# MIAMI SPRINGS GENERAL EMPLOYEES RETIREMENT SYSTEM ANNUAL ACTUARIAL VALUATION AS OF OCTOBER 1, 2019

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2021







May 6, 2020

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, 2019 and Actuarial Disclosures

**Dear Board Members:** 

The results of the October 1, 2019 Annual Actuarial Valuation of the City of Miami Springs General Employees Retirement System are presented in this report. This report does not reflect the recent and still developing impact of COVID-19, which may significantly impact future demographic and economic experience.

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, 2021, and to report the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 67 for the fiscal year ending September 30, 2019. This report also includes estimated GASB Statement No. 67 information for the fiscal year ending September 30, 2020. 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, 2019. 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 Board of Trustees City of Miami Springs General Employees Retirement System May 6, 2020 Page ii

consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

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.

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

Peter N. Strong, FSA, MAA, FCA 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 9/30/2021 Based on 10/1/2019 Valuation	For FYE 9/30/2020 Based on 10/1/2018 Valuation	Increase (Decrease)		
Required Employer Contribution Before Threshold is Applied, assuming equal installments throughout the year As % of Covered Payroll	\$ 612,813 16.27 %	\$    611,475 16.62  %	\$		
Required Employer Contribution After Threshold is Applied, assuming equal installments throughout the year As % of Covered Payroll	\$ 494,921 13.14 %	\$ 489,695 13.31 %	\$		
Required Employer Contribution After Threshold is Applied, assuming full payment on October 1st As % of Covered Payroll	\$ 478,209 12.70 %	\$    472,860 12.85  %	\$		
As % of Total Payroll including DROP participants	11.80 %	11.73 %	0.07 %		
Member Contribution Rate	8.13 %	8.31 %	(0.18) %		

The required contribution of \$478,209 has been calculated under the assumption that full payment will be made on October 1, 2020. The actual employer contribution for the year ending September 30, 2019 was \$443,293. The required contribution reflecting actual payment timing was \$443,293.

# **Revision in Benefits**

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

### **Revisions in Actuarial Assumptions or Methods**

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



# **Actuarial Experience**

There was a net actuarial gain of \$101,798 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 8.5% based on the actuarial value of assets and 5.5% based on the market value of assets. The investment gains were partially offset by demographic losses which were mainly attributable to lower liability-weighted mortality experience than expected and fewer separations from employment than expected during the year (4 actual versus 9 expected).

### **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 92.0% this year compared to 91.1% last year.

### **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*	16.05 %
Experience (Gains) or Losses	(0.25)
Revision in Assumptions/Methods	0.00
Amortization Payment on UAAL	(0.06)
Normal Cost Rate	0.01
Administrative Expense	(0.03)
Contribution Rate This Year*	15.72

\*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 \$700,905 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 1.70% 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 14.02% (as of the beginning of the contribution year and before the threshold is applied) and the funded ratio would have been 95.4%. The market value-based funded ratio was 97.0% 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.

In the October 1, 2020 actuarial valuation, there will be an offsetting cost reduction due to the required change in the mortality assumption. The Florida Retirement System (FRS) recently updated the mortality assumption in its July 1, 2019 Actuarial Valuation Report, and all municipal retirement systems are required to use the same assumption used by FRS in either of its two most recent valuation reports. This change resulted in a reduction in life expectancy for general employees other than teachers, which is why this change will result in a cost decrease. This presents an opportunity to reduce the investment return assumption while keeping the total net assumption change impact cost neutral. We estimate that the investment return could be reduced from 7.0% to 6.86% and maintain cost neutrality when combined with the required FRS mortality assumption change. A reduction to 6.9% would still result in a net cost reduction when combined with the FRS mortality change.

Please note that this report only reflects experience through the valuation date of October 1, 2019. It does not reflect the recent and still developing impact of COVID-19, which may significantly impact the demographic and economic experience seen in future valuation reports.



