MIAMI SPRINGS GENERAL EMPLOYEES RETIREMENT SYSTEM

ANNUAL ACTUARIAL VALUATION AS OF OCTOBER 1, 2020

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2022







April 29, 2021

Board of Trustees City of Miami Springs General Employees Retirement System Miami Springs, Florida

Re: City of Miami Springs General Employees Retirement System
Actuarial Valuation as of October 1, 2020 and Actuarial Disclosures

Dear Board Members:

The results of the October 1, 2020 Annual Actuarial Valuation of the City of Miami Springs General Employees Retirement System 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 purposes of the valuation are to measure the System's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2022, and to report the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 67 for the fiscal year ending September 30, 2020. This report also includes estimated GASB Statement No. 67 information for the fiscal year ending September 30, 2021. 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 metrics in Section A but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of 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 and other information through September 30, 2020. The valuation was based upon information furnished by the Plan Administrator concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal reasonability 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 Miami Springs General Employees Retirement System April 29, 2021 Page ii

This report was prepared using certain assumptions approved by the Board as authorized under Florida Statutes and prescribed by the Florida Statutes as described in the section of this report entitled Actuarial Assumptions and Cost Method. The investment return assumption was prescribed by the Board and the assumed mortality rates detailed in the Actuarial Assumptions and Cost Method section were prescribed by the Florida Statutes in accordance with Florida Statutes Chapter 112.63. All actuarial assumptions used in this report are reasonable for purposes of this valuation.

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 City of Miami Springs General Employees Retirement System 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.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

Peter N. Strong and Nicolas Lahaye 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 and Report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,

GABRIEL, ROEDER, SMITH & COMPANY

Enrolled Actuary No. 20-6975

Nicolas Lahaye, FSA, MAAA, FCA Enrolled Actuary No. 20-7775



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SECTION A

DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

Comparison of Required Employer Contributions

The required employer contribution developed in this year's valuation is compared below to last year's results.

	For FYE 9/30/2022 Based on 10/1/2020 Valuation	For FYE 9/30/2021 Based on 10/1/2019 Valuation	Increase (Decrease)
Required Employer Contribution Before Threshold is Applied, assuming equal installments throughout the year As % of Covered Payroll	\$ 515,454	\$ 612,813	\$ (97,359)
	13.35 %	16.27 %	(2.92) %
Required Employer Contribution After Threshold is Applied, assuming equal installments throughout the year As % of Covered Payroll	\$ 450,974	\$ 494,921	\$ (43,947)
	11.68 %	13.14 %	(1.46) %
Required Employer Contribution After Threshold is Applied, assuming full payment on October 1st As % of Covered Payroll	\$ 435,789	\$ 478,209	\$ (42,420)
	11.29 %	12.70 %	(1.41) %
As % of Total Payroll including DROP participants	10.93 %	11.80 %	(0.87) %
Member Contribution Rate	6.67 %	8.13 %	(1.46) %

The required contribution of \$435,789 has been calculated under the assumption that full payment will be made on October 1, 2021. The actual employer contribution for the year ending September 30, 2020 was \$472,860. The required contribution reflecting actual payment timing was \$472,860.

Revision in Benefits

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

Revisions in Actuarial Assumptions or Methods

In compliance with Florida Statutes Chapter 112.63(1)(f), which mandates the use of the mortality tables used in either of the two most recently published actuarial valuation reports of the Florida Retirement System (FRS), the mortality tables and improvement scales were changed to reflect the updated mortality assumptions adopted by FRS after a 2019 experience study, which were used in the July 1, 2019 and July 1, 2020 FRS Actuarial Valuations.



The assumption change described above decreased the total required contribution by \$42,858, or 1.11% of covered payroll, assuming beginning of year payment timing and prior to applying the threshold.

Actuarial Experience

There was a net actuarial gain of \$588,213 for the year which means that actual experience was more favorable than expected. The gain is primarily due to a recognized investment return (on the actuarial value of assets) above the assumed rate of 7.00%. The actual investment return was 9.7% based on the actuarial value of assets and 10.7% based on the market value of assets. Demographic experience also resulted in an actuarial gain due to fewer retirements than expected (1 actual versus 3 expected) and more employment terminations than expected (12 actual versus 9 expected).

The actuarial experience gain caused a decrease in the total required contribution of \$53,669, or 1.39% of covered payroll, assuming beginning of year payment timing and prior to applying the threshold.

Funded Ratio

The funded ratio, one measure of the Plan's financial health, is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability. The funded ratio is 97.1% this year compared to 92.0% last year. The funded ratio would have been 95.2% prior to recognizing the assumption change.

Analysis of Change in Employer Contribution

The components of change in the required contribution as a percent of payroll are as follows:

Contribution Rate Last Year*	15.72 %
Experience (Gains) or Losses	(1.39)
Revision in Assumptions/Methods	(1.11)
Amortization Payment on UAAL	(0.16)
Normal Cost Rate	0.00
Administrative Expense	(0.16)
Contribution Rate This Year*	12.90

^{*}Before threshold is applied, assuming full payment on October 1st.

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.

The Market Value of Assets exceeds the Actuarial Value of Assets by \$978,223 as of the valuation date (see Section C). This difference will be gradually recognized over the next five years. In turn, the computed employer contribution rate will decrease by approximately 1.63% of covered payroll (as of the beginning of the contribution year and before the threshold is applied) over the same period in the absence of offsetting losses.



Relationship to Market Value

If we were not using an asset smoothing method, the City contribution rate would have been 11.27% (as of the beginning of the contribution year and before the threshold is applied) and the funded ratio would have been 101.8%. The market value-based funded ratio was 95.4% last year. In the absence of other gains and losses or assumption changes, the City contribution rate would be expected to decrease to approximately that level over the next five years.

Conclusion

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;
- 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 Measures

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:

	<u>2020</u>	<u> 2019</u>
Ratio of the market value of assets to total payroll	5.8	5.5
Ratio of actuarial accrued liability to payroll	5.7	5.8
Ratio of actives to retirees and beneficiaries	0.9	0.9
Ratio of net cash flow to market value of assets (Net of DROP)	-3.3%	-3.3%
Duration of the actuarial accrued liability	11.1	11.2

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.



Duration of Actuarial Accrued Liability

The duration of the actuarial accrued liability may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, duration of 10 indicates that the liability would increase approximately 10% if the assumed rate of return were lowered 1%.

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.



SECTION B

VALUATION RESULTS

PARTICIPANT DATA						
	October 1, 2020		Oc	tober 1, 2019		
ACTIVE MEMBERS						
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$ \$	77 3,730,509 48,448 41.7 7.2 34.5	\$ \$	79 3,639,150 46,065 40.3 6.7 33.6		
RETIREES, BENEFICIARIES & DROP						
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	84 * 1,298,325 15,456 72.9	\$	85 1,368,034 16,095 72.6		
DISABILITY RETIREES						
Number Annual Benefits Average Annual Benefit Average Age	\$	2 30,030 15,015 68.7	\$	2 30,030 15,015 67.7		
TERMINATED VESTED MEMBERS						
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	7 70,481 10,069 52.5	\$ \$	6 54,094 9,016 52.6		

^{*}The count includes 1 beneficiary who is only due a refund of employee contributions.



ACTUARIALLY DETERMINED (REQUIRED) CONTRIBUTION (ADC)								
A. Valuation Date	October 1, 2020	October 1, 2020	October 1, 2020	October 1, 2019				
	Assuming City Contribution made October 1st	After Changes	Before Changes	Assuming City Contribution made October 1st				
B. ADC to Be Paid During Fiscal Year Ending	9/30/2022	9/30/2022	9/30/2022	9/30/2021				
C. Assumed Dates of Employer Contributions	10/1/2021	Evenly	Evenly	10/1/2020				
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 60,822	\$ 60,822	\$ 92,264	\$ 146,350				
E. Employer Normal Cost	420,326	420,326	430,231	425,599				
F. Employer ADC if Paid on the Valuation Date: D+E	481,148	481,148	522,495	571,949				
G. Employer ADC Adjusted for Frequency of Payments	481,148	498,065	540,866	571,949				
H. Employer ADC as % of Covered Payroll	12.90 %	13.35 %	14.50 %	15.72 %				
Assumed Rate of Increase in Covered Payroll to Contribution Year	3.50 %	3.50 %	3.50 %	3.50 %				
J. Covered Payroll for Contribution Year	3,861,077	3,861,077	3,861,077	3,766,520				
K. Employer ADC for Contribution Year Before Threshold: H x J	498,079	515,454	559,856	592,097				
L. Employer ADC as % of Covered Payroll in Contribution Year Before 10% Threshold: K÷J	12.90 %	13.35 %	14.50 %	15.72 %				
M. Employer ADC after Threshold	435,789	450,974	472,982	478,209				
N. Employer ADC as % of Covered Payroll after Threshold: M ÷ J	11.29 %	11.68 %	12.25 %	12.70 %				
O. Member Contribution Rate	6.67 %*	6.67 %	7.25 %	8.13 %*				

^{*} Member Contributions are still assumed to be made evenly throughout the year.



