City of Indian Harbour Beach Police Officers' Supplemental Pension Plan

ACTUARIAL VALUATION AS OF OCTOBER 1, 2018

DETERMINES THE CONTRIBUTION FOR THE 2018/19 FISCAL YEAR



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January 29, 2019

Introduction

This report presents the results of the October 1, 2018 actuarial valuation for the City of Indian Harbour Beach Police Officers' Supplemental Pension Plan. 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 3.83% of covered payroll, which represents an increase of 1.91% of payroll from the prior valuation.

The normal cost rate is 3.67%, which is 1.83% of payroll higher than the normal cost rate that was developed in the prior valuation. Table I-C provides a breakdown of the sources of change in the normal cost rate. Significantly, the rate decreased by 0.06% of payroll due to investment gains, decreased by another 0.17% of payroll due to demographic experience, increased by 1.08% of payroll due to the plan amendment that is described below, and increased by another 0.98% of payroll due to the assumption change that is described below. The market value of



assets earned 7.58% during the 2017/18 plan year, whereas a 7.00% annual investment return was required to maintain a stable contribution rate.

Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the City must contribute an amount equal to the annual normal cost of the plan plus an adjustment as necessary to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the City's 2018/19 minimum required contribution will be equal to 3.83% multiplied by the total pensionable earnings for the 2018/19 fiscal year for the active employees who are covered by the plan.

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 \$525,450. As illustrated in Table I-A, current assets are sufficient to cover \$197,427 of this amount and the employer's 2018/19 expected contribution will cover \$37,674 of this amount, leaving \$290,349 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.

Advance Employer Contribution

The City has made contributions to the plan in excess of the minimum amount that was required to be contributed pursuant to Chapter 112. In this report, the excess contributions are referred to as an "advance employer contribution." As of October 1, 2018, the advance employer contribution is \$75,376, which is equal to the advance employer contribution as of October 1, 2017 plus \$14,201 of actual employer contributions in excess of the minimum required contribution for the 2017/18 plan year as shown in Table II-F.

The City may apply all or any portion of the advance employer contribution towards the minimum required contribution for the 2018/19 plan year or for any later plan year. The minimum required contribution for that plan year will be reduced dollar-for-dollar by the amount of the advance employer contribution that is applied in this manner.

Alternatively, at any time, the City may apply all or any portion of the advance employer contribution as an <u>extra</u> contribution in excess of the minimum required contribution. In this case, the immediate application of the entire balance of the advance employer contribution as of October 1, 2018 would reduce the normal cost rate to 2.83% of payroll and would reduce the minimum required contribution for the 2018/19 plan year to 2.95% of payroll.

Contents of the Report

Tables I-D through I-G provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-F provide information concerning the assets of the trust fund. 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.

Plan Amendment

Since the previous valuation was prepared, the plan has been amended with respect to those individuals who retire after October 1, 2016 to increase the benefit formula from \$60.00 for each year of service to \$84.00 for each of the first 10 years of service plus \$120.00 for each year of service in excess of 10 years, to a maximum benefit of \$2,400.00 per year. In addition, the normal form of payment has been changed from a single life annuity to a 10-year certain and life annuity for those individuals who retire after September 30, 2009.

Assumption Change

An administrative expense assumption has been added equal to a 20% loading of the present value of future benefits.

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.

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Charle I

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

Enrolled Actuary No. 17-04927

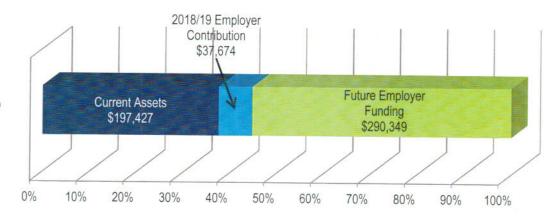
The individual above is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Minimum Required Contribution