# 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>2019</u>	<u>2018</u>
Ratio of the market value of assets to total payroll	5.5	5.5
Ratio of actuarial accrued liability to payroll	5.8	5.7
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%	-3.6%
Duration of the actuarial accrued liability	11.2	10.9

# **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, 2019		October 1, 2018		
ACTIVE MEMBERS			•		
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$ \$	79 3,639,150 46,065 40.3 6.7 33.6	\$ \$	76 3,554,733 46,773 40.1 6.8 33.3	
RETIREES, BENEFICIARIES & DROP			1		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	85 1,368,034 16,095 72.6	\$ \$	83 1,269,488 15,295 72.9	
DISABILITY RETIREES					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	2 30,030 15,015 67.7	\$ \$	2 30,030 15,015 66.7	
TERMINATED VESTED MEMBERS			,		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	6 54,094 9,016 52.6	\$ \$	7 59,306 8,472 52.7	



ACTUARIALLY DETERMINED (REQUIRED) CONTRIBUTION (ADC)							
A. Valuation Date	October 1, 2019	October 1, 2019	October 1, 2018				
	Assuming City Contribution made October 1st		Assuming City Contribution made October 1st				
B. ADC to Be Paid During Fiscal Year Ending	9/30/2021	9/30/2021	9/30/2020				
C. Assumed Dates of Employer Contributions	10/1/2020	Evenly	10/1/2019				
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 146,350	\$ 146,350	\$ 154,035				
E. Employer Normal Cost	425,599	425,599	416,619				
F. Employer ADC if Paid on the Valuation Date: D+E	571,949	571,949	570,654				
G. Employer ADC Adjusted for Frequency of Payments	571,949	592,059	570,654				
H. Employer ADC as % of Covered Payroll	15.72 %	16.27 %	16.05 %				
I. Assumed Rate of Increase in Covered Payroll to Contribution Year	3.50 %	3.50 %	3.50 %				
J. Covered Payroll for Contribution Year	3,766,520	3,766,520	3,679,149				
K. Employer ADC for Contribution Year Before Threshold: H x J	592,097	612,813	590,503				
L. Employer ADC as % of Covered Payroll in Contribution Year Before 10% Threshold: K ÷ J	15.72 %	16.27 %	16.05 %				
M. Employer ADC after Threshold	478,209	494,921	472,860				
N. Employer ADC as % of Covered Payroll after Threshold: M ÷ J	12.70 %	13.14 %	12.85 %				
O. Member Contribution Rate	8.13 %*	8.13 %	8.31 %*				

\* Member Contributions are still assumed to be made evenly throughout the year.



	ACTUARIAL VALUE OF BENEFITS AND ASSETS					
А.	Valuation Date	October 1, 2019	October 1, 2018			
В.	Actuarial Present Value of All Projected Benefits for 1 Active Members					
	a. Service Retirement Benefits	\$ 9,021,817	\$ 8,933,323			
	b. Vesting Benefits	1,553,185	1,352,632			
	c. Disability Benefits	83,183	79,949			
	d. Preretirement Death Benefits	178,387	168,812			
	e. Return of Member Contributions	115,674	122,207			
	f. Total	10,952,246	10,656,923			
	2. Inactive Members					
	a. Service Retirees & Beneficiaries	13,507,605	12,634,367			
	b. Disability Retirees	261,931	266,226			
	c. Terminated Vested Members	444,025	469,564			
	d. Total	14,213,561	13,370,157			
	3. Total for All Members	25,165,807	24,027,080			
C.	Actuarial Accrued (Past Service) Liability	20,999,722	20,182,852			
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	18,993,752	18,401,621			
E.	Plan Assets					
	1. Market Value	20,028,267	19,572,086			
	2. Actuarial Value	19,327,362	18,383,837			
F.	Unfunded Actuarial Accrued Liability: (C - E2)	1,672,360	1,799,015			
G.	Actuarial Present Value of Projected Covered Payroll	29,230,953	26,945,811			
Н.	Actuarial Present Value of Projected Member Contributions	1,461,548	1,347,291			
١.	Accumulated Value of Active Member Contributions	1,729,118	1,618,941			



