■ Assumed Return

Plan Year	Market Value Return	Actuarial Value Return	Assumed Return
2006/07	11.80%	13.09%	7.50%
2007/08	-13.08%	-14.47%	7.50%
2008/09	2.81%	3.11%	7.50%
2009/10	9.34%	10.70%	7.50%
2010/11	0.68%	0.75%	7.50%
2011/12	17.18%	18.41%	7.50%
2012/13	11.92%	12.58%	7.50%
2013/14	8.45%	8.90%	7.00%
2014/15	-0.11%	-0.11%	7.00%
2015/16	8.14%	8.43%	7.00%
10yr. Avg.	5.39%	5.75%	7.35%



Asset Reconciliation

Table II-D

	<u>Market Value</u>	<u>Actuarial Value</u>
As of October 1, 2015	\$26,747,732	\$25,839,564
<i>Increases Due To:</i>		
Employer Contributions	\$1,709,287	\$1,709,287
Chapter 175/185 Contributions	\$414,319	\$414,319
Employee Contributions	\$162,048	\$162,048
Service Purchase Contributions	\$0	\$0
Total Contributions	<u>\$2,285,654</u>	<u>\$2,285,654</u>
Interest and Dividends	\$0	
Realized Gains (Losses)	\$0	
Unrealized Gains (Losses)	\$2,239,144	
Total Investment Income	<u>\$2,239,144</u>	\$2,239,144
Other Income	\$0	
Total Income	<u>\$4,524,798</u>	<u>\$4,524,798</u>
<i>Decreases Due To:</i>		
Monthly Benefit Payments	(\$680,847)	(\$680,847)
Refund of Employee Contributions	\$0	\$0
DROP Credits		(\$285,006)
Total Benefit Payments	<u>(\$680,847)</u>	<u>(\$965,853)</u>
Investment Expenses	\$0	
Administrative Expenses	(\$64,657)	(\$64,657)
Advance Employer Contribution		\$163,120
Excess Chapter 175/185 Contribution		\$0
Total Expenses	<u>(\$745,504)</u>	<u>(\$867,390)</u>
As of October 1, 2016	<u>\$30,527,026</u>	<u>\$29,496,972</u>



Historical Trust Fund Detail

Table II-E

Income

<u>Plan Year</u>	<u>Employer Contribs.</u>	<u>Chapter Contribs.</u>	<u>Employee Contribs.</u>	<u>Service Purchase Contribs.</u>	<u>Interest / Dividends</u>	<u>Realized Gains / Losses</u>	<u>Unrealized Gains / Losses</u>	<u>Other Income</u>
2006/07	\$1,054,605	\$277,689	\$141,642	\$76,834	\$0	\$0	\$1,101,297	\$0
2007/08	\$1,342,701	\$432,471	\$153,012	\$40,772	\$0	\$0	-\$1,584,177	\$0
2008/09	\$862,274	\$463,450	\$151,515	\$0	\$0	\$0	\$319,010	\$0
2009/10	\$1,036,007	\$425,465	\$154,877	\$0	\$0	\$0	\$1,146,562	\$0
2010/11	\$1,144,422	\$398,462	\$146,195	\$0	\$0	\$0	\$101,054	\$0
2011/12	\$907,375	\$429,639	\$139,372	\$0	\$0	\$0	\$2,767,695	\$0
2012/13	\$1,598,463	\$408,775	\$136,039	\$0	\$0	\$0	\$2,376,983	\$0
2013/14	\$1,267,372	\$448,192	\$143,926	\$0	\$0	\$0	\$1,982,480	\$0
2014/15	\$1,397,570	\$483,833	\$152,860	\$0	\$0	\$0	-\$28,475	\$0
2015/16	\$1,709,287	\$414,319	\$162,048	\$0	\$0	\$0	\$2,239,144	\$0

Expenses

<u>Plan Year</u>	<u>Monthly Benefit Payments</u>	<u>Contrib. Refunds</u>	<u>Admin. Expenses</u>	<u>Invest. Expenses</u>	<u>Other Actuarial Adjustments</u>		
					<u>DROP Credits</u>	<u>Advance Employer Contribs.</u>	<u>Excess Chapter Contribs.</u>
2006/07	\$57,191	\$1,123	\$27,436	\$0	\$0	\$136,754	\$0
2007/08	\$57,191	\$3,441	\$32,830	\$0	\$17,949	\$568,910	\$0
2008/09	\$1,685,869	\$10,590	\$29,435	\$0	\$147,617	\$2,562	\$24,479
2009/10	\$86,037	\$425	\$43,039	\$0	\$183,600	-\$577,591	\$0
2010/11	\$326,691	\$0	\$51,868	\$0	\$131,135	-\$320,477	\$0
2011/12	\$362,065	\$1,262	\$48,203	\$0	\$341,936	-\$527,783	\$0
2012/13	\$1,041,946	\$1,101	\$50,368	\$0	-\$287,641	\$385,653	\$0
2013/14	\$526,686	\$6,682	\$59,008	\$0	\$249,206	-\$42,976	\$9,221
2014/15	\$1,279,900	\$201	\$63,768	\$0	-\$426,533	-\$7,392	\$44,862
2015/16	\$680,847	\$0	\$64,657	\$0	\$285,006	-\$163,120	\$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, 2015	\$472,337
Additional Employer Contribution	\$2,123,606
Minimum Required Contribution	(\$2,286,726)
Net Increase in Advance Employer Contribution	(\$163,120)
Advance Employer Contribution as of October 1, 2016	<u>\$309,217</u>

Excess Chapter 175/185 Contribution

Excess Chapter 175/185 Contribution as of October 1, 2015	\$78,562
Additional Chapter 175/185 Contribution	\$414,319
Allowable Chapter 175/185 Contribution	(\$414,319)
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2016	<u>\$78,562</u>

DROP Account Reconciliation

DROP Balance as of October 1, 2015	\$357,269
DROP Benefit Credits	\$253,464
DROP Investment Credits	\$31,542
DROP Benefits Paid Out	\$0
Net DROP Credit	\$285,006
DROP Balance as of October 1, 2016	<u>\$642,275</u>



Historical Chapter 175/185 Contributions

Table II-G

Total Accumulated Excess Chapter 175/185 Contribution \$78,562

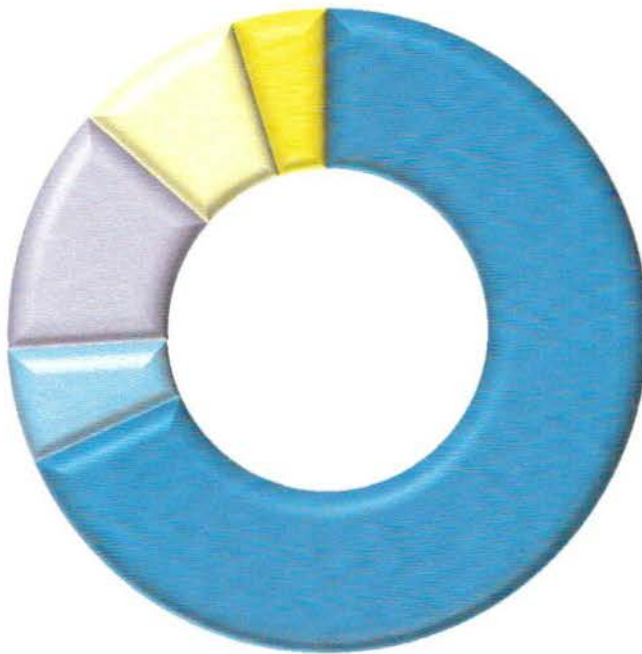
	Chapter 175 Regular <u>Distribution</u>	Chapter 175 Supplemental <u>Distribution</u>	Chapter 185 <u>Distribution</u>	Allowable <u>Amount</u>
1998 Distribution	\$38,443	\$0	\$0	(\$38,443)
1999 Distribution	\$49,368	\$0	\$0	(\$49,368)
2000 Distribution	\$76,102	\$0	\$0	(\$76,102)
2001 Distribution	\$99,756	\$0	\$0	(\$99,756)
2002 Distribution	\$132,354	\$0	\$0	(\$132,354)
2003 Distribution	\$158,638	\$0	\$0	(\$158,638)
2004 Distribution	\$196,521	\$0	\$0	(\$196,521)
2005 Distribution	\$239,425	\$0	\$0	(\$239,425)
2006 Distribution	\$273,425	\$4,264	\$0	(\$277,689)
2007 Distribution	\$297,089	\$135,382	\$0	(\$432,471)
2008 Distribution	\$329,717	\$133,733	\$0	(\$438,971)
2009 Distribution	\$324,870	\$100,595	\$0	(\$425,465)
2010 Distribution	\$324,070	\$74,392	\$0	(\$398,462)
2011 Distribution	\$333,648	\$95,991	\$0	(\$429,639)
2012 Distribution	\$304,728	\$104,047	\$0	(\$408,775)
2013 Distribution	\$315,742	\$132,450	\$0	(\$438,971)
2014 Distribution	\$348,350	\$135,483	\$0	(\$438,971)
2015 Distribution	\$356,502	\$57,817	\$0	(\$414,319)



