City of Largo Municipal Police Officers' and Firefighters' Retirement Plan

Actuarial Valuation Report as of October 1, 2017

Annual Employer Contribution for the Fiscal Year Ending September 30, 2019







March 26, 2018

Board of Trustees City of Largo Police Officers' and Firefighters' Retirement Plan Largo, Florida

Dear Board Members:

The results of the October 1, 2017 Annual Actuarial Valuation of the City of Largo Municipal Police Officers' and Firefighters' Retirement Plan are presented in this report.

The purpose of the valuation is to measure the Plan's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2019, 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, 2018. 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.

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 Plan only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The computed contribution rate shown on page 1 is best viewed as a minimum contribution rate that complies with the Board's funding policy. Users of this report should be aware that contributions made at that rate do not guarantee benefit security. Given the importance of benefit security to any retirement system, we suggest that contributions to the Plan in excess of those presented in the report be considered.

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 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 risks was outside the scope of this assignment. New Actuarial Standard of Practice (ASOP) Number 51, "Assessing and Disclosing Pension Risk", which was recently adopted in September 2017, encourages a review and assessment of investment and other significant risks that may have a material effect on the Plan's financial condition. A risk assessment based on numerical calculations is not required under this ASOP, but it may provide useful information and is recommended to be performed periodically.

The findings in this report are based on data or other information through September 30, 2017. 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; 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.

Board of Trustees City of Largo Police Officers' and Firefighters' Retirement Plan Page 2

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 valuation was based upon information furnished by the Plan Administrator and the City 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 and the City.

In addition, this report was prepared using certain assumptions approved by the Board and prescribed by the Florida Statutes as described in the section of this report entitled Actuarial Assumptions and Methods. The prescribed assumptions are the assumed mortality rates detailed in the Actuarial Assumptions and Methods section of this report, in accordance with Florida House Bill 1309 (codified in Chapter 2015-157).

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.

Melissa R. Moskovitz and Jeffrey Amrose are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries 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 & COMPANY

Melissa R. Moskovitz, EA, MAAA, FCA

Enrolled Actuary No. 17-6467

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Jeffrey Amrose, EA, MAAA Enrolled Actuary No. 17-6599



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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 year's actuarial valuation and the previous valuation is as follows:

	For FYE 9/30/2019 Based on 10/1/2017 Valuation	For FYE 9/30/2018 Based on 10/1/2016 Valuation	Increase (Decrease)
Required Employer/State Contribution As % of Covered Payroll	\$ 6,046,722	\$ 6,261,450	\$ (214,728)
	37.01 %	39.88 %	(2.87) %
Estimated State Contribution* As % of Covered Payroll	1,247,930	1,247,930	0
	7.64	7.95	(0.31)
Required Employer Contribution As % of Covered Payroll	4,798,792	5,013,520	(214,728)
	29.37	31.93	(2.56)

* Based on amount received in fiscal year ending 2017 of \$626,715 for police officers and \$621,215 for firefighters. If the actual State revenue received falls below these amounts, or if a portion of the State revenue is used to fund the Share Plan, the difference will need to be made up by the City.

The required employer contribution has been adjusted for interest on the basis that contributions are made in equal payments biweekly.

The contribution has also been computed under the assumption that the amount to be received from the State on behalf of police officers and firefighters in 2018 and 2019 will be \$1,247,930 (\$626,715 for police officers and \$621,215 for firefighters). The City may take credit for the full State revenue in fiscal years ending September 30, 2018 and 2019 (assuming the funded ratio as of October 1, 2018 is under 80%). If the actual State revenue received falls below these amounts, the difference will need to be made up by the City.

The actual employer and State contributions for the fiscal year ending September 30, 2017 were \$4,125,246 and \$1,247,930, respectively, for a total of \$5,373,176. The required contribution was \$5,373,176.

REVISIONS IN BENEFITS

There have been no revisions in benefits since the previous valuation.

REVISIONS IN ACTUARIAL ASSUMPTIONS OR METHODS

There have been no revisions in assumptions or methods since the previous valuation.



ACTUARIAL EXPERIENCE

There was a net actuarial gain of \$6,559,796 since the last valuation which means that actual experience was more favorable than expected. The gain was primarily due to higher than expected investment returns (11.9% actual versus 6.75% expected). There was also a small gain due to fewer retirements (7 actual versus 9 expected), more terminations (14 actual versus 11 expected), and lower salary increases (2.8% actual versus 4.2% expected) than expected. The net gain caused the required employer contribution to decrease by 2.71% of covered payroll.

ANALYSIS OF CHANGE IN EMPLOYER CONTRIBUTION

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

Contribution Rate Last Year	31.93 %
Assumption Changes	0.00
Experience (Gains) or Losses	(2.71)
Change in Employer Normal Cost Rate	(0.30)
Amortization of UAAL	0.14 *
State Contribution	0.31
Contribution Rate This Year	29.37 %

^{*} The payroll growth assumption for purposes of amortizing the UAAL decreased from 1.62%, to 1.45% due to the 10-year payroll growth cap pursuant to Chapter 112, Florida Statutes.

FUNDED RATIO

This year's funded ratio is 75.4% compared to 70.6% last year. The ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability. Since the funded ratio is less than 80%, all Premium Tax Revenue for the year will be used to offset the City's contribution requirements.

VARIABILITY OF FUTURE CONTRIBUTION RATES

The Actuarial Cost Method used to determine the contribution rate is intended to produce contribution rates which are generally level as a percent of payroll. Even so, when experience differs from the assumptions, as it often does, the employer's contribution rate can vary significantly from year-to-year.

Over time, if the year-to-year gains and losses offset each other, the contribution rate would be expected to return to the current level, but this does not always happen.

Another potential area of variability has to do with the annual payment on the unfunded accrued liability (UAL). This payment is computed as a level percent of covered payroll under the assumption that covered payroll will rise by 2.5% per year. According to Chapter 112, Florida Statutes, this payroll growth assumption may not exceed the average growth over the last ten years which was 1.45%. If the ten-year average falls below this rate next year, the amortization payments will increase. For example, if the payroll growth assumption is lowered to 0%, the UAL payment will increase from \$3,231,376 next year to \$3,604,654.



CONCLUSION

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



STATE CONTRIBUTION RESERVE

Increments in Chapter revenue over that received in 1998 must first be used to fund the cost of compliance with minimum benefits. As of the valuation date, there were no cost-related changes needed to be made to comply with minimum benefits.

Actuarial Confirmation of the Use of State Chapter Money					
	Police	Fire	Total		
Base Amount Previous Plan Year	\$ 612,474	\$ 574,903	\$ 1,187,377		
2. Amount Received for Previous Plan Year	626,715	621,215	1,247,930		
3. Benefit Improvements Made in Previous Plan Year	0	0	0		
4. Excess Funds for Previous Plan Year*	0	0	0		
5. Accumulated Excess at Beginning of Previous Year	0	0	0		
6. Prior Excess Used in Previous Plan Year	0	0	0		
7. Accumulated Excess as of Valuation Date (Available for Benefit Improvements): (5) - (6)	0	0	0		
8. Base Amount This Plan Year*	626,715	621,215	1,247,930		

^{*} Pursuant to Ordinance No. 2014-32, the employer may use all Chapter revenue to fund the contribution requirements for fiscal year ending September 30, 2017 since the funded ratio is less than 80%.

The Accumulated Excess shown in line 7 (if any) is being held in reserve and is subtracted from Plan assets (see Section C of this Report). The Base Amount in line 8 is the amount the employer may take as a credit against its required contribution. Refer to Section F (Summary of Plan Provisions) for details on the amount of State revenue that may be used as a credit against the required contribution.



