RETIREMENT PLAN FOR THE POLICE OFFICERS OF THE CITY OF LAKE HELEN

ACTUARIAL VALUATION AS OF OCTOBER 1, 2017

DETERMINES THE CONTRIBUTION FOR THE 2017/18 FISCAL YEAR



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April 21, 2018

Introduction

This report presents the results of the October 1, 2017 actuarial valuation for the Retirement Plan for the Police Officers of the City of Lake Helen. 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, 2017 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2017/18 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 2017/18 plan year. The minimum required contribution rate is 18.30% of covered payroll, which represents a decrease of 5.09% of payroll from the prior valuation.

The normal cost rate is also 18.30%, which is 5.09% lower than the normal cost rate that was developed in the prior valuation. Table I-C provides a breakdown of the sources of change in the normal cost rate. Significantly, the rate decreased by 5.04% of payroll due to investment gains and decreased by another 0.05% of payroll due to demographic experience. The market value of assets earned 13.31% during the 2016/17 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 2017/18 minimum required contribution will be equal to 18.30% multiplied by the total pensionable earnings for the 2017/18 fiscal year for the active employees who are covered by the plan and reduced by the portion of the Chapter 175/185 contribution that is allowed to be recognized during the 2017/18 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 \$1,474,634. As illustrated in Table I-A, current assets are sufficient to cover \$1,150,782 of this amount, the employer's 2017/18 expected contribution will cover \$28,411 of this amount, and future employee contributions are expected to cover \$16,776 of this amount, leaving \$278,665 to be covered by future employer funding beyond the 2017/18 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Advance Employer Contribution

The City has made contributions to the plan in excess of the minimum amount that was required to be contributed pursuant to Chapter 112. In this report, the excess contributions are referred to as an "advance employer contribution." As of October 1, 2017, the advance employer contribution is \$153,887, which reflects the advance employer contribution of \$164,011 as of October 1, 2016 less \$10,124 to cover the shortfall between the actual employer contribution and the minimum required contribution for the 2016/17 plan year as shown in Table II-F.

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 of assets. 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, 2017, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Chapter 112, Florida Statutes. There is no



benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material change in plan costs or required contribution rates have been taken into account in the valuation.

For the firm,

Chal J. Cm

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

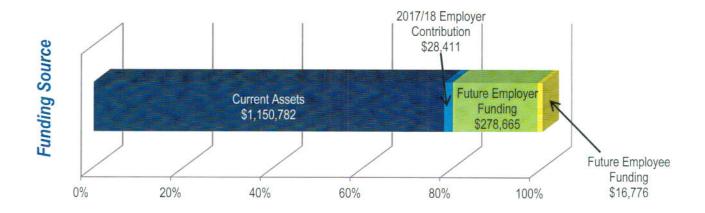
Enrolled Actuary No. 17-04927

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 2017/18 Plan Year

18.30%

Present Value of Future Benefits Present Value of Future Administrative Expenses Actuarial Value of Assets Present Value of Future Employee Contributions Present Value of Future Normal Costs	\$1,407,765 \$66,869 (\$1,150,782) (\$16,776) \$307,076
Present Value of Future Payroll _ Normal Cost Rate Expected Payroll _	÷ \$1,677,673 = 18.3037% x \$155,218
Normal Cost Adjustment to Reflect Monthly Employer Contributions Preliminary Employer Contribution for the 2017/18 Plan Year	\$28,411 \$0 \$28,411
Expected Payroll for the 2017/18 Plan Year	÷ \$155,218