Summary of Participant Data

Table III-A

As of October 1, 2016



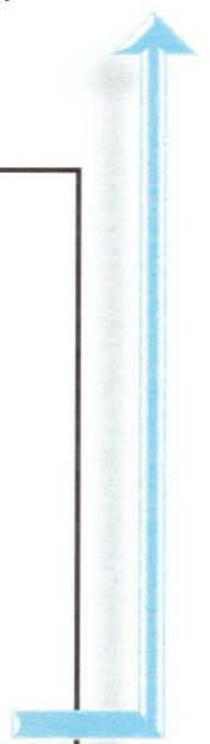
Participant Distribution by Status

<u>Actively Employed Participants</u>		
◆	Active Participants	71
◆	DROP Participants	6
<u>Inactive Participants</u>		
◆	Deferred Vested Participants	0
◆	Due a Refund of Contributions	13
◆	Deferred Beneficiaries	0
<u>Participants Receiving a Benefit</u>		
◆	Service Retirements	9
◆	Disability Retirements	5
◆	Beneficiaries Receiving	0

Total Participants 104

Number of Participants Included in Prior Valuations

	<i>Active</i>	<i>DROP</i>	<i>Inactive</i>	<i>Retired</i>	<i>Total</i>
October 1, 2007	87	0	21	3	111
October 1, 2008	N/A	N/A	N/A	N/A	N/A
October 1, 2009	89	2	22	4	117
October 1, 2010	82	2	25	5	114
October 1, 2011	81	4	26	9	120
October 1, 2012	77	4	24	11	116
October 1, 2013	74	3	25	12	114
October 1, 2014	72	4	15	12	103
October 1, 2015	73	4	13	14	104
October 1, 2016	71	6	13	14	104



Data Reconciliation

Table III-B

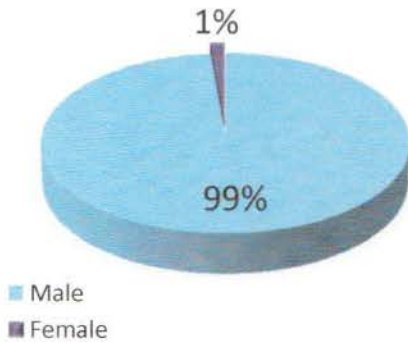
	<u>Active</u>	<u>DROP</u>	<u>Deferred Vested</u>	<u>Due a Refund</u>	<u>Def. Benef.</u>	<u>Service Retiree</u>	<u>Disabled Retiree</u>	<u>Benef. Rec'v.</u>	<u>Total</u>
<u>October 1, 2015</u>	73	4	0	13	0	9	5	0	104
<u>Change in Status</u>									
Re-employed									
Terminated									
Retired									
<u>Participation Ended</u>									
Transferred Out	(2)	2							
Cashed Out									
Died									
<u>Participation Began</u>									
Newly Hired									
Transferred In									
New Beneficiary									
<u>Other Adjustment</u>									
<u>October 1, 2016</u>	71	6	0	13	0	9	5	0	104



Active Participant Data

Table III-C

Gender Mix



As of October 1, 2016

Average Age	41.3 years
Average Service	13.8 years
Total Annualized Compensation for the Prior Year	\$4,534,768
Total Expected Compensation for the Current Year	\$4,470,500
Average Increase in Compensation for the Prior Year	9.14%
Expected Increase in Compensation for the Current Year	4.50%
Accumulated Contributions for Active Employees	\$1,602,339

Actual vs. Expected Salary Increases



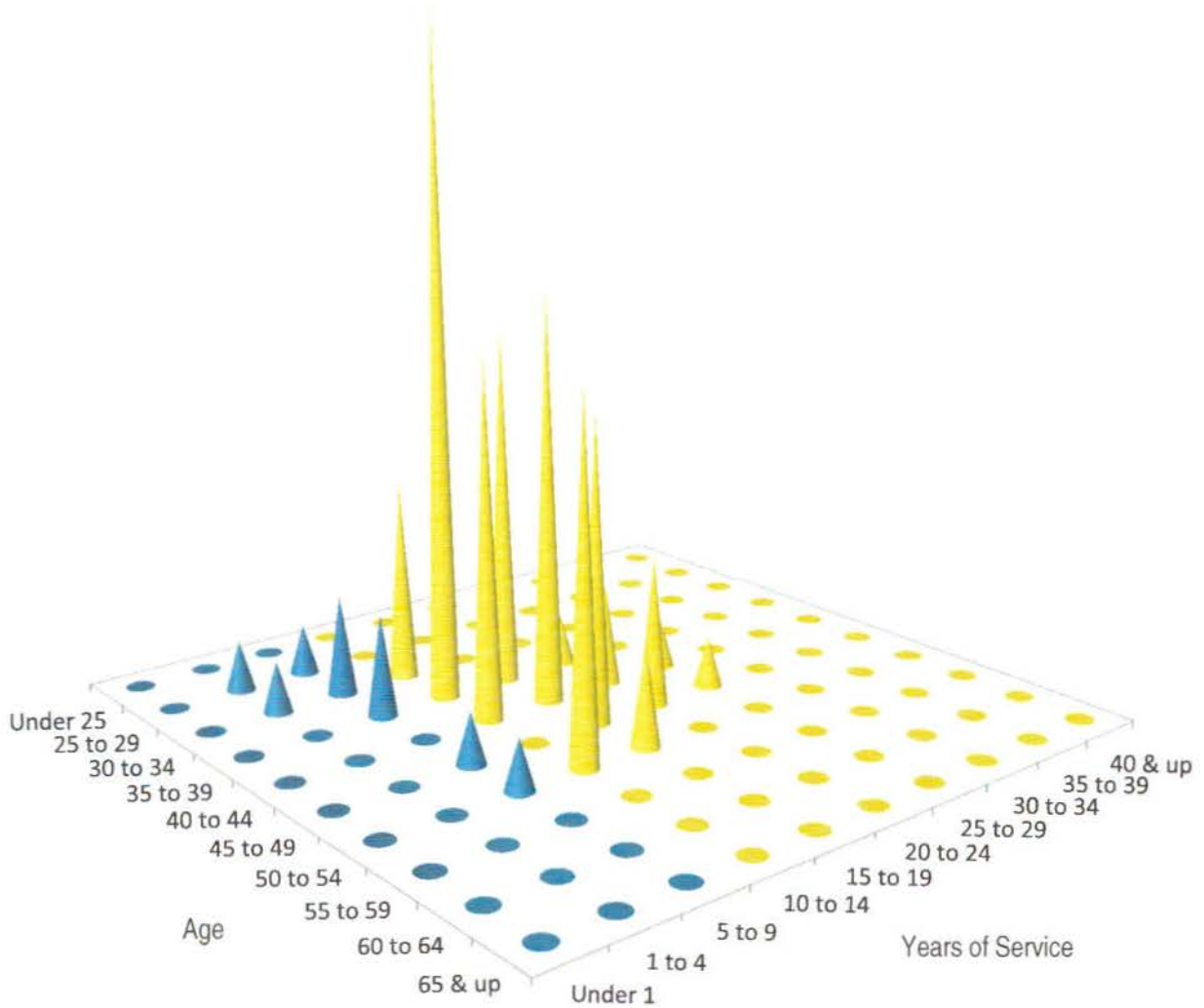
Active Participant Statistics From Prior Valuations