ACTUARIAL VALUE OF BENEFITS AND ASSETS							
A. Valuation Date	October 1, 2020 After Changes	October 1, 2020 Before Changes	October 1, 2019				
B. Actuarial Present Value of All Projected Benefits for 1. Active Members							
a. Service Retirement Benefitsb. Vesting Benefitsc. Disability Benefitsd. Preretirement Death Benefits	\$ 9,552,291 1,542,080 89,034 147,074	\$ 9,733,709 1,574,495 86,639 189,493	\$ 9,021,817 1,553,185 83,183 178,387				
e. Return of Member Contributions f. Total	90,746	93,159	115,674 10,952,246				
 Inactive Members a. Service Retirees & Beneficiaries b. Disability Retirees c. Terminated Vested Members d. Total 	12,938,604 259,658 583,403 13,781,665	13,163,848 257,651 596,885 14,018,384	13,507,605 261,931 444,025 14,213,561				
3. Total for All Members	25,202,890	25,695,879	25,165,807				
C. Actuarial Accrued (Past Service) Liability	21,077,859	21,495,331	20,999,722				
D. Actuarial Value of Accumulated Plan Benefits per FASB No. 35	19,008,081	19,374,250	18,993,752				
E. Plan Assets 1. Market Value 2. Actuarial Value	21,451,799 20,473,576	21,451,799 20,473,576	20,028,267 19,327,362				
F. Unfunded Actuarial Accrued Liability: (C - E2)	604,283	1,021,755	1,672,360				
G. Actuarial Present Value of Projected Covered Payroll	29,471,278	29,427,029	29,230,953				
H. Actuarial Present Value of Projected Member Contributions	1,473,564	1,471,351	1,461,548				
Accumulated Value of Active Member Contributions	1,902,816	1,902,816	1,729,118				



CALCULATION OF EMPLOYER NORMAL COST							
A. Valuation Date	October 1, 2020 After Changes	October 1, 2020 Before Changes	October 1, 2019				
B. Normal Cost for	, your analysis						
Service Retirement Benefits	\$ 381,177	\$ 386,897	\$ 376,588				
2. Vesting Benefits	107,338	109,399	107,981				
3. Disability Benefits	4,546	4,418	4,291				
4. Preretirement Death Benefits	7,105	9,165	8,869				
5. Return of Member Contributions	20,550	20,742	20,094				
6. Total for Future Benefits	520,716	530,621	517,823				
7. Assumed Amount for Administrative							
Expenses	86,135	86,135	89,733				
8. Total Normal Cost	606,851	616,756	607,556				
C. Expected Member Contribution	186,525	186,525	181,957				
D. Employer Normal Cost: B8-C	420,326	430,231	425,599				
E. Employer Normal Cost as % of							
Covered Payroll	11.27 %	11.53 %	11.70 %				



LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

UAAL Amoritzation Period and Payments									
Original UAAL					Current UAAL				
FYE	Source	Amortization Period (Years)		Amount	Years Remaining		Amount	Pa	ayment
10/1/2009	Initial Unfunded	30	\$	(27,259)	19	\$	126,532	\$	11,441
10/1/2010	(Gain)/Loss	20		117,494	10		97,077		12,917
10/1/2010	Assumption Change	30		140,520	20		144,840		12,777
10/1/2011	(Gain)/Loss	20		327,186	11		241,560		30,106
10/1/2011	Assumption Change	30		147,089	21		132,981		11,470
10/1/2012	(Gain)/Loss	20		377,521	12		293,339		34,516
10/1/2012	Assumption Change	30		152,846	22		140,375		11,860
10/1/2013	(Gain)/Loss	20		203,827	13		159,600		17,847
10/1/2013	Assumption Change	30		156,294	23		140,967		11,688
10/1/2014	(Gain)/Loss	20		(279,983)	14		(230,616)		(24,645)
10/1/2015	(Gain)/Loss	20		(12,884)	15		(11,377)		(1,167)
10/1/2016	(Gain)/Loss	20		(16,073)	16		(14,692)		(1,454)
10/1/2016	Assumption Change	30		326,373	26		317,703		25,108
10/1/2017	(Gain)/Loss	20		(257,623)	17		(236,655)		(22,654)
10/1/2017	Assumption Change	30		480,156	27		462,664		36,073
10/1/2018	(Gain)/Loss	20		(568,425)	18		(536,271)		(49,824)
10/1/2018	Assumption Change	30		493,160	28		479,854		36,950
10/1/2019	(Gain)/Loss	20		(101,798)	19		(97,913)		(8,854)
10/1/2020	(Gain)/Loss	20		(588,213)	20		(588,213)		(51,891)
10/1/2020	Assumption Change	30		(417,472)	30		(417,472)		(31,442)
			\$	652,736		\$	604,283	\$	60,822

Amortization Schedule

The UAAL is being liquidated as a level dollar amount over the number of years remaining in the amortization period. The following schedule illustrates the expected amortization of the UAAL:

Amortization Schedule					
Year Expected UAAL					
2020	\$ 604,283				
2021	581,503				
2022	557,129				
2023	531,049				
2024	503,143				
2025	473,285				
2030	289,549				
2035	386,247				
2040	403,091				
2045	60,696				
2050	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. 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:

	Derivation of the Current UAAL					
1.	Last Year's UAAL	\$	1,672,360			
2.	Last Year's Employer Normal Cost*		305,143			
3.	Last Year's Contributions		472,860			
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b		138,425 33,100 105,325			
5.	This Year's Expected UAAL: 1+2-3+4c		1,609,968			
6.	This Year's Actual UAAL (Before any changes in benefits and/or assumptions)		1,021,755			
7.	Net Actuarial Gain (Loss): (5) - (6)		588,213			
8.	Gain (Loss) due to investments		520,649			
9.	Gain (Loss) due to other sources		67,564			
10.	Change in UAAL due to assumption change		(417,472)			
11.	This Year's Actual UAAL (After assumption change)		604,283			

^{*}Reflecting 8.31% employee contribution rate for fiscal year beginning October 1, 2019.

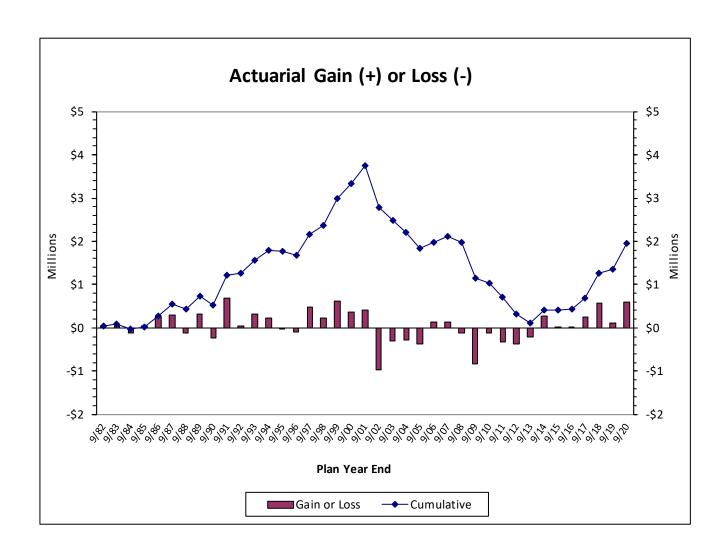


Net actuarial gains in previous years have been as follows:

Year Ended		Net Gain (Loss)	1
9/30	Program A	Program B	Total
1982	\$ (2,335)	\$ 44,869	\$ 42,534
1983	46,535	581	47,116
1984	(58,275)	(57,793)	(116,068)
1985	(10,290)	56,699	46,409
1986	82,066	164,139	246,205
1987	119,175	170,784	289,959
1988	(17,814)	(110,004)	(127,818)
1989			315,845
1990			(226,101)
1991			697,646
1992			41,913
1993			314,306
1994			229,013
1995			(23,052)
1996			(94,520)
1997			470,551
1998			216,517
1999			612,683
2000			360,328
2001			412,403
2002			(973,805)
2003			(306,284)
2004			(276,317)
2005			(368,464)
2006			141,707
2007			136,442
2008			(127,451)
2009			(834,865)
2010			(117,494)
2011			(327,186)
2012			(377,521)
2013			(203,827)
2014			279,983
2015			12,884
2016			16,073
2017			257,623
2018			568,425
2019			101,798
2020			588,213

Note: After 1988, Programs A and B combined.





