Town of Howey-in-the-Hills Municipal Police Officers' Retirement Trust Fund

ACTUARIAL VALUATION AS OF OCTOBER 1, 2018

DETERMINES THE CONTRIBUTION FOR THE 2018/19 FISCAL YEAR



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January 26, 2019

Introduction

This report presents the results of the October 1, 2018 actuarial valuation for the Town of Howey-in-the-Hills Municipal Police Officers' Retirement Trust Fund. The report is based on the participant data and asset information provided by the pension plan administrator and, except for a cursory review for reasonableness including a comparison to the data provided for the previous valuation, we have not attempted to verify the accuracy of this information.

The primary purpose of this report is to provide a summary of the funded status of the plan as of October 1, 2018 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2018/19 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 2018/19 plan year. The minimum required contribution rate is 17.60% of covered payroll, which represents a decrease of 16.97% of payroll from the prior valuation.

The normal cost rate is 17.00%, which is 16.38% 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 3.50% of payroll due to investment gains and decreased by another 12.88% of payroll due to demographic experience. The market value of assets earned 13.36% during the 2016/17 plan year and 7.40% during the 2017/18 plan year, whereas a 7.00% annual investment return was required to maintain a stable contribution rate.

Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the Town 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 Town's 2018/19 minimum required contribution will be equal to 17.60% multiplied by the total pensionable earnings for the 2018/19 fiscal year for the active employees who are covered by the plan and reduced by the allowable Chapter 175/185 contribution. If an actuarial valuation is not prepared as of October 1, 2019, then the 17.60% contribution rate will apply to the 2019/20 plan year as well.

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 \$2,236,853. As illustrated in Table I-A, current assets are sufficient to cover \$1,630,604 of this amount, the employer's 2018/19 expected contribution will cover \$58,177 of this amount, and future employee contributions are expected to cover \$137,787 of this amount, leaving \$410,285 to be covered by future employer funding beyond the 2018/19 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

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, 2018, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material change in plan costs or required contribution rates have been taken into account in the valuation.

For the firm,

Charles T. Carr

Consulting Actuary

Southern Actuarial Services Company, Inc.

Enrolled Actuary No. 17-04927

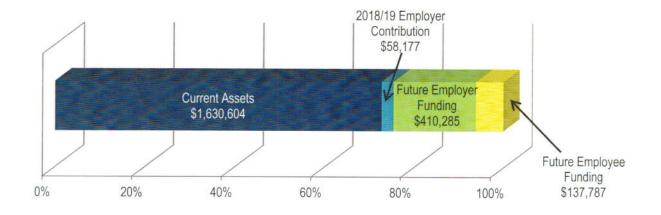
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The individual above is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Minimum Required Contribution

Table I-A



For the 2018/19 Plan Year

Present Value of Future Benefits Present Value of Future Administrative Expenses Actuarial Value of Assets Present Value of Future Employee Contributions	\$2,110,239 \$126,614 (\$1,630,604) (\$137,787)
Present Value of Future Normal Costs	\$468,462
Present Value of Future Payroll	÷ \$2,755,751
Normal Cost Rate	= 16.9994%
Expected Payroll	x \$330,473
Normal Cost	\$56,179
Adjustment to Reflect Bi-Weekly Employer Contributions	\$1,998
Preliminary Employer Contribution for the Plan Year	\$58,177
Expected Payroll for the 2018/19 Plan Year	÷ \$330,473
Minimum Required Contribution Rate	17.60%

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

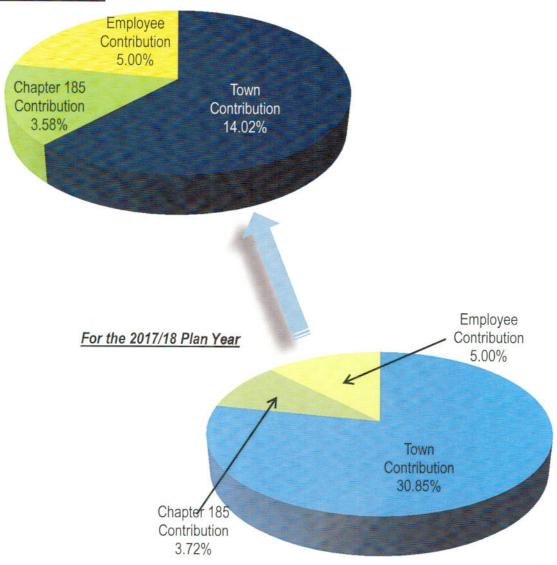


Minimum Required Contribution

Table I-A (continued)

