City of Boynton Beach Municipal Police Officers' Retirement Fund

Actuarial Valuation Report as of October 1, 2018

Annual Employer Contribution for the Fiscal Year Ending September 30, 2020









June 17, 2019

Board of Trustees City of Boynton Beach Municipal Police Officers' Retirement Fund Boynton Beach, Florida

Dear Board Members:

The results of the October 1, 2018 Annual Actuarial Valuation of the City of Boynton Beach Municipal Police Officers' Retirement Fund are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the System only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The purpose of the valuation is to measure the System's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2020, and to present the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 67. This report also includes estimated GASB Statement No. 67 information for the fiscal year ending September 30, 2019. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section B of this report. This report includes risk risk metrics in section A, but does not include a robust assessment of the risks of future experience not meeting the actuarial assumptions. A robust assessment of these risks was outside the scope of this assignment.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data or other information through September 30, 2018. The valuation was based upon information furnished by the Plan Administrator concerning Retirement Plan benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

Board of Trustees City of Boynton Beach Municipal Police Officers' Retirement Fund June 17, 2019 Page ii

This report was prepared using certain assumptions approved by the Board and prescribed by the Florida Statues as described in the section of this report entitled Actuarial Assumptions and Cost Methods. The prescribed assumptions are the assumed mortality rates detailed in the Actuarial Assumptions and Cost Methods section in accordance with Florida Statutes, Chapter 112.63.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Retirement Plan as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.

Peter N. Strong and Jeffrey Amrose are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor.

This actuarial valuation and/or cost determination was prepared and completed by us or under our direct supervision, and we acknowledge responsibility for the results. To the best of our knowledge, the results are complete and accurate. In our opinion, the techniques and assumptions used are reasonable, meet the requirements and intent of Part VII, Chapter 112, Florida Statutes, and are based on generally accepted actuarial principles and practices. 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 increase in plan costs or required contribution rates have been taken into account in the valuation.

Gabriel, Roeder, Smith & Company will be pleased to review this valuation report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY

Peter N. Strong, FSA, FCA, MAAA

Enrolled Actuary No. 17-06975

Jeff/ey Amrose, MAAA

Enrolled Actuary No. 17-06599



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DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

COMPARISON OF REQUIRED EMPLOYER CONTRIBUTIONS

A comparison of the required employer contribution developed in this and the last actuarial valuation is shown below. The contribution policy of the City is to contribute the dollar amount determined by multiplying the required percentage of payroll determined as of the valuation date by the projected pensionable payroll for the year.

	For FYE 9/30/20 Based on 10/1/2018 Valuation		Based on Based on 10/1/2018 10/1/2017		(Increase Decrease)
Required Employer/State Contribution As % of Covered Payroll	\$	6,280,602 54.86 %	\$	6,272,374 51.72 %	\$	8,228 3.14 %
Estimated State Contribution As % of Covered Payroll	\$	465,087 4.06 %	\$	465,087 3.83 %	\$	0 0.23 %
Required Employer Contribution As % of Covered Payroll	\$	5,815,515 50.80 %	\$	5,807,287 47.89 %	\$	8,228 2.91 %

^{*}Based on results from the April 30, 2018 Actuarial Impact Statement.

The required employer contribution has been computed under the assumption that the amount to be received from the State next year will be at least \$465,087. The City may not take credit for State revenue in excess of \$465,087. If the next payment from the State falls below \$465,087, the City must raise its contribution by the difference.

The employer contribution listed above is for the City's fiscal year ending September 30, 2020 and has been calculated assuming the employer contribution is made on October 1, 2019. The actual City contribution for the fiscal year ending September 30, 2018 was \$5,355,058, which equals the required contribution.

REVISIONS IN BENEFITS

The vesting requirement for Police Officers hired after October 1, 2016 was changed from completion of five years credited service to completion of ten years. The impact of that change was presented in the April 30, 2018 Actuarial Impact Statement, and the prior year results in this report (as of October 1, 2017) reflect this change. Additionally, \$30,000 of the excess state premium tax revenue was used by the City to reduce the unfunded actuarial liability in November 2017. This will occur again in November 2018.



REVISIONS IN ACTUARIAL ASSUMPTIONS AND METHODS

The amortization period for new bases was shortened from 30 years to 20 years, and the period for all current bases with more than 20 years remaining was shortened to 20 years. This change increase the total required contribution by \$95,022, or 0.83% of covered payroll.

ACTUARIAL EXPERIENCE

There was a net actuarial experience gain of \$183,111 for the year, which means that actual experience was more favorable than expected. The actuarial gain was primarily due to a higher than expected return on the actuarial value of assets. The return on the actuarial value of assets was 7.54% versus 7.25% expected. The return on market value of assets was 6.50%. The actuarial gain was partially offset by higher retirement experience than expected (10 actual retirements versus 4 expected).

The net actuarial gain for the year caused a decrease in the annual required employer contribution of 0.10% of covered payroll (or \$11,448).

FUNDED RATIO

The funded ratio is 65.9% as of October 1, 2018 compared to 64.1% as of October 1, 2017. The funded ratio is equal to the actuarial value of assets divided by the actuarial accrued liability.

ANALYSIS OF CHANGE IN EMPLOYER CONTRIBUTION

The components of change in the required employer contribution are as follows:

Contribution Rate Last Year	47.89 %
Actuarial Experience	(0.10)
Change in Administrative Expense	0.08
Amortization Payment on UAL	2.71
Change in State Contribution	(0.23)
Change in Normal Cost Rate	(0.38)
Change in Assumptions and Methods	0.83
Contribution Rate This Year	50.80

REQUIRED CONTRIBUTIONS IN LATER YEARS

The current calculated City contribution requirement is 50.80% of payroll starting October 1, 2018. It is important to keep in mind that under the asset smoothing method, gains and losses are recognized over five years. As of September 30, 2018, the market value of assets exceeded the actuarial value of assets by \$806,573. Once all the gains and losses through September 30, 2018 are fully recognized in the actuarial asset values, the contribution rate is expected to decrease by roughly 0.53% of payroll before any other changes are taken into account, unless there are offsetting experience losses.



RELATIONSHIP TO MARKET VALUE

If Market Value had been the basis for the valuation, the City contribution rate would have been 50.27% (\$5,754,838) for the fiscal year ending September 30, 2020 and the funded ratio would have been 66.6%. The funded ratio on a market value basis was 65.4% last year.

CONCLUSION

It is important to note that system assets are insufficient to cover the liabilities for inactive members. As of October 1, 2018, the assets are \$86.4 million and the liability for current inactive members is \$88.2 million. Additionally, the funded ratio has dropped from over 96.5% in 2000 to the current level of 65.9%. Some steps have been taken to address this issue, such as lowering the investment return assumption and shortening the UAAL amortization period.

The remainder of this Report includes detailed actuarial valuation results, financial information, miscellaneous information and statistics, and a summary of plan provisions.



RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION

The determination of the accrued liability and the actuarially determined contribution requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

- 1. Investment risk actual investment returns may differ from the expected returns;
- 2. Contribution risk actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
- 3. Salary and Payroll risk actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- 4. Longevity risk members may live longer or shorter than expected and receive pensions for a period of time other than assumed;
- 5. Other demographic risks members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with the Board's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.



Plan Maturity Values

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

	2018	<u>2017</u>
Ratio of the market value of assets to total payroll	7.74	6.85
Ratio of actuarial accrued liability to payroll	11.62	10.47
Ratio of actives to retirees and beneficiaries	0.90	1.01
Ratio of net cash flow to market value of assets	0.5%	0.2%

Ratio of Market Value of Assets to Payroll

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

Ratio of Actuarial Accrued Liability to Payroll

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time. The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 2.5 times the payroll, a change in liability 2% other than assumed would equal 5% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

Ratio of Actives to Retirees and Beneficiaries

A young plan with many active members and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

Ratio of Net Cash Flow to Market Value of Assets

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.



Additional Risk Assessment

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability.



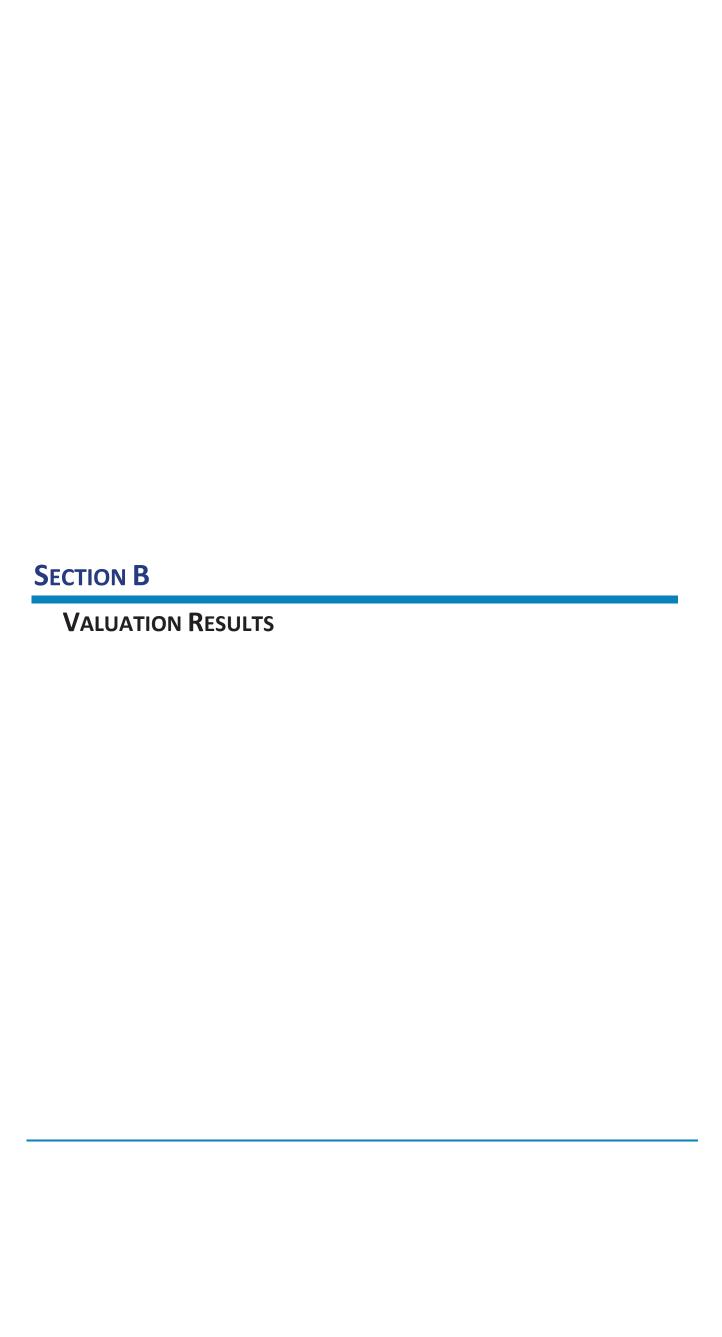
CHAPTER REVENUE

Increments in Chapter revenue over that received in 1998 must first be used to fund the cost of compliance with minimum benefits. Once minimums are met, any subsequent additional Chapter revenue must be used to provide extra benefits. As of the valuation date, all minimum Chapter requirements have been met.

Actuarial Confirmation of the Use of State Chapter Money					
Base Amount Previous Plan Year	\$ 465,087				
2. Amount Received for Previous Plan Year	825,507				
3. Benefit Improvements Made in Previous Plan Year	0				
4. Excess Funds for Previous Plan Year: (2) - (1) - (3)	360,420				
5. Accumulated Excess at Beginning of Previous Year	197,876				
6. Excess Funds Used in Previous Plan Year*	313,405				
7. Accumulated Excess as of Valuation Date (Available for Benefit Improvements)	244,891				
8. Base Amount This Plan Year	465,087				

^{*}Includes \$30,000 of excess state premium tax revenue used by the City to reduce the unfunded actuarial accrued liability.