Table I-A

Funding Source



For the 2018/19 Plan Year

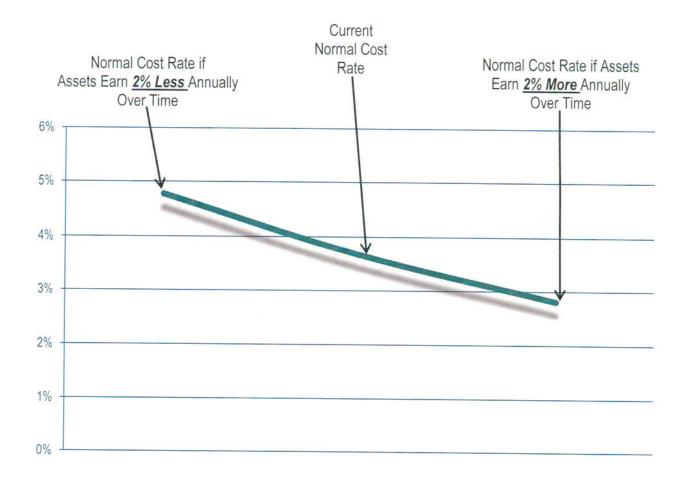
\$1,553 \$37,674 ÷ \$983,938
\$1,553
\$1,553
+,
\$36,121
x \$983,938
= 3.6711%
÷ \$8,935,398
\$328,023
(\$197,427)
\$87,575 (\$197,427)
\$437,875

(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the 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	1.84%
Increase (decrease) due to investment gains and losses Increase (decrease) due to demographic experience	-0.06% -0.17%
Increase (decrease) due to plan amendments Increase (decrease) due to actuarial assumption changes Increase (decrease) due to actuarial method changes	1.08% 0.98% 0.00%
Current normal cost rate	3.67%



Present Value of Future Benefits

Table I-D

	Old Assumptions	Old Assumptions	New Assumptions
	w/o Amendment	w/ Amendment	w/ Amendment
Asticals Francisco I Basicians			
Actively Employed Participants Retirement benefits	C140 140	0000 747	2000 7 17
Termination benefits	\$148,118	\$228,747	\$228,747
	\$0	\$0	\$0
Disability benefits Death benefits	\$0	\$0	\$0
	\$0	\$0	\$0
Refund of employee contributions	\$0 \$149.449	\$0	\$0
Sub-total	\$148,118	\$228,747	\$228,747
Deferred Vested Participants			
Retirement benefits	\$28,318	\$28,318	\$28,318
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$28,318	\$28,318	\$28,318
Due a Refund of Contributions	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$180,810	\$180,810	\$180,810
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$180,810	\$180,810	\$180,810
Grand Total	<u>\$357,246</u>	<u>\$437,875</u>	<u>\$437,875</u>
Present Value of Future Payroll	\$8,935,398	\$8,935,398	\$8,935,398
Present Value of Future Employee Contribs.	\$0	\$0	\$0
Present Value of Future Employer Contribs.	\$231,268	\$328,023	\$328,023



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	\$92,803	\$144,236	\$144,236
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$92,803	\$144,236	\$144,236
Deferred Vested Participants			
Retirement benefits	\$28,318	\$28,318	\$28,318
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$28,318	\$28,318	\$28,318
<u>Due a Refund of Contributions</u>	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$180,810	\$180,810	\$180,810
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$180,810	\$180,810	\$180,810
Grand Total	<u>\$301,931</u>	<u>\$353,364</u>	<u>\$353,364</u>
Funded Percentage	90.35%	77.20%	77.20%

(Note: Funded percentage is equal to the ratio of the usable portion of the market value of assets divided by the present value of accrued benefits.)