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	CALCULATION OF EMPLOYER NORMAL COST							
А.	Valuation Date	October 1, 2019	October 1, 2018					
В.	Normal Cost for							
	<ol> <li>Service Retirement Benefits</li> <li>Vesting Benefits</li> <li>Disability Benefits</li> <li>Preretirement Death Benefits</li> <li>Return of Member Contributions</li> <li>Total for Future Benefits</li> <li>Assumed Amount for Administrative Expenses</li> <li>Total Normal Cost</li> </ol>	\$ 376,588 107,981 4,291 8,869 20,094 517,823 <u>89,733</u> 607,556	\$ 367,649 105,567 4,235 8,752 19,492 505,695 <u>88,661</u> 594,356					
C.	Expected Member Contribution	181,957	177,737					
D.	Employer Normal Cost: B8-C	425,599	416,619					
E.	Employer Normal Cost as % of Covered Payroll	11.70 %	11.72 %					



# 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)	20	\$	131,552	\$	11,605
10/1/2010	(Gain)/Loss	20		117,494	11		105,844		13,192
10/1/2010	Assumption Change	30		140,520	21		150,212		12,956
10/1/2011	(Gain)/Loss	20		327,186	12		260,944		30,704
10/1/2011	Assumption Change	30		147,089	22		137,606		11,627
10/1/2012	(Gain)/Loss	20		377,521	13		314,444		35,162
10/1/2012	Assumption Change	30		152,846	23		144,965		12,019
10/1/2013	(Gain)/Loss	20		203,827	14		169,975		18,164
10/1/2013	Assumption Change	30		156,294	24		145,315		11,841
10/1/2014	(Gain)/Loss	20		(279 <i>,</i> 983)	15		(244,251)		(25,063)
10/1/2015	(Gain)/Loss	20		(12,884)	16		(11,992)		(1,186)
10/1/2016	(Gain)/Loss	20		(16,073)	17		(15,422)		(1,476)
10/1/2016	Assumption Change	30		326,373	27		326,052		25,422
10/1/2017	(Gain)/Loss	20		(257,623)	18		(247,527)		(22,997)
10/1/2017	Assumption Change	30		480,156	28		474,246		36,518
10/1/2018	(Gain)/Loss	20		(568,425)	19		(559,127)		(50,558)
10/1/2018	Assumption Change	30		493,160	29		491,322		37,400
10/1/2019	(Gain)/Loss	20		(101,798)	20		(101,798)		(8,980)
			\$	1,658,421		\$	1,672,360	\$	146,350

# **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					
2019	\$ 1,672,360					
2020	1,632,833					
2021	1,590,538					
2022	1,545,282					
2023	1,496,857					
2024	1,445,041					
2029	1,126,209					
2034	944,636					
2039	752,697					
2044	287,202					
2049	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:

Deriv	Derivation of the Current UAAL					
1.	Last Year's UAAL	\$	1,799,015			
2.	Last Year's Employer Normal Cost*		297,536			
3.	Last Year's Contributions		443,293			
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b	_	146,759 25,859 120,900			
5.	This Year's Expected UAAL: 1 + 2 - 3 + 4c		1,774,158			
6.	This Year's Actual UAAL (Before any changes in benefits and/or assumptions)		1,672,360			
7.	Net Actuarial Gain (Loss): (5) - (6)		101,798			
8.	Gain (Loss) due to investments		274,676			
9.	Gain (Loss) due to other sources		(172,878)			
10.	Change in UAAL due to assumption change		0			
11.	This Year's Actual UAAL (After assumption change)		1,672,360			

\*Reflecting 8.35% employee contribution rate for fiscal year beginning October 1, 2018.