	Average Age	Average Service	Average Salary	Average Expected Salary Increase	Average Actual Salary Increase
October 1, 2007	37.9	9.8	\$46,671	N/A	N/A
October 1, 2008	N/A	N/A	N/A	5.45%	7.61%
October 1, 2009	36.2	8.7	\$47,154	5.20%	2.14%
October 1, 2010	37.7	10.1	\$53,650	5.43%	5.94%
October 1, 2011	37.0	9.6	\$48,778	5.13%	0.21%
October 1, 2012	37.9	10.5	\$50,965	5.27%	3.14%
October 1, 2013	39.3	11.7	\$52,471	5.12%	1.23%
October 1, 2014	40.2	12.7	\$56,296	4.50%	4.32%
October 1, 2015	40.6	13.0	\$58,976	4.50%	6.91%
October 1, 2016	41.3	13.8	\$63,870	4.50%	9.14%



Active Age-Service Distribution

Table III-D



- ▲ Eligible to retire
- ▲ May be eligible to retire
- ▲ Not eligible to retire



Active Age-Service-Salary Table

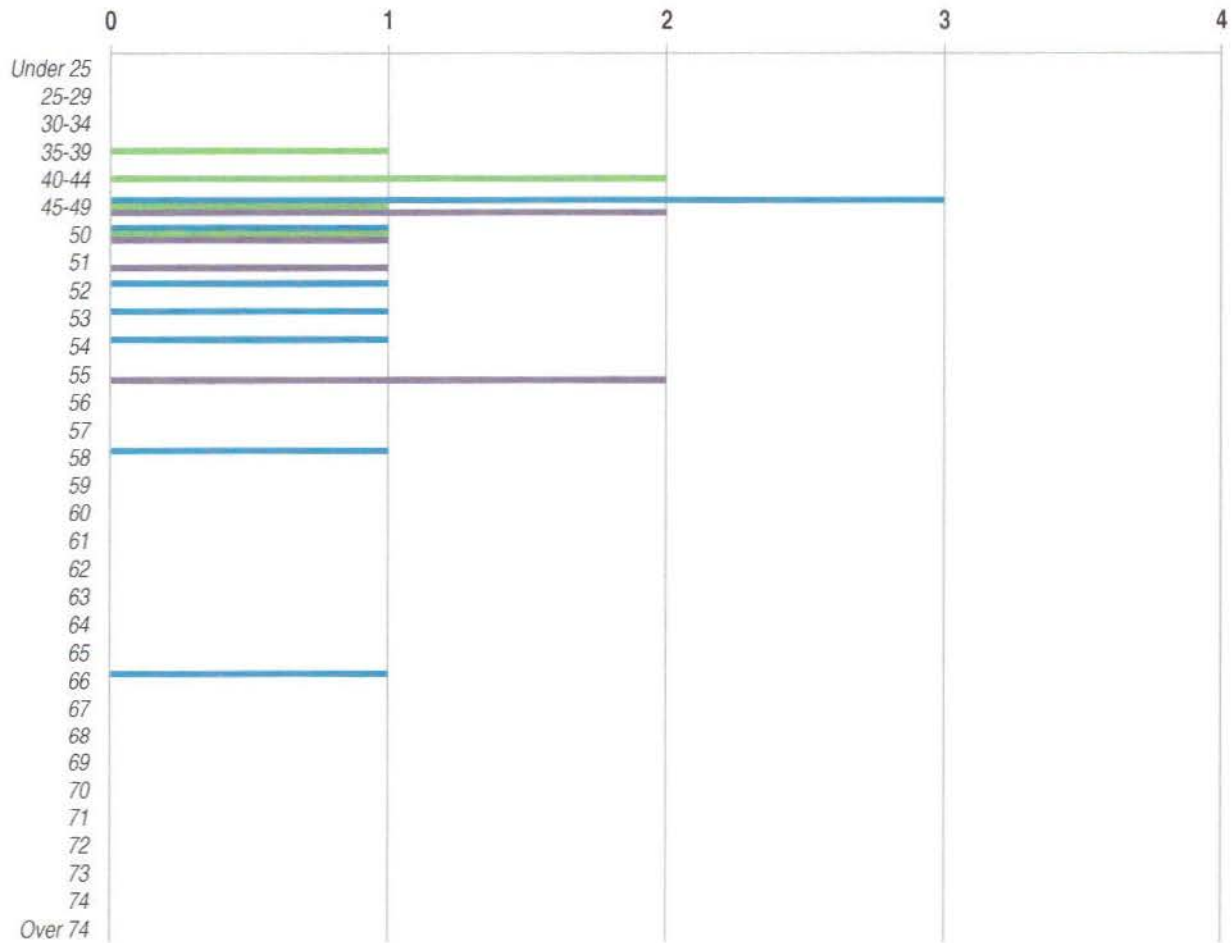
Table III-E

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	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	1	1	0	0	0	0	0	0	0	0	2
Avg.Pay	0	46,529	58,386	0	0	0	0	0	0	0	0	52,458
30 to 34	0	1	2	4	0	0	0	0	0	0	0	7
Avg.Pay	0	46,506	54,911	62,625	0	0	0	0	0	0	0	58,118
35 to 39	0	0	2	13	7	1	0	0	0	0	0	23
Avg.Pay	0	0	53,403	61,627	65,469	62,605	0	0	0	0	0	62,124
40 to 44	0	0	0	7	8	2	1	0	0	0	0	18
Avg.Pay	0	0	0	61,414	63,007	69,147	73,960	0	0	0	0	63,678
45 to 49	0	0	1	0	6	3	1	0	0	0	0	11
Avg.Pay	0	0	60,480	0	67,540	81,887	91,576	0	0	0	0	72,996
50 to 54	0	0	1	7	2	0	0	0	0	0	0	10
Avg.Pay	0	0	59,055	64,228	68,184	0	0	0	0	0	0	64,502
55 to 59	0	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0	0
60 to 64	0	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0	0
65 & up	0	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	7	31	23	6	2	0	0	0	0	71
Avg.Pay	0	46,518	56,364	62,295	65,389	74,427	82,768	0	0	0	0	63,870