SECTION B

VALUATION RESULTS

Oc	tober 1, 2017	Oct	tober 1, 2016	
			.ODEI 1, 2010	
	253		241	
\$	15,862,211	\$	15,243,424	
\$	62,696	\$	63,251	
	38.8		39.3	
	10.1		10.4	
	28.7		28.9	
	205		198	
\$		\$		
\$			38,892	
·	61.9		61.7	
	19		19	
\$	420,461	\$	420,461	
\$	22,130	\$	22,130	
	60.9		59.9	
TERMINATED VESTED MEMBERS				
	17		15	
\$		\$	371,544	
		\$	24,770	
7	42.4	Ŧ	43.3	
	\$	\$ 15,862,211 \$ 62,696 38.8 10.1 28.7 205 \$ 8,145,117 \$ 39,732 61.9 \$ 420,461 \$ 22,130 60.9 17 \$ 367,965 \$ 21,645	\$ 15,862,211 \$ \$ 62,696 \$ 38.8 10.1 28.7 \$ 205 \$ 8,145,117 \$ \$ 39,732 61.9 \$ 420,461 \$ \$ 22,130 \$ 60.9 \$ \$ 21,645 \$ \$	



	ACTUARIALLY DETERMINED CONTRIBUTION (ADC)				
A.	Valuation Date	October 1, 2017	October 1, 2016		
В.	ADC to Be Paid During Fiscal Year Ending	9/30/2019	9/30/2018		
C.	Assumed Dates of Employer Contributions	Biweekly	Biweekly		
D.	Annual Payment to Amortize Unfunded Actuarial Liability	\$ 3,231,376	\$ 3,484,373		
E.	Employer Normal Cost	2,447,090	2,396,475		
F.	ADC if Paid on the Valuation Date: D+E	5,678,466	5,880,848		
G.	ADC Adjusted for Frequency of Payments	5,870,114	6,079,327		
Н.	ADC as % of Covered Payroll	37.01 %	39.88 %		
I.	Assumed Rate of Increase in Covered Payroll to Contribution Year	3.00 %	3.00 %		
J.	Covered Payroll as of Contribution Date	16,338,077	15,700,727		
K.	ADC for Contribution Year: H x J	6,046,722	6,261,450		
L.	Estimate of State Revenue in Contribution Year*	1,247,930	1,247,930		
М.	Required Employer Contribution (REC) in Contribution Year	4,798,792	5,013,520		
N.	REC as % of Covered Payroll in Contribution Year: M ÷ J	29.37 %	31.93 %		

^{*}Based on amount received in fiscal year ending 2017 of \$626,715 for police officers and \$621,215 for firefighters. If the actual State revenue received falls below these amounts, or if a portion of the State revenue is used to fund the Share Plan, the difference may need to be made up by the City.



ACTUARIAL VALUE OF BENEFITS AND ASSETS				
A.	Valuation Date	October 1, 2017	October 1, 2016	
В.	Actuarial Present Value of All Projected Benefits for 1. Active Members			
	a. Service Retirement Benefits	\$ 80,589,575	\$ 78,689,680	
	b. Vesting Benefits	5,101,233	5,064,058	
	c. Disability Benefits	4,233,405	4,147,896	
	d. Preretirement Death Benefits	1,303,314	1,289,594	
	e. Return of Member Contributions	497,750	416,903	
		91,725,277		
	f. Total	91,725,277	89,608,131	
	2. Inactive Members			
	a. Service Retirees & Beneficiaries	97,533,614	92,350,199	
	b. Disability Retirees	4,100,751	4,165,262	
	c. Terminated Vested Members	3,331,840	3,651,420	
	d. Total	104,966,205	100,166,881	
	a. rota.	10 1,300,203	100)100,001	
	3. Total for All Members	196,691,482	189,775,012	
C.	Actuarial Accrued (Past Service) Liability per Entry Age Normal Method	168,692,315	162,363,949	
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	154,942,693	146,990,090	
E.	Plan Assets			
L.	1. Market Value	127,260,874	114,633,342	
	Actuarial Value	127,260,874	114,633,342	
	2. Actuariai value	127,200,074	114,033,342	
F.	Unfunded Actuarial Accrued Liability (EAN Method): C - E2	41,431,441	47,730,607	
G.	Funded Ratio: E2 / C	75.4%	70.6%	
Н.	Actuarial Present Value of Projected Covered Payroll	126,408,618	121,561,138	
l.	Actuarial Present Value of Projected Member Contributions	10,112,690	9,724,891	
J.	Accumulated Contributions of Active Members	8,123,819	7,632,507	



	CALCULATION OF EMPLOYER NORMAL COST				
Α.	Valuation Date	October 1, 2017 October 1, 2016			
В.	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 	\$ 2,701,155 322,899 313,153 333,990 79,426 134,062 3,571,532 \$\frac{129,001}{3,474,609}\$ \$\frac{144,535}{3,716,067}\$ \$\frac{141,340}{3,615,949}\$			
C.	Expected Member Contribution	1,268,977 1,219,474			
D.	Employer Normal Cost: B8-C	2,447,090 2,396,475			
E.	Employer Normal Cost as a % of Covered Payroll	15.43% 15.72%			



DERIVATION OF CURRENT UAAL				
1.	Last Year's UAAL	\$	47,730,607	
2.	Employer Normal Cost in Previous Year		2,396,475	
3.	Last Year's Contributions		5,373,176	
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b	-	3,383,578 146,247 3,237,331	
5.	This Year's Expected UAAL Prior to Revision: 1 + 2 - 3 + 4c		47,991,237	
6.	Change in UAAL Due to Plan Amendments and/or Changes in Actuarial Assumptions/Methods		0	
7.	This Year's Expected UAAL: 5 + 6		47,991,237	
8.	This Year's Actual UAAL		41,431,441	
9.	This Year's Gain (Loss): 7 - 8		6,559,796	
10.	Gain (Loss) due to Investments		6,531,070	
11.	Gain (Loss) due to Other Causes		28,726	



LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

UAAL AMORTIZATION PERIOD AND PAYMENTS						
	Original UAAL				Current UAAL	
Years	Source	Amortization Period (Years)	Amount	Years Remaining	Amount	Payment
10/1/2003		30	\$ 5,858,728	16	\$ 6,698,613	\$ 596,806
	(Gain)/Loss	30	2,118,869	17	2,321,856	199,013
	Method Change	30	(1,272,715)	17	(1,394,644)	(119,539)
	(Gain)/Loss	30	(1,042,295)	18	(1,157,496)	(95,759)
	(Gain)/Loss	30	834,799	19	951,827	76,223
	(Gain)/Loss	30	(4,296,887)	20	(4,887,658)	(379,846)
	Assumption Changes	30	9,156,710	20	10,415,654	809,456
	(Gain)/Loss	30	19,638,389	21	21,034,235	1,590,055
	Plan Change	30 30	72,734	21 22	77,905	5,889
	(Gain)/Loss	30	6,723,070	22	6,852,872	504,933
	Plan Change (Gain)/Loss	30	231,112	22	235,572	17,357
	Assumption Changes	30	132,188	23	131,393	9,454
	(Gain)/Loss	30	4,966,741 5,934,769	23	4,936,884 6,053,544	355,222 426,066
	(Gain)/Loss	30	(10,095,570)	25	(10,109,532)	(697,085)
	Plan Change	30	133,568	25	133,752	9,223
	(Gain)/Loss	30	(8,842,615)	26	(8,831,995)	(597,461)
	(Gain)/Loss	30	(2,592,536)	27	(2,614,821)	(173,758)
	(Gain)/Loss	30	7,732,410	28	7,962,239	520,358
	(Gain)/Loss	30	265,168	29	269,703	17,353
	Assumption Changes	30	8,761,480	29	8,911,334	573,379
10/1/2017	(Gain)/Loss	30	(6,559,796)	30	(6,559,796)	(415,963)
_3, _, _01,			37,858,321		41,431,441	3,231,376

The UAAL is being amortized as a level percent of payroll. The expected amortization schedule is as follows:

AMORTIZATION SCHEDULE				
Year	Expected UAAL			
2017 2018 2019 2020 2021 2022 2027 2032 2037 2042	\$ 41,431,441 40,778,544 40,031,585 39,183,462 38,226,613 37,152,951 29,708,314 17,761,628 3,257,983 1,229,542			
2047	0			



ACTUARIAL GAINS AND LOSSES

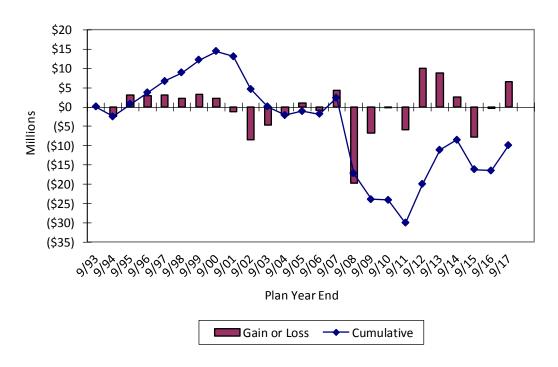
The assumptions used to anticipate mortality, employment turnover, investment income, expenses, salary increases, and other factors have been based on long range trends and expectations. Actual experience can vary from these expectations. If significant long term experience reveals consistent deviation from what has been expected and that deviation is expected to continue, the assumptions should be modified.