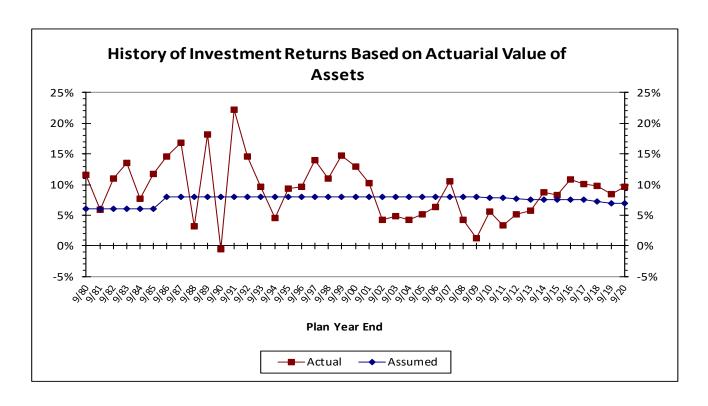


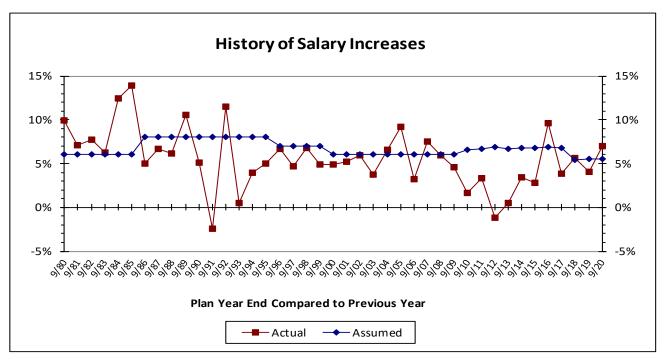
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years:

	Investment Return		Salary Ir	ncreases
Year Ending	Actual	Assumed	Actual	Assumed
9/30/1980	11.6 %	6.0 %	9.9 %	6.0 %
9/30/1981	5.9	6.0	7.1	6.0
9/30/1982	11.0	6.0	7.7	6.0
9/30/1983	13.6	6.0	6.3	6.0
9/30/1984	7.7	6.0	12.4	6.0
9/30/1985	11.8	6.0	13.9	6.0
9/30/1986	14.5	8.0	5.0	8.0
9/30/1987	16.8	8.0	6.7	8.0
9/30/1988	3.2	8.0	6.2	8.0
9/30/1989	18.2	8.0	10.6	8.0
9/30/1990	(0.5)	8.0	5.1	8.0
9/30/1991	22.2	8.0	(2.4)	8.0
9/30/1992	14.6	8.0	11.5	8.0
9/30/1993	9.6	8.0	0.5	8.0
9/30/1994	4.6	8.0	4.0	8.0
9/30/1995	9.4	8.0	5.0	8.0
9/30/1996	9.6	8.0	6.7	7.0
9/30/1997	13.9	8.0	4.7	7.0
9/30/1998	11.0	8.0	6.8	7.0
9/30/1999	14.7	8.0	4.9	7.0
9/30/2000	12.9	8.0	4.9	6.0
9/30/2001	10.2	8.0	5.2	6.0
9/30/2002	4.3	8.0	5.9	6.0
9/30/2003	4.8	8.0	3.7	6.0
9/30/2004	4.2	8.0	6.6	6.0
9/30/2005	5.2	8.0	9.2	6.0
9/30/2006	6.3	8.0	3.2	6.0
9/30/2007	10.6	8.0	7.5	6.0
9/30/2008	4.2	8.0	5.9	6.0
9/30/2009	1.3	8.0	4.6	6.0
9/30/2010	5.6	7.9	1.7	6.6
9/30/2011	3.3	7.8	3.3	6.7
9/30/2012	5.1	7.7	(1.2)	6.9
9/30/2013	5.8	7.6	0.5	6.7
9/30/2014	8.8	7.5	3.4	6.8
9/30/2015	8.4	7.5	2.9	6.8
9/30/2016	10.8	7.5	9.6	6.8
9/30/2017	10.1	7.5	3.9	6.8
9/30/2018	9.9	7.25	5.7	5.4
9/30/2019	8.5	7.0	4.1	5.5
9/30/2020	9.7	7.0	7.0	5.5
Averages	9.0 %		5.6 %	

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	DF	ice & ROP ement	Disab Retire	•	De	ath	Te Vested	rminat Other		tals	Active Members End of
Ended	Α	Е	Α	E	Α	E	Α	Е	Α	Α	Α	Е	Year
9/30/2002	17	16	8	12	0	0	0	0	3	5	8	4	88
9/30/2003	9	7	0	9	0	0	1	0	4	2	6	4	90
9/30/2004	10	17	3	10	0	0	0	0	2	12	14	4	83
9/30/2005	12	17	6	7	0	1	0	1	3	8	11	3	78
9/30/2006	19	15	3	7	0	0	0	0	0	12	12	3	82
9/30/2007	6	8	0	7	0	0	0	0	2	6	8	3	80
9/30/2008	7	12	0	10	0	0	1	0	1	10	11	3	75
9/30/2009	4	6	1	10	0	0	0	0	1	4	5	3	73
9/30/2010	12	6	2	8	0	0	0	0	1	3	4	5	79
9/30/2011	6	15	11	8	0	0	1	0	0	3	3	6	70
9/30/2012	4	12	5	5	0	0	0	0	2	5	7	6	62
9/30/2013	4	11	5	3	0	0	0	0	3	3	6	4	55
9/30/2014	4	9	5	4	0	0	1	0	1	2	3	4	50
9/30/2015	9	7	4	3	0	0	0	0	2	1	3	4	52
9/30/2016	28	10	3	2	1	0	0	0	1	5	6	5	70
9/30/2017	15	12	0	1	0	0	0	0	3	9	12	9	73
9/30/2018	14	11	1	1	0	0	0	0	1	9	10	10	76
9/30/2019	10	7	3	3	0	0	0	0	0	4	4	9	79
9/30/2020	11	13	1	3	0	0	0	0	1	11	12	9	77
9/30/2021				3		0		0				8	
19 Yr Totals *	201	211	61	113	1	1	4	1	31	114	145	98	