The minimum required contribution rate of 17.60% includes both the Town contribution and the allowable Chapter 185 contribution. In addition, employees are required to contribute 5.00% of pensionable earnings. The actual Town contribution rate is expected to be approximately 14.02% based on the allowable Chapter 185 contribution for the previous year. The chart below shows the expected contribution rate by source for the 2018/19 plan year based on the expected payroll. A comparative chart shows the contribution rate by source for the previous plan year.

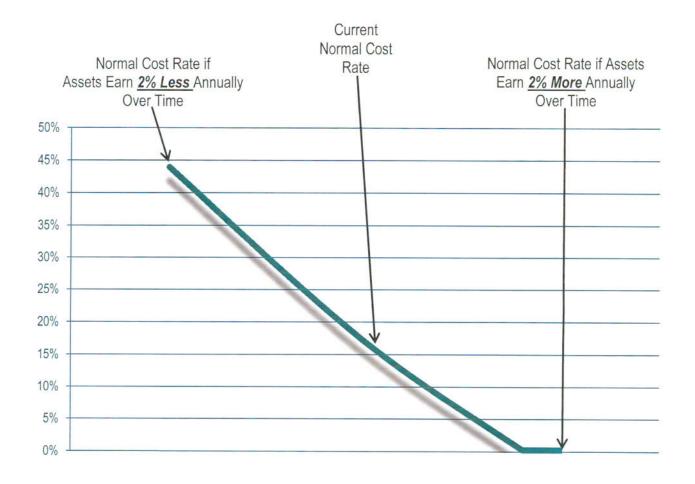
For the 2018/19 Plan Year





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	33.38%
Increase (decrease) due to investment gains and losses	-3.50%
Increase (decrease) due to demographic experience	-12.88%
Increase (decrease) due to plan amendments	0.00%
Increase (decrease) due to actuarial assumption changes	0.00%
Increase (decrease) due to actuarial method changes	0.00%
Current normal cost rate	17.00%



Present Value of Future Benefits

Table I-D

	New Assumptions	New Assumptions	New Assumptions
	10/1/2013	w/o Amendment	w/ Amendment
Actively Employed Participants			
Retirement benefits	\$1,572,992	\$1,572,992	\$1,572,992
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$1,572,992	\$1,572,992	\$1,572,992
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	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$330,420	\$330,420	\$330,420
Disability retirements	\$206,827	\$206,827	\$206,827
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$537,247	\$537,247	\$537,247
Grand Total	\$2,110,239	\$2,110,239	\$2,110,239
Drogont Value of Future Devel	60 755 754	#0.755.75	00 755 754
Present Value of Future Payroll	\$2,755,751	\$2,755,751	\$2,755,751
Present Value of Future Employee Contribs. Present Value of Future Employer Contribs.	\$137,787 \$2,567,528	\$137,787 \$2,567,528	\$137,787
1 1036111 Value of 1 uture Employer Continus.	φ2,007,020	φ2,507,526	\$2,567,528



Present Value of Accrued Benefits

Table I-E

	New Assumptions 10/1/2013	New Assumptions w/o Amendment	New Assumptions w/ Amendment
		-	
Actively Employed Participants			
Retirement benefits	\$677,509	\$677,509	\$677,509
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$677,509	\$677,509	\$677,509
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	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$330,420	\$330,420	\$330,420
Disability retirements	\$206,827	\$206,827	\$206,827
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$537,247	\$537,247	\$537,247
Grand Total	<u>\$1,214,756</u>	\$1,214,756	\$1,214,756
Funded Percentage	134.23%	134.23%	134.23%