Net actuarial gains in previous years have been as follows:

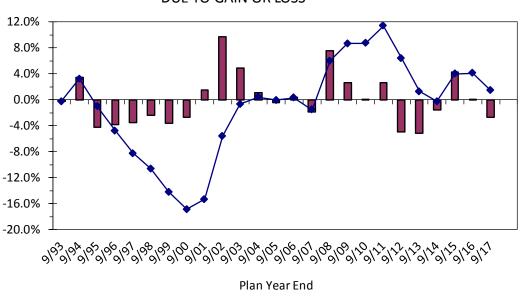
Year Ending 9/30	Change in Contribution Rate	Net Gain (Loss)
1993	(0.25) %	\$ 16,599
1994	3.49	(2,436,222)
1995	(4.23)	3,138,520
1996	(3.78)	2,926,631
1997	(3.46)	3,062,491
1998	(2.38)	2,185,878
1999	(3.57)	3,290,722
2000	(2.66)	2,231,200
2001	1.50	(1,269,020)
2002	9.75	(8,492,245)
2003	4.96	(4,617,928)
2004	1.07	(2,118,869)
2005	(0.47)	1,042,295
2006	0.36	(834,799)
2007	(1.86)	4,296,887
2008	7.56	(19,638,389)
2009	2.66	(6,723,070)
2010	0.05	(132,188)
2011	2.65	(5,934,769)
2012	(4.97)	10,095,570
2013	(5.14)	8,842,615
2014	(1.52)	2,592,536
2015	4.25	(7,732,410)
2016	0.12	(265,168)
2017	(2.71)	6,559,796

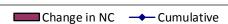


ACTUARIAL GAIN (+) OR LOSS (-)



CHANGE IN EMPLOYER COST RATE DUE TO GAIN OR LOSS







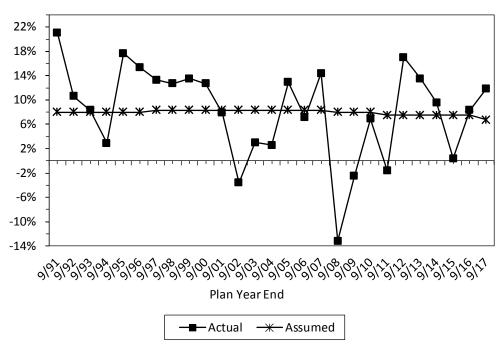
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

	Investment	Return	Salary In	creases
Year Ending	Actual	Assumed	Actual	Assumed
9/30/1991	21.0 %	8.00 %	7.2 %	6.50 %
9/30/1992	10.6	8.00	7.8	6.50
9/30/1993	8.3	8.00	5.0	6.50
9/30/1994	2.9	8.00	11.0	6.00
9/30/1995	17.7	8.00	2.3	6.00
9/30/1996	15.4	8.00	5.6	6.00
9/30/1997	13.3	8.33	5.1	6.00
9/30/1998	12.7	8.33	5.5	6.00
9/30/1999	13.5	8.33	4.5	6.00
9/30/2000	12.7	8.33	6.8	6.00
9/30/2001	7.9	8.33	10.5	6.00
9/30/2002	(3.6)	8.33	6.7	6.00
9/30/2003	3.0	8.33	7.8	6.00
9/30/2004	2.6	8.33	4.4	6.00
9/30/2005	12.9	8.33	9.7	6.00
9/30/2006	7.1	8.33	6.6	6.00
9/30/2007	14.4	8.33	7.9	6.00
9/30/2008	(13.2)	8.00	7.9	7.36
9/30/2009	(2.5)	8.00	4.9	7.41
9/30/2010	6.9	8.00	3.7	7.45
9/30/2011	(1.6)	7.50	2.2	5.00
9/30/2012	17.0	7.50	1.1	5.00
9/30/2013	13.5	7.50	0.5	5.00
9/30/2014	9.6	7.50	4.4	5.00
9/30/2015	0.4	7.50	5.4	5.00
9/30/2016	8.3	7.50	8.8	5.00
9/30/2017	11.9	6.75	2.8	4.21
Averages	8.0	N/A	5.7	N/A

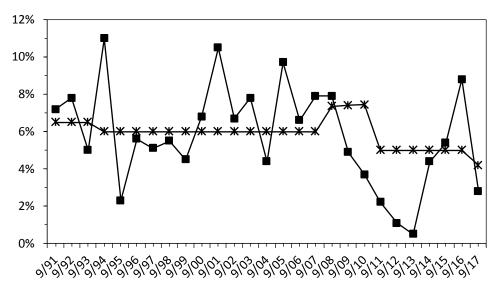
The actual investment return rates shown above are based on the actuarial value of assets. The actual salary increase rates shown above are the increases received by those active members who were included in the actuarial valuations both at the beginning and the end of each year.



HISTORY OF INVESTMENT RETURN BASED ON ACTUARIAL VALUE OF ASSETS



HISTORY OF SALARY INCREASES









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

Year	Add	ring	Servi DR Retire	ОР		bility ement	De	ath	Vested	Termin Other		als	Active Members End of
Ended	Α	E	Α	E	Α	E	Α	E	Α	Α	Α	E	Year
9/30/2002	21	21	3	7	0	1	0	0	3	15	18	8	236
9/30/2003	25	20	7	5	1	1	0	0	2	10	12	7	241
9/30/2004	32	22	3	7	0	1	0	0	4	15	19	7	251
9/30/2005	22	19	8	11	0	1	1	0	1	9	10	8	254
9/30/2006	27	26	10	14	0	1	0	0	2	14	16	8	255
9/30/2007	19	22	5	13	0	1	0	0	1	16	17	8	252
9/30/2008	19	16	5	21	1	1	0	0	1	9	10	15	255
9/30/2009	5	19	13	21	0	1	1	0	2	3	5	15	241
9/30/2010	22	22	17	17	0	1	0	0	1	4	5	12	241
9/30/2011	7	20	11	12	0	1	0	0	3	6	9	14	228
9/30/2012	11	14	8	11	1	1	0	0	0	5	5	12	225
9/30/2013	16	22	10	9	0	1	0	0	3	9	12	11	219
9/30/2014	17	19	9	7	1	1	0	0	2	7	9	11	217
9/30/2015	18	9	2	5	0	1	1	0	2	4	6	11	226
9/30/2016	24	9	3	8	0	1	0	0	3	3	6	12	241
9/30/2017	33	21	7	9	0	1	0	0	4	10	14	11	253
9/30/2018				11		1		0				13	
16 Yr Totals *	318	301	121	177	4	16	3	0	34	139	173	170	

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



RECENT HISTORY OF VALUATION RESULTS

	Numb	oer of		Actuarial	Unfunded		
Valuation	Active	Inactive	Covered	Value of	Actuarial	Employer	Normal Cost
Date	Members	Members	Annual Payroll	Assets	Liability	Amount	% of Payroll
10/1/1992	227	33	\$6,842,937	\$23,977,776	\$(3,748,343)	\$1,148,443	16.78 %
10/1/1993	224	35	7,539,018	26,776,264	0	966,172	12.82
10/1/1994	230	48	8,193,573	28,396,221	0	1,323,230	16.15
10/1/1995	243	57	8,510,098	34,145,027	0	1,335,480	15.69
10/1/1996	240	71	8,599,843	38,325,573	0	849,024	9.87
10/1/1997	249	78	0.016.720	44 202 506	0	E63.006	6.26
			9,016,720	44,203,596	0	563,996	
10/1/1998	253	84	9,431,360	49,629,025	0	356,137	3.78
10/1/1999	248	96	9,416,426	55,837,398	0	22,013	0.23
10/1/2000	249	100	9,989,645	62,394,934	0	465,540	4.66
10/1/2001	236	111	10,014,078	66,233,988	0	770,640	7.70
10/1/2002	236	117	10,577,345	62,271,752	0	1,836,237	17.36
10/1/2003	241	125	11,291,527	62,389,893	5,858,728	1,779,324	15.76
10/1/2004	251	132	11,653,693	64,127,507	7,110,056	1,844,426	15.83
10/1/2005	254	141	12,529,043	72,556,721	6,116,101	1,985,344	15.85
10/1/2006	255	153	12,974,773	77,610,753	6,886,070	2,059,657	15.87
10/1/2007	252	157	13,734,013	88,514,589	11,847,272	2,589,963	18.86
10/1/2008	255	159	14,759,177	75,432,887	32,424,152	2,814,421	19.07
10/1/2009	241	173	14,378,470	72,605,836	41,346,158	2,723,886	18.94
10/1/2010	241	191	14,215,052	77,602,424	47,783,116	2,338,824	16.45
10/1/2011	228	204	13,458,669	77,099,070	52,692,372	2,226,503	16.54
10/1/2012	225	210	13,224,720	90,132,758	43,804,890	2,097,057	15.86
10/1/2013	219	218	12,623,764	101,647,204	34,987,733	1,824,775	14.46
10/1/2014	217	227	12,732,998	109,704,649	31,843,372	1,702,326	13.37
10/1/2015	226	229	13,659,795	107,652,607	38,618,218	1,836,651	13.45
10/1/2016	241	232	15,243,424	114,633,342	47,730,607	2,396,475	15.72
10/1/2017	253	241	15,862,211	127,260,874	41,431,441	2,447,090	15.43