^{*} Totals are through current Plan Year only



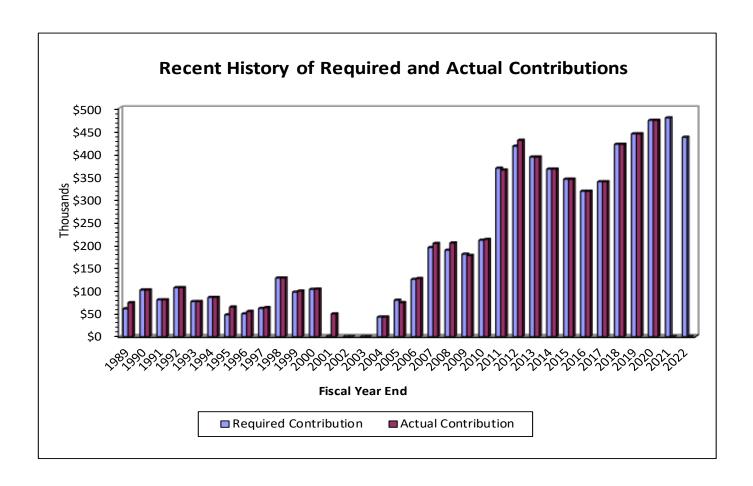
RECENT HISTORY OF VALUATION RESULTS									
	Num	ber of						Employer No	ormal Cost
Valuation	Active	Inactive	Covered Annual	Actuarial Value	Actuarial Accrued	Unfunded AAL	Funded		
Date	Members	Members	Payroll	of Assets	Liability (AAL)	(UAAL)	Ratio	Amount	% of Payroll
10/1/91	86	33	\$ 2,162,473	\$ 4,555,581	\$ 3,460,829	\$ (1,094,752)	131.6 %	\$ 67,697	3.13 %
10/1/92	85	36	2,442,571	4,976,504	4,237,651	(738,853)	117.4	75,670	3.10
10/1/93	95	36	2,491,348	5,460,492	4,369,493	(1,090,999)	125.0	42,189	1.69
10/1/94	95	35	2,550,907	5,752,917	4,456,390	(1,296,527)	129.1	44,036	1.73
10/1/95	97	40	2,602,431	6,270,385	5,318,611	(951,774)	117.9	54,597	2.10
10/1/96	98	41	2,863,384	6,830,478	5,955,713	(874,765)	114.7	113,027	3.95
10/1/97	96	42	2,916,129	7,703,046	6,380,390	(1,322,656)	120.7	85,972	2.95
10/1/98	94	44	2,977,751	8,495,731	6,883,280	(1,612,451)	123.4	74,966	2.52
10/1/99	90	49	2,863,379	9,646,613	7,308,588	(2,338,025)	132.0	(48,901)	(1.71)
10/1/00	93	51	3,069,479	10,780,335	8,273,005	(2,507,330)	130.3	(50,445)	(1.64)
10/1/01	87	53	2,987,599	11,671,813	9,132,700	(2,539,113)	127.8	(86,060)	(2.88)
10/1/02	88	60	3,222,834	11,845,208	9,776,521	(2,068,687)	121.2	38,617	1.20
10/1/03	90	62	3,262,260	12,040,035	10,265,029	(1,775,006)	117.3	73,162	2.24
10/1/04	83	66	3,160,625	12,194,853	10,766,920	(1,427,933)	113.3	114,745	3.63
10/1/05	78	72	3,155,692	12,407,308	11,326,985	(1,080,323)	109.5	178,678	5.66
10/1/06	82	66	3,157,952	12,767,033	11,434,793	(1,332,240)	111.7	173,533	5.50
10/1/07	80	68	3,364,865	13,786,880	12,271,087	(1,515,793)	112.4	166,555	4.95
10/1/08	75	67	3,429,028	13,945,299	12,736,662	(1,208,637)	109.5	194,819	5.68
10/1/09	73	67	3,495,598	13,736,039	13,708,780	(27,259)	100.2	347,141	9.93
10/1/10	79	66	3,731,068	14,132,944	14,515,197	382,253	97.4	379,050	10.16
10/1/11	70	74	3,221,566	14,316,041	15,232,512	916,471	94.0	337,176	10.47
10/1/12	62	78	2,821,874	14,537,003	15,971,613	1,434,610	91.0	305,853	10.84
10/1/13	55	84	2,430,353	14,657,002	16,482,270	1,825,268	88.9	265,890	10.94
10/1/14	50	88	2,238,008	15,260,442	16,757,713	1,497,271	91.1	260,482	11.64
10/1/15	52	93	2,379,287	15,830,330	17,237,855	1,407,525	91.8	287,565	12.09
10/1/16	70	97	3,112,373	16,570,614	18,254,929	1,684,315	90.8	349,525	11.23
10/1/17	73	96	3,305,740	17,403,690	19,316,048	1,912,358	90.1	363,119	10.98
10/1/18	76	92	3,554,733	18,383,837	20,182,852	1,799,015	91.1	416,619	11.72
10/1/19	79	93	3,639,150	19,327,362	20,999,722	1,672,360	92.0	425,599	11.70
10/1/20	77	93	3,730,509	20,473,576	21,077,859	604,283	97.1	420,326	11.27



RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS					
Valuation	For Fiscal Year Ended	Contribution	Contribution*		
Date	September 30		% of	Contribution	
		Amount	Payroll		
10/1/87	1989	60,925	3.35	74,102	
10/1/88	1990	101,962	5.32	101,962	
10/1/89	1991	80,477	3.69	80,477	
10/1/90	1992	107,013	4.80	107,013	
10/1/91	1993	76,662	3.55	76,662	
10/1/92	1994	85,691	3.51	85,691	
10/1/93	1995	47,776	1.92	64,713	
10/1/94	1996	49,868	1.95	55,128	
10/1/95	1997	61,827	2.38	63,427	
10/1/96	1998	127,995	4.47	127,995	
10/1/97	1999	97,357	3.34	99,564	
10/1/98	2000	103,440	3.47	103,846	
10/1/99	2001	789	0.03	49,687	
10/1/00	2002	0	0.00	0	
10/1/01	2003	0	0.00	0	
10/1/02	2004	42,827	1.36	42,827	
10/1/03	2005	79,730	2.35	74,265	
10/1/04	2006	125,237	3.81	126,928	
10/1/05	2007	194,946	5.94	203,625	
10/1/06	2008	189,174	5.76	204,774	
10/1/07	2009	180,222	5.15	177,356	
10/1/08	2010	210,762	5.91	212,519	
10/1/09	2011	368,268	10.13	364,282	
10/1/10	2012	416,357	10.73	429,403	
10/1/11	2013	392,670	11.72	392,670	
10/1/12	2014	366,204	12.48	366,204	
10/1/13	2015	344,236	13.62	344,236	
10/1/14	2016	317,957	13.66	317,957	
10/1/15	2017	338,551	13.68	338,551	
10/1/16	2018	420,570	12.99	420,570	
10/1/17	2019	443,293	12.96	443,293	
10/1/18	2020	472,860	12.85	472,860	
10/1/19	2021	478,209	12.70		
10/1/20	2022	435,789	11.29		

^{*} Reflecting threshold after fiscal year ending September 30, 2010 and reflecting beginning of year expected contribution timing (October 1^{st}) after fiscal year ending September 30, 2013.







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) dollar contributions over a reasonable period of future years.

Actuarial Value of Assets - The Actuarial Value of Assets phases in the difference between the actual and expected investment earnings over a period of 5 years. 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. With the exception of the mortality assumption, which is prescribed by Florida Statutes, all assumptions listed herein were established following the Assumption Study and Experience Review for the Nine-Year Period Ending September 30, 2016, dated December 22, 2017.

Economic Assumptions

The investment return rate assumed in the valuations is 7.00% per year, compounded annually (net after investment expenses).

The **Inflation Rate** assumed in this valuation was 2.5% per year. The Inflation Rate is defined to be the expected long-term rate of annual increases in the prices of 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 7.00% investment return rate translates to an assumed real rate of return over inflation of 4.50%.



The assumed rates of salary increase for individual active members are shown below. This assumption is used to project a member's current salary to the salaries upon which benefits will be based. Part of the assumption is for productivity, merit and/or seniority increase, and 2.5% recognizes inflation.

	% Increase in Salary				
Years of	Merit and	Base	Total		
Service	Seniority	(Economic)	Increase		
0 - 1	4.00%	2.50%	6.50%		
2 - 3	3.75	2.50	6.25		
4 - 11	3.50	2.50	6.00		
12 - 15	1.75	2.50	4.25		
16+	1.00	2.50	3.50		

Demographic Assumptions

The mortality tables used in the valuation are based on the PUB-2010 Headcount Weighted Mortality Tables described below, with mortality improvements projected to all future years after 2010 using Scale MP-2018.

	Pre-Retirement PUB-2010 Table	Post-Retirement PUB-2010 Table
Female	Headcount Weighted General Below Median Employee Female Table	Headcount Weighted General Below Median Healthy Retiree Female Table
Male	Headcount Weighted General Below Median Employee Male Table, set back 1 year	Headcount Weighted General Below Median Healthy Retiree Male Table, set back 1 year

These are the same rates as used by the Florida Retirement System (FRS) in their July 1, 2019 and July 1, 2020 Actuarial Valuation Reports for Regular (other than K-12 School Instructional Personnel) class members. Florida Statutes Chapter 112.63(1)(f) mandates the use of the mortality tables from either of the two most recently published actuarial valuation reports of FRS.

The following tables present post-retirement mortality rates and life expectancies at illustrative ages. These assumptions are used to measure the probabilities of each benefit payment being made after retirement.