Inactive Participant Data

Table III-F



Age at Retirement

- Service Retirements
- Disability Retirements
- DROP Participants

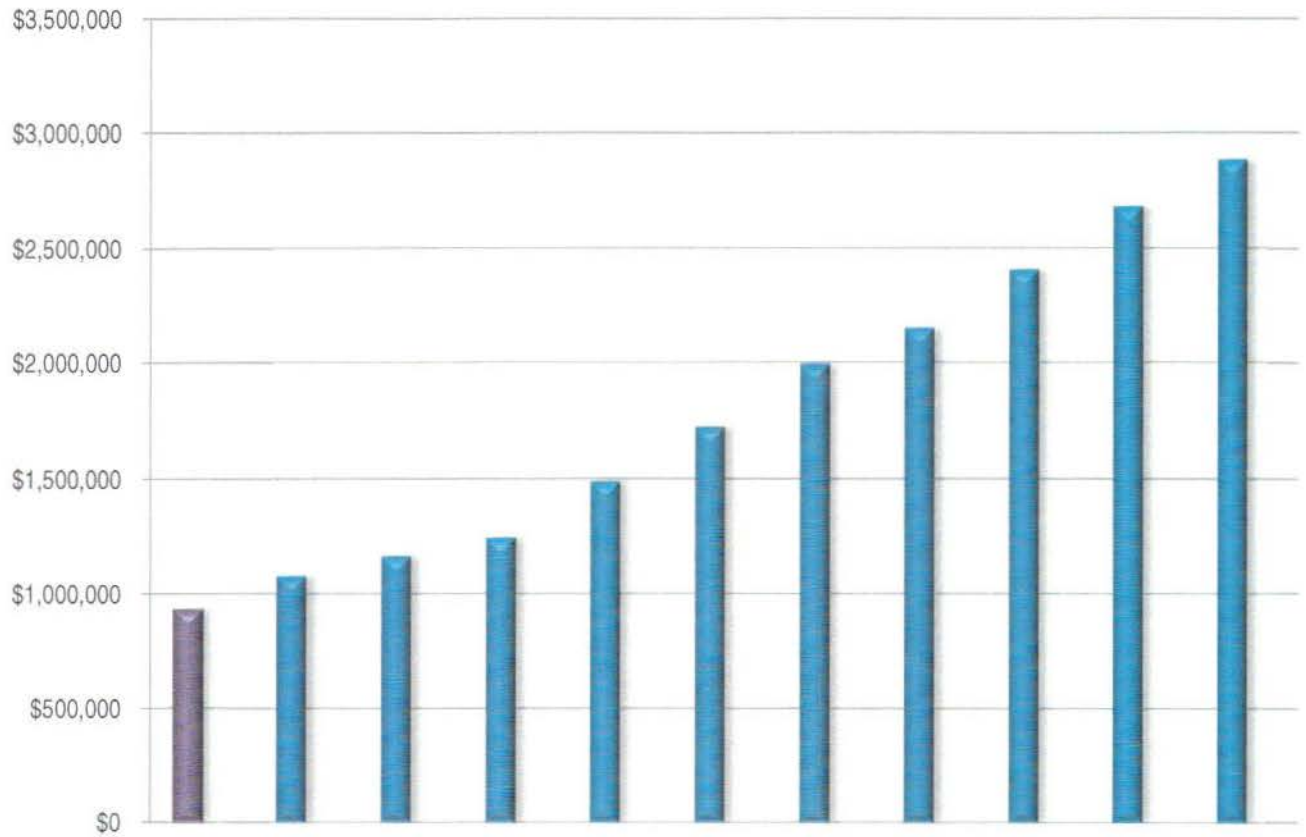
Average Monthly Benefit

Service Retirements	\$4,922.74
Disability Retirements	\$2,486.52
Beneficiaries Receiving	Not applicable
DROP Participants	\$4,464.13
Deferred Vested Participants	Not applicable
Deferred Beneficiaries	Not applicable



Projected Benefit Payments

Table III-G



Actual

For the period October 1, 2015 through September 30, 2016

\$934,311

Projected

For the period October 1, 2016 through September 30, 2017

\$1,080,263

For the period October 1, 2017 through September 30, 2018

\$1,168,658

For the period October 1, 2018 through September 30, 2019

\$1,250,002

For the period October 1, 2019 through September 30, 2020

\$1,492,535

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

\$1,725,299

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

\$1,995,672

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

\$2,152,584

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

\$2,408,241

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

\$2,684,425

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

\$2,884,591



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 4.50% per annum, unless actual plan compensation is known for a prior plan year.

5. **Decrements**

- Pre-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined Mortality Table, with full generational improvements in mortality using Scale BB
- Post-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined Mortality Table, with full generational improvements in mortality using Scale BB
- Disability: Age- and gender-based rates of disability were assumed, ranging from 0.067% for males and 0.040% for females at age 25, 0.119% for males and 0.118% for females at age 35, 0.462% for males and 0.435% for females at age 45, and 1.000% for males and 0.840% for females at age 55; all disabilities are assumed to be service-related.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

- Termination: With respect to participants with less than 10 years of service, the termination rates are both gender- and service-based, ranging from 15.00% for males and 10.01% for females with less than two years of service to 4.30% for males and 4.75% for females with between eight and 10 years of service; with respect to participants with at least 10 years of service, the termination rates are both gender- and age-based, ranging from 4.28% for males and 5.41% for females at age 25 to 0.00% for both genders at age 55.
- Retirement: For those participants who have met the age and service requirements to retire, retirement is assumed to occur at the rate of 10% per year during each of the three years prior to normal retirement age; alternatively, 40% of participants who reach their normal retirement age are assumed to retire immediately, with 20% assumed to retire during each of the next two years after the attainment of normal retirement age and 100% assumed to retire three years after the attainment of normal retirement age. No early retirements are assumed to occur prior to age 50.

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 1.00% to account for anticipated administrative expenses. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.



Changes in Actuarial Methods and Assumptions

Table IV-B

Since the completion of the previous valuation, 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 Combined Mortality Table as required by State law.



Summary of Plan Provisions

Table V-A

1. **Monthly Accrued Benefit**

3.50% of Average Final Compensation multiplied by Credited Service

2. **Normal Retirement Age and Benefit**

- **Age**

Age 55 with at least 10 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); or
Any other actuarially equivalent form of payment approved by the Board other than a single lump sum payment

(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



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 District.
- **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 firefighter.
- **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 District-provided disability compensation from exceeding his Average Final Compensation:
 - (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 District.
- **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 District-provided disability compensation from exceeding his Average Final Compensation:
 - (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 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

8. Pre-Retirement Death Benefit

In the case of the death of a participant in the line of duty prior to retirement, his beneficiary will receive the greater of the participant's Monthly Accrued Benefit or 50% of the participant's salary payable for life. In the case of the death of a vested participant other than in the line of duty 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 three years of Compensation out of the last 10 years of employment (or career average, if higher).

10. Compensation

Fixed monthly compensation or, in the case of voluntary firefighters, actual compensation for services rendered; 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, provided that the participant made all required contributions. In the case of a full-time firefighter, prior service earned before January 12, 2014 as a volunteer firefighter is counted for vesting and eligibility purposes only. In addition, Credited Service includes prior service with the Oneco-Tallevast and Samoset Fire Districts.



Summary of Plan Provisions

Table V-A

(continued)

12. Participation Requirement

All firefighters of the Southern Manatee Fire & Rescue District 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 10 years of Credited Service, he receives his Accumulated Contributions in lieu of any other benefits payable from the plan.

14. Participant Contribution

3.50% of earnings

15. Definition of Actuarially Equivalent

- **Interest Rate**

7.00% per annum

- **Mortality Table**

Unisex mortality table promulgated by the Internal Revenue Service (IRS) for purposes of determining the amount of lump sum distributions pursuant to Internal Revenue Service (IRC) section 417(e)(3)

16. Plan Effective Date

March 11, 1997

17. Deferred Retirement Option Plan (DROP)

A participant who reaches his Normal Retirement Age is eligible to participate in the DROP for a period of up to 96 months. Interest is credited on the DROP accounts at the rate of 6.50% per annum.