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

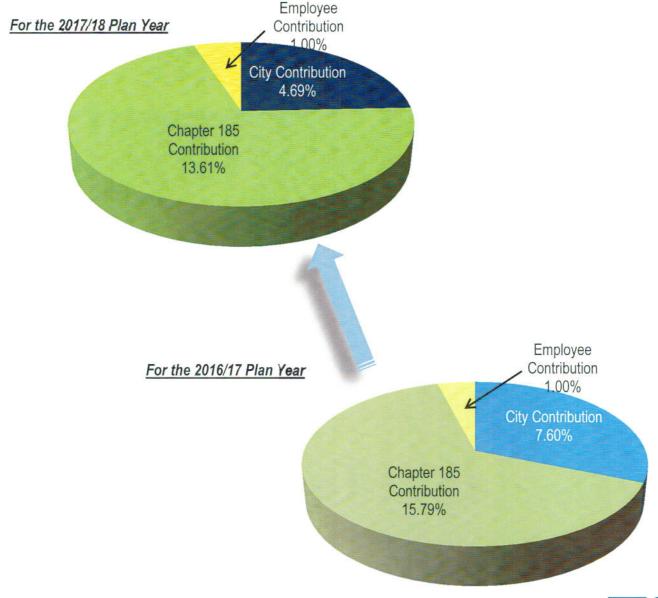
Minimum Required Contribution Rate



Minimum Required Contribution

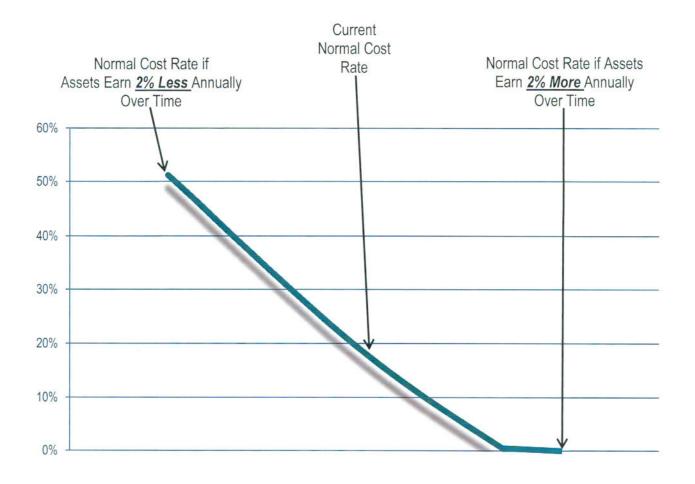
Table I-A (continued)

The minimum required contribution rate of 18.30% includes both the City contribution and the allowable Chapter 185 contribution. In addition, employees are required to contribute 1.00% of pensionable earnings. The actual City contribution rate is expected to be approximately 4.69% based on the allowable Chapter 185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2017/18 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	23.39%
Increase (decrease) due to investment gains and losses Increase (decrease) due to demographic experience	-5.04% -0.05%
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	18.30%



Funding Results

Present Value of Future Benefits

Table I-D

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants Retirement benefits Termination benefits Disability benefits Death benefits Refund of employee contributions Sub-total	\$861,558	\$861,558	\$861,558
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$861,558	\$861,558	\$861,558
Deferred Vested Participants Retirement benefits Termination benefits Disability benefits Death benefits Refund of employee contributions Sub-total	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$ 0
Due a Refund of Contributions	\$149	\$149	\$149
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants Service retirements Disability retirements Beneficiaries receiving DROP participants Sub-total	\$320,033	\$320,033	\$320,033
	\$0	\$0	\$0
	\$226,025	\$226,025	\$226,025
	\$0	\$0	\$0
	\$546,058	\$546,058	\$546,058
Grand Total	<u>\$1,407,765</u>	\$1,407,765	<u>\$1,407,765</u>
Present Value of Future Payroll Present Value of Future Employee Contribs. Present Value of Future Employer Contribs.	\$1,677,673	\$1,677,673	\$1,677,673
	\$16,776	\$16,776	\$16,776
	\$307,076	\$307,076	\$307,076



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	\$287,340	\$287,340	\$287,340
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$287,340	\$287,340	\$287,340
Deferred Vested Participants			
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
Due a Refund of Contributions	\$149	\$149	\$149
Deferred Beneficiaries	\$0	\$0	\$0
Retired Participants			
Service retirements	\$320,033	\$320,033	\$320,033
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$226,025	\$226,025	\$226,025
DROP participants	\$0	\$0	\$0
Sub-total	\$546,058	\$546,058	\$546,058
Grand Total	<u>\$833,547</u>	<u>\$833,547</u>	<u>\$833,547</u>
Funded Percentage	156.52%	156.52%	156.52%

(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.)