FRS Healthy Post-Retirement Mortality for Regular Class Members

Sample	Probability of		Future	e Life
Attained	Dying Nex	xt Year	Expectano	cy (years)
Ages (in 2020)	Men	Women	Men	Women
50	0.19 %	0.58 %	33.04	36.86
55	0.97	0.58	28.67	32.42
60	1.15	0.60	24.59	27.89
65	1.29	0.69	20.55	23.32
70	1.80	1.10	16.55	18.85
75	2.88	1.90	12.85	14.66
80	4.87	3.44	9.58	10.92

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

FRS Healthy Pre-Retirement Mortality for Regular Class Members

Sample	Probabil	ity of	Future Life		
Attained	Dying Ne	xt Year	Expectan	cy (years)	
Ages (in 2020)	Men	Women	Men	Women	
50	0.19 %	0.11 %	37.64	40.19	
55	0.30	0.17	32.63	35.06	
60	0.46	0.26	27.78	30.04	
65	0.65	0.37	23.10	25.13	
70	0.90	0.57	18.56	20.31	
75	1.36	0.94	14.13	15.62	
80	2.15	1.59	9.83	11.12	

This assumption is used to measure the probabilities of active members dying prior to retirement.

For disabled retirees, the mortality table is the PUB-2010 Headcount Weighted General Disabled Retiree Table with ages set forward 3 years for males and females, with no provision being made for future mortality improvements. These are the same rates in use for Regular class members of FRS in the July 1, 2020 FRS Actuarial Valuation.



FRS Disabled Mortality for Regular Class Members

Sample	Probability of		Futur	e Life
Attained	Dying Next Year		Expectan	cy (years)
Ages (in 2020)	Men	Women	Men	Women
50	2.02 %	1.64 %	20.99	23.92
55	2.53	1.91	18.18	20.88
60	3.08	2.27	15.50	17.88
65	3.93	2.83	12.94	14.91
70	5.08	3.79	10.53	12.07
75	6.98	5.46	8.29	9.45
80	10.12	8.31	6.33	7.19

The rates of retirement used to measure the probability of eligible members retiring are as shown below.

Number of Years	
After First Eligibility	Probability of
for Normal Retirement	Normal Retirement
0	50 %
1 - 10	25
11+	100

The rate of retirement is 5% for each year of eligibility for early retirement.

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). This assumption measures the probabilities of members separating from employment for reasons other than death, disability or retirement.

Years of	% of Active Members			
Service	Separating Within Next Year			
0 - 2	20.0 %			
3 - 4	12.5			
5 - 8	5.5			
9 - 17	4.0			
18+	3.0			



Rates of disability among active members were as shown below. These are the same rates used for Regular Class members in the July 1, 2018 Actuarial Valuation of the Florida Retirement System.

	% Becoming Disabled within Next Year				
Sample	Non S	ervice-	Service-C	Connected	
Ages	Males	Males Females		Females	
20	0.000%	0.000%	0.000%	0.000%	
25	0.010%	0.010%	0.001%	0.001%	
30	0.010%	0.010%	0.001%	0.001%	
35	0.020%	0.010%	0.001%	0.001%	
40	0.020%	0.020%	0.001%	0.001%	
45	0.080%	0.060%	0.004%	0.001%	
50	0.160%	0.100%	0.006%	0.006%	
55	0.250%	0.160%	0.006%	0.006%	
60	0.300%	0.260%	0.010%	0.013%	

Changes from previous valuation: The mortality tables and improvement scales were updated to reflect the updated mortality assumptions used in the July 1, 2019 Florida Retirement System (FRS) Actuarial Valuation.



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 expenses over the previous 2 years. 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.

Incidence of Contributions Employer contributions are assumed to be made in equal

installments at the end of each pay period. 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.

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 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.

Actuarially Determined Contribution (ADC)

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

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 determined contribution (ADC).

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 ADC 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 and GASB No. 68

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.

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

September 30 2020 2019 Item \$ A. Cash and Cash Equivalents (Operating Cash) \$ B. Receivables: 1. Member Contributions \$ \$ 2. Employer Contributions 3. Investment Income and Other Receivables 53,951 68,034 Ś \$ 4. Total Receivables 53,951 68,034 C. Investments 1. Short Term Investments \$ 744,529 542,547 2. Domestic Equities 13,080,707 12,080,046 3. International Equities 4. Domestic Fixed Income 5,797,757 5,900,253 5. International Fixed Income 165,247 1,811,008 6. Real Estate 1,820,166 7. Private Equity 8. Total Investments 21,608,406 \$ 20,333,854 D. Liabilities \$ \$ 1. Benefits Payable 2. Accrued Expenses and Other Payables (53,826)(41,204)\$ \$ 3. Total Liabilities (53,826)(41,204)E. Total Market Value of Assets Available for Benefits \$ 21,608,531 \$ 20,360,684 F. DROP Accounts \$ (156,732)(332,417)G. Market Value Net of Reserves 21,451,799 \$ 20,028,267 H. Allocation of Investments 1. Short Term Investments 3.5% 2.7% 2. Domestic Equities 60.5% 59.4% 3. International Equities 0.0% 0.0% 4. Domestic Fixed Income 26.8% 29.0% 5. International Fixed Income 0.8% 0.0% 6. Real Estate 8.9% 8.4% 7. Private Equity 0.0% 0.0% 100.0% 8. Total Investments 100.0%



Reconciliation of Plan Assets

		September 30							
	Item		2020		2019				
Α.	Market Value of Assets at Beginning of Year	\$	20,360,684	\$	20,543,939				
В.	Revenues and Expenditures								
	1. Contributions								
	a. Employee Contributions	\$	314,272	\$	307,085				
	b. Employer Contributions		472,860		443,293				
	c. Purchased Service Credit		<u>-</u>						
	d. Total	\$	787,132	\$	750,378				
	2. Investment Income								
	a. Interest, Dividends, and Other Income	\$	483,364	\$	469,026				
	b. Net Realized/Unrealized Gains/(Losses)	•	1,801,129	·	773,637				
	c. Investment Expenses		(125,675)		(135,262)				
	d. Net Investment Income	\$	2,158,818	\$	1,107,401				
	3. Benefits and Refunds								
	a. Regular Monthly Benefits	\$	(1,239,298)	\$	(1,169,394)				
	b. Refunds		(76,741)		(10,453)				
	c. Lump Sum Benefits Paid		-		-				
	d. DROP Distributions		(295,891)		(775,090)				
	e. Total	\$	(1,611,930)	\$	(1,954,937)				
	4. Administrative and Miscellaneous Expenses	\$	(86,173)	\$	(86,097)				
	5. Transfers	\$	-	\$	-				
C.	Market Value of Assets at End of Year	\$	21,608,531	\$	20,360,684				
D.	DROP Accounts	\$	(156,732)	\$	(332,417)				
E.	Market Value Net of Reserves	\$	21,451,799	\$	20,028,267				



Development of Actuarial Value of Assets

	Valuation Date – September 30	2019	2020	2021	2022	2023	2024
Α.	Actuarial Value of Assets Beginning of Year	\$ 19,355,690	\$ 19,659,779				
В.	Market Value End of Year	20,360,684	21,608,531				
C.	Market Value Beginning of Year	20,543,939	20,360,684				
D.	Non-Investment/Administrative Net Cash Flow	(1,290,656)	(910,971)				
E.	Investment Income						
	E1. Actual Market Total: B-C-D	1,107,401	2,158,818				
	E2. Assumed Rate of Return	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%
	E3. Assumed Amount of Return	1,320,069	1,360,851				
	E4. Amount Subject to Phase-In: E1–E3	(212,668)	797,967				
F.	Phased-In Recognition of Investment Income						
	F1. Current Year: 0.2 x E4	(42,534)	159,593				
	F2. First Prior Year	159,923	(42,534)	159,593			
	F3. Second Prior Year	147,604	159,923	(42,534)	159,593		
	F4. Third Prior Year	96,061	147,604	159,923	(42,534)	159,593	
	F5. Fourth Prior Year	(86,378)	96,063	147,605	159,921	(42,532)	159,595
	F6. Total Phase-Ins	274,676	520,649	424,587	276,980	117,061	159,595
G.	Actuarial Value of Assets End of Year						
	G1. Preliminary Actuarial Value of Assets End of Year:						
	A+D+E3+F6	\$ 19,659,779	\$ 20,630,308				
	G2. Upper Corridor Limit: 120%*B	24,432,821	25,930,237				
	G3. Lower Corridor Limit: 80%*B	16,288,547	17,286,825				
	G4. Actuarial Value of Assets End of Year	19,659,779	20,630,308				
	G5. DROP Accounts	(332,417)	(156,732)				
	G6. Final Actuarial Value of Assets End of Year	19,327,362	20,473,576				
Н.	Difference between Market & Actuarial Value of Assets	700,905	978,223				
I.	Actuarial Rate of Return	8.46%	9.68%				
J.	Market Value Rate of Return	5.52%	10.72%				
K.	Ratio of Actuarial Value of Assets to Market Value	96.56%	95.47%				

The Actuarial Value of Assets recognizes assumed investment return (line E3) fully each year. Differences between actual and assumed investment income (Line E4) are phased-in over a closed 5-year period. 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 the assumed rate, Actuarial Value of Assets will tend to be greater than Market Value. If assumed rates are exactly realized for 5 consecutive years, Actuarial Value of Assets will become equal to Market Value.