PARTICIPANT DATA						
	October 1, 2018 Oc			October 1, 2017		
ACTIVE MEMBERS			1			
Number		129		136		
Covered Annual Payroll	\$	11,169,188	\$	11,831,766		
Average Annual Payroll	\$	86,583	\$	86,998		
Average Age		37.3		37.7		
Average Past Service		9.2		9.6		
Average Age at Hire		28.1		28.1		
RETIREES & BENEFICIARIES & DROP						
Number		129		119		
Annual Benefits	\$	6,668,363	\$	5,944,967		
Average Annual Benefit	\$	51,693	\$	49,958		
Average Age		59.3		59.3		
DISABILITY RETIREES						
Number		14		15		
Annual Benefits	\$	349,332	\$	362,066		
Average Annual Benefit	\$	24,952	\$	24,138		
Average Age		63.3		63.2		
TERMINATED VESTED MEMBERS						
Number		24		20		
Annual Benefits	\$	658,613	\$	495,428		
Average Annual Benefit	\$	27,442	\$	24,771		
Average Age		40.4		39.5		



ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC)						
A. Valuation Date	October 1, 2018 After Method Change	October 1, 2018 Before Method Change	October 1, 2017*			
B. ADEC to Be Paid During Fiscal Year Ending	9/30/2020	9/30/2020	9/30/2019			
C. Assumed Date of Employer Contrib.	10/1/2019	10/1/2019	10/1/2018			
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 3,605,293	\$ 3,512,211	\$ 3,411,915			
E. Employer Normal Cost	2,522,537	2,522,537	2,707,417			
F. ADEC if Paid on the Valuation Date: D+E	6,127,830	6,034,748	6,119,332			
G. ADEC Adjusted for Frequency of Payments	6,127,830	6,034,748	6,119,332			
H. ADEC as % of Covered Payroll	54.86 %	54.03 %	51.72 %			
Assumed Rate of Increase in Covered Payroll to Contribution Year	2.50 %	2.50 %	2.50 %			
J. Covered Payroll for Contribution Year	11,448,417	11,448,417	12,127,560			
K. ADEC for Contribution Year: H x J	6,280,602	6,185,580	6,272,374			
L. Estimate of State Revenue in Contribution Year	465,087	465,087	465,087			
M. Actuarially Determined Employer Contribution (ADEC) in Contribution Year	5,815,515	5,720,493	5,807,287			
N. ADEC as % of Covered Payroll in Contribution Year: M ÷ J	50.80 %	49.97 %	47.89 %			

^{*}Based on results from the April 30, 2018 Actuarial Impact Statement.



	ACTUARIAL VALUE OF BENEFITS AND ASSETS						
A.	Valuation Date	October 1, 2018 After Method Change	October 1, 2018 Before Method Change	October 1, 2017*			
B.	Actuarial Present Value of All Projected Benefits for 1. Active Members						
	a. Service Retirement Benefits	\$ 63,699,437	\$ 63,699,437	\$ 68,856,446			
	b. Vesting Benefits	2,371,982	2,371,982	2,463,614			
	c. Disability Benefits	3,599,965	3,599,965	3,803,293			
	d. Preretirement Death Benefits	972,143	972,143	1,036,045			
	e. Return of Member Contributions	122,501	122,501	97,768			
	f. Total 2. Inactive Members	70,766,028	70,766,028	76,257,166			
	a. Service Retirees & Beneficiaries	79,043,096	79,043,096	70,489,330			
	b. Disability Retirees	3,295,937	3,295,937	3,425,706			
	c. Terminated Vested Members	5,857,661	5,857,661	4,139,840			
	d. Total	88,196,694	88,196,694	78,054,876			
	3. Total for All Members	158,962,722	158,962,722	154,312,042			
C.	Actuarial Accrued (Past Service) Liability	129,814,370	129,814,370	123,846,951			
	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	118,056,977	118,056,977	111,391,695			
E.	Plan Assets 1. Market Value	86,399,855	86,399,855	81,034,320			
	2. Actuarial Value	85,593,282	85,593,282	79,329,597			
F.	Unfunded Actuarial Accrued	, ,	, ,	' '			
	Liability: C - E2	44,221,088	44,221,088	44,517,354			
G.	Actuarial Present Value of Projected						
	Covered Payroll	105,463,296	105,463,296	108,595,154			
Н.	Actuarial Present Value of Projected			' '			
	Member Contributions	7,382,431	7,382,431	7,601,660			
1.	Accumulated Contributions of						
	Active Members	5,932,412	5,932,412	6,532,640			

^{*}Based on results from the April 30, 2018 Actuarial Impact Statement.



ENTRY AGE NORMAL METHOD CALCULATION OF EMPLOYER NORMAL COST						
A. Valuation Date	October 1, 2018 After Method Change	October 1, 2018 Before Method Change	October 1, 2017*			
B. Normal Cost for						
 Service Retirement Benefits Vesting Benefits Disability Benefits Preretirement Death Benefits Return of Member Contributions Total for Future Benefits Assumed Amount for Administrative Expenses Total Normal Cost C. Expected Member Contribution	\$ 2,592,214 199,534 260,740 59,677 26,733 3,138,898 165,482 3,304,380 781,843	\$ 2,592,214 199,534 260,740 59,677 26,733 3,138,898 165,482 3,304,380 781,843	\$ 2,790,286 214,033 275,776 63,228 26,270 3,369,593 166,048 3,535,641 828,224			
D. Employer Normal Cost: B8-C	2,522,537	2,522,537	2,707,417			
E. Employer Normal Cost as a % of Covered Payroll	22.58%	22.58%	22.88%			

^{*}Based on results from the April 30, 2018 Actuarial Impact Statement.



LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

UAAL Amortization Period and Payments Before Method Change						
Original UAAL					Current UAAL	
	Type of	Amortization				
Date	Amortization	Period		Years		
Established	Base	(Years)	Amount	Remaining	Amount	Payment
10/1/98	Fresh Start	30	\$ 1,331,353	10	\$ 1,298,861	\$ 157,915
10/1/99	Plan Amendment	30	1,656,722	11	1,675,351	189,075
10/1/00	Plan Amendment	30	185,619	12	191,846	20,262
10/1/01	Plan Amendment	30	46,601	13	49,669	4,943
10/1/04	Plan Amendment	30	1,166,935	16	1,329,632	114,218
10/1/05	Plan Amendment	30	2,985,574	17	3,441,782	283,844
10/1/05	Method/Assum Change	30	13,646,165	17	15,731,351	1,297,367
10/1/06	Experience Loss	30	2,307,394	18	2,683,558	213,174
10/1/07	Experience Loss	30	16,404	19	19,132	1,468
10/1/08	Experience Loss	30	3,582,504	20	4,156,706	308,959
10/1/09	Experience Loss	30	3,419,100	21	3,937,801	284,153
10/1/10	Experience Loss	30	1,404,570	22	1,602,256	112,484
10/1/11	Experience Loss	30	4,476,765	23	5,031,788	344,327
10/1/11	Assumption Change	30	1,634,520	23	1,837,165	125,718
10/1/12	Experience Gain	30	(2,249,576)	24	(2,469,208)	(164,986)
10/1/12	Assumption Change	30	412,194	24	452,438	30,231
10/1/12	Plan Amendment	30	(426,604)	24	(468,254)	(31,287)
10/1/13	Experience Gain	30	(794,394)	25	(862,179)	(56,339)
10/1/13	Assumption Change	30	430,545	25	467,285	30,535
10/1/14	Experience Gain	30	(2,463,259)	26	(2,631,240)	(168,393)
10/1/14	Assumption Change	30	461,268	26	492,724	31,533
10/1/15	Experience Loss	30	1,896,466	27	1,995,726	125,253
10/1/15	Assumption Change	30	(588,861)	27	(619,682)	(38,892)
10/1/16	Experience Gain	30	(2,092,313)	28	(2,150,573)	(132,523)
10/1/16	Assumption Change	30	3,097,709	28	3,183,964	196,203
10/1/17	Experience Loss	30	542,252	29	549,921	33,310
10/1/17	Plan Amendment	30	(1,174)	29	(1,191)	(72)
10/1/17	Assumption Change	30	3,429,073	29	3,477,570	210,645
10/1/18	Experience Gain	30	(183,111)	30	(183,111)	(10,914)
			\$ 39,330,441		\$ 44,221,088	\$ 3,512,211



UAAL Amortization Period and Payments After Method Change						
Original UAAL					Current UAAL	
	Type of	Amortization				
Date	Amortization	Period		Years		
Established	Base	(Years)	Amount	Remaining	Amount	Payment
10/1/98	Fresh Start	30	\$ 1,331,353	10	\$ 1,298,861	\$ 157,915
10/1/99	Plan Amendment	30	1,656,722	11	1,675,351	189,075
10/1/00	Plan Amendment	30	185,619	12	191,846	20,262
10/1/01	Plan Amendment	30	46,601	13	49,669	4,943
10/1/04	Plan Amendment	30	1,166,935	16	1,329,632	114,218
10/1/05	Plan Amendment	30	2,985,574	17	3,441,782	283,844
10/1/05	Method/Assum Change	30	13,646,165	17	15,731,351	1,297,367
10/1/06	Experience Loss	30	2,307,394	18	2,683,558	213,174
10/1/07	Experience Loss	30	16,404	19	19,132	1,468
10/1/08	Experience Loss	30	3,582,504	20	4,156,706	308,959
10/1/09	Experience Loss	30	3,419,100	20	3,937,801	292,688
10/1/10	Experience Loss	30	1,404,570	20	1,602,256	119,092
10/1/11	Experience Loss	30	4,476,765	20	5,031,788	374,002
10/1/11	Assumption Change	30	1,634,520	20	1,837,165	136,553
10/1/12	Experience Gain	30	(2,249,576)	20	(2,469,208)	(183,531)
10/1/12	Assumption Change	30	412,194	20	452,438	33,629
10/1/12	Plan Amendment	30	(426,604)	20	(468,254)	(34,804)
10/1/13	Experience Gain	30	(794,394)	20	(862,179)	(64,084)
10/1/13	Assumption Change	30	430,545	20	467,285	34,732
10/1/14	Experience Gain	30	(2,463,259)	20	(2,631,240)	(195,574)
10/1/14	Assumption Change	30	461,268	20	492,724	36,623
10/1/15	Experience Loss	30	1,896,466	20	1,995,726	148,338
10/1/15	Assumption Change	30	(588,861)	20	(619,682)	(46,060)
10/1/16	Experience Gain	30	(2,092,313)	20	(2,150,573)	(159,848)
10/1/16	Assumption Change	30	3,097,709	20	3,183,964	236,657
10/1/17	Experience Loss	30	542,252	20	549,921	40,874
10/1/17	Plan Amendment	30	(1,174)	20	(1,191)	(89)
10/1/17	Assumption Change	30	3,429,073	20	3,477,570	258,480
10/1/18	Experience Gain	20	(183,111)	20	(183,111)	(13,610)
			\$ 39,330,441		\$ 44,221,088	\$ 3,605,293

AMORTIZATION SCHEDULE

The UAAL is being amortized as a level percent of payroll over the number of years remaining in the amortization period. The expected amortization schedule is as follows:

Amortization Schedule						
Year	Expected UAAL					
2018	\$ 44,221,088					
2019	43,560,415					
2020	42,755,202					
2021	41,792,527					
2022	40,658,497					
2023	39,338,150					
2028	29,332,682					
2033	14,306,695					
2038	-					



ACTUARIAL GAINS AND LOSSES

The assumptions used to anticipate mortality, employment turnover, investment income, expenses, salary increases, and other factors have been based on long range trends and expectations. Actual experience can vary from these expectations. The variance is measured by the gain and loss for the period involved. If significant long term experience reveals consistent deviation from what has been expected and that deviation is expected to continue, the assumptions should be modified. The net actuarial gain (loss) for the past year is computed as follows:

A. Derivation of the Current UAAL	
1. Last Year's UAAL	\$ 44,517,354
2. Last Year's Employer Normal Cost	2,707,417
3. Last Year's Contributions*	5,850,145
4. Interest at the Assumed Rate on:	
a. 1 and 2 for one year	3,423,796
b. 3 from dates paid	394,223
c. a - b	3,029,573
5. This Year's Expected UAAL: 1+2-3+4c	44,404,199
6. This Year's Actual UAAL (Before any	
changes in benefits and assumptions)	44,221,088
7. Net Actuarial Gain (Loss): (5) - (6)	183,111
8. Gain (Loss) due to investments	280,392
9. Gain (Loss) due to other sources	(97,281)

^{*}Includes \$30,000 in excess state premium tax revenue used to reduce the UAAL.