18. Retiree Health Supplement

Participants who retire from active service with a normal or disability retirement benefit receive a monthly post-retirement health supplement equal to \$15 for each year of service, with a minimum monthly benefit of \$50 and a maximum monthly benefit of \$450. In addition, this monthly supplement is paid to the participant's eligible spouse during the period that a retirement benefit is payable to the spouse, provided that the participant was either receiving a normal or disability retirement benefit or was eligible for normal retirement at his death.



Summary of Plan Amendments

Table V-B

There were no significant plan amendments adopted since the completion of the previous valuation.



RETIREMENT PLAN FOR THE FIREFIGHTERS
OF THE SOUTHERN MANATEE FIRE & RESCUE DISTRICT

ACTUARIAL VALUATION
AS OF OCTOBER 1, 2015

GASB 67/68 SUPPLEMENT
AS OF SEPTEMBER 30, 2016



DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN

NET PENSION LIABILITY AS OF SEPTEMBER 30, 2016

Total pension liability	\$36,507,111 *
Less fiduciary net position	<u>(30,448,464)</u>
Net pension liability	<u>\$6,058,647 **</u>

* This amount has been rolled forward from October 1, 2015.

** This amount is recognized on the employer's balance sheet.

PENSION EXPENSE FOR THE 2015/16 FISCAL YEAR

Service cost	\$1,229,781
Other recognized changes in net pension liability:	
Expected interest growth	(87,754)
Investment gain/loss	402,313
Demographic gain/loss	73,331
Employee contributions	(162,048)
Administrative expenses	64,657
Changes in benefit terms	0
Assumption changes	<u>578,221</u>
Pension expense	<u>\$2,098,501 *</u>

* This amount is recognized on the employer's income statement, along with the employer contribution for the 2015/16 fiscal year.

DEFERRED INFLOW AND OUTFLOW OF RESOURCES

	Deferred Outflows Of Resources	Deferred Inflows Of Resources
Balance as of September 30, 2015	\$1,986,093	\$2,963,451
Change due to:		
Amortization payments	\$(1,502,842)	\$(448,977)
Investment gain/loss	\$0	\$319,309
Demographic gain/loss	\$577,969	\$0
Assumption changes	<u>\$8,117,345</u>	<u>\$0</u>
Total change	\$7,192,472	\$(129,668)
Balance as of September 30, 2016	\$9,178,565 *	\$2,833,783 *

* These amounts are recognized on the employer's balance sheet.

BALANCE EQUATION

Net pension liability as of September 30, 2015	\$(1,238,388)
Plus pension expense for the 2015/16 fiscal year	\$2,098,501
Minus employer contribution for the 2015/16 fiscal year	\$(2,123,606)
Plus change in balance of deferred outflows of resources	\$7,192,472
Minus change in balance of deferred inflows of resources	\$129,668
Net pension liability as of September 30, 2016	\$6,058,647

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

DEFERRED INFLOW AND OUTFLOW OF RESOURCES (continued)

Amortization schedule for deferred outflows and inflows of resources:

	Deferred Outflows Of Resources	Deferred Inflows Of Resources
Balance as of September 30, 2016	\$9,178,565	\$2,833,783
Amount recognized in the 2016/17 pension expense:		
<i>Investment gain/loss</i>	\$484,535	\$82,222
<i>Demographic gain/loss</i>	\$73,331	\$0
<i>Assumption changes</i>	\$944,976	\$366,755
<i>Total</i>	\$1,502,842	\$448,977
Balance as of September 30, 2017	\$7,675,723	\$2,384,806
Amount recognized in the 2017/18 pension expense:		
<i>Investment gain/loss</i>	\$484,535	\$82,223
<i>Demographic gain/loss</i>	\$73,331	\$0
<i>Assumption changes</i>	\$944,976	\$366,755
<i>Total</i>	\$1,502,842	\$448,978
Balance as of September 30, 2018	\$6,172,881	\$1,935,828
Amount recognized in the 2018/19 pension expense:		
<i>Investment gain/loss</i>	\$484,537	\$63,862
<i>Demographic gain/loss</i>	\$73,331	\$0
<i>Assumption changes</i>	\$944,976	\$366,755
<i>Total</i>	\$1,502,844	\$430,617
Balance as of September 30, 2019	\$4,670,037	\$1,505,211
Amount recognized in the 2019/20 pension expense:		
<i>Investment gain/loss</i>	\$0	\$63,861
<i>Demographic gain/loss</i>	\$73,331	\$0
<i>Assumption changes</i>	\$944,976	\$366,755
<i>Total</i>	\$1,018,307	\$430,616
Balance as of September 30, 2020	\$3,651,730	\$1,074,595
Amount recognized in the 2020/21 pension expense:		
<i>Investment gain/loss</i>	\$0	\$0
<i>Demographic gain/loss</i>	\$73,331	\$0
<i>Assumption changes</i>	\$944,976	\$366,755
<i>Total</i>	\$1,018,307	\$366,755
Balance as of September 30, 2021	\$2,633,423	\$707,840

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

CHANGES IN THE NET PENSION LIABILITY

	Total Pension Liability	Fiduciary Net Position	Net Pension Liability
Balance as of September 30, 2015	\$25,430,782	\$(26,669,170)	\$(1,238,388)
Change due to:			
<i>Service cost</i>	\$1,229,781	\$0	\$1,229,781
<i>Expected interest growth</i>	\$1,832,081	\$(1,919,835)	\$(87,754)
<i>Unexpected investment income</i>	\$0	\$(319,309)	\$(319,309)
<i>Demographic experience</i>	\$577,969	\$0	\$577,969
<i>Employer contributions</i>	\$0	\$(2,123,606)	\$(2,123,606)
<i>Employee contributions</i>	\$0	\$(162,048)	\$(162,048)
<i>Benefit payments & refunds</i>	\$(680,847)	\$680,847	\$0
<i>Administrative expenses</i>	\$0	\$64,657	\$64,657
<i>Changes in benefit terms</i>	\$0	\$0	\$0
<i>Assumption changes</i>	\$8,117,345	\$0	\$8,117,345
Balance as of September 30, 2016	\$36,507,111	\$(30,448,464)	\$6,058,647

COMPARISON OF NET PENSION LIABILITY USING ALTERNATIVE DISCOUNT RATES

	Discount Rate Minus 1.00%	7.00% Discount Rate	Discount Rate Plus 1.00%
Total pension liability	\$41,723,286	\$36,507,111	\$32,214,695
Less fiduciary net position	<u>(30,448,464)</u>	<u>(30,448,464)</u>	<u>(30,448,464)</u>
Net pension liability	\$11,274,822	\$6,058,647	\$1,766,231

HISTORICAL TREND INFORMATION

Measurement Date	Total Pension Liability	Fiduciary Net Position	Net Pension Liability	Funded Percentage	Covered Payroll	Net Pension Liability as a % of Covered Payroll
September 30, 2016	\$36,507,111	\$30,448,464	\$6,058,647	83.40%	\$4,221,200	143.53%
September 30, 2015	\$25,430,782	\$26,669,170	\$(1,238,388)	104.87%	\$4,067,897	<i>Not applicable</i>
September 30, 2014	\$26,673,369	\$26,052,113	\$621,256	97.67%	\$3,876,548	16.03%
September 30, 2013	\$24,343,810	\$22,811,740	\$1,532,070	93.71%	\$3,876,548	39.52%
October 1, 2012	\$24,417,932	\$18,425,606	\$5,992,326	75.46%	\$3,942,166	152.01%
October 1, 2011	\$22,231,328	\$14,407,208	\$7,824,120	64.81%	\$3,954,450	197.86%
October 1, 2010	\$20,126,718	\$12,806,292	\$7,320,426	63.63%	\$4,315,692	169.62%
October 1, 2009	\$17,500,195	\$9,778,891	\$7,721,304	55.88%	\$4,126,922	187.10%

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

HISTORICAL TREND INFORMATION (continued)

Changes in the net pension liability by source

Fiscal Year	Service Cost	Expected Interest Growth	Unexpected Investment Income	Demographic Experience	Employer Contributions	Employee Contributions	Benefit Payments & Refunds	Administrative Expenses	Changes In Benefit Terms	Assumption Changes
2015/16	\$1,229,781	\$(87,754)	\$(319,309)	\$577,969	\$(2,123,606)	\$(162,048)	\$0	\$64,657	\$0	\$8,117,345
2014/15	\$747,705	\$60,231	\$2,422,677	\$53,998	\$(1,836,541)	\$(152,860)	\$56,503	\$63,768	\$0	\$(3,275,125)
2013/14	\$877,974	\$71,513	\$(91,801)	\$0	\$(1,706,343)	\$(143,926)	\$22,761	\$59,008	\$0	\$0

Note: The amortization period for demographic experience and assumption changes was 8.93 years for the 2014/15 fiscal year and 8.59 years for the 2015/16 fiscal year.