Present Value of Vested Benefits

Table I-F

	New Assumptions 10/1/2013	New Assumptions w/o Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$620,923	\$620,923	\$620,923
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$620,923	\$620,923	\$620,923
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	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$330,420	\$330,420	\$330,420
Disability retirements	\$206,827	\$206,827	\$206,827
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$537,247	\$537,247	\$537,247
Grand Total	<u>\$1,158,170</u>	\$1,158,170	<u>\$1,158,170</u>



Entry Age Normal Accrued Liability

Table I-G

	New Assumptions 10/1/2013	New Assumptions w/o Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$911,618	\$911,618	\$911,618
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$911,618	\$911,618	\$911,618
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	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$330,420	\$330,420	\$330,420
Disability retirements	\$206,827	\$206,827	\$206,827
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$537,247	\$537,247	\$537,247
Grand Total	<u>\$1,448,865</u>	\$1,448,865	<u>\$1,448,865</u>



Actuarial Value of Assets

Table II-A

Minus advance employer contributions \$	Minus excess Chapter 175/185 contributions \$0	\$0	mployer contributions \$0	Minus advance employer contributions



October 1, 2009	N/A
October 1, 2010	N/A
October 1, 2010	
	N/A
October 1, 2012	\$1,013,795
October 1, 2013	\$1,167,034
October 1, 2014	\$1,259,231
October 1, 2015	\$1,181,785
October 1, 2016	\$1,284,136
October 1, 2017	\$1,466,593
October 1, 2018	\$1,630,604

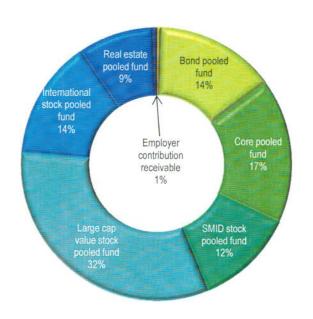


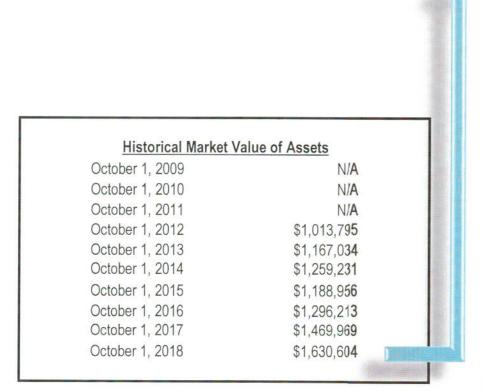
Market Value of Assets

Table II-B

As of October 1, 2018

Market Value of Assets	\$1,630,604
Cash	\$6,482
Bond pooled fund	\$234,975
Core pooled fund	\$278,729
SMID stock pooled fund	\$194,462
Large cap value stock pooled fund	\$529,909
International stock pooled fund	\$230,113
Real estate pooled fund	\$145,846
Employer contribution receivable	\$9,504
Employee contribution receivable	\$584







Investment Return

Table II-C



Plan	Value	Value	Assumed
Year	Return	Return	Return
2008/09	N/A	N/A	N/A
2009/10	N/A	N/A	N/A
2010/11	N/A	N/A	N/A
2011/12	N/A	N/A	N/A
2012/13	11.46%	11.46%	7.00%
2013/14	8.42%	8.42%	7.00%
2014/15	0.37%	0.37%	7.00%
2015/16	8.18%	8.25%	7.00%
2016/17	13.36%	13.44%	7.00%
2017/18	7.40%	7.41%	7.00%
6yr. Avg.	8.12%	8.15%	7.00%