Net actuarial gains in previous years are detailed in the table on the next page.

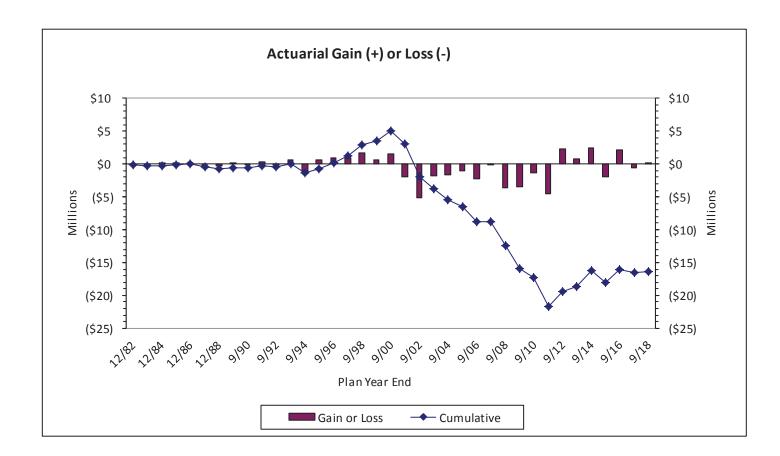


HISTORY OF NET ACTUARIAL GAINS AND LOSSES

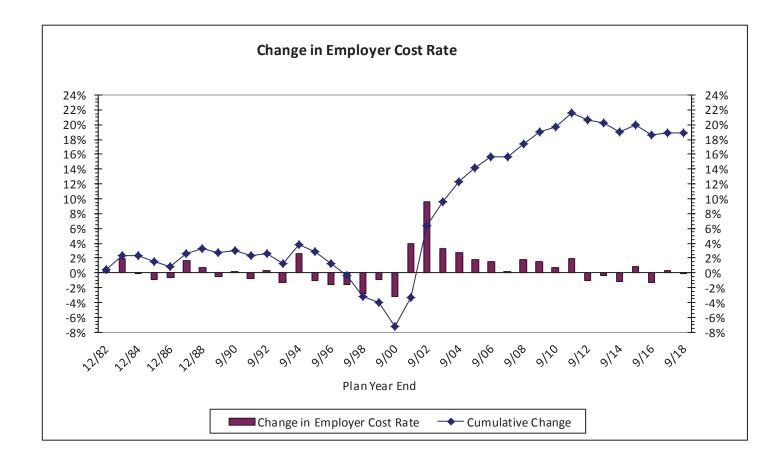
Year Ended	Change in Employer Cost Rate *	Gain (Loss)
12/31/82	0.46 %	\$ (56,551)
12/31/83	1.92	(265,213)
12/31/84	(0.04)	6,977
12/31/85	(0.85)	185,443
12/31/86	(0.59)	158,678
12/31/87	1.67	(516,444)
12/31/88	0.74	(254,892)
12/31/89	(0.52)	206,590
9/30/90	0.24	(94,609)
9/30/91	(0.74)	286,744
9/30/92	0.35	(142,237)
9/30/93	(1.34)	564,365
9/30/94	2.57	(1,370,604)
9/30/95	(1.01)	574,379
9/30/96	(1.56)	938,153
9/30/97	(1.60)	1,008,362
9/30/98	(2.85)	1,694,077
9/30/99	(0.88)	568,386
9/30/00	(3.16)	1,596,887
9/30/01	3.92	(1,978,307)
9/30/02	9.58	(5,069,210)
9/30/03	3.22	(1,870,014)
9/30/04	2.75	(1,615,637)
9/30/05	1.85	(1,083,369)
9/30/06	1.46	(2,307,394)
9/30/07	0.02	(16,404)
9/30/08	1.84	(3,582,504)
9/30/09	1.54	(3,419,100)
9/30/10	0.66	(1,404,570)
9/30/11	1.98	(4,476,765)
9/30/12	(1.01)	2,249,576
9/30/13	(0.38)	794,394
9/30/14	(1.18)	2,463,259
9/30/15	0.86	(1,896,466)
9/30/16	(1.28)	2,092,313
9/30/17	0.31	(542,252)
9/30/18	(0.12)	183,111

^{*} Before 9/30/06, change in Employer Normal Cost.









The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

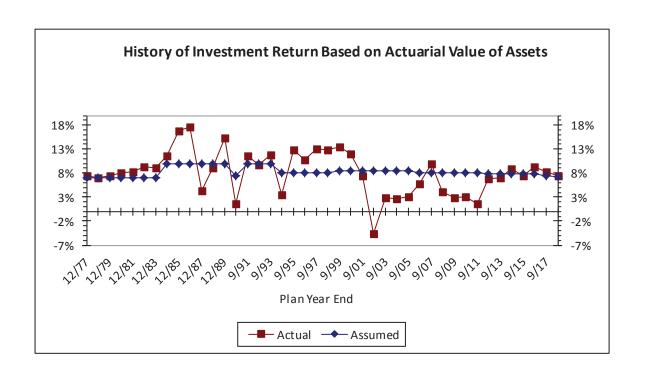


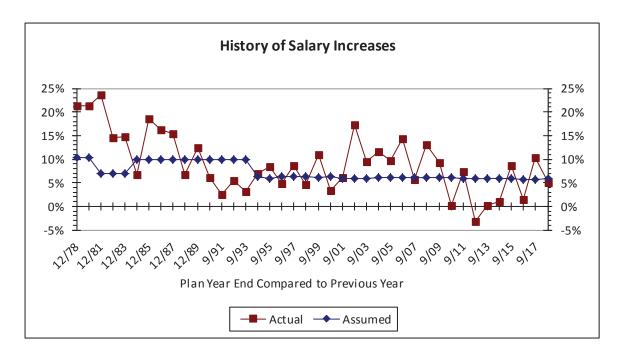
HISTORY OF INVESTMENT EARNINGS AND SALARY INCREASES

	Investmer	nt Return	Salary	Increases
Year Ending	Actual	Assumed	Actual	Assumed
12/31/1977	7.5 %	7.00 %		
12/31/1978	7.1	7.00	18.3 %	10.3% (2 yrs)
12/31/1979	7.5	7.00	24.2	40.2 (2)
12/31/1980	8.0	7.00	21.2	10.3 (2 yrs)
12/31/1981	8.2	7.00	23.6	7.0
12/31/1982	9.3	7.00	14.6	7.0
12/31/1983	9.0	7.00	14.8	7.0
12/31/1984	11.5	10.00	6.8	10.0
12/31/1985	16.8	10.00	18.6	10.0
12/31/1986	17.6	10.00	16.3	10.0
12/31/1987	4.4	10.00	15.3	10.0
12/31/1988	9.0	10.00	6.7	10.0
12/31/1989	15.4	10.00	12.4	10.0
9/30/1990 (9 mos.)	1.7	7.50	6.1	10.0
9/30/1991	11.6	10.00	2.5	10.0
9/30/1992	9.7	10.00	5.4	10.0
9/30/1993	11.9	10.00	3.1	10.0
9/30/1994	3.5	8.00	7.0	6.3
9/30/1995	12.9	8.00	8.5	5.8
9/30/1996	10.8	8.00	4.9	6.3
9/30/1997	13.1	8.00	8.7	6.3
9/30/1998	12.9	8.00	4.6	6.3
9/30/1999	13.5	8.50	10.9	6.1
9/30/2000	12.1	8.50	3.4	6.3
9/30/2001	7.5	8.50	6.0	5.9
9/30/2002	(4.7)	8.50	17.2	5.9
9/30/2003	2.8	8.50	9.5	5.9
9/30/2004	2.6	8.50	11.5	6.0
9/30/2005	3.0	8.50	9.6	6.0
9/30/2006	5.7	8.00	14.4	6.0
9/30/2007	9.9	8.00	5.7	6.1
9/30/2008	4.2	8.00	13.1	6.1
9/30/2009	2.8	8.00	9.3	6.1
9/30/2010	3.0	8.00	0.2	6.1
9/30/2011	1.6	8.00	7.3	5.8
9/30/2012	6.9	7.75	(3.1)	5.9
9/30/2013	7.0	7.75	0.1	5.8
9/30/2014	8.9	7.75	1.0	5.8
9/30/2015	7.5	7.75	8.6	5.8
9/30/2016	9.3	7.75	1.5	5.7
9/30/2017	8.3	7.50	10.4	5.7
9/30/2018	7.5	7.25	5.0	5.8
Averages	8.0 %		8.5 %	

The actual investment return rates shown above are based on the actuarial value of assets. The actual salary increase rates shown above are the increases received by those active members who were included in the actuarial valuations both at the beginning and the end of each year.









Actual (A) Compared to Expected (E) Decrements Among Active Employees

Year	Num Add Dur Ye	led ing		ice & OP ement		bility ement	De	ath	Vested	Termi Other	nations To	tals	Active Members End of
Ended	Α	Е	Α	Е	Α	E	Α	Ε	Α	Α	Α	E	Year
9/30/2002 9/30/2003 9/30/2004	14 14 8	17 9 23	1 6 14	1 4 0	0 0 0	0 0 0	0 0	0 0 0	1 1 2	15 2 7	16 3 9	8 9 9	119 124 109
9/30/2005 9/30/2006	21 25	14 10	1 3	1 2	0 0	0 0	0	0 0	3 1	10 6	13 7	8 9	116 131
9/30/2007 9/30/2008	17 14	4 9	3 2	3 1	0	0	0	0	0	1 7	1 7	11 12	144 149
9/30/2009 9/30/2010 9/30/2011	8 5 5	6 8 9	3 4 5	7 2 4	0 0 0	0 0 0	0 0	0 0	0 1 2	3 3 2	3 4 4	11 11 10	151 148 144
9/30/2011 9/30/2012 9/30/2013	9 5	7 10	3	1 1	0	0	0	0	2 4	2 3	4 4 7	4 7	144 146 141
9/30/2014 9/30/2015	5 9	7 11	2	1 2	0	0	0	0	2 4	3	5 7	6 4	139 137
9/30/2016 9/30/2017	17 15	21 12	7 7	1 3	0 1	0 0	0	0 0	11 1	3 2	14 3	4 5	133 136
9/30/2018 9/30/2019	13	20	10	4 1	0	0 0	0	0 0	5	5	10	5 5	129
17 Yr Totals *	204	197	77	38	2	0	1	0	40	77	117	133	

^{*} Totals are through current Plan Year only.