Reconciliation of DROP Accounts

Year Ended	Balance at Beginning							Balance at	
9/30	of Year	Ad	justment	Credits	 Interest		tributions	End of Year	
2010	\$ 343,289	\$	-	\$ 76,894	\$ 8,837	\$	(285,437)	\$ 143,583	
2011	\$ 143,583	\$	-	\$ 101,170	\$ (4,076)	\$	(110,841)	\$ 129,836	
2012	\$ 129,836	\$	-	\$ 274,088	\$ 44,504	\$	-	\$ 448,428	
2013	\$ 448,428	\$	-	\$ 356,657	\$ 74,150	\$	(108,760)	\$ 770,476	
2014	\$ 770,476	\$	108,760	\$ 332,430	\$ 97,472	\$	(304,766)	\$1,004,372	
2015	\$1,004,372	\$	36,550	\$ 326,274	\$ 50,098	\$	(224,555)	\$1,192,739	
2016	\$1,192,739	\$	-	\$ 462,292	\$ 112,193	\$	(807,118)	\$ 960,106	
2017	\$ 960,106	\$	-	\$ 203,086	\$ 83,992	\$	(463,036)	\$ 784,148	
2018	\$ 784,148	\$	-	\$ 177,648	\$ 95,223	\$	(85,166)	\$ 971,853	
2019	\$ 971,853	\$	-	\$ 136,583	\$ (929)	\$	(775,090)	\$ 332,417	
2020	\$ 332,417	\$	3	\$ 99,509	\$ 20,694	\$	(295,891)	\$ 156,732	



Year Ending	Investment F	Rate of Return
September 30	Market Value	Actuarial Value
1978	6.1 %	
1979	5.1	
1980	5.2	11.6 %
1981	2.1	5.9
1982	21.3	11.0
1983	13.6	13.6
1984	5.9	7.7
1985	17.5	11.8
1986	18.9	14.5
1987	11.1	16.8
1988	4.0	3.2
1989	18.2	18.2
1990	(0.5)	(0.5)
1991	22.2	22.2
1992	14.6	14.6
1993	11.5	9.6
1994	1.2	4.6
1995	19.3	9.4
1996	12.4	9.6
1997	28.3	13.9
1998	5.8	11.0
1999	12.9	14.7
2000	8.9	12.9
2001	1.5	10.2
2002	(4.6)	4.3
2003	14.5	4.8
2004	8.7	4.2
2005	9.0	5.2
2006	6.6	6.3
2007	13.4	10.6
2008	(12.8)	4.2
2009	(3.2)	1.3
2010	7.3	5.6
2011	(3.7)	3.3
2012	19.4	5.1
2013	12.2	5.8
2014	12.0	8.8
2015	4.5	8.4
2016	10.0	10.8
2017	11.4	10.1
2018	11.2	9.9
2019	5.5	8.5
2020	10.7	9.7
Average Returns:		
Last 5 Years	9.7 %	9.8 %
Last 10 Years	9.2 %	8.0 %
All Years	9.0 %	9.0 %
All Teals	J.U 70	J.U 70

The above rates are based on the retirement system's 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 INFORM	ATION	
Α.	Valuation Date	October 1, 2020	October 1, 2019
В.	Actuarial Present Value of Accumulated Plan Benefits		
	1. Vested Benefits		
	a. Members Currently Receiving Paymentsb. Terminated Vested Membersc. Other Membersd. Total	\$ 13,198,262 583,403 5,143,861 18,925,526	\$ 13,769,536 444,025 4,688,536 18,902,097
	2. Non-Vested Benefits	82,555	91,655
	3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2	19,008,081	18,993,752
	4. Accumulated Contributions of Active Members	1,902,816	1,729,118
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits		
	1. Total Value at Beginning of Year	18,993,752	18,401,621
	2. Increase (Decrease) During the Period Attributable to:		
	a. Plan Amendment	0	0
	b. Change in Actuarial Assumptionsc. Latest Member Data, Benefits Accumulated	(366,169)	0
	and Decrease in the Discount Period	1,796,046	1,908,561
	d. Benefits Paid (net basis)	(1,415,548)	(1,316,430)
	e. Net Increase	14,329	592,131
	3. Total Value at End of Period	19,008,081	18,993,752
D.	Market Value of Assets	21,451,799	20,028,267
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,	2021*	2020	2019	2018	2017	2016	2015	2014
Total pension liability								
Service Cost	\$ 530,621	\$ 517,823	\$ 478,369	\$ 449,371	\$ 425,585	\$ 327,212	\$ 298,401	\$ 318,230
Interest	1,502,993	1,460,559	1,469,522	1,446,426	1,346,316	1,332,765	1,326,920	1,281,464
Benefit Changes	-	-	-	-	-	-	-	-
Difference between actual & expected experience	(63,182)	191,392	(114,573)	185,603	603,966	109,558	(166,972)	34,570
Assumption Changes	(457,293)	-	506,514	461,742	347,759	-	-	-
Benefit Payments	(1,499,320)	(1,535,189)	(1,944,484)	(1,161,974)	(1,585,026)	(1,731,453)	(993,482)	(908,927)
Refunds	(41,492)	(76,741)	(10,453)	(60,181)	(18,047)	(39,929)	(53,595)	(60,675)
Net Change in Total Pension Liability	(27,673)	557,844	384,895	1,320,987	1,120,553	(1,847)	411,272	664,662
Total Pension Liability - Beginning	21,711,112	21,153,268	20,768,373	19,447,386	18,326,833	18,328,680	17,917,408	17,252,746
Total Pension Liability - Ending (a)	\$ 21,683,439	\$ 21,711,112	\$ 21,153,268	\$ 20,768,373	\$ 19,447,386	\$ 18,326,833	\$ 18,328,680	\$ 17,917,408
Plan Fiduciary Net Position								
Contributions - Employer	\$ 478,209	\$ 472,860	\$ 443,293	\$ 420,570	\$ 338,551	\$ 317,957	\$ 344,236	\$ 366,204
Contributions – Employer (from state)	-	-	-	-	-	-	-	-
Contributions – Non-Employer contributing entity	-	-	-	-	-	-	-	-
Contributions - Member	303,290	314,272	307,085	285,901	283,972	252,554	208,312	188,555
Net Investment Income	1,499,744	2,158,818	1,107,401	2,106,317	2,021,370	1,720,828	766,343	1,903,591
Benefit Payments	(1,499,320)	(1,535,189)	(1,944,484)	(1,161,974)	(1,585,026)	(1,731,453)	(993,482)	(908,927)
Refunds	(41,492)	(76,741)	(10,453)	(60,181)	(18,047)	(39,929)	(53,595)	(60,675)
Administrative Expense	(86,135)	(86,173)	(86,097)	(93,369)	(83,952)	(82,657)	(82,212)	(76,422)
Other	-	-	-	-	-	-	-	
Net Change in Plan Fiduciary Net Position	654,296	1,247,847	(183,255)	1,497,264	956,868	437,300	189,602	1,412,326
Plan Fiduciary Net Position - Beginning	21,608,531	20,360,684	20,543,939	19,046,675	18,089,807	17,652,507	17,462,905	16,050,579
Plan Fiduciary Net Position - Ending (b)	\$ 22,262,827	\$21,608,531	\$ 20,360,684	\$ 20,543,939	\$ 19,046,675	\$ 18,089,807	\$ 17,652,507	\$ 17,462,905
Net Pension Liability - Ending (a) - (b)	(579,388)	102,581	792,584	224,434	400,711	237,026	676,173	454,503
Plan Fiduciary Net Position as a Percentage								
of Total Pension Liability	102.67 %	99.53 %	96.25 %	98.92 %	97.94 %	98.71 %	96.31 %	97.46 %
Covered Payroll	\$ 3,730,509	\$ 3,781,853	\$ 3,677,665	\$ 3,407,640	\$ 3,124,004	\$ 2,757,140	\$ 2,284,123	\$ 2,388,786
Net Pension Liability as a Percentage								
of Covered Payroll	(15.53)%	2.71 %	21.55 %	6.59 %	12.83 %	8.60 %	29.60 %	19.03 %