RECENT HISTORY OF UAAL AND FUNDED RATIO

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) - Entry Age (b)	Unfunded AAL (UAAL) - Entry Age (b) - (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL As % of Covered Payroll (b-a)/(c)
10/1/1992	\$ 23,977,776	\$ 20,229,433	\$ (3,748,343)	118.5 %	\$ 6,842,937	(54.8) %
10/1/1993	26,803,826	27,627,745	823,919	97.0	7,539,018	10.9
10/1/1994	28,396,221	31,884,418	3,488,197	89.1	8,193,573	42.6
10/1/1995	34,145,027	36,282,610	2,137,583	94.1	8,510,098	25.1
10/1/1996	38,325,573	36,802,353	(1,523,220)	104.1	8,599,843	(17.7)
10/1/1997	44,203,596	39,531,142	(4,672,454)	111.8	9,016,720	(51.8)
10/1/1998	49,629,025	42,591,070	(7,037,955)	116.5	9,431,360	(74.6)
10/1/1999	55,837,398	45,503,739	(10,333,659)	122.7	9,416,426	(109.7)
10/1/2000	62,394,934	53,111,211	(9,283,723)	117.5	9,989,645	(92.9)
10/1/2001	66,233,988	59,244,836	(6,989,152)	111.8	10,014,078	(69.8)
10/1/2002	62,271,752	63,551,789	1,280,037	98.0	10,577,345	12.1
10/1/2003	62,389,893	68,248,621	5,858,728	91.4	11,291,527	51.9
10/1/2004	64,127,507	71,237,563	7,110,056	90.0	11,653,693	61.0
10/1/2005	72,556,721	78,672,822	6,116,101	92.2	12,529,043	48.8
10/1/2006	77,610,753	84,496,823	6,886,070	91.9	12,974,773	53.1
10/1/2007	88,514,589	100,361,861	11,847,272	88.2	13,734,013	86.3
10/1/2008	75,432,887	107,857,039	32,424,152	69.9	14,759,177	219.7
10/1/2009	72,605,836	113,951,994	41,346,158	63.7	14,378,470	287.6
10/1/2010	77,602,424	125,385,540	47,783,116	61.9	14,215,052	336.1
10/1/2011	77,099,070	129,791,442	52,692,372	59.4	13,458,669	391.5
10/1/2012	90,132,758	133,937,648	43,804,890	67.3	13,224,720	331.2
10/1/2013	101,647,204	136,634,937	34,987,733	74.4	12,623,764	277.2
10/1/2014	109,704,649	141,548,021	31,843,372	77.5	12,732,998	250.1
10/1/2015	107,652,607	146,270,825	38,618,218	73.6	13,659,795	282.7
10/1/2016	114,633,342	162,363,949	47,730,607	70.6	15,243,424	313.1
10/1/2017	127,260,874	168,692,315	41,431,441	75.4	15,862,211	261.2



RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS

	End of			Required Cont	tributions					
	Year To	Employer	& State	Estimated	State	Net Emp	oloyer	Actual Contributions		
Valuation	Which Valuation Applies	Amount	% of Payroll	Amount	% of Payroll	Amount	% of Payroll	Employer	State	Total
10/1/1992 10/1/1993 10/1/1993	9/30/1993 9/30/1994 9/30/1995	\$858,866 1,004,819 1,085,204	12.55 % 13.33 14.40	\$465,000 495,364 560,105	6.80 % 6.57 7.43	\$393,866 509,455 525,099	5.76 % 6.76 6.97	\$408,469 496,855 532,169	\$495,364 507,964 560,105	\$903,833 1,004,819 1,092,274
10/1/1994 10/1/1995	9/30/1996 9/30/1997	1,486,252 1,500,011	18.14 17.63	560,105 560,105	6.84 6.59	926,147 939,906	11.30 11.04	951,919 959,487	641,598 692,298	1,593,517 1,651,785
10/1/1996 10/1/1997 10/1/1998 10/1/1999 10/1/2000	9/30/1998 9/30/1999 9/30/2000 9/30/2001 9/30/2002	958,056 636,425 401,873 24,840 652,444	11.14 7.06 4.26 0.26 6.28	641,598 692,298 699,273 697,984 721,707	7.46 7.68 7.41 7.41 6.95	316,458 0 0 0	3.68 0.00 0.00 0.00 0.00	321,864 275,599 287,929 134,348	699,273 721,301 728,001 713,714 733,861	1,021,137 996,900 1,015,930 848,062 733,861
10/1/2001 10/1/2002 10/1/2003 10/1/2004 10/1/2005	9/30/2003 9/30/2004 9/30/2005 9/30/2006 9/30/2007	835,254 1,988,879 2,286,399 2,440,936 2,543,496	8.02 18.08 19.47 20.14 19.52	710,278 733,861 733,861 733,861 733,861	6.82 6.67 6.25 6.06 5.63	124,976 1,255,018 1,552,538 1,707,075 1,809,635	1.20 11.41 13.22 14.08 13.89	124,485 1,277,657 1,660,804 1,762,982 1,809,660	733,861 733,861 733,861 733,861 735,681	858,346 2,011,518 2,394,665 2,496,843 2,545,341
10/1/2006 10/1/2007 10/1/2008 10/1/2009 10/1/2010	9/30/2008 9/30/2009 9/30/2010 9/30/2011 9/30/2012	2,675,813 3,535,135 5,013,161 5,487,975 5,606,232	19.83 24.75 32.66 36.70 38.29	733,861 735,681 735,681 758,112 758,112	5.44 5.15 4.79 5.07 5.18	1,941,952 2,799,454 4,277,480 4,729,863 4,848,120	14.39 19.60 27.87 31.63 33.11	2,047,686 2,800,024 3,985,628 4,275,526 4,345,474	735,681 735,681 758,112 758,112 758,112	2,783,367 3,535,705 4,743,740 5,033,638 5,103,586
10/1/2011 10/1/2012 10/1/2013 10/1/2014 10/1/2015 10/1/2016 10/1/2017	9/30/2013 9/30/2014 9/30/2015 9/30/2016 9/30/2017 9/30/2018 9/30/2019	5,848,559 5,454,033 4,908,435 4,647,952 5,373,176 6,261,450 6,046,722	42.19 40.04 37.75 35.44 38.19 39.88 37.01	758,112 1,154,739 1,170,897 1,177,757 1,187,377 1,247,930 1,247,930	5.47 8.48 9.01 8.98 8.44 7.95 7.64	5,090,447 4,299,294 3,737,538 3,470,195 4,185,799 5,013,520 4,798,792	36.72 31.56 28.74 26.46 29.75 31.93 29.37	4,195,013 3,816,408 3,847,225 3,460,575 4,125,246	1,154,739 1,170,897 1,177,757 1,187,377 1,247,930	5,349,752 4,987,305 5,024,982 4,647,952 5,373,176



ACTUARIAL ASSUMPTIONS AND METHODS

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 is equal to Market Value.

Valuation Assumptions

The actuarial assumptions used in the valuation are shown in this Section. The decrement assumptions were established following the Experience Study Report dated August 15, 2016.

Economic Assumptions

The investment return rate assumed in the valuation is 6.75% per year, compounded annually (net after investment expenses).

The *Inflation Rate* assumed in this valuation is 2.50% per year. The Inflation Rate is defined to be the long-term rate of annual increases in goods and services.

The assumed *real rate of return* over inflation is defined to be the portion of total investment return that is more than the assumed inflation rate. Considering other economic assumptions, the 6.75% investment return rate translates to an assumed real rate of return over inflation of 4.25%.

The active member population is assumed to remain constant. For purposes of financing the unfunded liabilities, total payroll is assumed to grow at 2.5% per year. Pursuant to Florida Statutes, this assumption cannot exceed the most recent ten year average of actual salary increases, which is 1.45% this year.

The payroll growth assumption used to project total covered payroll to the following fiscal year is 3.0% per year.



The rate of salary increase for individual active members is shown in the table below. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

Salary Increases for Active Members

	Assumed	Assumed	Total Assumed
Age	Inflation Increase	Merit Increase	Salary Increase
Less than 25	2.50%	3.25%	5.75%
25-39	2.50%	2.00%	4.50%
40-49	2.50%	1.50%	4.00%
50+	2.50%	1.25%	3.75%

Demographic Assumptions

The mortality table is 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 mandated by Florida House Bill 1309.