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2016	\$1,296,213	\$1,284,136
Increases Due To:		
Employer Contributions Chapter 175/185 Contributions Employee Contributions Service Purchase Contributions Total Contributions	\$155,119 \$23,285 \$27,550 \$0 \$205,954	\$155,119 \$23,285 \$27,550 \$0 \$205,954
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income	\$0 \$0 \$283,887 \$283,887	\$283,887
Other Income	\$0	
Total Income	\$489,841	\$489,841
Decreases Due To:		
Monthly Benefit Payments Refund of Employee Contributions	(\$131,819) (\$2,651)	(\$131,819) (\$2,651)
Total Benefit Payments	(\$134,470)	(\$134,470)
Investment Expenses Administrative Expenses	\$0 (\$20,980)	(\$20,980)
Advance Employer Contribution Excess Chapter 175/185 Contribution		\$12,077 \$0
Total Expenses	(\$155,450)	(\$143,373)
As of October 1, 2018	\$1,630,604	\$1,630,604



Historical Trust Fund Detail

Table II-E

<u>Income</u>								
				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains I	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	<u>Dividends</u>	Losses	Losses	Income
2008/09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2009/10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2010/11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2011/12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2012/13	\$64,772	\$10,265	\$11,543	\$0	\$0	\$0	\$118,233	\$0
2013/14	\$61,535	\$10,022	\$11,104	\$0	\$0	\$0	\$98,020	\$0
2014/15	\$55,086	\$9,916	\$10,401	\$0	\$0	\$0	\$4,532	\$0
2015/16	\$71,139	\$10,983	\$12,605	\$0	\$0	\$0	\$97,676	\$0
2016/17	\$70,234	\$10,991	\$13,006	\$0	\$0	\$0	\$173,224	\$0
2017/18	\$84,885	\$12,294	\$14,544	\$0	\$0	\$0	\$110,663	\$0

Expenses					Other Actuarial Adjust	ments
	Monthly				Advance	Excess
Plan	Benefit	Contrib.	Admin.	Invest.	Employer	Chapter
Year	Payments	Refunds	Expenses	Expenses	Contribs. C	ontribs.
2008/09	N/A	N/A	N/A	N/A	N/A	N/A
2009/10	N/A	N/A	N/A	N/A	N/A	N/A
2010/11	N/A	N/A	N/A	N/A	N/A	N/A
2011/12	N/A	N/A	N/A	N/A	N/A	N/A
2012/13	\$38,380	\$0	\$13,194	\$0	\$0	\$0
2013/14	\$53,558	\$18,901	\$16,025	\$0	\$0	\$0
2014/15	\$65,440	\$72,694	\$12,076	\$0	\$7,171	\$0
2015/16	\$77,149	\$0	\$7,997	\$0	\$4,906	\$0
2016/17	\$77,149	\$2,651	\$13,899	\$0	-\$8,701	\$0
2017/18	\$54,670	\$0	\$7,081	\$0	-\$3,376	\$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	\$12,077
Additional Employer Contribution Minimum Required Contribution	\$81,225 (\$89,926)
Net Increase in Advance Employer Contribution	(\$8,701)
Advance Employer Contribution as of October 1, 2017	\$3,376
Additional Employer Contribution	\$97,179
Minimum Required Contribution	(\$100,555)
Net Increase in Advance Employer Contribution	(\$3,376)
Advance Employer Contribution as of October 1, 2018	\$0
Excess Chapter 175/185 Contribution	
Excess Chapter 175/185 Contribution as of October 1, 2016	\$0
Additional Chapter 175/185 Contribution	\$10,991
Allowable Chapter 175/185 Contribution	(\$10,991)
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2017	\$0
Additional Chapter 175/185 Contribution	\$12,294
Allowable Chapter 175/185 Contribution	(\$12,294)
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2018	\$0