Net actuarial gains in previous years have been as follows:

Year Ended	Net Gain (Loss)					
9/30	Program A	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 <i>,</i> 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			

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 Increases		
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	7.00	4.1	5.5	
Averages	9.0 %		5.5 %		

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









	Actual (A) Compared to Expected (E) Decrements Among Active Employees												
Year	Num Ado Dur Ye	nber led ing ar	Serv DF Retire	ice & ROP ement	Disat Retire	oility ment	Dea	ath	To Vested	erminat Other	ions To	tals	Active Members End of
Ended	Α	Е	Α	Ε	Α	Ε	Α	Е	Α	Α	Α	Е	Year
9/30/2002 9/30/2003	17 9	16 7	8 0	12 9	0 0	0 0	0 1	0 0	3 4	5 2	8 6	4 4	88 90
9/30/2004 9/30/2005	10 12	17 17	3 6	10 7	0	0	0	0	2	12 8	14 11	4 3	83 78
9/30/2006	19	15	3	, 7	0	0	0	0	0	12	12	3	82
9/30/2007 9/30/2008	6 7	8 12	0 0	7 10	0 0	0 0	0 1	0 0	2 1	6 10	8 11	3 3	80 75
9/30/2009 9/30/2010	4	6 6	1 2	10 8	0 0	0	0	0	1	4 3	5 4	3 5	73 79
9/30/2011	6	15	11	8	0	0	1	0	0	3	3	6	70
9/30/2012 9/30/2013	4 4	12 11	5 5	5 3	0 0	0 0	0 0	0	2 3	5 3	7 6	6 4	62 55
9/30/2014 9/30/2015	4	9 7	5 1	4	0	0	1	0	1	2	3	4	50 52
9/30/2016	28	, 10	3	2	1	0	0	0	1	5	6	5	70
9/30/2017 9/30/2018	15 14	12 11	0 1	1 1	0 0	0 0	0 0	0 0	3 1	9 9	12 10	9 10	73 76
9/30/2019	10	7	3	3	0	0	0	0	0	4	4	9	79
9/30/2020 18 Yr Totals *	190	198	60	3 110	1	0 1	4	0 1	30	103	133	9 89	

\* Totals are through current Plan Year only



	RECENT HISTORY OF VALUATION RESULTS								
	Num	ber of						Employer No	rmal Cost
Valuation	Active	Inactive	Covered Annual	Actuarial Value of	Actuarial Accrued	Unfunded AAL	Funded		
Date	Members	Members	Payroll	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



RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS				
		Required C	ity	
Valuation	For Fiscal Year Ended	Contributio	on*	Actual City
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	
10/1/19	2021	478,209	12.70	

\* Reflecting threshold after fiscal year ending September 30, 2010 and reflecting beginning of year expected contribution timing (October 1<sup>st</sup>) after fiscal year ending September 30, 2013.





![](_page_27_Picture_1.jpeg)

# **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%.

![](_page_28_Picture_14.jpeg)

**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	
Service	Seniority	(Economic)	Total 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 table** for healthy lives is the RP-2000 Combined Healthy Participant Mortality Table (for pre-retirement mortality) and the RP-2000 Mortality Table for Annuitants (for post-retirement mortality), with mortality improvements projected to all future years after 2000 using Scale BB. For males, the base mortality rates include a 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 used for Regular Class members in the July 1, 2018 Actuarial Valuation of the Florida Retirement System (FRS). Florida Statutes Chapter 112.63 mandates the use of the same mortality assumptions used by FRS in either of the two most recently published FRS actuarial valuation reports.

Sample	Probability of		Future	e Life
Attained	Dying Nex	xt Year	Expectance	cy (years)
Ages (in 2019)	Men	Women	Men	Women
50	0.55 %	0.23 %	34.88	38.50
55	0.60	0.32	30.26	33.48
60	0.75	0.46	25.59	28.58
65	1.12	0.72	21.06	23.83
70	1.73	1.21	16.79	19.36
75	2.88	2.04	12.91	15.26
80	4.88	3.42	9.54	11.62

### FRS Healthy Post-Retirement Mortality for Regular Class Members

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

![](_page_29_Picture_7.jpeg)