Present Value of Vested Benefits

Table I-F

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$92,803	\$144,236	\$144,236
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$92,803	\$144,236	\$144,236
Deferred Vested Participants			
Retirement benefits	\$28,318	\$28,318	\$28,318
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$28,318	\$28,318	\$28,318
Due a Refund of Contributions	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$180,810	\$180,810	\$180,810
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$180,810	\$180,810	\$180,810
Grand Total	\$301,931	\$353,364	<u>\$353,364</u>



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	\$98,082	\$155,615	\$155,615
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$98,082	\$155,615	\$155,615
Deferred Vested Participants			
Retirement benefits	\$28,318	\$28,318	\$28,318
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$28,318	\$28,318	\$28,318
Due a Refund of Contributions	\$0	\$0	\$0
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$180,810	\$180,810	\$180,810
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$180,810	\$180,810	\$180,810
Grand Total	<u>\$307,210</u>	<u>\$364,743</u>	\$364,743



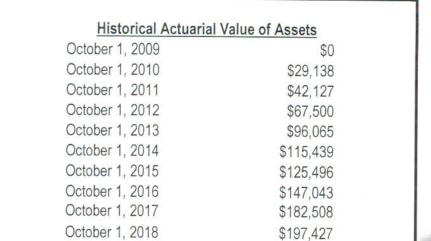
Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1	, 2018	\$272,803
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Minus advance employer contributions (\$75,376)

Actuarial Value of Assets as of October 1, 2018 \$197,427



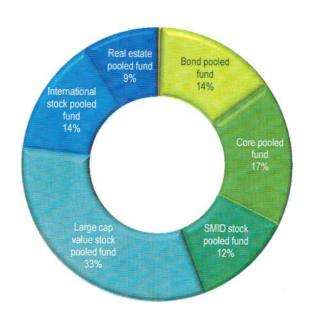


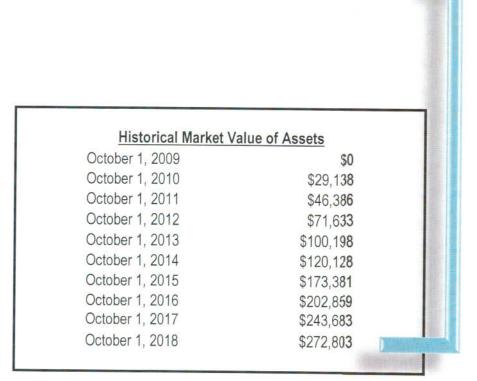
Market Value of Assets

Table II-B

As of October 1, 2018

Market Value of Assets	\$272,803		
Cash	\$1,091		
Bond pooled fund	\$39,556		
Core pooled fund	\$46,923		
SMID stock pooled fund	\$32,736		
Large cap value stock pooled fund	\$89,207		
International stock pooled fund	\$38,738		
Real estate pooled fund	\$24,552		





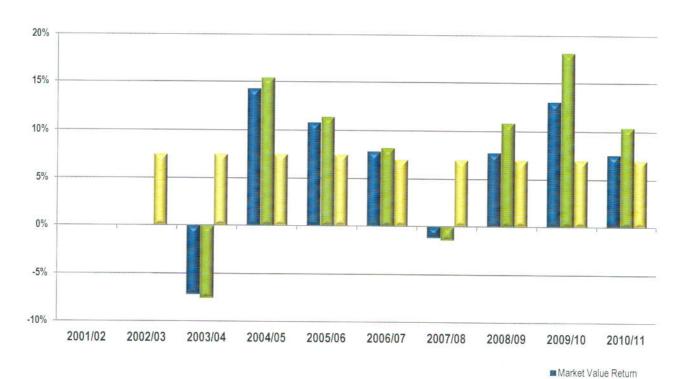


Investment Return

Table II-C

■ Actuarial Value Return

Assumed Return



Annual Investment Returns

Pla	an	Market Value	Actuarial Value	Assumed
Ye	2007	Return	Return	Return
12	08/09	N/A	N/A	N/A
2.00	09/10	0.00%	0.00%	7.50%
20	10/11	-7.12%	-7.53%	7.50%
20	11/12	14.27%	15.45%	7.50%
20	12/13	10.85%	11.43%	7.50%
20	13/14	7.88%	8.23%	7.00%
20	14/15	-1.17%	-1.43%	7.00%
20	15/16	7.78%	10.90%	7.00%
20	16/17	13.08%	18.15%	7.00%
20	17/18	7.58%	10.45%	7.00%
9yı	. Avg.	5.68%	6.99%	7.22%