Historical Chapter 175/185 Contributions

Table II-G

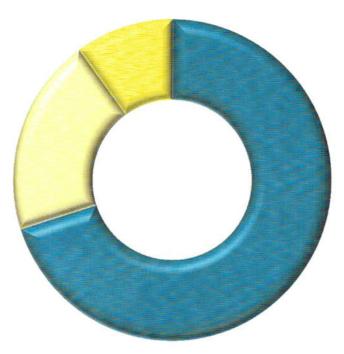
	Total Accumulate	185 Contribution	\$0	
	Chapter 175 Regular <u>Distribution</u>	Chapter 175 Supplemental Distribution	Chapter 185 <u>Distribution</u>	Allowable <u>Amount</u>
1998 Distribution	\$0	\$0	\$5,907	(\$5,907)
1999 Distribution	\$0	\$0	\$5,470	(\$5,470)
2000 Distribution	\$0	\$0	\$6,082	(\$6,082)
2001 Distribution	\$0	\$0	\$8,235	(\$8,235)
2002 Distribution	\$0	\$0	\$8,299	(\$8,299)
2003 Distribution	\$0	\$0	\$9,271	(\$9,271)
2004 Distribution	\$0	\$0	\$8,657	(\$8,657)
2005 Distribution	\$0	\$0	\$9,244	(\$9,244)
2006 Distribution	\$0	\$0	\$9,193	(\$9,193)
2007 Distribution	\$0	\$0	\$8,809	(\$8,809)
2008 Distribution	\$0	\$0	\$9,607	(\$9,607)
2009 Distribution	\$0	\$0	\$10,019	(\$10,019)
2010 Distribution	\$0	\$0	\$9,394	(\$9,394)
2011 Distribution	\$0	\$0	\$10,053	(\$10,053)
2012 Distribution	\$0	\$0	\$10,265	(\$10,265)
2013 Distribution	\$0	\$0	\$10,022	(\$10,022)
2014 Distribution	\$0	\$0	\$9,916	(\$9,916)
2015 Distribution	\$0	\$0	\$10,983	(\$10,983)
2016 Distribution	\$0	\$0	\$10,991	(\$10,991)
2017 Distribution	\$0	\$0	\$12,294	(\$12,294)



Summary of Participant Data

Table III-A

As of October 1, 2018



Participant Distribution by Status

Actively Employed Participants Active Participants 7 **DROP** Participants 0 Inactive Participants Deferred Vested Participants 0 Due a Refund of Contributions 0 Deferred Beneficiaries 0 Participants Receiving a Benefit Service Retirements 2 **Disability Retirements** 1 Beneficiaries Receiving 0 **Total Participants** 10

Number	of Participant	ts Included	in Prior Va	luations	
	Active	DROP	Inactive	Retired	Total
October 1, 2009	N/A	N/A	N/A	N/A	N/A
October 1, 2010	6	0	0	2	8
October 1, 2011	N/A	N/A	N/A	N/A	N/A
October 1, 2012	N/A	N/A	N/A	N/A	N/A
October 1, 2013	6	0	0	2	8
October 1, 2014	5	0	0	3	8
October 1, 2015	N/A	N/A	N/A	N/A	N/A
October 1, 2016	6	0	0	4	10
October 1, 2017	N/A	N/A	N/A	N/A	N/A
October 1, 2018	7	0	0	3	10



Data Reconciliation

Table III-B

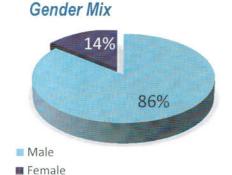
	Active	DROP	<u>Vested</u>	Due a Refund	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	Total
October 1, 2016	6	0	0	0	0	3	1	0	10
Change in Status Re-employed Terminated Retired	(1)			1					
Participation Ended Transferred Out Cashed Out Died				(1)		(1)			(1) (1)
Participation Began Newly Hired Transferred In New Beneficiary	2								2
Other Adjustment									
October 1, 2018	7	0	0	0	0	2	1	0	10