Sample	Probability of		Future Life	
Attained	Dying Nex	xt Year	Expectance	cy (years)
Ages (in 2019)	Men	Women	Men	Women
50	0.21 %	0.15 %	35.80	38.85
55	0.35	0.24	30.68	33.70
60	0.61	0.39	25.75	28.68
65	1.06	0.69	21.10	23.86
70	1.73	1.21	16.79	19.36
75	2.88	2.04	12.91	15.26
80	4.88	3.42	9.54	11.62

#### FRS Healthy Pre-Retirement Mortality for Regular Class Members

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

For disabled lives, the RP-2000 Mortality Table for Disabled Annuitants was used, with a two year set forward for females and a four year setback for males, with no provision being made for future mortality improvements. These are the same rates used for Regular Class members in the July 1, 2018 Actuarial Valuation of the Florida Retirement System (FRS). Florida Statutes Chapter 112.63 mandates the use of the same mortality assumptions used by FRS in either of the two most recently published FRS actuarial valuation reports.

Sample	Probability of		Future Life	
Attained	Dying Nex	xt Year	Expectance	cy (years)
Ages (in 2019)	Men	Women	Men	Women
50	2.38 %	1.35 %	20.25	23.74
55	3.03	1.87	17.78	20.46
60	3.67	2.41	15.55	17.43
65	4.35	3.13	13.44	14.58
70	5.22	4.29	11.39	11.96
75	6.58	5.95	9.43	9.65
80	8.70	8.23	7.65	7.66

#### **FRS Disabled Mortality for Regular Class Members**

![](_page_30_Picture_6.jpeg)

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	onnected
Ages	Males	Females	Males	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%

![](_page_31_Picture_7.jpeg)

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

![](_page_32_Picture_2.jpeg)

# **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.

![](_page_33_Picture_2.jpeg)

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.

![](_page_34_Picture_1.jpeg)

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.

![](_page_35_Picture_1.jpeg)

**SECTION C** 

**PENSION FUND INFORMATION** 

			Septen	nber 3	0
	Item		2019		2018
A.	Cash and Cash Equivalents (Operatin	ng Cash) \$	-	\$	-
В.	Receivables:				
	1. Member Contributions	\$	-	\$	-
	2. Employer Contributions		-		-
	3. Investment Income and Other	Receivables	68,034		46,644
	4. Total Receivables	\$	68,034	\$	46,644
C.	Investments				
	1. Short Term Investments	\$	542,547	\$	565,560
	2. Domestic Equities		12,080,046		13,446,944
	3. International Equities		-		-
	4. Domestic Fixed Income		5,900,253		4,787,183
	5. International Fixed Income		-		-
	6. Real Estate		1,811,008		1,714,377
	7. Private Equity		-		-
	8. Total Investments	\$	20,333,854	\$	20,514,064
D.	Liabilities				
	1. Benefits Payable	\$	-	\$	-
	2. Accrued Expenses and Other P	ayables	(41,204)		(16,769)
	3. Total Liabilities	\$	(41,204)	\$	(16,769)
E.	Total Market Value of Assets Availa	ble for Benefits \$	20,360,684	\$	20,543,939
F.	DROP Accounts	\$	(332,417)	\$	(971,853)
G.	Market Value Net of Reserves	\$	20,028,267	\$	19,572,086
Н.	Allocation of Investments				
	1. Short Term Investments		2.7%		2.8%
	2. Domestic Equities		59.4%		65.5%
	3. International Equities		0.0%		0.0%
	4. Domestic Fixed Income		29.0%		23.3%
	5. International Fixed Income		0.0%		0.0%
	6. Real Estate		8.9%		8.4%
	7. Private Equity		0.0%		0.0%
	8. Total Investments		100.0%		100.0%

#### Statement of Plan Assets at Market Value

![](_page_37_Picture_2.jpeg)