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2017	\$243,683	\$182,508
Increases Due To:		
Employer Contributions	\$35,955	\$35,955
Employee Contributions Service Purchase Contributions Total Contributions	\$0 \$0 \$35,955	\$0 \$0 \$35,955
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses) Total Investment Income	\$0 \$0 \$18,869 \$18,869	\$18,869
Other Income	\$0	
Total Income	\$54,824	\$54,824
Decreases Due To:		
Annual Benefit Payments Refund of Employee Contributions	(\$15,800) \$0	(\$15,800) \$0
Total Benefit Payments	(\$15,800)	(\$15,800)
Investment Expenses Administrative Expenses	\$0 (\$9,904)	(\$9,904)
Advance Employer Contribution		(\$14,201)
Total Expenses	(\$25,704)	(\$39,905)
As of October 1, 2018	\$272,803	\$197,427



Historical Trust Fund Detail

Income

2015/16

2016/17

2017/18

\$35,117

\$30,984

\$35,955

\$0

\$0

\$0

Table II-E

				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	Dividends	Losses	Losses	Income
2008/09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2009/10	\$36,398	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2010/11	\$40,367	\$0	\$0	\$0	\$0	\$0	-\$2,787	\$0
2011/12	\$27,298	\$0	\$0	\$0	\$0	\$0	\$7,860	\$0
2012/13	\$28,747	\$0	\$0	\$0	\$0	\$0	\$8,839	\$0
2013/14	\$26,298	\$0	\$0	\$0	\$0	\$0	\$8,356	\$0
2014/15	\$68,454	\$0	\$0	\$0	\$0	\$0	-\$1,731	\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$14,089

\$27,414

\$18,869

\$0

\$0

\$0

\$0

\$0

\$0

Expenses					Other Actuarial Adjustments
	Annual				Advance
Plan	Benefit	Contrib.	Admin.	Invest.	DROP Employer
Year	Payments	Refunds	Expenses	Expenses	Credits Contribs.
2008/09	N/A	N/A	N/A	N/A	N/A N/A
2009/10	\$7,260	\$0	\$0	\$0	\$0 \$0
2010/11	\$20,299	\$0	\$33	\$0	\$0 \$4,259
2011/12	\$6,360	\$0	\$3,551	\$0	\$0 -\$126
2012/13	\$7,875	\$0	\$1,146	\$0	\$0 \$0
2013/14	\$8,460	\$0	\$6,264	\$0	\$0 \$556
2014/15	\$12,230	\$0	\$1,240	\$0	\$0 \$43,196
2015/16	\$12,180	\$0	\$7,548	\$0	\$0 \$7,931
2016/17	\$13,005	\$0	\$4,569	\$0	\$0 \$5,359
2017/18	\$15,800	\$0	\$9,904	\$0	\$0 \$14,201

Note: Information was not available to separate the investment expenses from the investment income nor was information available to separate the investment income by source.



Other Reconciliations

Table II-F

Advance Employer Contribution

Advance Employer Contribution as of October 1, 2017	\$61,175		
Additional Employer Contribution	\$35,955		
Minimum Required Contribution	(\$21,754)		
Net Increase in Advance Employer Contribution	\$14,201		
Advance Employer Contribution as of October 1, 2018	\$75,376		

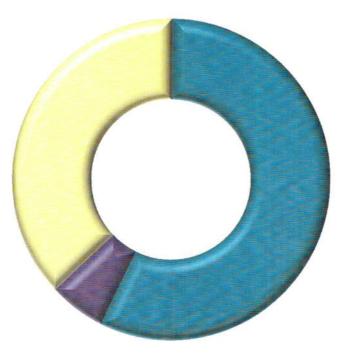


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Summary of Participant Data

Table III-A

As of October 1, 2018



Participant Distribution by Status

Actively Employed Participants Active Participants 20 **DROP** Participants 0 Inactive Participants Deferred Vested Participants 2 Due a Refund of Contributions 0 Deferred Beneficiaries 0 Participants Receiving a Benefit Service Retirements 13 Disability Retirements 0 Beneficiaries Receiving 0