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

HISTORICAL TREND INFORMATION (continued)

Fiscal Year End	(1) Actuarially Determined Contribution	(2) Contributions Recognized By the Plan	(3) Difference Between (1) and (2)	Covered Payroll	Column (2) as a % of Covered Payroll
September 30, 2016	\$2,286,726	\$2,123,606	\$(163,120)	\$4,221,200	50.31%
September 30, 2015	\$1,843,933	\$1,836,541	\$(7,392)	\$4,067,897	45.15%
September 30, 2014	\$1,749,319	\$1,706,343	\$(42,976)	\$3,876,548	44.02%
September 30, 2013	\$2,007,238	\$2,529,943	\$522,705	\$3,942,166	64.18%
September 30, 2012	\$1,337,014	\$1,337,014	\$0	\$3,954,450	33.81%
September 30, 2011	\$1,542,884	\$1,542,884	\$0	\$4,315,692	35.75%
September 30, 2010	\$1,461,472	\$1,461,472	\$0	\$4,126,922	35.41%
September 30, 2009	\$1,301,245	\$1,301,245	\$0	Not available	Not available
September 30, 2008	\$1,775,172	\$1,775,172	\$0	Not available	Not available
September 30, 2007	\$1,332,294	\$1,332,294	\$0	Not available	Not available

INFORMATION USED TO DETERMINE THE NET PENSION LIABILITY

Employer's reporting date: *September 30, 2016*
 Measurement date: *September 30, 2016*
 Actuarial valuation date: *October 1, 2015*

Actuarial assumptions

Discount rate: *7.00% per annum (2.92% per annum is attributable to long-term inflation); this rate was used to discount all future benefit payments.*

Salary increases: *4.50% per annum*

Cost-of-living increases: *None assumed*

Mortality basis: *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; future generational improvements in mortality have not been reflected.*

Retirement: *10% are assumed to retire at each of the three years prior to normal retirement age, 40% are assumed to retire at normal retirement age, 20% are assumed to retire at each of the two years after normal retirement age, and 100% are assumed to retire three years after normal retirement age; no retirements are assumed prior to age 50.*

Other decrements: *Assumed employment termination is based on gender, age, and service; for participants with less than 10 years of service, termination rates range from 15.00% for males and 10.01% for females with less than two years of service to 4.30% for males and 4.75% for females with between eight and 10 years of service; for participants with at least 10 years of service, termination rates range from 4.28% for males and 5.41% for females at age 25 to 0.00% at age 55.*
Assumed disability is based on gender and age and ranges from 0.067% for males and 0.040% for females at age 25 to 1.00% for males and 0.84% for females at age 55.

Non-investment expenses: *Liabilities have been loaded by 1.00% to account for non-investment expenses.*

Future contributions: *Contributions from the employer and employees are assumed to be made as legally required.*

Changes: *Since the prior measurement date, the discount rate was decreased from 9.08% per annum to 7.00% per annum.*

DETERMINATION OF THE LONG-TERM EXPECTED RATE OF RETURN ON PLAN ASSETS

Investment Category	Target Allocation	Expected Long-Term Real Return
Core bonds	16.00%	0.58% per annum
Multi-sector	24.00%	1.08% per annum
U.S. large cap equity	39.00%	6.08% per annum
U.S. small cap equity	11.00%	6.83% per annum
Non-U.S. equity	10.00%	6.83% per annum
Total or weighted arithmetic average	100.00%	4.08% per annum

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

PENSION PLAN DESCRIPTION

Name of the pension plan:	<i>Retirement Plan for the Firefighters of the Southern Manatee Fire & Rescue District</i>
Legal plan administrator:	<i>Board of Trustees of the Retirement Plan for the Firefighters of the Southern Manatee Fire & Rescue District</i>
Plan type:	<i>Single-employer defined benefit pension plan</i>
Number of covered individuals:	<i>104 (14 inactive employees and beneficiaries currently receiving benefits; 13 inactive employees entitled to but not yet receiving benefits; 77 active employees)</i>
Contribution requirement:	<i>Employer contributions are actuarially determined; employees must contribute 3.50% of pensionable earnings; employee contribution requirement may be amended by District resolution, but employer contribution requirement is subject to State minimums.</i>
Pension plan reporting:	<i>The plan issues a stand-alone financial report each year, which contains information about the plan's fiduciary net position. The plan's fiduciary net position has been determined on the same basis used by the pension plan and is equal to the market value of assets calculated under the accrual basis of accounting. This report is available to the public at the plan's administrative office: Retirement Department, Florida League of Cities, Inc., P. O. Box 1757, Tallahassee, FL 32302, (800) 342-8112.</i>

Description of the benefit terms

Employees covered:	<i>Firefighters employed by the Southern Manatee Fire & Rescue District</i>
Types of benefits offered:	<i>Retirement, disability, and pre-retirement death benefits</i>
Basic pension formula:	<i>3.50% of average earnings x service</i>
Early retirement adjustment:	<i>Retirement benefit is reduced by 3% for each year by which the participant's early retirement age precedes his normal retirement age.</i>
Disability pension:	<i>Larger of basic pension formula or 42% of average earnings (for service-connected disabilities) Larger of basic pension formula or 25% of average earnings (for non-service-connected disabilities if the participant has earned at least 10 years of service) Disability benefits are offset as necessary to preclude the total of the disability benefit, worker's compensation, and other District-provided disability compensation from exceeding average earnings.</i>
Pre-retirement death benefit:	<i>Greater of 50% of salary or basic pension formula (payable for life to the beneficiary of a participant who dies in the line of duty) Basic pension formula (payable for 10 years to the beneficiary of a vested participant) Return of accumulated employee contributions (payable to the beneficiary of a non-vested participant)</i>
Normal retirement age:	<i>Age 55 with at least 10 years of service, or Any age with at least 25 years of service</i>
Early retirement age:	<i>Any age with at least 10 years of service</i>
Vesting requirement:	<i>100% vesting after 10 years of service</i>
Form of payment:	<i>Actuarially increased single life annuity 10-year certain and life annuity Actuarially equivalent 50%, 66⅔%, 75%, or 100% joint and contingent annuity Any other actuarially equivalent form of payment approved by the Board of Trustees</i>
Average earnings:	<i>Average of the highest three years of fixed monthly compensation out of the last 10 years</i>
Cost-of-living adjustment:	<i>None provided</i>
DROP:	<i>A deferred retirement option plan (DROP) is available to those participants who have attained their normal retirement age and individuals may participate in the DROP for up to 96 months; DROP accounts are credited with interest at the rate of 6.50% per annum.</i>
Health supplement:	<i>\$15 per month x service; minimum benefit is \$50 per month; maximum benefit is \$450 per month; benefit is payable for life to the participant; benefit is payable to the participant's spouse with respect to months during which the spouse is entitled to a monthly pension.</i>
Legal authority:	<i>The plan was established effective March 11, 1997 pursuant to a District resolution and has been amended several times since that date.</i>
Changes:	<i>The benefit terms did not change from the prior measurement date.</i>