SUPPLEMENTAL PENSION DISTRIBUTION

	Balance at Beginning of Year	Gain (Loss) for Year	Supplemental Payment	Balance at End of Year
2000	\$ 0	\$ 1,596,887	\$ 0	\$ 1,596,887
2001	1,596,887	(1,978,307)	0	(381,420)
2002	(381,420)	(5,069,210)	0	(5,450,630)
2003	(5,450,630)	(1,870,014)	0	(7,320,644)
2004	(7,320,644)	(1,615,637)	0	(8,936,281)
2005	(8,936,281)	(1,083,369)	0	(10,019,650)
2006	(10,019,650)	(2,307,394)	0	(12,327,044)
2007	(12,327,044)	(16,404)	0	(12,343,448)
2008	(12,343,448)	(3,582,504)	0	(15,925,952)
2009	(15,925,952)	(3,419,100)	0	(19,345,052)
2010	(19,345,052)	(1,404,570)	0	(20,749,622)
2011	(20,749,622)	(4,476,765)	0	(25,226,387)
2012	(25,226,387)	2,249,576	0	(22,976,811)
2013	(22,976,811)	794,394	0	(22,182,417)
2014	(22,182,417)	2,463,259	0	(19,719,158)
2015	(19,719,158)	(1,896,466)	0	(21,615,625)
2016	(21,615,625)	2,092,313	0	(19,523,311)
2017	(19,523,311)	(542,252)	0	(20,065,563)
2018	(20,065,563)	183,111	0	(19,882,452)

Under certain conditions, participants in payment status can receive a supplemental distribution per Section 18-177 of the Plan. The cumulative actuarial gain for plan years beginning after 9/30/1999 must be a positive amount for a supplemental payment to occur.



				RECENT HISTOR	RECENT HISTORY OF VALUATION RESULTS	RESULTS			
	Number of	er of						Employer Normal Cost	rmal Cost
	Active	Inactive							
Valuation Date	Valuation Members Members Date		Covered Annual Payroll	Actuarial Value of Assets	Actuarial Accrued Liability	UFAAL	Funded Ratio	Amount	% of Payroll
10/1/00	124	56	\$ 6,907,740	\$ 32,559,614	\$ 33,726,879	\$ 1,167,265	% 5'96	γ.	6.72 %
10/1/01	122	75	6,555,316	34,331,760	37,715,963	3,384,203	91.0	726,204	11.08
10/1/02	119	75	7,382,088	32,133,373	40,604,148	8,470,775	79.1	1,538,895	20.85
10/1/03	124	81	7,917,021	33,206,438	44,029,168	10,822,730	75.4	1,935,704	24.45
10/1/04	109	94	7,207,008	34,495,794	48,154,162	13,658,368	71.6	2,043,434	28.35
10/1/05	116	96	7,836,390	35,445,474	56,691,347	21,245,873	62.5	1,238,339	15.80
10/1/06	131	100	9,302,405	37,691,909	61,468,267	23,776,358	61.3	1,441,317	15.49
10/1/01	144	103	10,296,812	41,981,125	66,068,756	24,087,631	63.5	1,587,552	15.42
10/1/08	149	104	11,532,888	44,277,726	72,349,643	28,071,917	61.2	1,774,031	15.38
10/1/09	151	107	12,537,968	46,116,985	78,055,403	31,938,418	59.1	1,931,395	15.40
10/1/10	148	109	12,134,525	48,129,593	81,957,204	33,827,611	58.7	1,895,893	15.62
10/1/11	144	113	12,397,266	49,115,728	89,656,412	40,540,684	54.8	2,126,920	17.16
10/1/12	146	116	11,789,237	52,594,653	91,924,429	39,329,776	57.2	2,114,509	17.94
10/1/13	141	122	11,302,523	56,693,338	95,951,447	39,258,109	59.1	2,132,984	18.87
10/1/14	139	123	11,142,832	62,320,013	69,365,363	37,645,350	62.3	2,214,983	19.88
10/1/15	137	130	11,774,623	67,380,705	106,464,806	39,084,101	63.3	2,425,913	20.60
10/1/16	133	147	11,075,682	73,166,635	113,697,993	40,531,358	64.4	2,415,066	21.81
10/1/17	136	154	11,831,766	79,329,597	123,846,951	44,517,354	64.1	2,707,417	22.88
10/1/18	129	167	11,169,188	85,593,282	129,814,370	44,221,088	62.9	2,522,537	22.58

City of Boynton Beach Municipal Police Officers' Retirement Fund

		REC	ENT HISTO	RY OF REQU	IIRED AND	RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS	RIBUTIONS			
	End of			Required Contributions	tributions					
Volunting	Year To	Employer & State	& State	Estimated State	d State	Net Employer	ployer	Aci	Actual Contributions	tions
Valuation	Valuation		% of		% of		% of			
	Applies	Amount	Payroll	Amount	Payroll	Amount	Payroll	Employer	State	Total
10/1/98	66/08/6	966'898	13.88	427,874	6.87	436,122	7.01	426,129	427,874	854,003
10/1/99	00/08/6	920,372	12.92	427,874	00.9	492,498	6.92	490,425	429,945	920,370
10/1/00	9/30/01	742,646	10.75	429,945	6.22	312,701	4.53	312,701	430,572	743,273
10/1/01	9/30/02	1,053,863	16.08	443,454	6.77	610,409	9.31	610,409	443,454	1,053,863
10/1/02	6/30/03	1,929,458	26.14	443,454	6.01	1,486,004	20.13	1,486,004	465,087	1,951,091
10/1/03	9/30/04	2,343,601	29.60	465,087	5.87	1,878,514	23.73	1,878,514	465,087	2,343,601
10/1/04	9/30/02	2,571,109	35.67	465,087	6.45	2,106,022	29.22	2,106,022	465,087	2,571,109
10/1/05	90/08/6	2,808,957	35.85	465,087	5.93	2,343,870	29.92	2,343,870	465,087	2,808,957
10/1/06	6/30/02	3,030,547	32.58	465,087	5.00	2,565,460	27.58	2,685,841	465,087	3,150,928
10/1/01	80/08/6	3,236,241	31.43	465,087	4.52	2,771,154	26.91	2,771,154	465,087	3,236,241
10/1/08	60/08/6	3,710,169	32.17	465,087	4.03	3,245,082	28.14	3,245,082	465,087	3,710,169
10/1/09	9/30/10	4,153,603	33.13	465,087	3.71	3,688,516	29.42	3,688,516	465,087	4,153,603
10/1/09	9/30/11	3,997,173	31.78	465,087	3.70	3,532,086	28.08	3,552,348	465,087	4,017,435
10/1/10	9/30/12	4,098,955	32.55	465,087	3.69	3,633,868	28.86	3,633,868	465,087	4,098,955
10/1/11	9/30/13	4,701,572	36.68	465,087	3.63	4,236,485	33.05	4,236,485	465,087	4,701,572
10/1/12	9/30/14	4,560,918	38.54	465,087	3.93	4,095,831	34.61	4,159,736	465,087	4,624,823
10/1/13	9/30/15	4,830,346	41.73	465,087	4.02	4,365,259	37.71	4,365,259	465,087	4,830,346
10/1/14	9/30/16	4,856,392	42.26	465,087	4.05	4,391,305	38.21	4,391,305	465,087	4,856,392
10/1/15	9/30/17	5,256,615	43.16	465,087	3.82	4,791,528	39.34	4,791,528	465,087	5,256,615
10/1/16	9/30/18	5,820,145	51.64	465,087	4.13	5,355,058	47.51	5,355,058	465,087	5,820,145
10/1/17	9/30/19	6,272,374	51.72	465,087	3.83	5,807,287	47.89	na	na	na
10/1/18	9/30/20	6,280,602	54.86	465,087	4.06	5,815,515	50.80	na	na	na

ACTUARIAL ASSUMPTIONS AND COST METHOD

VALUATION METHODS

Actuarial Cost Method - Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an **Individual Entry-Age Actuarial Cost Method** having the following characteristics:

- the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gains/(losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

Financing of Unfunded Actuarial Accrued Liabilities - Unfunded Actuarial Accrued Liabilities (full funding credit if assets exceed liabilities) were amortized by level (principal & interest combined) percent-of-payroll contributions over a reasonable period of future years.

Actuarial Value of Assets - The Actuarial Value of Assets phase in the difference between the expected actuarial value and actual market value of assets at the rate of 20% per year. The Actuarial Value of Assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the Market Value of plan assets and whose upper limit is 120% of the Market Value of plan assets. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than Market Value. During periods when investment performance is less than assumed rate, Actuarial Value of Assets will tend to be greater than Market Value.

VALUATION ASSUMPTIONS

The actuarial assumptions used in the valuation are shown in this Section.

ECONOMIC ASSUMPTIONS

The investment return rate assumed in the valuation is 7.25% per year, compounded annually (net after investment expenses).

The **Wage Inflation Rate** assumed in this valuation is 3% per year. The Wage Inflation Rate is defined to be the portion of total pay increases for an individual that are due to macro economic forces including productivity, price inflation, and labor market conditions. The wage inflation rate does not include pay changes related to individual merit and seniority effects.

The **Price Inflation Rate** assumed in this valuation was 2.5% per year.

The assumed **real rate of return** over price inflation is defined to be the portion of total investment return that is more than the assumed price inflation rate. Considering other economic assumptions, the 7.25% investment return rate translates to an assumed real rate of return over price inflation of 4.75%.



The rates of salary increase are as follows:

	%	Increase in Sala	ry
Age	Merit and	Wage	Total
	Seniority	Inflation	Increase
20	3.5%	3.0%	6.5%
25	3.5%	3.0%	6.5%
30	3.5%	3.0%	6.5%
35	3.5%	3.0%	6.5%
40	2.5%	3.0%	5.5%
45	2.0%	3.0%	5.0%
50	2.0%	3.0%	5.0%
55	2.0%	3.0%	5.0%

Projected service retirement benefits are increased to allow for the inclusion of unused sick and vacation pay in average final earnings. The increase amount is unique for each member based on the number of hours of accumulated sick and vacation time reported for each member as of June 18, 2013.

For purposes of financing the unfunded liabilities, total payroll is assumed to grow at the Price Inflation assumption of 2.50% per year using a forward looking methodology, as permitted under Florida Statutes, Chapter 112.64(5)(b).

DEMOGRAPHIC ASSUMPTIONS

The mortality table is the RP-2000 Combined Healthy Participant Mortality Table (for pre-retirement mortality) and the RP-2000 Mortality Table for Annuitants (for post-retirement mortality), with mortality improvements projected to all future years after 2000 using Scale BB. For males, the base mortality rates include a 90% blue collar adjustment and a 10% white collar adjustment. For females, the base mortality rates include a 100% white collar adjustment. These are the same rates currently in use for Special Risk Class members of the Florida Retirement System (FRS), as required under Florida Statutes, Chapter 112.63.

FRS Healthy Post-Retirement Mortality for Special Risk Class Members

Sample	Probability of		Future	Life
Attained	Dying Next Year		Expectano	y (years)
Ages (in 2018)	Men	Women	Men	Women
50	0.53 %	0.23 %	34.01	38.40
55	0.67	0.32	29.37	33.39
60	0.90	0.47	24.80	28.48
65	1.29	0.73	20.40	23.74
70	1.98	1.22	16.26	19.27
75	3.21	2.07	12.52	15.19
80	5.29	3.47	9.30	11.56

This assumption is used to measure the probabilities of each benefit payment being made after retirement.



FRS Healthy Pre-Retirement Mortality for Special Risk Class Members

Sample Attained	Probabil Dying Ne	-	Future Expectance	
Ages (in 2018)	Men	Women	Men	Women
50	0.22 %	0.15 %	35.00	38.75
55	0.39	0.24	29.88	33.61
60	0.71	0.39	25.00	28.59
65	1.21	0.70	20.44	23.76
70	1.98	1.22	16.26	19.27
75	3.21	2.07	12.52	15.19
80	5.29	3.47	9.30	11.56

This assumption is used to measure the probabilities of active members dying prior to retirement (75% of deaths are assumed to be service connected).

For disabled retirees, the mortality table used was 60% of the RP-2000 for Disabled Annuitants with ages set back 4 years for males and set forward 2 years for females, and 40% of the RP2000 Annuitant Mortality Table with a White Collar adjustment with no age setback, both with no provision being made for future mortality improvements. These are the same rates currently in use for Special Risk Class members of the Florida Retirement System (FRS), as required under Florida Statutes, Chapter 112.63.