Total Participants

Number	of Participant	ts Included	l in Prior Va	luations		
	Active	DROP	Inactive	Retired	Total	
October 1, 2009	19	0	1	6	26	
October 1, 2010	N/A	N/A	N/A	N/A	N/A	
October 1, 2011	19	0	1	5	25	
October 1, 2012	N/A	N/A	N/A	N/A	N/A	
October 1, 2013	19	0	2	7	28	
October 1, 2014	N/A	N/A	N/A	N/A	N/A	
October 1, 2015	19	0	2	10	31	
October 1, 2016	19	0	2	10	31	
October 1, 2017	20	0	1	11	3 2	
October 1, 2018	20	0	2	13	35	



Data Reconciliation

Table III-B

	Active	DROP	Deferred Vested	Due a Refund	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	<u>Total</u>
October 1, 2017	20	0	1	0	0	11	0	0	32
Change in Status Re-employed Terminated Retired	(1) (2)		1			2			
Participation Ended Transferred Out Cashed Out Died									
Participation Began Newly Hired Transferred In New Beneficiary	3								3
Other Adjustment									
October 1, 2018	20	0	2	0	0	13	0	0	35

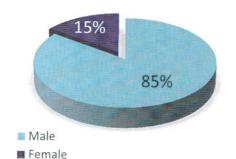


Active Participant Data

Table III-C

Gender Mix

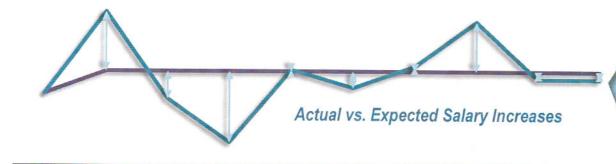
As of October 1, 2018



Average Age
Average Service

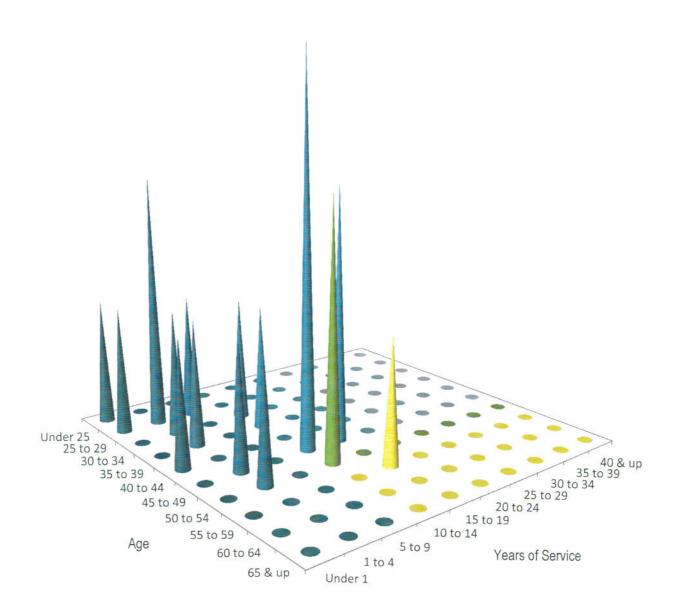
Total Annualized Compensation for the Prior Year
Total Expected Compensation for the Current Year
Average Increase in Compensation for the Prior Year
Expected Increase in Compensation for the Current Year

40.2 years
8.0 years
\$1,137,065
\$983,938
2.65%



-100	ive Participant	Otatiotics i	TOTT FILOT VA	luations	
				Average	Average
				Expected	Actual
	Average	Average	Average	Salary	Salary
	Age	Service	Salary	Increase	Increase
October 1, 2009	43.1	8.3	\$52,411	N/A	N/A
October 1, 2010	N/A	N/A	N/A	4.00%	14.43%
October 1, 2011	44.4	10.3	\$59,203	4.00%	-0.93%
October 1, 2012	N/A	N/A	N/A	4.00%	-8.75%
October 1, 2013	42.3	9.2	\$50,453	4.00%	4.27%
October 1, 2014	N/A	N/A	N/A	4.00%	1.06%
October 1, 2015	40.9	7.6	\$51,012	4.00%	4.90%
October 1, 2016	41.9	8.6	\$57,595	4.00%	12.77%
October 1, 2017	43.1	9.2	\$58,505	4.00%	2.64%
October 1, 2018	40.2	8.0	\$56,853	4.00%	2.65%