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

PROJECTION OF THE FIDUCIARY NET POSITION

Date	BOY Balance	Contributions	Benefit Payments	Administrative Expenses	Investment Earnings	EOY Balance
October 1, 2015	\$26,669,170	\$2,285,654	\$680,847	\$64,657	\$2,239,144	\$30,448,464
October 1, 2016	\$30,448,464	\$2,333,059	\$1,063,844	\$101,029	\$2,171,587	\$33,788,237
October 1, 2017	\$33,788,237	\$2,438,047	\$1,157,642	\$109,936	\$2,405,450	\$37,364,156
October 1, 2018	\$37,364,156	\$2,547,759	\$1,268,197	\$120,435	\$2,655,374	\$41,178,657
October 1, 2019	\$41,178,657	\$2,662,408	\$1,495,973	\$142,066	\$2,917,753	\$45,120,779
October 1, 2020	\$45,120,779	\$2,782,216	\$1,718,201	\$163,170	\$3,189,451	\$49,211,075
October 1, 2021	\$49,211,075	\$2,907,416	\$1,969,645	\$187,048	\$3,470,606	\$53,432,404
October 1, 2022	\$53,432,404	\$3,038,250	\$2,115,970	\$200,944	\$3,765,088	\$57,918,828
October 1, 2023	\$57,918,828	\$1,442,882	\$2,356,410	\$223,778	\$4,015,185	\$60,796,707
October 1, 2024	\$60,796,707	\$0	\$2,612,404	\$248,088	\$4,157,346	\$62,093,561
October 1, 2025	\$62,093,561	\$0	\$2,793,789	\$265,314	\$4,241,292	\$63,275,750
October 1, 2026	\$63,275,750	\$0	\$3,100,746	\$294,464	\$4,312,480	\$64,193,020
October 1, 2027	\$64,193,020	\$0	\$3,516,512	\$333,947	\$4,361,025	\$64,703,586
October 1, 2028	\$64,703,586	\$0	\$3,780,772	\$359,043	\$4,386,808	\$64,950,579
October 1, 2029	\$64,950,579	\$0	\$4,088,343	\$388,252	\$4,392,510	\$64,866,494
October 1, 2030	\$64,866,494	\$0	\$4,492,809	\$426,662	\$4,371,385	\$64,318,408
October 1, 2031	\$64,318,408	\$0	\$4,651,057	\$441,690	\$4,327,057	\$63,552,718
October 1, 2032	\$63,552,718	\$0	\$4,802,890	\$456,109	\$4,267,738	\$62,561,457
October 1, 2033	\$62,561,457	\$0	\$4,957,468	\$470,789	\$4,192,526	\$61,325,726
October 1, 2034	\$61,325,726	\$0	\$5,022,485	\$476,963	\$4,103,576	\$59,929,854
October 1, 2035	\$59,929,854	\$0	\$5,081,933	\$482,608	\$4,003,625	\$58,368,938
October 1, 2036	\$58,368,938	\$0	\$5,078,324	\$482,266	\$3,894,497	\$56,702,845
October 1, 2037	\$56,702,845	\$0	\$5,048,694	\$479,452	\$3,778,986	\$54,953,685
October 1, 2038	\$54,953,685	\$0	\$4,995,148	\$474,367	\$3,658,563	\$53,142,733
October 1, 2039	\$53,142,733	\$0	\$4,927,275	\$467,921	\$3,534,353	\$51,281,890
October 1, 2040	\$51,281,890	\$0	\$4,857,971	\$461,340	\$3,406,705	\$49,369,284
October 1, 2041	\$49,369,284	\$0	\$4,782,620	\$454,184	\$3,275,662	\$47,408,142
October 1, 2042	\$47,408,142	\$0	\$4,705,505	\$446,861	\$3,141,287	\$45,397,063
October 1, 2043	\$45,397,063	\$0	\$4,623,024	\$439,028	\$3,003,619	\$43,338,630
October 1, 2044	\$43,338,630	\$0	\$4,524,191	\$429,642	\$2,863,252	\$41,248,049
October 1, 2045	\$41,248,049	\$0	\$4,417,222	\$419,484	\$2,720,942	\$39,132,285
October 1, 2046	\$39,132,285	\$0	\$4,303,783	\$408,711	\$2,577,112	\$36,996,903
October 1, 2047	\$36,996,903	\$0	\$4,181,974	\$397,143	\$2,432,225	\$34,850,011
October 1, 2048	\$34,850,011	\$0	\$4,051,986	\$384,799	\$2,286,840	\$32,700,066
October 1, 2049	\$32,700,066	\$0	\$3,913,149	\$371,614	\$2,141,574	\$30,556,877
October 1, 2050	\$30,556,877	\$0	\$3,765,704	\$357,612	\$1,997,106	\$28,430,667
October 1, 2051	\$28,430,667	\$0	\$3,610,201	\$342,845	\$1,854,130	\$26,331,751
October 1, 2052	\$26,331,751	\$0	\$3,446,970	\$327,343	\$1,713,356	\$24,270,794
October 1, 2053	\$24,270,794	\$0	\$3,276,322	\$311,138	\$1,575,518	\$22,258,852
October 1, 2054	\$22,258,852	\$0	\$3,100,141	\$294,407	\$1,441,320	\$20,305,624
October 1, 2055	\$20,305,624	\$0	\$2,918,939	\$277,199	\$1,311,421	\$18,420,907
October 1, 2056	\$18,420,907	\$0	\$2,734,293	\$259,664	\$1,186,447	\$16,613,397
October 1, 2057	\$16,613,397	\$0	\$2,547,475	\$241,922	\$1,066,960	\$14,890,960
October 1, 2058	\$14,890,960	\$0	\$2,360,093	\$224,127	\$953,449	\$13,260,189
October 1, 2059	\$13,260,189	\$0	\$2,172,927	\$206,353	\$846,347	\$11,727,256
October 1, 2060	\$11,727,256	\$0	\$1,980,905	\$188,118	\$746,276	\$10,304,509
October 1, 2061	\$10,304,509	\$0	\$1,800,731	\$171,007	\$653,472	\$8,986,243
October 1, 2062	\$8,986,243	\$0	\$1,624,856	\$154,305	\$567,820	\$7,774,902
October 1, 2063	\$7,774,902	\$0	\$1,454,788	\$138,155	\$489,433	\$6,671,392
October 1, 2064	\$6,671,392	\$0	\$1,291,237	\$122,623	\$418,349	\$5,675,881
October 1, 2065	\$5,675,881	\$0	\$1,135,692	\$107,852	\$354,524	\$4,786,861
October 1, 2066	\$4,786,861	\$0	\$989,586	\$93,977	\$297,797	\$4,001,095
October 1, 2067	\$4,001,095	\$0	\$853,496	\$81,053	\$247,921	\$3,314,467

DISCLOSURES RELATED TO THE FIREFIGHTERS' PENSION PLAN (continued)

PROJECTION OF THE FIDUCIARY NET POSITION (continued)