FRS Disabled Mortality for Special Risk Class Members

Sample Attained	Probability of Dying Next Year		Future Expectance	
Ages (in 2018)	Men	Women	Men	Women
50	1.67 %	0.91 %	23.74	27.06
55	2.03	1.26	20.77	23.37
60	2.47	1.67	17.91	19.90
65	3.07	2.24	15.15	16.62
70	3.90	3.18	12.52	13.58
75	5.30	4.60	10.02	10.86
80	7.59	6.66	7.80	8.48

The rates of retirement used to measure the probability of eligible members retiring under early retirement is 5% per year. For normal retirement these rates are as follows:

	Number of Years	
	After First Eligibility	Probability of
	for Normal Retirement	Normal Retirement
	0	40 %
	1	10 %
	2	10 %
	3	10 %
	4	10 %
	5	10 %
	6	10 %
	7	100 %
_	0 1 2 3 4 5	40 % 10 % 10 % 10 % 10 % 10 %



Rates of separation from active membership are as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability).

Years	Sample	% of Active Members
of Service	Ages	Separating Within Next Year
0 - 1	ALL	15.0%
1 - 2		10.0%
2 - 3		7.0%
3 - 4		5.0%
4 - 5		4.0%
At least 5	25	4.0%
	30	3.0%
	35	2.0%
	40	1.0%
	45	0.0%

Rates of disability among active members (90% of disabilities are assumed to be service connected).

Sample	% Becoming Disabled
Ages	within Next Year
20	0.14 %
25	0.15 %
30	0.18 %
35	0.23 %
40	0.30 %
4-	2 = 1 2/
45	0.51 %
50	1.00 %
55	1.55 %



MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

Administrative & Investment Expenses

The investment return assumption is intended to be the return net of investment expenses. Annual administrative expenses are assumed to be equal to the average of the prior two years' expenses. Assumed administrative expenses are added to the Normal Cost.

Benefit Service

Exact fractional service is used to determine the amount of benefit payable.

Decrement Operation

Disability and mortality decrements operate during retirement eligibility.

Decrement Timing

Decrements of all types are assumed to occur at the beginning of the year.

Eligibility Testing

Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

Forfeitures

For vested separations from service, it is assumed that 0% of members separating will withdraw their contributions and forfeit an employer financed benefit. It was further assumed that the liability at termination is the greater of the vested deferred benefit (if any) or the member's accumulated contributions.

Incidence of Contributions

Employer contributions are assumed to be made at the beginning of the year effective October 1, 2011. Member contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.

Liability Load

Projected normal and early retirement benefits are loaded by a unique amount for each member to allow for the inclusion of unused sick and vacation pay in final average earnings. These individual loads are based on the number of hours of unused accumulated sick and vacation time reported for each member as of June 18, 2013.

Marriage Assumption

100% of males and 100% of females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses for active member valuation purposes.

Normal Form of Benefit

A 10-year certain and life annuity is the normal form of benefit.

Pay Increase Timing

Middle of fiscal year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.



GLOSSARY

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions

Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.

Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.

Actuarial Equivalent

Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value (APV)

The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.

Actuarial Present Value of Future Benefits (APVFB)

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB, such as the Funded Ratio and the Actuarially Determined Contribution (ADEC).

Actuarial Value of Assets

The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the Actuarially Determined contribution (ADEC).



Actuarially Determined Contribution (ADEC)

The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB. The ADEC consists of the Employer Normal Cost and Amortization Payment.

Amortization Method

A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.

Amortization Payment

That portion of the plan contribution or ADEC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period

The period used in calculating the Amortization Payment.

Closed Amortization Period

A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.

Employer Normal Cost

The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.

Equivalent Single
Amortization Period

For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.

Experience Gain/Loss

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.

Funded Ratio

The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.



GASB Governmental Accounting Standards Board.

GASB No. 68 and These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that

sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement

systems, while Statement No. 67 sets the rules for the systems

themselves.

Normal Cost The annual cost assigned, under the Actuarial Cost Method, to the

current plan year.

Open Amortization Period An open amortization period is one which is used to determine the

Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to

covered payroll.

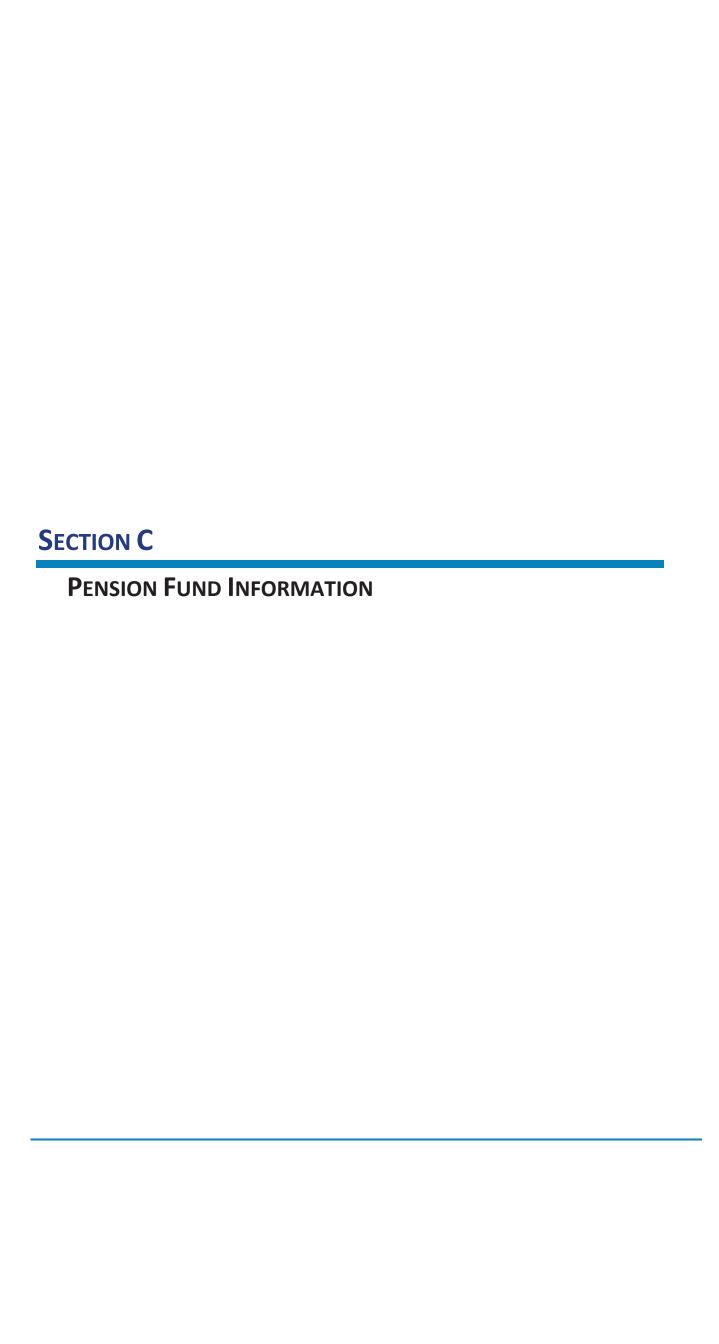
Liability Value of Assets.

Valuation Date The date as of which the Actuarial Present Value of Future Benefits are

determined. The benefits expected to be paid in the future are

discounted to this date.





SUMMARY OF ASSETS

		Septer	mber 3	30
Item		2018		2017
A. Cash and Cash Equivalents (Operating Cash)	\$	2,176	\$	2,445
B. Receivables:				
1. Member Contributions	\$	-	\$	-
2. Employer Contributions		-		-
3. State Contributions		-		-
4. Buy-Back Installment Payments		172,247		84,764
5. Receivables for Securities Sold plus Prepaid Expenses		447,764		1,432,375
6. DROP Loans		254,315		335,309
7. Total Receivables	\$	874,326	\$	1,852,448
C. Investments				
1. Short-Term Investments	\$	-	\$	-
2. Domestic Equities (Large cap defensive)		26,237,000		24,492,976
3. Real Estate		6,740,412		6,279,311
4. Multi-Asset Core Fund (Equities)		39,308,141		36,605,491
5. Multi-Manager Bond Fund (Fixed Income)		29,173,271		26,219,476
6. Total Investments	\$	101,458,824	\$	93,597,254
D. Liabilities and Reserves				
1. Benefits Payable	\$	-	\$	-
2. Accrued Expenses and Other Payables		(180,363)		(157,888)
3. Total Liabilities and Reserves	\$	(180,363)	\$	(157,888)
E. Total Market Value of Assets Available for Benefits	\$:	102,154,963	\$	95,294,259
F. Reserves				
1. State Contribution Reserve	\$	(244,891)	\$	(197,876)
2. DROP Accounts		(13,001,411)		(11,516,817)
3. Supplemental Benefit Reserve		(2,508,806)		(2,545,246)
	\$	(15,755,108)	\$	(14,259,939)
G. Market Value Net of Reserves	\$	86,399,855	\$	81,034,320
H. Allocation of Investments				
1. Short-Term Investments		0.00%		0.00%
2. Domestic Equities (Large cap defensive)		25.86%		26.17%
3. Real Estate		6.64%		6.71%
4. Multi-Asset Core Fund (Equities)		38.75%		39.11%
5. Multi-Manager Bond Fund (Fixed Income)		28.75%		28.01%
6. Total Investments		100.00%		100.00%



PENSION FUND DISBURSEMENTS & INCOME

	Septen	nber 3	30
Item	2018		2017
A. Market Value of Assets at Beginning of Year	\$ 95,294,259	\$	86,304,627
B. Revenues and Expenditures			
1. Contributions			
a. Employee Contributions	\$ 924,231	\$	946,743
b. Employer Contributions	5,355,058		4,791,528
c. State Contributions	825,507		781,307
d. Buy Back Contributions	290,029		29,945
e. DROP Rollover	102,504		98,740
f. Change in Value of Remaining Buy Back Payments	87,483		(17,773)
g. Total	\$ 7,584,812	\$	6,630,490
2. Investment Income			
a. Interest, Dividends, and Other Income	\$ 3,410	\$	1,601
b. Net Realized Gains/(Losses)	2,671,515		2,408,640
c. Net Unrealized Gain/(Losses)	4,418,520		7,020,964
d. Investment Expenses	 (714,381)		(633,478)
e. Net Investment Income	\$ 6,379,064	\$	8,797,727
3. Benefits and Refunds			
a. Refunds	\$ (122,701)	\$	(11,413)
b. Regular Monthly Benefits to Retirees	(5,766,186)		(5,204,486)
c. Supplemental Distributions and DROP Loans	(465,760)		(186,979)
d. DROP Distributions	(585,259)		(868,009)
e. Total	\$ (6,939,906)	\$	(6,270,887)
4. Administrative and Miscellaneous Expenses	\$ (163,266)	\$	(167,698)
5. Transfers	\$ -	\$	-
C. Market Value of Assets at End of Year	\$ 102,154,963	\$	95,294,259
D. Reserves			
1. State Contribution Reserve	\$ (244,891)	\$	(197,876)
2. DROP Accounts	(13,001,411)	·	(11,516,817)
3. Supplemental Benefit Reserve	(2,508,806)		(2,545,246)
4. Total Reserves	\$ (15,755,108)	\$	(14,259,939)
E. Market Value Net of Reserves	\$ 86,399,855	\$	81,034,320