May be eligible to retire

▲ Not eligible to retire



Active Age-Service-Salary Table

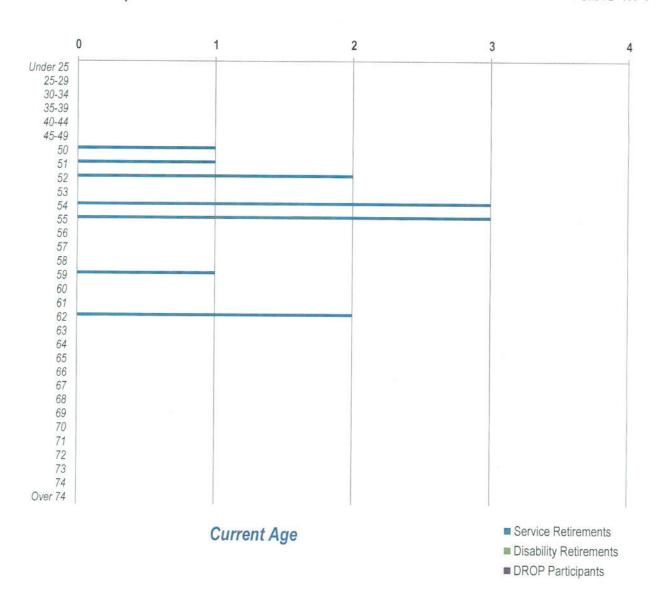
Table III-E

Attained					Complet	ted 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	1	0	0	0	0	0	0	0	0	0	1
Avg.Pay	41,471	0	0	0	0	0	0	0	0	0	41,471
25 to 29	- 1	2	1	0	0	0	0	0	0	0	4
Avg.Pay	44,488	45,854	47,106	0	0	0	0	0	0	0	45,826
								100			,
30 to 34	0	1	0	1	0	0	0	0	0	0	2
Avg.Pay	0	46,800	0	58,877	0	0	0	0	0	0	52,839
35 to 39	0	1	0	1	0	0	0	0		0	
Avg.Pay	0	45,479	0	59,444	0	0	0	0	0 0	0	2 52,462
3 .,		,		50,111						U	32,402
40 to 44	1	0	0	0	0	0	0	0	0	0	1
Avg.Pay	42,965	0	0	0	0	0	0	0	0	0	42,965
45.40										i ie	
45 to 49	0	1 45.057	0	3	2	0	0	0	0	0	6
Avg.Pay	0	45,857	0	63,212	67,832	0	0	0	0	0	61,860
50 to 54	0	1	0	2	0	0	0	0	0	0	3
Avg.Pay	0	96,598	0	61,511	0	0	0	0	0	0	73,207
55 to 59	0	0	0	0	1	0	0	0	0	0	1
Avg.Pay	0	0	0	0	67,950	0	0	0	0	0	67,950
60 to 64	0	0	0	0	0	0	0	0			0
Avg.Pay	0	0	0	0	0	0	0	0	0	0 0	0
,									o	×	Ü
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
T-/ 1											
Total Avg.Pay	3 42,975	6 54,407	1 47,106	61 569	67 971	0	0	0	0	0	20
Avy.Fay	42,373	54,407	47,100	61,568	67,871	0	0	0	0	0	56,853



Inactive Participant Data

Table III-F



Average Annual Benefit

Service Retirements	\$1,215.38
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Deferred Vested Participants	\$1,320.00