Active Participant Data

Table III-C

As of October 1, 2018



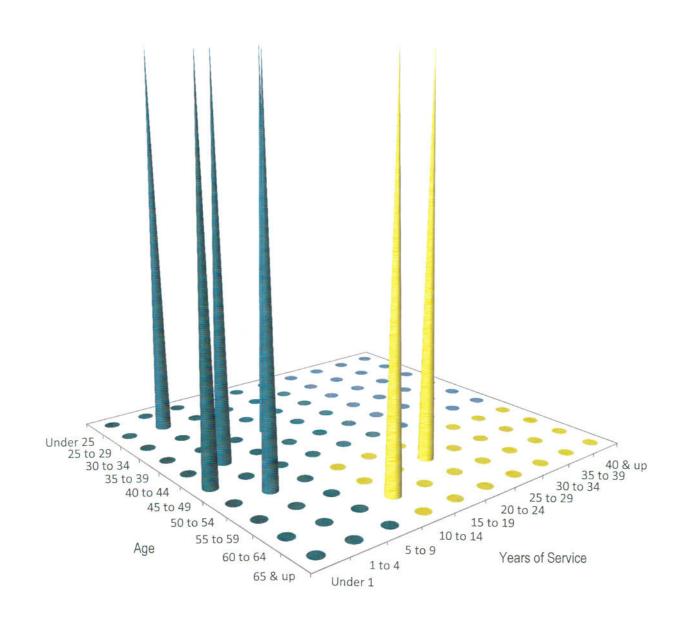
Average Age	45.7 years
Average Service	7.7 years
Total Annualized Compensation for the Prior Year	\$317,762
Total Expected Compensation for the Current Year	\$330,473
Average Increase in Compensation for the Prior Year	8.82%
Expected Increase in Compensation for the Current Year	4.00%

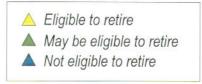


Actual vs. Expected Salary Increases

Active Participant Statistics From Prior Valuations Average Average Expected Actual Average Average Average Salary Salary Age Service Salary Increase Increase October 1, 2009 N/A N/A N/A 7.50% 2.80% October 1, 2010 46.8 8.9 \$44,023 7.50% -0.90% October 1, 2011 N/A N/A N/A 7.50% 0.40% October 1, 2012 N/A N/A N/A 7.50% -0.60% October 1, 2013 49.8 11.9 \$46,828 7.50% 0.80% October 1, 2014 50.6 9.8 \$42,450 5.50% 1.53% October 1, 2015 N/A N/A N/A 4.00% 4.81% October 1, 2016 45.0 7.2 \$42,527 4.00% 15.87% October 1, 2017 N/A N/A N/A 4.00% 2.65% October 1, 2018 45.7 7.7 \$45.395 4.00% 8.82%









Active Age-Service-Salary Table

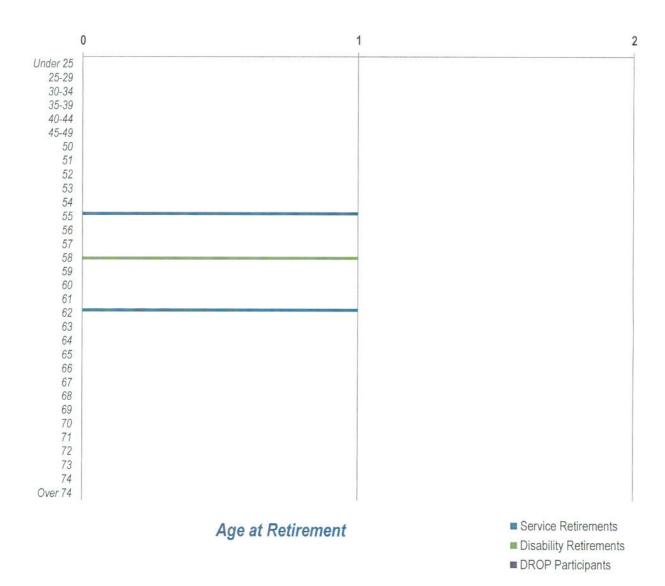
Table III-E

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	39,546	0	0	0	0	0	0	0	0	39,546
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
Avg. ay	V	Ü	Ü	· ·	·	0.	0	· ·	V	U	U
35 to 39	0	0	0	1	0	0	0	0	0	0	1
Avg.Pay	0	0	0	45,510	0	0	0	0	0	0	45,510
40 to 44	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	39,859	0	0	0	0	0	0	0	0	39,859
/ivg.i uj		00,000		· ·	· ·		· ·	0	0	U	55,055
45 to 49	1	0	0	0	0	0	0	0	0	0	1
Avg.Pay	31,761	0	0	0	0	0	0	0	0	0	31,761
50 to 54	0	1	0	0	0	0	0	0	0	0	,
Avg.Pay	0	44,654	0	0	0	0	0	0	0	0	44,654
Trigil dy	Ů	11,001	·						o l	U	11,001
55 to 59	0	0	0	0	0	1	0	0	0	0	1
Avg.Pay	0	0	0	0	0	62,497	0	0	0	0	62,497
60 to 64	0	0	0	1	0	0	0	0	0	0	4
Avg.Pay	0	0	0	53,935	0	0	0	0	0	0	53,935
, rigii aj	Ů		J	00,000				Ů		U	00,000
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	1	3	0	2	0	1	0	0	0	0	7
Avg.Pay	31,761	41,353	0	49,723	0	62,497	0	0	0	0	45,395
Heats 11545		187		100							