ACTUARIAL VALUE OF ASSETS

Valuation Date – September 30	2017	2018	2019	2020	2021	2022
A. Actuarial Value of Assets Beginning of Year	\$ 86,084,486	\$ 983'886'86 \$	\$ -	\$ -	\$ -	ı
B. Market Value End of Year	95,294,259	102,154,963	ı	ı	ı	ı
C. Market Value Beginning of Year	86,304,627	95,294,259	1	ı	1	1
D. Non-Investment/Administrative Net Cash Flow	191,905	481,640				
E. Investment Income						
E1. Actual Market Total: B-C-D	8,797,727	6,379,064	1	ı	1	1
E2. Assumed Rate of Return	7.50%	7.25%	7.25%	7.25%	7.25%	7.25%
E3. Assumed Amount of Return	6,643,215	6,996,822	ı	•	ı	ı
E4. Amount Subject to Phase-In: E1–E3	2,154,512	(617,758)	ı	1	ı	ı
F. Phase-In Recognition of Investment Income						
F1. Current Year: 0.2 x E4	430,902	(123,552)	1	ı	1	1
F2. First Prior Year	428,499	430,902	(123,552)	ı	1	1
F3. Second Prior Year	(848,929)	428,499	430,902	(123,552)	1	1
F4. Third Prior Year	393,473	(848,929)	428,499	430,902	(123,552)	1
F5. Fourth Prior Year	265,985	393,472	(848,929)	428,501	430,904	(123,550)
F6. Total Phase-Ins	066699	280,392	(113,080)	735,851	307,352	(123,550)
G. Actuarial Value of Assets End of Year						
G1. Preliminary Actuarial Value of Assets:	\$ 93,589,536	\$ 101,348,390 \$	\$ -	\$ -	\$ -	ı
G2. Upper Corridor Limit: 120%*B	114,353,111	122,585,956	1	1	ı	1
G3. Lower Corridor Limit: 80%*B	76,235,407	81,723,970	ı	ı	ı	1
G4. Funding Value End of Year	93,589,536	101,348,390	ı	ı	ı	ı
G5. Less: State Contribution Reserve	(197,876)	(244,891)	1	ı	1	1
G6. Less: DROP Account Balances	(11,516,817)	(13,001,411)	1	ı	1	ı
G7. Less: Supplemental Benefit Reserve	(2,545,246)	(2,508,806)	ı	ı	1	1
G8. Final Funding Value End of Year	79,329,597	85,593,282	•	1	1	1
H. Difference between Market & Actuarial Value	\$ 1,704,723	\$ 806,573 \$	· ·	\$	· • • • • • • • • • • • • • • • • • • •	•
 Actuarial Rate of Return Market Value Rate of Return Ratio of Actuarial Value to Market Value 	8.26% 9.91% 98.21%	7.54% 6.50% 99.21%	0.00%	0.00% 0.00%	0.00% 0.00%	0.00% 0.00% 0.00%



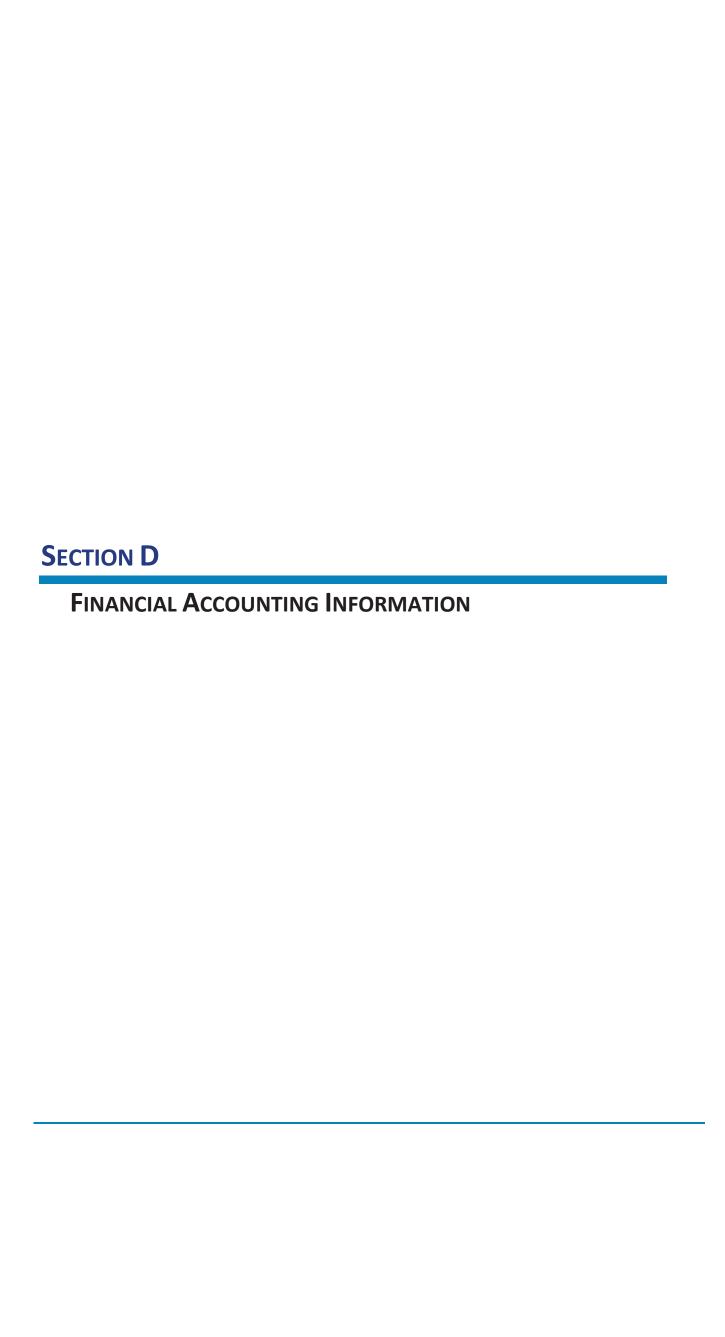
RECONCILIATION OF DROP ACC	OUNT	rs
Value at beginning of year	\$	11,516,817
Adjustment to beginning of year balances	+	0
Payments credited to accounts	+	1,023,534
Rollovers into DROP account	+	102,504
Investment Earnings credited	+	852,829
Withdrawals from accounts	-	585,259
Net Loan Activity	+_	90,986
Value at end of year		13,001,411



INVESTMENT RATE OF RETURN

		Investment R	ate of Return
Year Ended	I	Market Value	Actuarial Value
12/31/82		16.4 %	9.3 %
12/31/83		12.3	9.0
12/31/84		11.9	11.5
12/31/85		23.0	16.8
12/31/86		19.0	17.6
12/31/87		0.3	4.4
12/31/88		10.4	9.0
12/31/89		20.6	15.4
9/30/90	(9 mos.)	(1.9)	1.7
9/30/91		14.4	11.6
9/30/92		10.0	9.7
9/30/93		12.6	11.9
9/30/94		1.1	3.5
9/30/95		19.1	12.9
9/30/96		12.8	10.8
9/30/97		20.2	13.1
9/30/98		10.1	12.9
9/30/99		10.5	13.5
9/30/00		9.8	12.1
9/30/01		(9.1)	7.5
9/30/02		(9.2)	(4.7)
9/30/03		16.1	2.8
9/30/04		8.3	2.6
9/30/05		10.6	3.0
9/30/06		6.9	5.7
9/30/07		13.1	9.9
9/30/08		(15.1)	4.2
9/30/09		(8.0)	2.8
9/30/10		10.2	3.0
9/30/11		(0.6)	1.6
9/30/12		18.0	6.9
9/30/13		9.8	7.0
9/30/14		10.3	8.9
9/30/15		1.9	7.5
9/30/16		10.6	9.3
9/30/17		9.9	8.3
9/30/18		6.5	7.5
Average Returns:			
Last Five Years		7.8 %	8.3 %
Last Ten Years		7.4 %	6.2 %
All Years		8.6 %	8.1 %





	FASB NO. 35 INFORMA	ATION	
Α.	Valuation Date	October 1, 2018	October 1, 2017
В.	Actuarial Present Value of Accumulated Plan Benefits		
	1. Vested Benefits		
	a. Members Currently Receiving Paymentsb. Terminated Vested Membersc. Other Membersd. Total	\$ 82,339,033 5,857,661 28,567,813 116,764,507	\$ 73,915,036 4,139,840 32,218,854 110,273,730
	2. Non-Vested Benefits	1,292,470	1,117,965
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	118,056,977	111,391,695
	4. Accumulated Contributions of Active Members	5,932,412	6,532,640
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits		
	1. Total Value at Beginning of Year	111,391,695	102,633,140
	2. Increase (Decrease) During the Period Attributable to:		
	a. Plan Amendment	0	0
	 b. Change in Actuarial Assumptions c. Latest Member Data, Benefits Accumulated and Decrease in the Discount Period d. Benefits Paid (Net basis, including credits 	13,562,365	3,139,292 11,737,198
	to DROP accounts)	(6,897,083)	(6,117,935)
	e. Net Increase	6,665,282	8,758,555
	3. Total Value at End of Period	118,056,977	111,391,695
D.	Market Value of Assets	86,399,855	81,034,320
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods		



SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS GASB Statement No. 67

Fiscal year ending September 30,	2019*	2018	2017
Total pension liability			
Service Cost	\$ 3,138,898	\$ 3,199,467	\$ 2,886,162
Interest	10,507,697	10,007,776	9,654,424
Benefit Changes	-	-	-
Difference between actual & expected experience	455,046	1,355,270	(1,118,136)
Assumption Changes	-	3,525,859	3,177,559
Benefit Payments	(7,085,726)	(6,817,205)	(6,259,474)
Refunds	(57,059)	(122,701)	(11,413)
Other (Adjustments to Reserves)	442,112	578,453	533,304
Net Change in Total Pension Liability	7,400,968	11,726,919	8,862,426
Total Pension Liability - Beginning	 145,145,193	133,418,274	124,555,848
Total Pension Liability - Ending (a)	\$ 152,546,161	\$ 145,145,193	\$ 133,418,274
Plan Fiduciary Net Position			
Contributions - Employer (from City)	\$ 5,807,287	\$ 5,355,058	\$ 4,791,528
Contributions - Employer (from State)	825,507	825,507	781,307
Contributions - Non-Employer Contributing Entity	-	-	-
Contributions - Member	893,535	1,214,260	976,688
Net Investment Income	7,589,722	6,379,064	8,797,727
Benefit Payments	(7,085,726)	(6,817,205)	(6,259,474)
Refunds	(57,059)	(122,701)	(11,413)
Administrative Expense	(165,482)	(163,266)	(167,698)
Other	 -	102,504	98,740
Net Change in Plan Fiduciary Net Position	7,807,784	6,773,221	9,007,405
Plan Fiduciary Net Position - Beginning	101,982,716	95,209,495	86,202,090
Plan Fiduciary Net Position - Ending (b)	\$ 109,790,500	\$ 101,982,716	\$ 95,209,495
Net Pension Liability - Ending (a) - (b)	42,755,661	43,162,477	38,208,779
Plan Fiduciary Net Position as a Percentage			
of Total Pension Liability	71.97 %	70.26 %	71.36 %
Covered Payroll	\$ 11,500,000	\$ 11,552,888	\$ 11,834,364
Net Pension Liability as a Percentage			
of Covered Payroll	371.79 %	373.61 %	322.86 %

^{*} These figures are estimates only. Actual figures will be provided after the end of the fiscal year. Note that only three years are shown here for summary purposes. The actual September 30, 2019 GASB 67 disclosure report will include all years (up to 10) beginning with the first year GASB 67 was implemented (Fiscal Year 2014).



SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

FY Ending	Total Pension	Plan Net	Net Pension	Plan Net Position as a % of Total	Covered	Net Pension Liability as a % of
September 30,	Liability	Position	Liability	Pension Liability	Payroll	Covered Payroll
2014	\$ 111,783,071	\$ 76,282,065	\$35,501,006	68.24%	\$11,070,863	320.67%
2015	116,958,988	78,209,708	38,749,280	66.87%	11,553,613	335.39%
2016	124,555,848	86,202,090	38,353,758	69.21%	11,279,375	340.03%
2017	133,418,274	95,209,495	38,208,779	71.36%	11,834,364	322.86%
2018	145,145,193	101,982,716	43,162,477	70.26%	11,552,888	373.61%
2019*	152,546,161	109,790,500	42,755,661	71.97%	11,500,000	371.79%

^{*} These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



NOTES TO NET PENSION LIABILITY GASB Statement No. 67

Valuation Date: October 1, 2018
Measurement Date: September 30, 2019

Methods and Assumptions Used to Determine Net Pension Liability:

Actuarial Cost Method Entry Age Normal

Inflation 2.5%

Salary Increases 5.0% to 6.5% depending on age, including inflation.