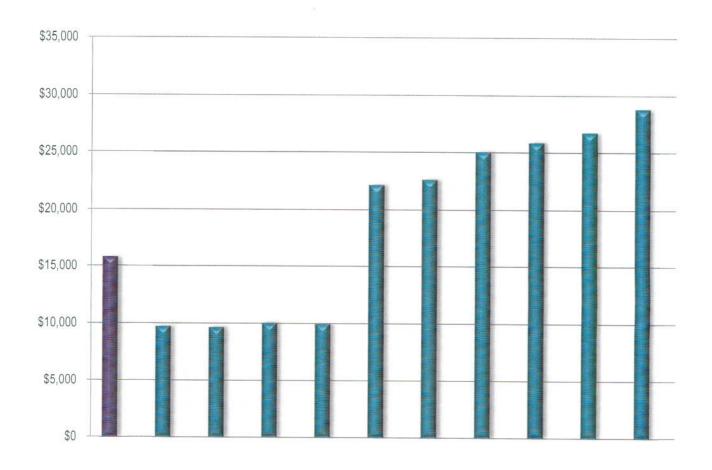
Deferred Beneficiaries S1,320.00

Not applicable



Projected Benefit Payments

Table III-G



For the period October 1, 2017 through September 30, 2018	\$15,800
Projected	
For the period October 1, 2018 through September 30, 2019	\$9,752
For the period October 1, 2019 through September 30, 2020	\$9,674
For the period October 1, 2020 through September 30, 2021	\$10,062
For the period October 1, 2021 through September 30, 2022	\$9,971
For the period October 1, 2022 through September 30, 2023	\$22,180
For the period October 1, 2023 through September 30, 2024	\$22,646
For the period October 1, 2024 through September 30, 2025	\$25,061
For the period October 1, 2025 through September 30, 2026	\$25,865
For the period October 1, 2026 through September 30, 2027	\$26,732
For the period October 1, 2027 through September 30, 2028	\$28,822



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

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.

Retirement:

Retirement is assumed to occur at age 52.

6. Expenses

The present value of future benefits has been loaded by 20.00% to account for administrative expenses. 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, an administrative expense assumption was added equal to a 20% loading of the present value of future benefits.

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

- (1) Effective October 1, 2016, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Blue Collar Mortality Table as required by State law.
- (2) Effective October 1, 2013, the assumed interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.
- (3) Effective October 1, 2013, the mortality basis was changed from the RP-2000 Mortality Table for annuitants, projected to 2007 by Scale AA, to the RP-2000 Mortality Table for annuitants, projected to 2015 by Scale AA, both as published by the Internal Revenue Service (IRS) for purposes of Internal Revenue Code (IRC) section 430.



Summary of Plan Provisions

Table V-A

1. Accrued Benefit

\$84.00 multiplied by the first 10 years of Credited Service plus \$120.00 multiplied by Credited Service in excess of 10 years, to a maximum benefit of \$2,400.00 per year

(Note: The deferred vested participant is entitled to receive an additional \$500.00 annual benefit.)

2. Normal Retirement Age and Benefit

Age

Age 52

Amount

Accrued Benefit payable annually as of each January 1

Form of Payment

10-year certain and life annuity

3. Early Retirement Age and Benefit

* Age

Age 50 with at least 10 years of service

* Amount

Accrued Benefit payable annually as of each January 1

Form of Payment

10-year certain and life annuity

4. Participation Requirement

All police officers of the City of Indian Harbour Beach, Florida automatically become a participant in the plan on their date of hire.



Summary of Plan Amendments

Table V-B

Since the completion of the previous valuation, the plan has been amended with respect to those individuals who retire after October 1, 2016 to increase the benefit formula from \$60.00 for each year of service to \$84.00 for each of the first 10 years of service plus \$120.00 for each year of service in excess of 10 years, to a maximum benefit of \$2,400.00 per year. In addition, the normal form of payment has been changed from a single life annuity to a 10-year certain and life annuity for those individuals who retire after September 30, 2009.

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

(1) The plan was amended to add an early retirement benefit at age 50 if the participant has earned at least 10 years of service.