Date	BOY Balance	Contributions	Benefit Payments	Administrative Expenses	Investment Earnings	EOY Balance
October 1, 2068	\$3,314,467	\$0	\$728,654	\$69,197	\$204,560	\$2,721,176
October 1, 2069	\$2,721,176	\$0	\$615,216	\$58,424	\$167,304	\$2,214,840
October 1, 2070	\$2,214,840	\$0	\$513,977	\$48,810	\$135,674	\$1,787,727
October 1, 2071	\$1,787,727	\$0	\$417,200	\$39,620	\$109,423	\$1,440,330
October 1, 2072	\$1,440,330	\$0	\$341,950	\$32,473	\$87,940	\$1,153,847
October 1, 2073	\$1,153,847	\$0	\$277,944	\$26,395	\$70,298	\$919,806
October 1, 2074	\$919,806	\$0	\$223,997	\$21,272	\$55,947	\$730,484
October 1, 2075	\$730,484	\$0	\$178,887	\$16,988	\$44,394	\$579,003
October 1, 2076	\$579,003	\$0	\$141,868	\$13,473	\$35,185	\$458,847
October 1, 2077	\$458,847	\$0	\$110,759	\$10,518	\$27,946	\$365,516
October 1, 2078	\$365,516	\$0	\$87,691	\$8,328	\$22,282	\$291,779
October 1, 2079	\$291,779	\$0	\$69,776	\$6,626	\$17,796	\$233,173
October 1, 2080	\$233,173	\$0	\$56,262	\$5,343	\$14,202	\$185,770
October 1, 2081	\$185,770	\$0	\$45,079	\$4,281	\$11,306	\$147,716
October 1, 2082	\$147,716	\$0	\$36,606	\$3,476	\$8,961	\$116,595
October 1, 2083	\$116,595	\$0	\$30,345	\$2,882	\$7,018	\$90,386
October 1, 2084	\$90,386	\$0	\$25,106	\$2,384	\$5,381	\$68,277
October 1, 2085	\$68,277	\$0	\$19,449	\$1,847	\$4,047	\$51,028
October 1, 2086	\$51,028	\$0	\$16,255	\$1,544	\$2,960	\$36,189
October 1, 2087	\$36,189	\$0	\$10,794	\$1,025	\$2,127	\$26,497
October 1, 2088	\$26,497	\$0	\$8,738	\$830	\$1,526	\$18,455
October 1, 2089	\$18,455	\$0	\$7,173	\$681	\$1,022	\$11,623
October 1, 2090	\$11,623	\$0	\$4,342	\$412	\$650	\$7,519
October 1, 2091	\$7,519	\$0	\$3,002	\$285	\$413	\$4,645
October 1, 2092	\$4,645	\$0	\$1,541	\$146	\$267	\$3,225
October 1, 2093	\$3,225	\$0	\$1,015	\$96	\$188	\$2,302
October 1, 2094	\$2,302	\$0	\$937	\$89	\$126	\$1,402
October 1, 2095	\$1,402	\$0	\$554	\$53	\$77	\$872
October 1, 2096	\$872	\$0	\$509	\$48	\$42	\$357
October 1, 2097	\$357	\$0	\$194	\$18	\$18	\$163
October 1, 2098	\$163	\$0	\$0	\$0	\$11	\$174

NOTES: *The fiduciary net position is projected to be sufficient to cover all future benefit payments when due. The plan requires only a 7% average investment return per year to avoid a crossover date. The projection shown above does not reflect future new entrants into the pension plan.*

DISCLOSURES REQUIRED PURSUANT TO CHAPTER 2013-100, FLORIDA STATUTES

(a) City/District	Southern Manatee FD
(b) Plan Name	Retirement Plan for the Firefighters of the SMFRD
(c) Plan Type	Defined Benefit
(d) Valuation Date	10/1/2016
(e) Interest Rate:	
(1) Discount Rate, net of investment fees	7.00%
(2) Long-Term Expected Rate of Return, net of investment fees	7.00%

With respect to the reporting standards for defined benefit retirement plans or systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were prepared and completed 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, meet the requirements of Section 112.664(1), F.S., and Section 60T-1.0035, F.A.C.

(f) Certification Statement:	
(1) Signature	
(2) Actuary's Name	Charles T. Carr
(3) Enrollment Number	14-04927
(4) Signature Date	11/25/2016
(5) Cover letter attached (pdf)?	N

Section 112.664(1)(a), F.S.

(g) Total pension liability:	
(1) Service cost	\$1,371,231
(2) Interest	\$1,934,489
(3) Benefit changes	\$0
(4) Difference between expected and actual experience	\$451,663
(5) Changes in assumptions	\$8,841,318
(6) Benefit payments	(\$680,847)
(7) Contribution refunds	\$0
(8) Net change in total pension liability	\$11,917,854
(9) Total pension liability - beginning of year	\$26,598,997
(10) Total pension liability - ending of year	\$38,516,851
(h) Plan fiduciary net position:	
(1) Contributions - Employer	\$1,872,407
(2) Contributions - State	\$414,319
(3) Contributions - Member	\$162,048
(4) Net investment income	\$2,239,144
(5) Benefit payments	(\$680,847)
(6) Contribution refunds	\$0
(7) Administrative expenses	(\$64,657)
(8) Other	\$0
(9) Net change in plan fiduciary net position	\$3,942,414
(10) Plan fiduciary net position - beginning of year	\$26,196,833
(11) Plan fiduciary net position - ending of year	\$30,139,247
(i) Net pension liability/(asset) [(g)(10) minus (h)(11)]	\$8,377,604

Section 112.664(1)(b), F.S.

(j) Total pension liability:	
(1) Service cost	\$2,219,796

(2) Interest	\$1,793,629
(3) Benefit changes	\$0
(4) Difference between expected and actual experience	\$784,491
(5) Changes in assumptions	\$12,647,051
(6) Benefit payments	(\$680,847)
(7) Contribution refunds	\$0
(8) Net change in total pension liability	\$16,764,120
(9) Total pension liability - beginning of year	\$33,989,053
(10) Total pension liability - ending of year	\$50,753,173
(k) Plan fiduciary net position:	
(1) Contributions - Employer	\$1,872,407
(2) Contributions - State	\$414,319
(3) Contributions - Member	\$162,048
(4) Net investment income	\$2,239,144
(5) Benefit payments	(\$680,847)
(6) Contribution refunds	\$0
(7) Administrative expenses	(\$64,657)
(8) Other	\$0
(9) Net change in plan fiduciary net position	\$3,942,414
(10) Plan fiduciary net position - beginning of year	\$26,196,833
(11) Plan fiduciary net position - ending of year	\$30,139,247
(l) Net pension liability/(asset) [(j)(10) minus (k)(11)]	\$20,613,926

Section 112.664(1)(c), F.S. (on last valuation basis)

(m) Number of Years, and fractional parts of Years, for which the Market Value of Assets are adequate to sustain expected retirement benefits	20.15
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Section 112.664(1)(c), F.S. (on Section 112.664(1)(a), F.S. basis)

(n) Number of Years, and fractional parts of Years, for which the Market Value of Assets are adequate to sustain expected retirement benefits	20.13
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Section 112.664(1)(c), F.S. (on Section 112.664(1)(b), F.S. basis)

(o) Number of Years, and fractional parts of Years, for which the Market Value of Assets are adequate to sustain expected retirement benefits	16.96
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Section 112.664(1)(d), F.S. (on last valuation basis)

(p) Recommended Plan contributions in Annual Dollar Value	\$2,607,481
(q) Recommended Plan contributions as a Percentage of Valuation Payroll	58.33%

Section 112.664(1)(d), F.S. (on Section 112.664(1)(a), F.S. basis)

(r) Recommended Plan contributions in Annual Dollar Value	\$2,468,400
(s) Recommended Plan contributions as a Percentage of Valuation Payroll	55.22%

Section 112.664(1)(d), F.S. (on Section 112.664(1)(b), F.S. basis)

(t) Recommended Plan contributions in Annual Dollar Value	\$4,817,622
(u) Recommended Plan contributions as a Percentage of Valuation Payroll	107.76%