FRS Healthy Post-Retirement Mortality for Special Risk Class Members

Sample	Probability of		Future	_
Attained	Dying Nex	rt Year	Expectancy	/ (years)
Ages (in 2017)	Men	Women	Men	Women
 50	0.54 %	0.23 %	33.90	38.31
55	0.67	0.32	29.26	33.29
60	0.90	0.47	24.68	28.39
65	1.31	0.74	20.28	23.65
70	2.01	1.24	16.15	19.19
75	3.26	2.09	12.43	15.11
80	5.37	3.51	9.23	11.49

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	Probability of		Future	Life
Attained	Dying Nex	ct Year	Expectancy	y (years)
Ages (in 2017)	Men	Women	Men	Women
50	0.23 %	0.15 %	34.89	38.66
55	0.39	0.24	29.77	33.51
60	0.71	0.39	24.89	28.49
65	1.23	0.70	20.33	23.67
70	2.01	1.24	16.15	19.19
75	3.26	2.09	12.43	15.11
80	5.37	3.51	9.23	11.49



This assumption is used to measure the probabilities of active members dying prior to retirement. For disabled retirees, the mortality table used was 60% of the RP-2000 for Disabled Annuitants and 40% of the RP2000 Annuitant Mortality Table with a White Collar adjustment, set back 4 years for males and set forward 2 years for females, 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 mandated by Florida House Bill 1309.

FRS Disabled Mortality for Special Risk Class Members

Sample	Probabil	•	Future	
Attained	Dying Nex	kt Year	Expectano	y (years)
Ages (in 2017)	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 during the next year were as follows:

Annual Rate of Retirement for Those Eligible for Normal Retirement

Membe	rs Hired Before	October 1, 2013	Members	Hired On and A	fter October 1, 2013
Years of		Probability of	Years of		Probability of
Service	Age	Normal Retirement	Service	Age	Normal Retirement
10 - 22	55 - 61	40%	10 - 24	55 - 61	40%
	Under 51	40%		Under 51	40%
23	51 - 54	60%	25	51 - 54	60%
	55 & Over	100%		55 & Over	100%
24 25	Under 55	30%	26 27	Under 55	30%
24 - 25	55 & Over	100%	26 - 27	55 & Over	100%
20	Under 55	60%	20	Under 55	60%
26	55 & Over	100%	28	55 & Over	100%
27 & Over	All	100%	29 & Over	All	100%

Note: If age 62 or older, the probability of retirement is 100%.

Note: If age 62 or older, the probability of retirement is 100%.

Annual Rate of Retirement for Those Eligible for Early Retirement

Year of	Probability of
Eligibility	Early Retirement
1	5 %
2	10
3	10
4	10
5	10



Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

Years of	% of Active Members
Service	Separating Within Next Year
Less than 1	20.0%
1	10.0%
2	9.0%
3	7.5%
4	6.5%
5	5.5%
6-7	5.0%
8-9	3.0%
10-14	2.5%
15 & Over	1.6%

Rates of disability among active members (75% of disabilities are assumed to be service-connected).

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

Changes from Previous Valuation:

None



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.

For rested 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.

> 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.

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 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.

Service Credit Accruals It is assumed that members accrue one year of service credit per

year.



GLOSSARY OF TERMS

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 No. 67.

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 required contribution (ARC).



Actuarially Determined Contribution (ADC)

The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ARC 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 ARC 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. 67 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. 67 sets accounting rules

for the public retirement systems.

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.

Unfunded Actuarial Accrued

Liability

The difference between the Actuarial Accrued Liability and Actuarial

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.



SECTION C

PENSION FUND INFORMATION

Statement of Plan Assets at Market Value

		Septem	ber 30)	
Item		2017	2016		
A. Cash and Cash Equivalents (Operating Cash)	\$	-	\$	-	
B. Receivables:					
1. Member Contributions	\$	-	\$	68,608	
2. Employer Contributions		-		-	
3. State Contributions		-		19,256	
4. Investment Income and Other Receivables		-		-	
5. Prepaid Expenses					
6. Total Receivables	\$	-	\$	87,864	
C. Investments					
1. Short Term Investments	\$	8,181,792	\$	4,564,102	
2. Domestic Equities	5	8,640,562		59,009,106	
3. International Equities	2	24,580,947		18,013,702	
4. Domestic Fixed Income	2	24,533,810		22,399,859	
5. International Fixed Income		-		-	
6. Real Estate	1	11,324,791		10,604,634	
7. Private Equity		-		-	
8. ICMA & VOYA Accounts (for DROP)		9,148,219		9,300,837	
9. Share Plan Account		3,497,985		3,419,847	
10. Total Investments	\$ 13	39,908,106	\$ 1	.27,312,087	
D. Liabilities					
1. Benefits Payable	\$	-	\$	-	
2. Prepaid City Contribution		(1,028)		(45,925)	
3. Accrued Expenses and Other Payables		-		-	
4. Total Liabilities	\$	(1,028)	\$	(45,925)	
E. Total Market Value of Assets Available for Benefits	\$ 139,907,078		\$ 1	.27,354,026	
F. Reserves					
1. State Contribution Reserve	\$	-	\$	-	
2. Share Plan Balance	(3,497,985)		(3,419,847)		
3. DROP Accounts	(9,148,219)		(9,300,837)		
4. Total Reserves	\$ (1	12,646,204)	\$ (12,720,684)	
G. Market Value Net of Reserves	\$ 12	27,260,874	\$ 1	.14,633,342	
H. Allocation of Investments					
1. Short Term Investments		5.8%		3.6%	
2. Domestic Equities		42.0%		46.4%	
3. International Equities		17.6%		14.1%	
4. Domestic Fixed Income		17.5%		17.6%	
5. International Fixed Income		0.0%		0.0%	
6. Real Estate		8.1%		8.3%	
7. Private Equity		0.0%		0.0%	
8. ICMA Account (for DROP)		6.5%		7.3%	
9. Share Plan Account	-	2.5%		2.7%	
10. Total Investments		100.0%		100.0%	



Reconciliation of Plan Assets

		September 30				
	Item		2017		2016	
A.	Market Value of Assets at Beginning of Year	\$	127,354,026	\$	121,233,244	
В.	Revenues and Expenditures					
	1. Contributions					
	a. Employee Contributions	\$	1,233,500	\$	1,183,955	
	b. Employer Contributions		4,125,246		3,460,575	
	c. State Contributions		1,247,930		1,187,377	
	d. Purchased Service Credit		38,618		23,862	
	e. Other Income		-		-	
	f. Total	\$	6,645,294	\$	5,855,769	
	2. Investment Income					
	a. Interest and Dividends	\$	2,307,564	\$	2,230,673	
	b. Net Realized/Unrealized Gains/(Losses)*		12,874,566		7,788,726	
	c. Investment Earnings on DROP and Share Plan Accounts		455,741		410,121	
	d. Investment Expenses		(594,454)		(552,489)	
	e. Net Investment Income	\$	15,043,417	\$	9,877,031	
	3. Benefits and Refunds					
	a. Regular Monthly Benefits	\$	(6,973,536)	\$	(6,302,617)	
	b. Refunds		(33,559)		(118,729)	
	c. Lump Sum Benefits		-		-	
	d. DROP Disbursements		(1,757,558)		(2,817,992)	
	e. Share Plan Disbursements		(216,071)		(238,546)	
	f. Total	\$	(8,980,724)	\$	(9,477,884)	
	4. Administrative and Miscellaneous Expenses	\$	(154,935)	\$	(134,134)	
	5. Transfers	\$	-	\$	-	
C.	Market Value of Assets at End of Year	\$	139,907,078	\$	127,354,026	
D.	Reserves					
	1. State Contribution Reserve	\$	_	\$	-	
	2. Share Plan Balance		(3,497,985)		(3,419,847)	
	3. DROP Accounts		(9,148,219)		(9,300,837)	
	4. Total Reserves	\$	(12,646,204)	\$	(12,720,684)	
Ε.	Market Value Net of Reserves	\$	127,260,874	\$	114,633,342	

^{*} We were not provided with the breakdown of this amount between realized gains/(losses) and unrealized gains/(losses).