Funding Results

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 Termination benefits	\$278,285	\$278,285	\$278,285
	\$0	\$0	\$0
Disability benefits Death benefits	\$0	\$0	\$0
	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$278,285	\$278,285	\$278,285
Deferred Vested Participants	20		20
Retirement benefits Termination benefits	\$0	\$0	\$0
	\$0	\$0	\$0
Disability benefits Death benefits Refund of employee contributions	\$0	\$0	\$0
	\$0	\$0	\$0
	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Due a Refund of Contributions	\$149	\$149	\$149
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants Service retirements Disability retirements	\$320,033	\$320,033	\$320,033
	\$0	\$0	\$0
Beneficiaries receiving DROP participants	\$226,025	\$226,025	\$226,025
	\$0	\$0	\$0
Sub-total Grand Total	\$546,058	\$546,058	\$546,058
	\$824,492	\$824,492	\$824,492
Grand rotal	VOLT, TOL	WOZ-1, 43Z	WUZ-7,75Z



Funding Results

Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$455,879	\$455,879	\$455,879
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$455,879	\$455,879	\$455,879
Deferred Vested Participants			
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
Duo a Potund of Contributions	\$149	\$149	\$149
Due a Refund of Contributions	\$149	\$149	\$149
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$320,033	\$320,033	\$320,033
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$226,025	\$226,025	\$226,025
DROP participants	\$0	\$0	\$0
Sub-total	\$546,058	\$546,058	\$546,058
Grand Total	<u>\$1,002,086</u>	\$1,002,086	\$1,002,086



Actuarial Value of Assets

Table II-A

Market Value of Assets as of October	1, 2017	\$1,304,669
--------------------------------------	---------	-------------

Minus advance employer contributions	(\$153,887)
Minus excess Chapter 175/185 contributions	\$0

Actuarial Value of Assets as of October 1, 2017	\$1,150,782
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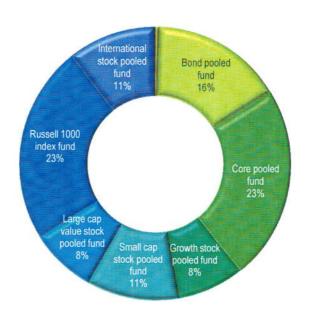


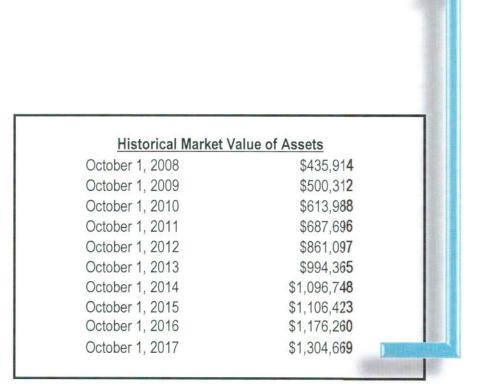
Market Value of Assets

Table II-B

As of October 1, 2017

Market Value of Assets	\$1,304,669
Cash	\$5,218
Bond pooled fund	\$204,816
Core pooled fund	\$301,353
Growth stock pooled fund	\$104,365
Small cap stock pooled fund	\$143,502
Large cap value stock pooled fund	\$103,060
Russell 1000 index fund	\$303,963
International stock pooled fund	\$138,283
Employee contribution receivable	\$109







Investment Return Table II-C



	Market	Actuarial	
Plan	Value	Value	Assumed
Year	Return	Return	Return
2007/08	8 -12.93%	-15.61%	7.50%
2008/0	9 3.93%	4.84%	7.50%
2009/1	9.10%	11.01%	7.50%
2010/1	1 0.69%	2.14%	7.50%
2011/1:	2 16.70%	19.41%	7.50%
2012/13	3 11.93%	14.49%	7.50%
2013/14	4 8.52%	10.10%	7.50%
2014/1	5 -0.03%	-0.04%	7.00%
2015/1	8.14%	9.61%	7.00%
2016/1	7 13.31%	15.42%	7.00%
10yr. A	vg. 5.61%	6.68%	7.35%