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



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

	Total			Plan Fiduciary Net Position		Net Pension Liability
FY Ending	Pension	Plan Fiduciary	et Pension	as a % of Total	Covered	Liability as a % of
September 30,	Liability	Net Position	 <u>Liability</u>	Pension Liability	Payroll	Covered Payroll
2014	\$ 17,917,408	\$ 17,462,905	\$ 454,503	97.46%	\$ 2,388,786	19.03%
2015	18,328,680	17,652,507	676,173	96.31%	2,284,123	29.60%
2016	18,326,833	18,089,807	237,026	98.71%	2,757,140	8.60%
2017	19,447,386	19,046,675	400,711	97.94%	3,124,004	12.83%
2018	20,768,373	20,543,939	224,434	98.92%	3,407,640	6.59%
2019	21,153,268	20,360,684	792,584	96.25%	3,677,665	21.55%
2020	21,711,112	21,608,531	102,581	99.53%	3,781,853	2.71%
2021*	21,683,439	22,262,827	\$ (579,388)	102.67%	3,730,509	(15.53)%

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



NOTES TO EMPLOYERS NET PENSION LIABILITY GASB Statement No. 67

Valuation Date: October 1, 2020 Measurement Date: September 30, 2021

Methods and Assumptions Used to Determine Net Pension Liability:

Actuarial Cost Method Entry Age Normal

Inflation 2.5%

Salary Increases 3.5% to 6.5% depending on service, including inflation

Investment Rate of Return 7.00%

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

eligibility condition

Mortality The same versions of Pub-2010 Headcount-Weighted Mortality Tables

for Regular (other than K-12 School Instructional Personnel) class members as used by the Florida Retirement System (FRS) in their July 1, 2020 actuarial valuation (with mortality improvements projected to

all future years after 2010 using Scale MP-2018). Florida Statutes Chapter 112.63(1)(f) mandates the use of mortality tables from one of

the two most recently published FRS actuarial valuation reports.

Other Information:

Notes See Discussion of Valuation Results in Section A of this report.



SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

FY Ending September 30,	De	etuarially etermined ntribution	Actual tribution*	-	ontribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
2014	\$	366,204	\$ 366,204	* \$	-	\$ 2,388,786	15.33%
2015		344,236	344,236		-	2,284,123	15.07%
2016		317,957	317,957		-	2,757,140	11.53%
2017		338,551	338,551		-	3,124,004	10.84%
2018		420,570	420,570		-	3,407,640	12.34%
2019		443,293	443,293		-	3,677,665	12.05%
2020		472,860	472,860		-	3,781,853	12.50%
2021**		478,209	478,209		-	3,730,509	12.82%

^{*} A receivable City contribution for the fiscal year ending September 30, 2014 of \$12,537, deposited after September 30, 2014, is reflected in the 2014 fiscal year actual contribution figure and excluded from the 2015 fiscal year.



^{**} 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, 2019

Notes Actuarially determined contributions are calculated as of October 1,

which is one year prior to the expected contribution date and the beginning of the fiscal year in which the contribution is due.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method Entry Age Normal
Amortization Method Level Dollar, Closed

Remaining Amortization Period 21 years (single equivalent period)

Asset Valuation Method 5-year smoothed market

Inflation 2.5%

Salary Increases 3.5% to 6.5% depending on service, including inflation

Investment Rate of Return 7.00%

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 50% blue collar adjustment and a 50% white collar adjustment. For females, the base mortality rates include a 100% white collar adjustment. These are the same rates as used for Regular Class members of the Florida Retirement System (FRS) in the July 1, 2018 Actuarial Valuation. Florida Statutes Chapter 112.63(1)(f) mandates the use of the mortality tables used in either of the two most recently published

actuarial valuation reports of FRS.

Other Information:

Notes See Discussion of Valuation Results in the October 1, 2019 Actuarial

Valuation Report (dated May 6, 2020).



SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 7.00% 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 7.00%. 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 (7.00%) 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 7.00%, 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*

	Current Single Discount	
1% Decrease	Rate Assumption	1% Increase
6.00%	7.00%	8.00%
\$1,827,694	(\$579,388)	(\$2,593,828)

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



SECTION **E**

MISCELLANEOUS INFORMATION

	RECONCILIATION OF MEMBERSH	IIP DATA	
		From 10/1/19 To 10/1/20	From 10/1/18 To 10/1/19
A.	Active Members		
1.	Number Included in Last Valuation	79	76
2.	New Members Included in Current Valuation	11	10
3.	Non-Vested Employment Terminations	(11)	(4)
4.	Vested Employment Terminations	(1)	0
5.	DROP Participation	0	(3)
6.	Service Retirements	(1)	0
7.	Disability Retirements	0	0
8.	Deaths	0	0
	Transfer from General Employees	0	0
	Number Included in This Valuation	77	79
В.	Terminated Vested Members		
1.	Number Included in Last Valuation	6	7
2.	Additions from Active Members	1	0
3.	Lump Sum Payments/Refund of Contributions	0	0
4.	Payments Commenced	0	(1)
5.	Deaths	0	0
6.	Other	0	0
7.	Number Included in This Valuation	7	6
C.	DROP Plan Members		
1.	Number Included in Last Valuation	4	6
2.	Additions from Active Members	0	3
3.	Retirements	(1)	(5)
4.	Deaths Resulting in No Further Payments	0	0
5.	Other - Data Adjustment	0	0
6.	Number Included in This Valuation	3	4
D.	Service Retirees, Disability Retirees and Beneficia	aries	
1.	Number Included in Last Valuation	83	79
2.	Additions from Active Members	1	0
2. 3.	Additions from Terminated Vested Members	0	1
3. 4.	Additions from DROP Plan	1	5
5.	Deaths Resulting in No Further Payments	(2)	(4)
5. 6.	Deaths Resulting in New Survivor Benefits	0	2
7.	End of Certain Period - No Further Payments	0	0
7. 8.	Other - Data Adjustment	0	0
9.	Number Included in This Valuation	83	83
<u></u>	Tamber meraca in 11113 variation		- 55



	Active Members as of October 1, 2020 Years of Service to Valuation Date												
ļ													
Age Group	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25-29	30-34	35+	Totals
15-19 NO.	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PAY	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG PAY	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24 NO.	2	2	0	0	0	0	0	0	0	0	0	0	4
TOT PAY	80,787	64,817	0	0	0	0	0	0	0	0	0	0	145,604
AVG PAY	40,393	32,408	0	0	0	0	0	0	0	0	0	0	36,401
25-29 NO.	2	1	4	1	2	2	0	0	0	0	0	0	12
TOT PAY	75,195	30,087	144,303	32,545	98,001	89,815	0	0	0	0	0	0	469,946
AVG PAY	37,598	30,087	36,076	32,545	49,000	44,908	0	0	0	0	0	0	39,162
30-34 NO.	3	1	2	3	4	1	0	0	0	0	0	0	14
TOT PAY	84,781	46,679	65,369		151,638		0	0	0	0	0	0	554,661
AVG PAY	28,260	46,679	32,684	37,847	37,910	92,653	0	0	0	0	0	0	39,619
35-39 NO.	3	0	2	0	3	2	1	1	0	0	0	0	12
TOT PAY	85,038	0	68,901	0	125,970	78,077	62,075	58,007	0	0	0	0	478,068
AVG PAY	28,346	0	34,450	0	41,990	39,038	62,075	58,007	0	0	0	0	39,839
40-44 NO.	0	1	0	0	0	1	2	1	0	0	0	0	5
TOT PAY	0	37,056	0	0	0		150,334	46,154	0	0	0	0	324,788
AVG PAY	0	37,056	0	0	0	91,244	75,167	46,154	0	0	0	0	64,958
45-49 NO.	0	0	0	1	0	3	0	0	0	0	0	0	4
TOT PAY	0	0	0	61,760	0	216,594	0	0	0	0	0	0	278,354
AVG PAY	0	0	0	61,760	0	72,198	0	0	0	0	0	0	69,589
50-54 NO.	0	0	1	0	1	1	1	5	1	1	0	0	11
TOT PAY	0	0	36,653	0			111,067			56,281	0	0	657,087
AVG PAY	0	0	36,653	0	43,472	48,882	111,067	59,234	64,564	56,281	0	0	59,735
55-59 NO.	0	1	0	0	0	0	2	1	0	0	1	0	5
TOT PAY	0	31,259	0	0	0	0	84,053	47,208	0	0	62,554	0	225,074
AVG PAY	0	31,259	0	0	0	0	42,026	47,208	0	0	62,554	0	45,015
60-64 NO.	0	1	0	0	3		0	1	0	0	0	1	7
TOT PAY	0	,	0		147,638		0	60,339	0	0		56,281	
AVG PAY	0	25,750	0	0	49,213	41,692	0	60,339	0	0	0	56,281	47,386
65-99 NO.	1	0	0	1	0	1	0	0	0	0	0	0	3
TOT PAY	29,329	0	0	27,500	0	97,092	0	0	0	0	0	0	153,921
AVG PAY	29,329	0	0	27,500	0	97,092	0	0	0	0	0	0	51,307
TOT NO.	11	7	9	6	13	12	6	9	1	1	1	1	77
TOT AMT		235,648	315,226									56,281	
AVG AMT			35,025									56,281	47,003