Reconciliation of DROP Accounts

Year Ended 9/30	Balance at Beginning of Year	Credits	Interest	Distributions	Adjustment	Balance at End of Year
2010	\$ 3,408,577	\$ 1,240,722	\$ 111,479	\$ (1,020,089)	\$ -	\$ 3,740,689
2011	3,740,689	1,852,484	131,369	(396,199)	-	5,328,343
2012	5,328,343	2,102,314	156,228	(612,463)	-	6,974,422
2013	6,974,422	2,372,311	167,624	(841,390)	1,882	8,674,849
2014	8,674,849	2,382,567	162,002	(1,584,314)	(1,882)	9,633,222
2015	9,633,222	2,141,655	173,902	(1,790,397)	-	10,158,382
2016	10,158,382	1,786,464	173,983	(2,817,992)	-	9,300,837
2017	9,300,837	1,443,408	161,532	(1,757,558)	-	9,148,219

Reconciliation of Firefighters Share Plan Balance

Year Ended	Balance at Beginning of	Allocation of Excess Chapter	Administrative				Balance at
9/30	Year	175 Revenue	Expenses	Interest	Distributions	Adjustment	End of Year
2010	\$ -	\$ 1,447,933	\$ (27,234)	\$ -	\$ -	\$ -	\$ 1,420,699
2011	1,420,699	283,578	(5,376)	(13,339)	(59,056)	-	1,626,506
2012	1,626,506	308,692	(4,115)	138,865	(74,499)	-	1,995,449
2013	1,995,449	315,570	(5,393)	147,425	(60,657)	(446)	2,391,948
2014	2,391,948	-	-	151,248	(163,761)	4,601	2,384,036
2015	2,384,036	-	-	51,242	(170,597)	(3,675)	2,261,006
2016	2,261,006	-	-	160,186	(109,723)	-	2,311,469
2017	2,311,469	-	-	207,758	(154,740)	-	2,364,487

Reconciliation of Police Officers Share Plan Balance

Year Balance at Allocation of Ended Beginning of Excess Chapter		Administrative	Intovest	Dietvikusione	A dissature a mat	Balance at		
	9/30 Year		185 Revenue	Expenses	Interest	Distributions	Adjustment	End of Year
	2012	\$ -	\$ 1,033,014	\$ (11,190)	\$ 3,890	\$ (16,061)	\$ -	\$ 1,009,653
	2013	1,009,653	79,763	(4,170)	51,927	(23,532)	5,266	1,118,907
	2014	1,118,907	-	-	59,715	(17,290)	2,152	1,163,484
	2015	1,163,484	-	-	16,652	(22,561)	3,674	1,161,249
	2016	1,161,249	-	-	75,952	(128,823)	-	1,108,378
	2017	1,108,378	-	-	86,451	(61,331)	-	1,133,498



INVESTMENT RATE OF RETURN

Year Ending		
September 30th	Actuarial Value Basis	Market Value Basis
1991	21.0 %	21.0 %
1992	10.6	10.6
1993	8.3	8.9
1994	2.9	3.3
1995	17.7	18.3
1996	15.4	16.0
1997	13.3	26.0
1998	12.7	7.7
1999	13.5	13.9
2000	12.7	7.2
2001	7.9	(8.7)
2002	(3.6)	(8.2)
2003	3.0	15.1
2004	2.6	12.6
2005	12.9	12.9
2006	7.1	7.1
2007	14.4	14.4
2008	(13.2)	(13.2)
2009	(2.5)	(2.5)
2010	6.9	6.9
2011	(1.6)	(1.6)
2012	17.0	17.0
2013	13.5	13.5
2014	9.6	9.6
2015	0.4	0.4
2016	8.3	8.3
2017	11.9	11.9
Average Returns:		
Last 5 Years	8.6 %	8.6 %
Last 10 Years	4.7 %	4.7 %
All Years	8.0 %	8.1 %

The above rates are based on the retirement systems financial information reported to the actuary. They may differ from figures that the investment consultant reports, in part because of differences in the handling of administrative and investment expenses, and in part because of differences in the handling of cash flows.





FINANCIAL ACCOUNTING INFORMATION

	FASB NO. 35 INFORMATION									
Α.	Valuation Date	October 1, 2017	October 1, 2016							
В.	Actuarial Present Value of Accumulated Plan Benefits									
	1. Vested Benefits									
C.	 a. Members Currently Receiving Payments b. Terminated Vested Members c. Other Members d. Total 2. Non-Vested Benefits 3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2 4. Accumulated Contributions of Active Members Changes in the Actuarial Present Value of Accumulated Plan Benefits	\$ 101,634,365 3,331,840 46,131,245 151,097,454 3,845,235 154,942,693 8,123,815	3,651,420 43,018,598 143,185,479 3,804,611 346,990,090							
	 Total Value at Beginning of Year Increase (Decrease) During the Period Attributable to: 	146,990,090	131,399,067							
	 a. Plan Amendment b. Change in Actuarial Assumptions c. Latest Member Data, Benefits Accumulated and Decrease in the Discount Period d. Benefits Paid (net basis) e. Net Increase 		(8,207,810)							
	3. Total Value at End of Period	154,942,693	146,990,090							
D.	Market Value of Assets	127,260,874	114,633,342							
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,	2018*	2017	2016	2015	2014
Total pension liability					
Service Cost	\$ 3,571,532	\$ 3,079,795	\$ 2,778,149	\$ 2,572,283	\$ 2,574,964
Interest	12,164,658	12,268,722	11,915,555	11,488,590	11,080,170
Benefit Changes	-	-	-	-	-
Difference between actual & expected experience	11,052	1,429,348	(1,057,151)	147,608	(564,291)
Assumption Changes	-	8,537,498	-	-	-
Benefit Payments	(9,275,708)	(8,947,165)	(9,359,155)	(7,925,890)	(7,307,066)
Refunds	(89,381)	(33,559)	(118,729)	(39,186)	(17,836)
Other (DROP and Share Plan Adjustments)	-	-	-	-	4,871
Net Change in Total Pension Liability	6,382,153	16,334,639	4,158,669	6,243,405	5,770,812
Total Pension Liability - Beginning	181,328,166	164,993,527	160,834,858	154,591,453	148,820,641
Total Pension Liability - Ending (a)	\$ 187,710,319	\$ 181,328,166	\$164,993,527	\$160,834,858	\$154,591,453
Plan Fiduciary Net Position			-	-	-
Contributions - Employer	\$ 5,013,520	\$ 4,125,246	\$ 3,460,575	\$ 3,847,225 *	* \$ 3,419,781 ***
Contributions - Employer (From State)	1,247,930	1,247,930	1,187,377	1,177,757	1,170,897
Contributions - Non-Employer Contributing Entity	-	-	-	-	-
Contributions - Employee	1,268,977	1,272,118	1,207,817	939,891	705,943
Net Investment Income	9,376,930	15,043,417	9,877,031	496,601	10,838,163
Benefit Payments	(9,275,708)	(8,947,165)	(9,359,155)	(7,925,890)	(7,307,066)
Refunds	(89,381)	(33,559)	(118,729)	(39,186)	(17,836)
Administrative Expense	(144,535)	(154,935)	(134,134)	(148,545)	(154,026)
Other		=	=	-	<u>-</u> _
Net Change in Plan Fiduciary Net Position	7,397,733	12,553,052	6,120,782	(1,652,147)	8,655,856
Plan Fiduciary Net Position - Beginning	139,907,078	127,354,026	121,233,244	122,885,391	114,229,535
Plan Fiduciary Net Position - Ending (b)	\$ 147,304,811	\$ 139,907,078	\$127,354,026	\$121,233,244	\$122,885,391 ****
Net Pension Liability - Ending (a) - (b)	40,405,508	41,421,088	37,639,501	39,601,614	31,706,062
Plan Fiduciary Net Position as a Percentage					
of Total Pension Liability	78.47 %	77.16 %	77.19 %	75.38 %	79.49 %
Covered Payroll	\$ 15,862,211	\$ 15,418,750	\$ 13,659,795	\$ 12,732,998	\$ 12,623,764
Net Pension Liability as a Percentage					
of Covered Payroll	254.73 %	268.64 %	275.55 %	311.02 %	251.16 %

Note: Covered Payroll for fiscal year ending September 30, 2017 was estimated by dividing the total member contributions (excluding buyback contributions) for the fiscal year by the member contribution of 8.0%.

- * These figures are estimates only. Actual figures will be provided after the end of the fiscal year.
- ** Includes \$520,523 in prepaid City contribution as of September 30, 2014 that was applied to the City's contribution requirement for the 2015 fiscal year.
- *** Adjusted amount to reflect the \$396,627 excess City contribution for fiscal year ending September 30, 2013.
- **** Pursuant to confirmation of City's auditor, this amount excludes \$520,523 prepaid City contribution as of September 30, 2014 that was applied to the City's contribution requirement for the 2015 fiscal year.