Inactive Participant Data

Table III-F



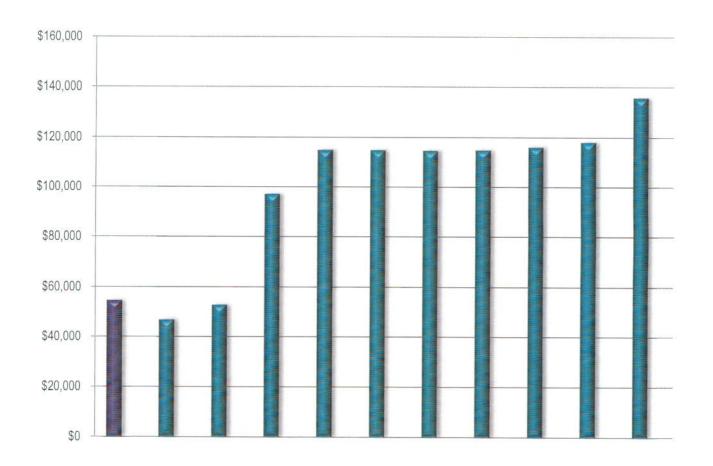
Average Monthly Benefit

Service Retirements	\$1,186.71
Disability Retirements	\$1,558.01
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Deferred Vested Participants	Not applicable
Deferred Beneficiaries	Not applicable



Projected Benefit Payments

Table III-G



Actual For the period October 1, 2017 through September 30, 2018	\$54,670
Projected	
For the period October 1, 2018 through September 30, 2019	\$47,086
For the period October 1, 2019 through September 30, 2020	\$52,990
For the period October 1, 2020 through September 30, 2021	\$97,240
For the period October 1, 2021 through September 30, 2022	\$115,074
For the period October 1, 2022 through September 30, 2023	\$114,935
For the period October 1, 2023 through September 30, 2024	\$114,778
For the period October 1, 2024 through September 30, 2025	\$114,986
For the period October 1, 2025 through September 30, 2026	\$116,238
For the period October 1, 2026 through September 30, 2027	\$118,207
For the period October 1, 2027 through September 30, 2028	\$135,856



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.

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 is assumed.

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

full generational improvements in mortality using Scale BB

Disability: None is assumed.

Termination: None is assumed.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

Retirement:

Retirement is assumed to occur at the rate of 5% at each of ages 50 through 54 if the participant is eligible for early retirement or at the rate of 10% at each age after age 54 if the participant is eligible for normal retirement; alternatively, 100% retirement is assumed at age 58 with at least 13 years of service or at age 55 with at least 28 years of service; no retirement decrement is assumed during the first year after the valuation date.

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 6.00% 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

No assumptions or methods were changed since the completion of the previous valuation.

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

- (1) Effective October 1, 2016, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Blue Collar Mortality Table as required by State law.
- (2) Effective October 1, 2014, the assumed increase in future salaries was changed from service-based rates ranging from 5.50% to 10.00% per year, plus a 5.00% load to account for non-regular compensation, to a flat 4.00% per year.
- (3) Effective October 1, 2014, the termination and disability decrements were eliminated.
- (4) Effective October 1, 2014, the mortality basis was changed from the unprojected RP-2000 Mortality Table to the RP-2000 Mortality Table projected to 2015 by Scale AA.
- (5) Effective October 1, 2014, the administrative expense assumption was changed from the actual average of administrative expenses for the past three years to 6.00% of the projected benefit liability.