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2016	\$1,176,260	\$1,012,249
Increases Due To:		
Employer Contributions Chapter 175/185 Contributions Employee Contributions Service Purchase Contributions Total Contributions	\$0 \$21,127 \$1,338 \$0 \$22,465	\$0 \$21,127 \$1,338 \$0 \$22,465
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income	\$0 \$0 \$154,813 \$154,813	\$154,813
Other Income Total Income	\$0 	\$177,278
Decreases Due To:	\$177,270	\$177,270
Monthly Benefit Payments Refund of Employee Contributions	(\$42,112) \$0	(\$42,112) \$0
Total Benefit Payments	(\$42,112)	(\$42,112)
Investment Expenses Administrative Expenses	\$0 (\$6,757)	(\$6,757)
Advance Employer Contribution Excess Chapter 175/185 Contribution		\$10,124 \$0
Total Expenses	(\$48,869)	(\$38,745)
As of October 1, 2017	\$1,304,669	\$1,150,782



Historical Trust Fund Detail

Table II-E

<u>Income</u>								
				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains /	Gains I	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	Dividends	Losses	Losses	Income
2007/08	\$66,477	\$15,638	\$1,836	\$0	\$0	\$0	-\$58,632	\$0
2008/09	\$48,359	\$0	\$1,841	\$0	\$0	\$0	\$18,057	\$0
2009/10	\$47,864	\$17,798	\$1,824	\$0	\$0	\$0	\$48,484	\$0
2010/11	\$38,944	\$32,972	\$1,483	\$0	\$0	\$0	\$4,500	\$0
2011/12	\$38,941	\$16,094	\$1,524	\$0	\$0	\$0	\$119,345	\$0
2012/13	\$15,483	\$16,792	\$1,487	\$0	\$0	\$0	\$104,412	\$0
2013/14	\$0	\$18,960	\$1,573	\$0	\$0	\$0	\$85,465	\$0
2014/15	\$7,872	\$17,928	\$1,562	\$0	\$0	\$0	-\$350	\$0
2015/16	\$0	\$19,581	\$1,194	\$0	\$0	\$0	\$89,247	\$0
2016/17	\$0	\$21,127	\$1,338	\$0	\$0	\$0	\$154,813	\$0

Expenses					Other Actuarial Adj	ustments
	Monthly				Advance	Excess
Plan	Benefit	Contrib.	Admin.	Invest.	Employer	Chapter
Year	Payments	Refunds	Expenses	Expenses	Contribs.	Contribs.
2007/08	\$0	\$0	\$2,053	\$0	\$7,436	\$8,765
2008/09	\$0	\$0	\$3,859	\$0	\$62	\$0
2009/10	\$0	\$0	\$2,294	\$0	\$1,792	\$10,925
2010/11	\$0	\$0	\$4,191	\$0	\$15,573	\$19,226
2011/12	\$0	\$0	\$2,503	\$0	\$7,699	\$9,221
2012/13	\$0	\$0	\$4,906	\$0	-\$1,186	\$9,919
2013/14	\$0	\$0	\$3,615	\$0	-\$18,027	\$12,087
2014/15	\$10,022	\$0	\$7,315	\$0	\$7,542	\$11,055
2015/16	\$31,754	\$0	\$8,431	\$0	\$152,410	-\$160,298
2016/17	\$42,112	\$0	\$6,757	\$0	-\$10,124	\$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, 2016	\$164,011
Additional Employer Contribution Minimum Required Contribution Net Increase in Advance Employer Contribution	\$21,127 (\$31,251) (\$10,124)
Advance Employer Contribution as of October 1, 2017	\$153,887
Excess Chapter 175/185 Contribution	
Excess Chapter 175/185 Contribution as of October 1, 2016	\$0
Additional Chapter 175/185 Contribution Allowable Chapter 175/185 Contribution Net Increase in Excess Chapter 175/185 Contribution	\$21,127 (\$21,127) \$0
Excess Chapter 175/185 Contribution as of October 1, 2017	\$0