	Inactive Members as of October 1, 2020												
	Terminat	ed Vested	Disabled		Re	etired	Benef	iciaries	Т	Total			
		Total		Total		Total		Total		Total			
		Annual		Annual		Annual		Annual		Annual			
Age	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits			
Under 20	-	-	-	-	-	-	-	-	-	-			
20 - 24	-	-	-	-	-	-	-	-	-	-			
25 - 29	-	-	-	-	-	-	-	-	-	-			
30 - 34	-	-	-	-	-	-	-	-	-	-			
35 - 39	1	9,360	-	-	-	-	-	-	1	9,360			
40 - 44	-	-	-	-	-	-	1	7,236	1	7,236			
45 - 49	2	32,370	-	-	-	-	-	-	2	32,370			
50 - 54	-	-	1	22,125	2	86,528	-	-	3	108,653			
55 - 59	3	23,487	-	-	6	150,853	-	-	9	174,340			
60 - 64	1	5,264	-	-	9	129,919	-	-	10	135,183			
65 - 69	-	-	-	-	15	294,873	1	23,074	16	317,947			
70 - 74	-	-	-	-	10	115,943	2	16,024	12	131,967			
75 - 79	-	-	-	-	14	224,020	2	6,484	16	230,504			
80 - 84	-	-	1	7,905	8	113,203	1	6,370	10	127,478			
85 - 89	-	-	-	-	7	78,217	4	41,076	11	119,293			
90 - 94	-	-	-	-	1	4,505	1*	0	2	4,505			
95 - 99	-	-	-	-	-	-	-	-	-	-			
100 & Over	-	-	-	-	-	-	-	-	-	-			
Total	7	70,481	2	30,030	72	1,198,061	12	100,264	93	1,398,836			

^{*}The count includes 1 beneficiary who is only due a refund of employee contributions.





SUMMARY OF PLAN PROVISIONS

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A. Ordinances

The Plan was established under the Code of Ordinances for the City of Miami Springs, Florida, Chapter 35, Article I, and was most recently amended under Ordinance No. 1080-2015 passed and adopted on May 27, 2015. The Plan is also governed by certain provisions of Part VII, Chapter 112, Florida Statutes and the Internal Revenue Code.

B. Effective Date

January 1, 1960

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 employees, except police officers and firefighters, who work at least 1000 hours per year. Employees appointed to director positions (City Manager, Assistant City Manager, or Department Director) after May 27, 2015 have the option to join the Plan.

F. Credited Service

Service is measured as the total number years and fractional parts of years of service rendered to the City. No service is credited for any periods of employment for which the member received a refund of their contributions.

G. Compensation

Salary or wages paid for personal services rendered to the City, but not including allowances for food, clothing, shelter, or travel expense.

H. Final Average Salary (FAS)

The average of the highest Compensation over any 5 years of Credited Service out of the last 10 years prior to termination or retirement. Compensation for FAS excludes overtime and lump sum payments at retirement for unused sick leave and vacation pay.



I. Normal Retirement

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

following the earlier of:

(1) age 62 and 5 years of Credited Service, or

(2) when age plus Credited Service equals 75 years.

Benefit: 1.75% of FAS multiplied by each year of Credited Service prior to 10/1/89, plus

2.50% of FAS multiplied by each year of Credited Service after 10/1/89; former program A members receive credit at the rate of 1.00% for service prior to

10/1/89.

Normal Form

of Benefit: Single 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 55 and 10 years of Credited Service.

Benefit: The Normal Retirement Benefit is reduced by .25% for each month by which the

Early Retirement date precedes the Normal Retirement date.

Normal Form

of Benefit: Single 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 has 10 or more years of Credited Service and becomes totally

and permanently disabled and rendered incapacitated for duty in the employ of the City is immediately eligible for a disability benefit. The 10 year requirement is

waived if the member is receiving Worker's Compensation.

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

and service credited as of the date of disability payable immediately. If a member is receiving Worker's Compensation, the minimum benefit is 25% of salary; upon termination of Worker's Compensation, benefit is recomputed by allowing

additional service credit from date of retirement to age 60.



Normal Form

of Benefit: Payable for life or until recovery from disability; other options are also available.

COLA: None

M. Non-Service Connected Disability

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

and permanently disabled and rendered incapacitated for duty in the employ of the City is immediately eligible for a disability benefit. The 10 year requirement is

waived if the member is receiving Worker's Compensation.

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

and service credited as of the date of disability payable immediately. If a member is receiving Worker's Compensation, the minimum benefit is 25% of salary; upon termination of Worker's Compensation, benefit is recomputed by allowing

additional service credit from date of retirement to age 60.

Normal Form

of Benefit: Payable for life or until recovery from disability; other options are also available.

COLA: None

N. Death in the Line of Duty

Eligibility: Members with 10 or more years of Credited Service are eligible for survivor

benefits.

Benefit: The beneficiary will receive the member's accrued Normal Retirement Benefit

taking into account compensation earned and service credited as of the date of

death.

Normal Form

of Benefit: Payable immediately as though the member had retired on the date of death and

elected the 100% Joint & Survivor option.

COLA: None

The beneficiary of a plan member who dies with less than 10 years of Credited Service will receive a refund of the member's accumulated contributions with interest.

O. Other Pre-Retirement Death

Eligibility: Members with 10 or more years of Credited Service are eligible for survivor

benefits.

Benefit: The beneficiary will receive the member's accrued Normal Retirement Benefit

taking into account compensation earned and service credited as of the date of

death.



Normal Form

of Benefit: Payable immediately as though the member had retired on the date of death and

elected the 100% Joint & Survivor option.

COLA: None

The beneficiary of a plan member who dies with less than 10 years of Credited Service will receive a refund of the member's accumulated contributions with interest.

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 10 Year Certain and Life Annuity and the 50% and 100% Joint and Survivor 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.

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 determined as though the member had remained in full-time employment. Alternatively, a member may elect a refund of their own accumulated contributions with interest or, if the member had 10 years of Credited Service, a reduced Early Retirement

Benefit any time after age 55.

Normal Form

of Benefit: Single life Annuity; other options are also available.

COLA: None

Members terminating employment with less than 5 years of Credited Service will receive a refund of their own accumulated contributions with interest.

S. Refunds

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

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 with interest. Interest is credited at a rate

that is determined by the Board each year.



T. Member Contributions

5.0% of Compensation; when the total annual required contribution is greater than 15% of payroll, the amount over 15% is shared equally by the City and the members.

U. Employer Contributions

Any additional amount determined by the actuary needed to fund the plan properly according to State laws. When the total annual required contribution is greater than 15% of payroll (the threshold of 15% of payroll is comprised on the City contribution of 10% of payroll and the member contribution rate of 5% of pay), the amount over 15% is shared equally by the City and the members.

V. Cost of Living Increases

Not Applicable

W. 13th Check

Not Applicable

X. Deferred Retirement Option Plan

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

(1) age 62 and 5 years of Credited Service, or

(2) when age plus Credited Service equals 75 years.

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

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

Maximum

DROP Period: 60 months

Interest

Credited: The member's DROP account is credited or debited at an interest rate to be set

by the Board.

Normal Form

of Benefit: The plan member may elect from 1 of the 2 following options:

(1) Lump Sum, or

(2) Any other form of payment selected by the participant, approved by the Board

and conforming to all applicable laws.

COLA: None



Y. Other Ancillary Benefits

There are no ancillary retirement type benefits not required by statutes but which might be deemed a Miami Springs General Employees' Retirement System liability if continued beyond the availability of funding by the current funding source.

Z. Changes from Previous Valuation

There were no changes in plan provisions since the previous valuation.