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

FY Ending September 30,	Total Pension Liability	Plan Net Position		Net Pension Liability	Plan Net Position as a % of Total Pension Liability	Covered Payroll	Net Pension Liability as a % of Covered Payroll
2014	\$ 154,591,453	\$ 122,885,391	**	\$ 31,706,062	79.49%	\$ 12,623,764	251.16%
2015	160,834,858	121,233,244		39,601,614	75.38%	12,732,998	311.02%
2016	164,993,527	127,354,026		37,639,501	77.19%	13,659,795	275.55%
2017	181,328,166	139,907,078		41,421,088	77.16%	15,418,750	268.64%
2018*	187,710,319	147,304,811		40,405,508	78.47%	15,862,211	254.73%

Note: Covered Payroll for fiscal year ending September 30, 2017 was estimated by dividing the total member contributions (excluding buyback contributions) for the fiscal year by the member contribution of 8.0%.



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

^{**} Pursuant to confirmation of City's auditor, this amount excludes \$520,523 prepaid City contribution as of September 30, 2014 that was applied to the City's contribution requirement for the 2015 fiscal year.

NOTES TO NET PENSION LIABILITY GASB Statement No. 67

Valuation Date: October 1, 2017
Measurement Date: September 30, 2018

Methods and Assumptions Used to Determine Net Pension Liability:

Actuarial Cost Method Entry Age Normal

Inflation 2.5%

Salary Increases 3.75% to 5.75% depending on Member Age.

Investment Rate of Return 6.75%

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 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

mandated by Florida House Bill 1309.

Other Information:

Notes See Discussion of Valuation Results on page 1.



SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

FY Ending September 30,	Actuarially Determined Contribution	Actual Contribution		Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
2014	\$ 4,987,305	\$ 4,590,678	**	396,627	\$ 12,623,764	36.37%
2015	5,024,982	5,024,982	***	-	12,732,998	39.46%
2016	4,647,952	4,647,952		-	13,659,795	34.03%
2017	5,373,176	5,373,176		-	15,418,750	34.85%
2018*	6,261,450	6,261,450		-	15,862,211	39.47%

Note: Covered Payroll for fiscal year ending September 30, 2017 was estimated by dividing the total member contributions (excluding buyback contributions) for the fiscal year by the member contribution of 8.0%.



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

^{**} This is an adjusted amount to reflect the \$396,627 excess City contribution for fiscal year ending 9/30/2013.

^{***}Includes \$520,523 in prepaid City contributions.

NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date: October 1, 2016

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 30

Asset Valuation Method Market Value

Inflation 2.5%

Salary Increases Rates vary from 3.75% to 5.75% depending on age.

Investment Rate of Return 6.75%

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

condition

Mortality RP-2000 Mortality Tables for Annuitants 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 included a 100% white collar adjustment. These are the same rates used for Special

Risk Class members of the Florida Retirement System (FRS) in the

actuarial valuation as of July 1, 2016, as mandated by Florida House Bill

1309.

Other Information:

Notes See Discussion of Valuation Results in the October 1, 2016 Actuarial

Valuation Report dated January 11, 2017.



SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 6.75% 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 6.75%. 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 (6.75%) 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 6.75%, 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

Fiscal Year Ending	1% Decrease	Rate Assumption	1% Increase
September 30	5.75%	6.75%	7.75%
2018*	\$61,787,869	\$40,405,508	\$22,683,464

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



SECTION **E**

MISCELLANEOUS INFORMATION

RECONCILIATION OF MEMBERSHIP DATA								
		From 10/1/16 To 10/1/17	From 10/1/15 To 10/1/16					
A.	Active Members							
2. 3. 4. 5.	Number Included in Last Valuation New Members Included in Current Valuation Non-Vested Employment Terminations Vested Employment Terminations Service Retirements DROP Retirements Disability Retirements	241 33 (10) (4) (1) (6) 0	226 24 (3) (3) (1) (2) 0					
9. 10.	Deaths Rehires Other Number Included in This Valuation	0 0 0 253	0 0 0 241					
В.	Terminated Vested Members	1	<u> </u>					
 3. 4. 6. 	Number Included in Last Valuation Additions from Active Members Lump Sum Payments/Refunds Payments Commenced Deaths Other Number Included in This Valuation	15 4 0 (2) 0 0 17	14 3 0 (2) 0 0 15					
C.	DROP Participation							
2.3.4.5.	Number Included in Last Valuation Additions from Active Members Payments commenced Deaths Other Number Included in This Valuation	29 6 (8) 0 — 0 — 27	39 2 (12) 0 0 29					
D.	Service Retirees, Disability Retirees and Beneficiaries	1						
2. 3. 4. 5. 6.		188 1 2 8 (2) 0 0 0 197	176 1 2 12 (3) 0 0 0 188					



SCHEDULE OF ACTIVE PARTICIPANTS AS OF OCTOBER 1, 2017

Age	Years of Service										
Group	0-4	5-9	10-14	15-19	20-24	25-29	30 & Up	Totals			
20-24	8	0	0	0	0	0	0	8			
Total Pay	339,113	0	0	0	0	0	0	339,113			
Avg Pay	42,389	0	0	0	0	0	0	42,389			
25-29	34	5	0	0	0	0	0	39			
Total Pay	1,576,904	285,293	0	0	0	0	0	1,862,197			
Avg Pay	46,380	57,059	0	0	0	0	0	47,749			
30-34	23	18	6	0	0	0	0	47			
Total Pay	1,106,150	1,061,578	414,379	0	0	0	0	2,582,107			
Avg Pay	48,093	58,977	69,063	0	0	0	0	54,938			
35-39	10	10	15	4	0	0	0	39			
Total Pay	471,426	606,979	946,482	308,946	0	0	0	2,333,833			
Avg Pay	47,143	60,698	63,099	77,237	0	0	0	59,842			
40-44	6	3	17	17	0	0	0	43			
Total Pay	294,328	167,796	1,089,252	1,321,037	0	0	0	2,872,413			
Avg Pay	49,055	55,932	64,074	77,708	0	0	0	66,800			
45-49	3	1	16	11	10	1	0	42			
Total Pay	139,894	70,835	1,019,183	848,196	754,899	88,547	0	2,921,554			
Avg Pay	46,631	70,835	63,699	77,109	75,490	88,547	0	69,561			
50-54	5	2	1	6	12	5	0	31			
Total Pay	291,023	115,315	63,206	419,364	989,717	452,343	0	2,330,968			
Avg Pay	58,205	57,658	63,206	69,894	82,476	90,469	0	75,193			
55-59	0	1	1	0	1	1	0	4			
Total Pay	0	56,776	59,423	0	75,220	66,197	0	257,616			
Avg Pay	0	56,776	59,423	0	75,220	66,197	0	64,404			
60-64	0	0	0	0	0	0	0	0			
Total Pay	0	0	0	0	0	0	0	0			
Avg Pay	0	0	0	0	0	0	0	0			
65 & Up	0	0	0	0	0	0	0	0			
Total Pay	0	0	0	0	0	0	0	0			
Avg Pay	0	0	0	0	0	0	0	0			
Total No.	89	40	56	38	23	7	0	253			
Total Pay	4,218,838	2,364,572	3,591,925	2,897,543	1,819,836	607,087	0	15,499,801			
Avg Pay	47,403	59,114	64,142	76,251	79,123	86,727	0	61,264			



SCHEDULE OF INACTIVE PARTICIPANTS AS OF OCTOBER 1, 2017

	Termi	nated	Vested		Disabled		Retirees and		Beneficiaries	
_			Annual		Annual			Annual		
Age	No.	No. Benefits		No.		Benefits	No.		Benefits	
Under 45	10	\$	188,715	0	\$	-	2	\$	12,108	
45-49	5		106,795	1		20,539	12		561,194	
50-54	2		72,455	4		112,336	36		1,776,055	
55-59	0		0	5		93,870	43		2,046,570	
60-64	0		0	2		57,955	44	1,770,150		
65-69	0		0	3		55,168	28		958,169	
70-74	0		0	4		80,593	18		557,597	
75-79	0		0	0		0	14		289,786	
80-84	0		0	0		0	5		127,843	
85-89	0		0	0		0	2		38,367	
90 & Up	0		0	0		0	1		7,278	
Total	17	9	367,965	19		\$420,461	205		\$8,145,117	



SECTION **F**

SUMMARY OF PLAN PROVISIONS

SUMMARY OF PLAN PROVISIONS

A. Ordinances

The Plan was established by Ordinance No. 93-73 under the Code of Ordinances for the City of Largo, Florida, and was most recently amended under Ordinance Number 2017-34, adopted February 21, 2017. The Plan is also governed by certain provisions of Chapters 175 and 185, Florida Statutes, Part VII, Chapter 112, Florida Statutes (F.S.) and the Internal Revenue Code.