Summary of Plan Provisions

Table V-A

1. Benefit Formula

3.00% of Average Monthly Earnings multiplied by Credited Service

2. Service Retirement

Normal retirement: Age 55 with at least 10 years of credited service; or

Age 52 with at least 25 years of credited service

Early retirement: Age 50 with at least 10 years of credited service

Note: The early retirement benefit is reduced by 3% for each year (prorated for portions of a year) by which the participant's early retirement date precedes his normal retirement date.

3. Disability Retirement

The disability benefit is a monthly 10-year certain and life annuity equal to the accrued normal retirement benefit, but no less than 42% of average monthly earnings in the case of a service-connected disability. A participant must have earned at least 10 years of Credited Service unless his disability is service-connected. The participant may convert his disability benefit into any of the optional forms of payment that are otherwise available under the plan.

Deferred Vested Retirement

A vested participant who terminates employment before becoming eligible for retirement receives a deferred vested retirement pension equal to the accrued monthly benefit payable at the participant's normal retirement age (unreduced) or early retirement age (reduced by 3% for each year or portions thereof by which the early retirement date precedes the normal retirement date).

A non-vested participant who terminates employment receives his accumulated contributions.

Vesting

An employee becomes 100% vested upon the attainment of 10 years of Credited Service



Summary of Plan Provisions

Table V-A

(continued)

6. Pre-Retirement Death Benefit

If a vested participant dies prior to retirement, the participant's beneficiary receives a 10-year certain annuity equal to the participant's accrued normal retirement benefit, reduced for early retirement if applicable, and payable at the participant's early or normal retirement date; alternatively, an actuarially equivalent 10-year certain annuity is payable immediately upon the death of the participant; if the beneficiary is not the participant's spouse, the early retirement reduction is replaced by an actuarial reduction if the participant was not eligible for early or normal retirement at the time of his death.

If a non-vested participant dies prior to retirement, the participant's beneficiary receives the participant's accumulated contributions.

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);

Actuarially equivalent social security level income annuity (optional);

Single lump sum payment equal to 10%, 15%, 20%, or 25% of the actuarially equivalent value of the normal form of payment plus a monthly annuity equal to the remaining value payable in any of the forms of annuity available under the plan *(optional)*;

Actuarially equivalent single lump sum distribution (optional at the discretion of the pension board and only available if the single sum value of the participant's benefit is less than or equal to \$1,000)

(Note: All forms of payment guarantee at least the return of the participant's accumulated contributions. Furthermore, a participant may change his joint annuitant up to two times after retirement subject to an actuarially equivalent adjustment.)



Summary of Plan Provisions

Table V-A

(continued)

8. Average Monthly Earnings

Average monthly earnings during the highest five years of compensation out of the 10 years immediately preceding the determination date. Earnings includes total W-2 compensation, but excludes overtime in excess of 300 hours per year after July 1, 2011 and payments for unused sick and annual leave that accrues after July 1, 2011. Earnings cannot exceed the maximum amount allowed under Internal Revenue Code (IRC) section 401(a)(17).

9. Credited Service

The elapsed time from the participant's date of hire until his date of termination, retirement, or death; subject to certain limitations, a participant may purchase additional service credit for previous employment with the Town, for previous employment as a police officer in another jurisdiction, or for military service.

10. Employee Contribution

Employees must contribute 5.00% of pensionable earnings. Employee contributions are accumulated without interest.

11. Town Contribution

The Town is required to make periodic contributions at least on a quarterly basis as determined under Chapter 112, Florida Statutes.

12. Participant Requirement

All full-time police officers of the Town of Howie-in-the-Hills automatically become participants in the plan on their date of hire.

13. Actuarial Equivalence

Based on 8.00% interest per annum and the RP-2000 Combined Healthy Mortality Table (Unisex)



Summary of Plan Amendments

Table V-B

Since the completion of the previous valuation, Ordinance 2018-011 was adopted. This ordinance made several modifications and clarifications to the plan in order to preserve compliance with the requirements of the Internal Revenue Code and added a share plan. The ordinance had no actuarial impact on the plan.