Investment Rate of Return 7.25%

Retirement Age Experience-based table of rates that are specific to the type of eligibility

condition.

Mortality RP-2000 Combined Healthy Participant Mortality Table (for preretirement

mortality) and the RP-2000 Mortality Table for Annuitants (for post-retirement mortality), with mortality improvements projected to all future years after 2000 using Scale BB. For males, the base mortality rates include a 90% blue collar adjustment and a 10% white collar adjustment. For females, the base mortality rates include a 100% white collar adjustment. These are the same rates currently in use for Special Risk Class members of the Florida Retirement System (FRS), as required under

Florida Statutes, Chapter 112.63.

Other Information:

Notes See Discussion of Valuation Results in the October 1, 2018 Actuarial

Valuation Report.



SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

FY Ending	Actuarially Determined	Actual		ntribution eficiency	Covered	Actual Contribution as a % of
J				•		5.5 5.7 5.7
September 30,	Contribution	Contribution	(Excess)	Payroll	Covered Payroll
2014	\$ 4,560,918	\$ 4,624,823	\$	(63,905)	\$ 11,070,863	41.77%
2015	4,830,346	4,830,346		-	11,553,613	41.81%
2016	4,856,392	4,856,392		-	11,279,375	43.06%
2017	5,256,615	5,256,615		-	11,834,364	44.42%
2018	5,820,145	5,820,145		-	11,552,888	50.38%
2019*	6,272,374	6,272,374		-	11,500,000	54.54%

^{*} These figures are estimates only. Actual figures will be provided after the end of the fiscal year.



NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date: October 1, 2017

Notes Actuarially determined contribution rates are calculated as of October 1, which

is two year(s) prior to the end of the fiscal year in which contributions are

reported.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method Entry Age Normal

Amortization Method Level Percentage of Payroll, Closed

Remaining Amortization Period 20 years

Asset Valuation Method 5-year smoothed market

Inflation 2.5%

Salary Increases 5.0% to 6.5% depending on age, including inflation.

Investment Rate of Return 7.25%

Retirement Age Experience-based table of rates that are specific to the type of eligibility

condition.

Mortality RP-2000 Combined Healthy Participant Mortality Table (for preretirement

mortality) and the RP-2000 Mortality Table for Annuitants (for post-retirement mortality), with mortality improvements projected to all future years after 2000 using Scale BB. For males, the base mortality rates include a 90% blue collar adjustment and a 10% white collar adjustment. For females, the base mortality

rates include a 100% white collar adjustment. These are the same rates currently in use for Special Risk Class members of the Florida Retirement

System (FRS), as required under Florida Statutes, Chapter 112.63.

Other Information:

See Discussion of Valuation Results in the October 1, 2017 Actuarial Valuation

Notes Report.



SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 7.25% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 7.25%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the total actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments (7.25%) was applied to all periods of projected benefit payments to determine the total pension liability.

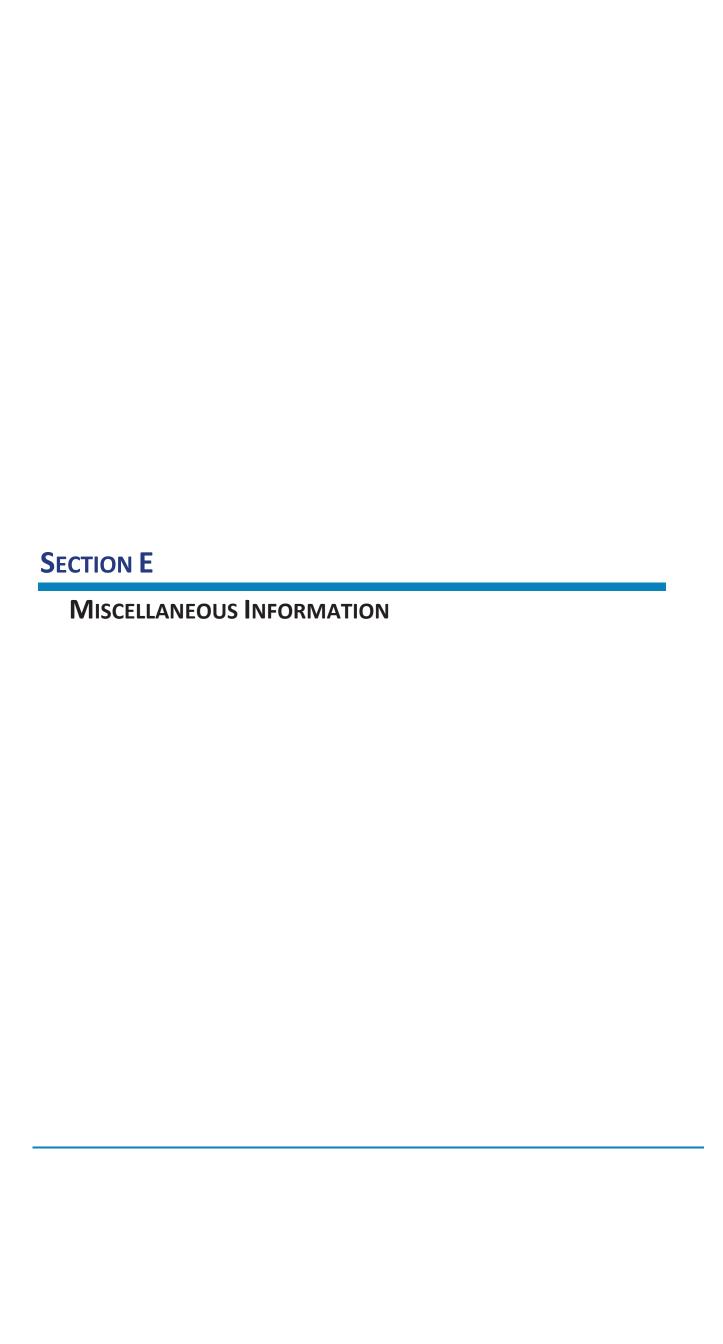
Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 7.25%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption*

		Cı	urrent Single Discount			
1% Decrease			Rate Assumption	1% Increase		
	6.25%		7.25%	8.25%		
\$	59,165,578	\$	42,755,661	\$ 29,162,961		

^{*} These figures are estimates only. Actual figures will be provided after the end of the fiscal year.





From 10/1/17 From 10/1/16 To 10/1/18 To 10/1/17									
		From 10/1/17 To 10/1/18	From 10/1/16 To 10/1/17						
A. Active N	lembers								
1. Number	Included in Last Valuation	136	133						
2. New Me	mbers Included in Current Valuation	11	15						
II	ted Employment Terminations	(5)	(2)						
II	Employment Terminations	(5)	(1)						
II	rticipation	(6)	(5)						
	Retirements	(4)	(2)						
II	y Retirements	0	(1)						
8. Deaths		0	(1)						
	Oata Correction	2	0						
10. Number	Included in This Valuation	129	136						
B. Termina	ted Vested Members								
1. Number	Included in Last Valuation	20	20						
2. Addition	s from Active Members	5	1						
3. Lump Sເ	m Payments/Refund of Contributions	(1)	0						
4. Paymen	ts Commenced	0	(1)						
5. Deaths		0	0						
6. OtherI	Data Correction	0	0						
7. Number	Included in This Valuation	24	20						
C. DROP Pla	n Members								
1. Number	Included in Last Valuation	11	11						
2. Addition	s from Active Members	6	5						
3. Retirem	ents	(1)	(5)						
4. Deaths i	lesulting in No Further Payments	0	0						
5. Other		0	0						
6. Number	Included in This Valuation	16	11						
D. Service	Retirees, Disability Retirees and Beneficiar	ies							
1. Number	Included in Last Valuation	123	116						
	s from Active Members	4	3						
	s from Terminated Vested Members	0	1						
	s from DROP Plan	1	5						
	Resulting in No Further Payments	(1)	(3)						
II	Resulting in New Survivor Benefits	0	1						
II	ertain Period - No Further Payments	0	0						
	Lump Sum Distributions	0	0						
II	Included in This Valuation	127	123						



ACTIVE PARTICIPANT SCATTER

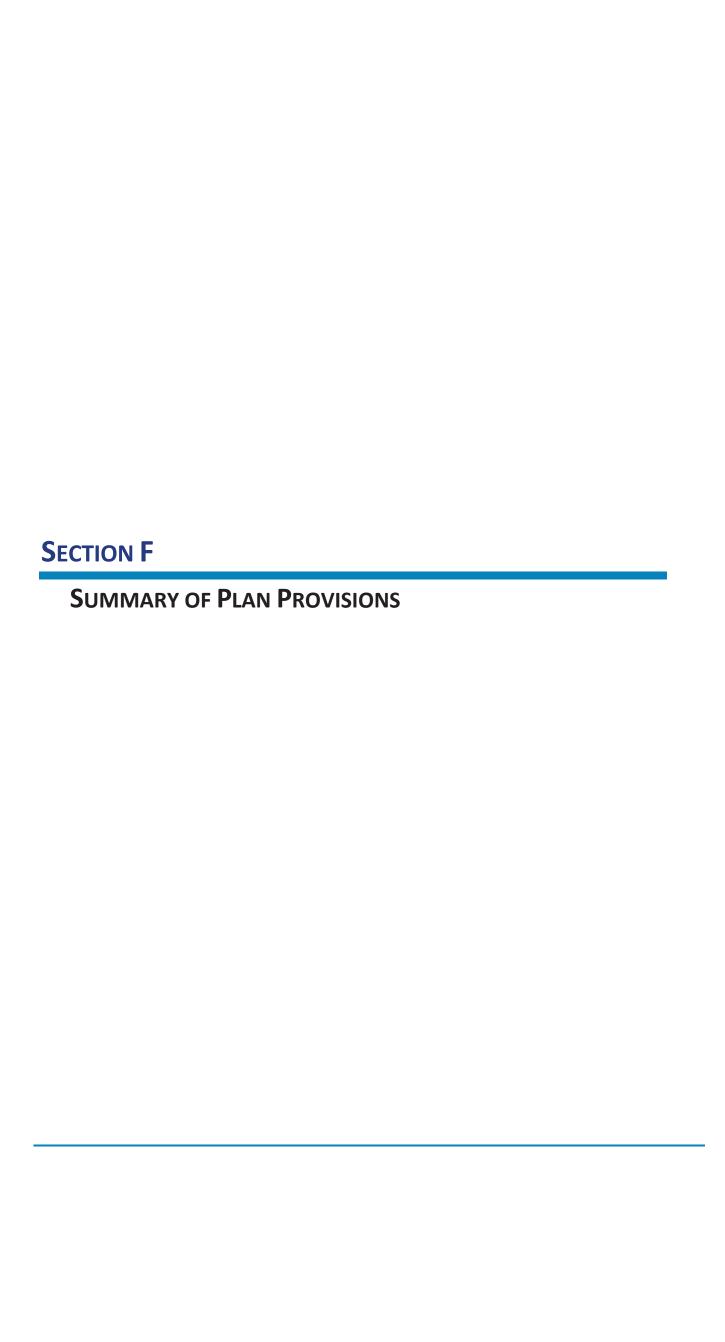
				Years o	f Service	to Valuatio	on Date				
Age Group	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25+	Totals
20-24 NO.	2	3	0	0	0	0	0	0	0	0	5
TOT PAY	105,778	182,074	0	0	0	0	0	0	0	0	287,852
AVG PAY	52,889	60,691	0	0	0	0	0	0	0	0	57,570
25-29 NO.	5	5	6	3	0	4	0	0	0	0	23
TOT PAY	264,446	291,535	367,171	193,950	0	299,180	0	0	0	0	1,416,282
AVG PAY	52,889	58,307	61,195	64,650	0	74,795	0	0	0	0	61,577
30-34 NO.	3	3	5	3	0	7	9	0	0	0	30
TOT PAY	158,667	180,857	312,496	199,693	0	592,066	831,958	0	0	0	2,275,737
AVG PAY	52,889	60,286	62,499	66,564	0	84,581	92,440	0	0	0	75,858
35-39 NO.	0	0	1	0	0	4	8	1	0	0	14
TOT PAY	0	0	62,278	0	0	354,651	768,711	104,297	0	0	1,289,937
AVG PAY	0	0	62,278	0	0	88,663	96,089	104,297	0	0	92,138
40-44 NO.	0	0	1	2	0	2	9	13	0	0	27
TOT PAY	0	0	60,963	195,980	0	163,252	805,776	1,467,113	0	0	2,693,084
AVG PAY	0	0	60,963	97,990	0	81,626	89,531	112,855	0	0	99,744
45-49 NO.	0	1	0	0	1	1	4	16	1	0	24
TOT PAY	0	60,434	0	0	65,756	66,793	328,300	1,645,851	93,309	0	2,260,443
AVG PAY	0	60,434	0	0	65,756	66,793	82,075	102,866	93,309	0	94,185
50-54 NO.	1	0	0	0	0	1	1	1	1	0	5
TOT PAY	162,187	0	0	0	0	74,652	72,701	107,236	129,374	0	546,150
AVG PAY	162,187	0	0	0	0	74,652	72,701	107,236	129,374	0	109,230
55-59 NO.	0	1	0	0	0	0	0	0	0	0	1
TOT PAY	0	113,236	0	0	0	0	0	0	0	0	113,236
AVG PAY	0	113,236	0	0	0	0	0	0	0	0	113,236
60-64 NO.	0	0	0	0	0	0	0	0	0	0	0
TOT PAY	0	0	0	0	0	0	0	0	0	0	0
AVG PAY	0	0	0	0	0	0	0	0	0	0	0
TOT NO.	11	13	13	8	1	19	31	31	2	0	129
TOT AMT	691,078	828,136	802,908	589,623				3,324,497	222,683	0	10,882,721
AVG AMT	62,825	63,703	61,762	73,703	65,756	81,610		107,242	111,342	0	84,362
A A O VIAIAI	02,023	03,703	01,702	73,703	05,750	01,010	30,303	107,242	111,342	U	04,30