Historical Chapter 175/185 Contributions

Table II-G

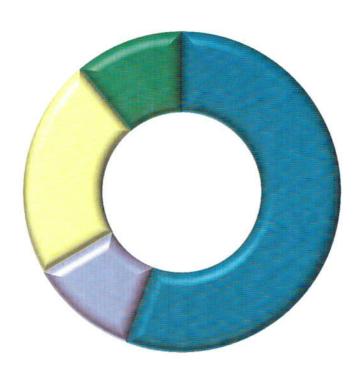
	Total Accumulate	185 Contribution	\$0	
	Chapter 175 Regular Distribution	Chapter 175 Supplemental <u>Distribution</u>	Chapter 185 <u>Distribution</u>	Allowable <u>Amount</u>
1998 Distribution 1999 Distribution 2000 Distribution 2001 Distribution 2002 Distribution 2003 Distribution 2004 Distribution 2005 Distribution	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$5,966 \$15,755 \$9,538 \$11,845 \$12,646 \$16,499 \$15,406 \$15,406	(\$4,284) (\$4,284) (\$4,284) (\$4,284) (\$4,284) (\$6,873) (\$6,873)
2006 Distribution 2007 Distribution 2008 Distribution 2009 Distribution 2010 Distribution 2011 Distribution 2012 Distribution 2013 Distribution 2014 Distribution 2015 Distribution	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16,100 \$15,638 \$17,798 \$17,333 \$15,639 \$16,094 \$16,792 \$18,960 \$17,928 \$19,581	(\$6,873) (\$6,873) (\$6,873) (\$6,873) (\$6,873) (\$6,873) (\$6,873) (\$6,873) (\$6,873) (\$6,873)
2016 Distribution Interest Adjustment	\$0	\$0	\$21,127	(\$21,127) \$6,262



Summary of Participant Data

Table III-A

As of October 1, 2017



Participant Distribution by Status

Actively Employed Participants Active Participants 5 **DROP** Participants 0 Inactive Participants Deferred Vested Participants 0 Due a Refund of Contributions 1 Deferred Beneficiaries 0 Participants Receiving a Benefit Service Retirements 2 0 **Disability Retirements** Beneficiaries Receiving 1 **Total Participants** 9

	Active	DROP	Inactive	Retired	Total
October 1, 2008	5	0	1	0	6
October 1, 2009	N/A	N/A	N/A	N/A	N/A
October 1, 2010	4	0	2	0	6
October 1, 2011	N/A	N/A	N/A	N/A	N/A
October 1, 2012	4	0	2	0	6
October 1, 2013	N/A	N/A	N/A	N/A	N/A
October 1, 2014	4	0	2	0	6
October 1, 2015	3	0	2	2	7
October 1, 2016	3	0	1	3	7
October 1, 2017	5	0	1	3	



Data Reconciliation Table III-B

	Active	DROP	Deferred Vested	Due a Refund	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	Total
October 1, 2016	3	0	0	1	0	2	0	1	7
Change in Status Re-employed Terminated Retired									
Participation Ended Transferred Out Cashed Out Died									
Participation Began Newly Hired Transferred In New Beneficiary	2								2
Other Adjustment									
October 1, 2017	5	0	0	1	0	2	0	1	9



Active Participant Data

Table III-C

As of October 1, 2017



Average Age	37.6 years
Average Service	6.0 years
Total Annualized Compensation for the Prior Year	\$149,248
Total Expected Compensation for the Current Year	\$155,218
Average Increase in Compensation for the Prior Year	-2.77%
Expected Increase in Compensation for the Current Year	4.00%
Accumulated Contributions for Active Employees	\$12,187