B. Effective Date

January 1, 1980

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 and firefighters are eligible for membership on the date of employment.

F. Credited Service

Service is measured as the total number of years and completed months of service as a police officer or firefighter. No service is credited for any periods of employment for which the member received a refund of employee contributions.

G. Compensation

Compensation for services rendered, including pay for sick and vacation hours, personal option hours, retroactive pay, various incentive pay, etc. but not including payment for accrued sick leave, accrued annual leave, severance pay, bonuses, overtime (if hired after January 1, 1980), etc.

H. Average Final Compensation (AFC)

For members who are hired before October 1, 2013, AFC is the average of Compensation over the highest 3 years out of the last 10 years of Credited Service immediately preceding retirement or termination. For members who are hired on or after October 1, 2013, AFC is the average of Compensation over the highest 5 years out of the last 10 years of Credited Service immediately preceding retirement or termination.



I. Normal Retirement

Eligibility: For members hired before October 1, 2013, a member may retire on the first day

of the month coincident with or next following the earliest of:

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

(2) 23 years of Credited Service regardless of age, or

(3) age 62 regardless of Credited Service.

For members hired on or after October 1, 2013, a member may retire on the first

day of the month coincident with or next following the earliest of:

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

(2) 25 years of Credited Service regardless of age, or

(3) age 62 regardless of Credited Service.

Benefit: For members hired before October 1, 2013, 3.25% of AFC multiplied by Credited

Service with a maximum equal to 95% of AFC.

For members hired on or after October 1, 2013, 2.75% of AFC multiplied by

Credited Service with a maximum equal to 95% of AFC.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

J. Early Retirement

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

attainment of age 50 with 10 years of Credited Service.

Benefit: The Normal Retirement Benefit is reduced by 3.0% for each year by which the

Early Retirement date precedes the Normal Retirement date.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

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 to the City as a result of an act occurring in the performance of service for the City is immediately eligible for a disability benefit.



Benefit: 60% of AFC. If the total of this benefit plus Workers' Compensation benefits

exceeds 100% of AFC, the excess over 100% will be used to reduce the disability

benefit.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

M. Non-Service Connected Disability

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

permanently disabled and unable to render useful and efficient service to the City

is immediately eligible for a disability benefit.

Benefit: 50% of AFC. If the total of this benefit plus Workers' Compensation benefits

exceeds 100% of AFC, the excess over 100% will be used to reduce the disability

benefit.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

N. Death in the Line of Duty

Eligibility: Members who die as a direct result of the performance of the member's duties

are eligible for survivor benefits regardless of Credited Service.

Benefit: The survivor benefit payable to the designated beneficiary is the greater of:

(1) the single sum value of the member's accrued Normal Retirement Benefit as

of the date of death, or

(2) the lesser of 24 times AFC or 100 times the member's anticipated monthly

pension at the Normal Retirement date.

Normal Form

of Benefit: The lump sum benefit determined above is converted to a monthly benefit

payable to the member's beneficiary for 10 Years Certain and Life thereafter;

other options are also available.

COLA: None

O. Other Pre-Retirement Death

Eligibility: Members are eligible for non-duty related death benefits regardless of Credited

Service.



Benefit: The survivor benefit payable to the designated beneficiary is the greater of:

(1) the single sum value of the member's accrued Normal Retirement Benefit as of the date of death, or

(2) the lesser of 24 times AFC (12 times AFC for members with less than 10 years of Credited Service) or 100 times the member's anticipated monthly pension at the Normal Retirement date.

Normal Form

of Benefit: The lump sum benefit determined above is converted to a monthly benefit

payable to the member's beneficiary for 10 Years Certain and Life thereafter;

other options are also available.

COLA: None

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 the Single Life Annuity for police officers, the 10-Year Certain and Life Annuity for firefighters, the 50%, 66 2/3%, 75% or 100% Joint and Survivor options, or the Social Security Leveling Option.

R. Vested Termination

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

of 10 years of Credited Service.

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

termination. Benefit begins on the member's Normal Retirement date.

Alternatively, members with 10 or more years of Credited Service may elect to receive benefits any time after age 50. The benefit will be reduced for Early

Retirement, when applicable.

Normal Form

of Benefit: 10-Year Certain and Life Annuity. Other options are also available.

COLA: None

S. Refunds

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

are eligible. Optionally, vested members (those with 10 or more years of Credited

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

Benefit: Refund of the member's accumulated contributions without interest.



T. Member Contributions

5% of Compensation before May 6, 2014. For members who are hired before October 1, 2013, effective the first full payroll period after May 6, 2014, the member contribution rate increases to 6% of Compensation. The member contribution rate increases to 7% of Compensation effective October 1, 2014 and to 8% of Compensation effective October 1, 2015. However, the annual increase in the member contribution rate shall not exceed one-half of the percentage of the general wage increase that is granted to each class of employee, respectively (police officer, firefighter, and non-represented) in that fiscal year.

For members who are hired on or after October 1, 2013, effective the first full payroll period after May 6, 2014, the member contribution rate increases to 8% of Compensation.

U. State Contributions

Chapter 175 and 185 Premium Tax Refunds

V. Employer Contributions

Any additional amount determined by the actuary needed to fund the plan properly according to State laws.

Effective October 1, 2013, Additional Premium Tax Revenues (APTR) is first used to fund the Chapter 175/185 minimum plan benefits and reduce the City's required contribution. If the amount of APTR is sufficient to fund the Chapter 175/185 minimum benefits, the excess APTR is placed in the Firefighters' or Police Officers' Share Programs. If the Plan funding level determined in the most recent valuation report is 100% or greater, all APTR for the year is contributed to the Share Programs without regard to whether those APTR are sufficient to fund the minimum benefits. If the Plan funding level determined in the most recent valuation report is greater than 90% but less than 100%, one-half of the APTR for the year is contributed to the Share Programs without regard to whether those APTR are sufficient to fund the minimum benefits. If the Plan funding level determined in the most recent valuation report is at least 80% but less than 90%, one-quarter of the APTR for the year is contributed to the Share Programs without regard to whether those APTR are sufficient to fund the minimum benefits. If the Plan funding level determined in the most recent valuation report is less than 80%, all of the APTR for the year is used to fund the minimum benefits.

For purposes of the above, Additional Premium Tax Revenues (APTR) shall be defined as premium tax revenues received in excess of \$325,839 and \$432,273 for firefighters and police officers, respectively.

Effective October 1, 2013, the minimum annual required City contribution is 8% of payroll, notwithstanding the funding requirements of Florida Statutes. If the required contribution is less than 8% of payroll, the excess contribution is added to the Fund as an additional contribution to increase the Plan funding level.



W. Cost of Living Increases

Not Applicable

X. Deferred Retirement Option Plan

Eligibility: Plan members are eligible for the DROP upon the attainment of the earliest of:

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

(2) 23 years of Credited Service regardless of age (25 years of Credited Service

regardless of age if hired on or after October 1, 2013), or

(3) age 62 regardless of Credited Service.

Members must make a written election to participate in the DROP.

Benefit: The member's Credited Service and AFC 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 AFC.

Maximum

DROP Period: 7 years.

Interest

Credited: The member's DROP account is credited with interest based upon one of the

following options chosen by the member.

(1) the actual net investment return realized by the Fund, or

(2) the interest rate earned from a separate investment plan elected by the

member from investment funds made available by the Board.

Normal Form

of Benefit: Lump Sum; member may also elect installment payments with Board approval.

COLA: None

Y. Share Plan

The Plan provides an individual share account for all active firefighters and for firefighters who are DROP members, retirees, and terminated vested members on October 1, 2009. The Plan also provides an individual share account for all active police officers and for police officers employed on September 1, 2011. The Share Plan allocation is derived from any non-dedicated Chapter 175 or 185 revenue that exceeds the base amount. The excess revenue, net of administrative expenses, is allocated annually to individual accounts which earn interest at the rate of investment return realized by the individual share plan account. Effective October 1, 2013, excess annual revenue is allocated to individual accounts only if the funding level determined in the most recent valuation report is at least 80%.



Z. Other Ancillary Benefits

There are no ancillary retirement type benefits not required by statutes but which might be deemed a City of Largo Municipal Police Officers' and Firefighters' Retirement Plan liability if continued beyond the availability of funding by the current funding source.

AA. Changes from Previous Valuation

There have been no changes in plan provisions since the previous valuation.