INACTIVE PARTICIPANT SCATTER

	Terminated Vested						Decea	sed with
			Disabled		Retired		Beneficiary	
		Total		Total		Total		Total
Age Group	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-
30-34	3	83,154	-	-	-	-	-	-
35-39	13	330,292	-	-	-	-	-	-
40-44	2	41,077	-	-	3	214,240	-	-
45-49	4	174,890	2	98,634	12	921,305	1	53,739
50-54	2	29,200	-	-	28	1,661,783	1	23,843
55-59	-	-	2	43,710	31	1,763,917	-	-
60-64	-	-	4	78,738	20	803,477	1	34,254
65-69	-	-	3	85,776	13	561,268	-	-
70-74	-	-	2	29,120	10	375,377	1	9,397
75-79	-	-	1	13,354	6	166,434	-	-
80-84	-	-	-	-	2	79,329	-	-
85-89	-	-	-	-	-	-	-	-
90-94	-	-	-	-	-	-	-	-
95-99	-	-	-	-	-	-	-	-
100 & Over	-	-	-	-	-	-	-	-
Total	24	658,613	14	349,332	125	6,547,130	4	121,233
				•		•		•
Average Age		40		63	<u> </u>	59		58





SUMMARY OF PLAN PROVISIONS

A. Ordinances

Plan established under the Code of Ordinances for the City of Boynton Beach, Florida, Chapter 18, Article III, and was most recently amended under Ordinance No.18-006 passed and adopted on its second reading on May 15, 2018. The Plan is also governed by certain provisions of Chapter 185, Florida Statutes, Part VII, Chapter 112, Florida Statutes and the Internal Revenue Code.

B. Effective Date

August 15, 1981

C. Plan Year

October 1 through September 30

D. Type of Plan

Qualified, governmental defined benefit retirement plan; for GASB purposes it is a single employer plan.

E. Eligibility Requirements

All full-time police officers are eligible to participate on the first day of employment.

F. Credited Service

Service is measured as the aggregate numbers of years and fractional parts of years of service for which a police officer made Member Contributions to the plan. No service is credited for any periods of employment for which the member received a refund of their contributions.

G. Compensation

Total cash remuneration including up to 300 hours of overtime and lump sum payments for the lesser of the amount of sick and vacation leave accumulated as of June 18, 2013 or the amount cashed out at retirement, but exclusive of any payments for extra duty or special detail work.

H. Average Final Compensation (AFC)

The average of Compensation over the highest 5 years during the last 10 years of Credited Service.

I. Normal Retirement

Eligibility: A member may retire on the first day of the month coincident with or next

following the earliest of:

(1) age 55 and 10 years of Credited Service, or



(2) age 50 and 15 years of Credited Service, or (3) 20 years of Credited Service regardless of age.

Benefit: 3.5% of AFC multiplied by years of Credited Service for Members hired before

October 1, 2015. Benefit is limited to 100% of AFC and the provisions of Internal

Revenue Code Section 415.

All Members hired on or after October 1, 2015 receive 3.0% of AFC multiplied by years of Credited Service. Benefit is limited to 100% of AFC and the provisions of the

Internal Revenue Code Section 415.

Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.

COLA None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

J. Early Retirement

Eligibility: A member may elect to retire earlier than the Normal Retirement Eligibility upon

attainment of age 50 and 10 years of Credited Service.

Benefit: The Normal Retirement Benefit is reduced by 1.5% for each year by which the Early

Retirement date precedes the Normal Retirement date. For this purpose, the Normal Retirement date is the earlier of the date the member would have attained age 55 or completed 20 years of Credited Service had the member continued

employment as a police officer.

Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.

COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

K. Delayed Retirement

Same as Normal Retirement taking into account compensation earned and service credited until the date of actual retirement.

L. Service Connected Disability

Eligibility: Any member who becomes totally and permanently disabled and unable to render

useful and efficient service as a police officer as a result of an act occurring in the performance of service for the City is immediately eligible for a disability benefit.



Benefit: 66 2/3% of the member's basic rate of earnings in effect on the date of disability,

reduced by amounts payable under Worker's Compensation and Social Security PIA with a minimum benefit being the greater of the accrued Normal Retirement

benefit on the date of disability or 42% of AFC.

Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.

COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

M. Non-Service Connected Disability

Eligibility: Any member with 10 years of Credited Service who becomes totally and

permanently disabled and unable to render useful and efficient service as a police

officer is eligible for a disability benefit.

Benefit: The accrued Normal Retirement Benefit taking into account compensation earned

and service credited as of the date of disability with a minimum benefit equal to

25% of AFC and a maximum benefit equal to 60% of AFC.

Normal Form

of Benefit: 10 years Certain and Life thereafter; other options are also available.

COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

N. Death in the Line of Duty

Eligibility: Any member whose death is determined to be the result of a service incurred injury

is eligible for survivor benefits regardless of Credited Service.

Benefit: Spouse will receive the accrued Normal Retirement Benefit taking into account

compensation earned and service credited as of the date of death with a minimum benefit equal to 30% of AFC. If there is no spouse, benefits will be paid to the

deceased member's estate.

Normal Form

of Benefit: Paid until death of spouse.

COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.



O. Other Pre-Retirement Death

Eligibility: Members are eligible for survivor benefits after the completion of 10 or more years

of Credited Service.

Benefit: Spouse will receive the accrued Normal Retirement Benefit taking into account

compensation earned and service credited as of the date of death. If there is no

spouse, benefits will be paid to the deceased member's estate.

Normal Form

of Benefit: Paid until death or remarriage of spouse; or 10 years to the member's estate.

COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

The beneficiary of a plan member with less than 10 years of Credited Service at the time of death will receive a refund of the member's accumulated contributions.

P. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.

Q. Optional Forms

In lieu of electing the Normal Form of benefit, the optional forms of benefits available to all retirees are a Single Life Annuity, the 50%, 66 2/3%, 75% and 100% Contingent Annuitant options and the 50%, 66 2/3%, 75% and 100% Survivor Annuity options.

R. Vested Termination

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion

of 5 years of Credited Service (10 years of Credited Service if hired on or after October 1, 2016) if they elect to leave their accumulated contributions in the fund.

Benefit: The benefit is the member's accrued Normal Retirement Benefit as of the date of

termination.

For members with at least 5 years of Credited Service (10 years of Credited Service if hired on or after October 1, 2016), the benefit begins on the date that would have been the member's Normal Retirement date had they continued employment until attaining age 55 with 10 years of Credited Service or upon reaching what would have been 20 years of Credited Service. Alternatively, members with at least 10 years of Credited Service can elect a reduced Early Retirement benefit any time after age 50.

after age 50

Normal Form

of Benefit: 10 Years Certain and Life thereafter; other options are also available.



COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

Members terminating employment with less than 5 years (10 years of Credited Service if hired on or after October 1, 2016) of Credited Service will receive a refund of their own accumulated contributions.

S. Refunds

Eligibility: All members terminating employment with less than 5 years of Credited Service (10

years of Credited Service if hired on or after October 1, 2016) are eligible. Optionally, vested members (those with 5 or more years of Credited Service) may

elect a refund in lieu of the vested benefits otherwise due.

Benefit: Refund of the member's contributions.

T. Member Contributions

7% of Compensation

U. Employer Contributions

Chapter 185 Premium Tax Refunds and any additional amount determined by the actuary needed to fund the plan properly according to State laws.

V. Supplemental Benefit

All retirees and beneficiaries in pay status are entitled to a monthly supplemental pension benefit paid in a lump sum on October 1 of each year. The supplemental benefit is funded by a 1% of pay contribution from the members and a 1% of pay contribution from the Chapter 185 money. The benefit pool is divided according to the total number of shares of all eligible retirees on a pro-rata basis. The number of shares allotted to each eligible retiree is the sum of credited service at retirement (maximum of 20 years) and the number of years the participant has been retired (maximum of 20 years). An individual retiree's distribution is the number of shares multiplied by the share value. The benefit ceases upon the later of the death of the retired member or beneficiary.

W. Deferred Retirement Option Plan

Eligibility: Plan members who have less than 30 years of Credited Service but have met one of

the following criteria are eligible for the DROP:

(1) age 55 and 10 years of Credited Service, or

(2) age 50 and 15 years of Credited Service, or

(3) 20 years of Credited Service regardless of age.



Members who meet eligibility must submit a written election to participate in the DROP.

Benefit: The member's Cred

The member's Credited Service and FAC are frozen upon entry into the DROP. The monthly retirement benefit as described under Normal Retirement is calculated based upon the frozen Credited Service and FAC.

Maximum

DROP Period: The earlier of 5 years of participation in the DROP or 30 years of employment.

Interest

Credited: The member's DROP account is credited at an interest rate based upon the

option chosen by the member. Members must elect from 1 of the 3 following

options:

1. Gain or loss at the same rate earned by the Plan, or

2. Guaranteed rate of 7%, or

3. A percentage of the DROP credited at the same rate earned by the Plan and the remaining percentage credited with earnings at a guaranteed rate of 7%.

Normal Form

of Benefit: Options include a lump sum, equal annual payments over 5 years, or monthly

installments based upon actuarial tables until the balance is paid out.

COLA: None

Supplemental

Benefit: A supplemental benefit is paid each year. Please see Item V. for a full description.

X. Other Ancillary Benefits

There are no ancillary benefits not required by statutes but which might be deemed a City of Boynton Beach Municipal Police Officers' Retirement Fund liability if continued beyond the availability of funding by the current funding source.

Y. Changes Since Previous Valuation

The vesting requirement for Police Officers hired after October 1, 2016 was changed from completion of five years credited service to completion of ten years. The impact of that change was presented in the April 30, 2018 Actuarial Impact Statement.