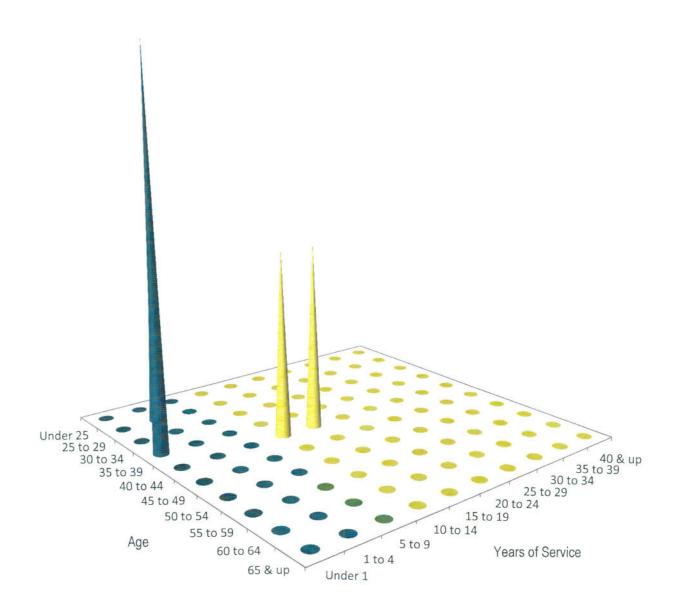


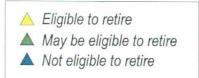
				Average	Average
				Expected	Actual
	Average	Average	Average	Salary	Salary
	Age	Service	Salary	Increase	Increase
October 1, 2008	41.1	6.8	\$36,723	5.00%	-4.90%
October 1, 2009	N/A	N/A	N/A	N/A	N/A
October 1, 2010	41.5	7.5	\$35,745	5.25%	-3.23%
October 1, 2011	N/A	N/A	N/A	N/A	N/A
October 1, 2012	43.5	9.5	\$38,100	5.12%	2.73%
October 1, 2013	N/A	N/A	N/A	N/A	N/A
October 1, 2014	45.5	11.5	\$39,326	5.00%	5.96%
October 1, 2015	36.3	8.0	\$38,423	4.00%	9.89%
October 1, 2016	37.3	9.0	\$39,793	4.00%	1.40%
October 1, 2017	37.6	6.0	\$29,850	4.00%	-2.77%



Active Age-Service Distribution

Table III-D







Active Age-Service-Salary Table

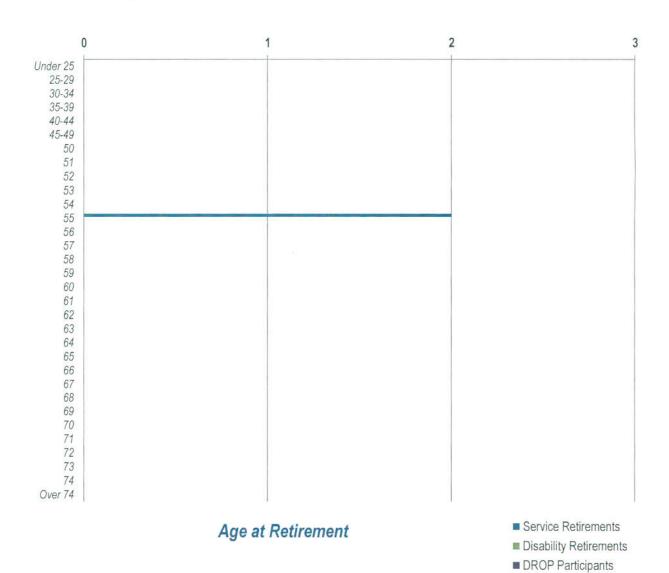
Table III-E

Attained					Complet	ed Years o	f Service				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	30,683	0	0	0	0	0	0	0	0	30,683
						***	*C5				
30 to 34	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
35 to 39	2	0	0	0	0	0	0	0	0	0	2
Avg.Pay	16,378	0	0	0	0	0	0	0	0	0	2 16,378
7 (vg.i uy	10,010		Ü	Ü	J	9			0	J	10,010
40 to 44	0	0	0	1	1	0	0	0	0	0	2
Avg.Pay	0	0	0	37,953	47,857	0	0	0	0	0	42,905
45 to 49	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
50 to 54	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
55 to 59	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	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
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	4	0	4	4	0	0	0	0		_
Total Avg.Pay	2 16,378	30,683	0	1 37,953	1 47,857	0 0	0 0	0	0 0	0 0	5 29,850
Avg.r ay	10,010	00,000	0	07,300	47,007	U	U	U	U	U	20,000



Inactive Participant Data

Table III-F



Average Monthly Benefit

Service Retirements	\$1,067.25
Disability Retirements	Not applicable
Beneficiaries Receiving	\$1,374.87
DROP Participants	Not applicable
eferred Vested Participants	Not applicable

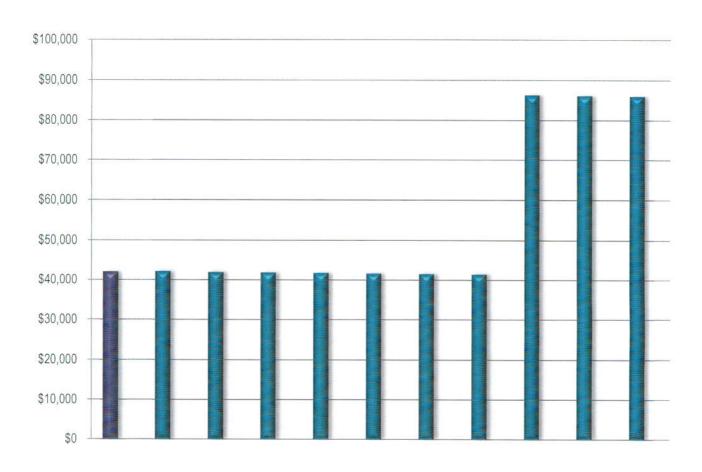
Deferred Vested Participants Not applicable

Deferred Beneficiaries Not applicable



Projected Benefit Payments

Table III-G



<u>Actual</u>	
For the period October 1, 2016 through September 30, 2017	\$42,112
	Wind Williams
Projected	
For the period October 1, 2017 through September 30, 2018	\$42,195
For the period October 1, 2018 through September 30, 2019	\$41,974
For the period October 1, 2019 through September 30, 2020	\$41,889
For the period October 1, 2020 through September 30, 2021	\$41,798
For the period October 1, 2021 through September 30, 2022	\$41,696
For the period October 1, 2022 through September 30, 2023	\$41,582
For the period October 1, 2023 through September 30, 2024	\$41,457
For the period October 1, 2024 through September 30, 2025	\$86,335
For the period October 1, 2025 through September 30, 2026	\$86,185
For the period October 1, 2026 through September 30, 2027	\$86,021



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

Salary Increases

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

5. Decrements

Pre-retirement mortality: None assumed

• Post-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined 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 4.75% 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 Combined Mortality Table as required by State law.
- (2) Effective October 1, 2014, the assumed interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.
- (3) Effective October 1, 2014, the assumed increase in future compensation was changed from rates that ranged from 8.00% (for less than one year of service) to 5.00% (for at least four years of service) to a flat 4.00% per year.
- (4) Effective October 1, 2014, the 4.00% increase in average earnings to account for lump sum payments upon termination of employment was eliminated.
- (5) Effective October 1, 2014, the mortality basis was changed from the 1994 Group Annuity Reserving Table, projected to 2002 by Scale AA, to the RP-2000 Mortality Table, projected to 2015 by Scale AA.
- (6) Effective October 1, 2010, the administrative expense assumption was changed from a flat \$3,000 per year to a 4.75% loading of the total projected benefit liability.



Table V-A

1. Monthly Accrued Benefit

3% of Average Final Compensation multiplied by Credited Service

2. Normal Retirement Age and Benefit

Age

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

Amount

Monthly Accrued Benefit

Form of Payment

Actuarially increased single life annuity (optional);

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

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

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

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

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

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

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

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

Early Retirement Age and 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



Table V-A

(continued)

4. Service Incurred Disability Eligibility and Benefit

Eligibility

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

Condition

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

Amount Payable

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

- (a) Monthly Accrued Benefit; or
- (b) 42% of Average Final Compensation

5. Non-Service Incurred Disability Eligibility and Benefit

Eligibility

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

Condition

Same as for a Service Incurred Disability Benefit

Amount Payable

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

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

6. Delayed Retirement Age and Benefit

Age

After Normal Retirement Age

Amount

Monthly Accrued Benefit

Form of Payment

Same as for Normal Retirement



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. Regardless of vested status, the beneficiary of a participant who dies in the line of duty receives a minimum lifetime benefit equal to 50% of the participant's salary at the time of his death.

9. Average Final Compensation

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

10. Compensation

Total cash remuneration for services rendered, excluding payments for extra duty or special detail work performed on behalf of a second party employer; annual compensation in excess of \$200,000 (as indexed) is excluded in accordance with Internal Revenue Code (IRC) §401(a)(17).

11. Credited Service

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



Table V-A

(continued)

12. Participation Requirement

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

13. Accumulated Contributions

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

12. Participant Contribution

1.00% of earnings

13. 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 Internal Revenue Code (IRC) section 417(e)(3)

14. Plan Effective Date

January 1, 1996



Summary of Plan Amendments

Table V-B

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