#### September 30 Item 2019 2018 \$ \$ A. Market Value of Assets at Beginning of Year 20,543,939 19,046,675 B. Revenues and Expenditures 1. Contributions \$ 307,085 \$ 285,901 a. Employee Contributions 443,293 420,570 **Employer Contributions** b. c. Purchased Service Credit \$ \$ d. Total 750,378 706,471 2. Investment Income a. Interest, Dividends, and Other Income \$ 469,026 \$ 436,907 b. Net Realized/Unrealized Gains/(Losses) 773,637 1,803,517 (135,262) c. Investment Expenses (134,107) d. Net Investment Income \$ 1,107,401 \$ 2,106,317 3. Benefits and Refunds \$ a. Regular Monthly Benefits (1, 169, 394)\$ (1,076,808)b. Refunds (10,453) (60,181) c. Lump Sum Benefits Paid \_ d. DROP Distributions (775,090) (85,166) \$ \$ e. Total (1,954,937) (1,222,155)\$ 4. Administrative and Miscellaneous Expenses (86,097) \$ (93,369) \$ 5. Transfers \$ -\_ C. Market Value of Assets at End of Year \$ 20,360,684 \$ 20,543,939 D. DROP Accounts \$ \$ (971,853) (332,417) E. Market Value Net of Reserves \$ 20,028,267 \$ 19,572,086

![](_page_38_Picture_1.jpeg)

![](_page_38_Picture_2.jpeg)

	Valuation Date – September 30	2018	2019	2020	2021	2022	2023
Α.	Actuarial Value of Assets Beginning of Year	\$ 18,187,838	\$ 19,355,690				
В.	Market Value End of Year	20,543,939	20,360,684				
C.	Market Value Beginning of Year	19,046,675	20,543,939				
D.	Non-Investment/Administrative Net Cash Flow	(609,053)	(1,290,656)				
E.	Investment Income						
	E1. Actual Market Total: B-C-D	2,106,317	1,107,401				
	E2. Assumed Rate of Return	7.25%	7.00%	7.00%	7.00%	7.00%	7.00%
	E3. Assumed Amount of Return	1,306,704	1,320,069				
	E4. Amount Subject to Phase-In: E1–E3	799,613	(212,668)				
F.	Phased-In Recognition of Investment Income						
	F1. Current Year: 0.2 x E4	159,923	(42,534)				
	F2. First Prior Year	147,604	159,923	(42,534)			
	F3. Second Prior Year	96,061	147,604	159,923	(42,534)		
	F4. Third Prior Year	(86,378)	96,061	147,604	159,923	(42,534)	
	F5. Fourth Prior Year	152,991	(86 <i>,</i> 378)	96,063	147,605	159,921	(42,532)
	F6. Total Phase-Ins	470,201	274,676	361,056	264,994	117,387	(42,532)
G.	Actuarial Value of Assets End of Year						
	G1. Preliminary Actuarial Value of Assets End of Year:						
	A+D+E3+F6	\$ 19,355,690	\$ 19,659,779				
	G2. Upper Corridor Limit: 120%*B	24,652,727	24,432,821				
	G3. Lower Corridor Limit: 80%*B	16,435,151	16,288,547				
	G4. Actuarial Value of Assets End of Year	19,355,690	19,659,779				
	G5. DROP Accounts	(971,853)	(332,417)				
	G6. Final Actuarial Value of Assets End of Year	18,383,837	19,327,362				
Η.	Difference between Market & Actuarial Value of Assets	1,188,249	700,905				
١.	Actuarial Rate of Return	9.86%	8.46%				
J.	Market Value Rate of Return	11.15%	5.52%				
к.	Ratio of Actuarial Value of Assets to Market Value	94.22%	96.56%				

#### **Development of Actuarial Value of Assets**

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.

![](_page_39_Picture_3.jpeg)

#### **Reconciliation of DROP Accounts**

Year Ended	Balance at Beginning of	Adiustassast	Cuadita	Interest	Distributions	Balance at
9/50	fear	Aujustment		mieresi	Distributions	End of fear
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 <i>,</i> 090)	\$ 332,417

![](_page_40_Picture_2.jpeg)

Year Ending	Investment 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			
Average Returns:					
Last 5 Vears	9 E 0/	Q E 0/			
	0.5 %	J.J %			
	۵.8 %	7.0 %			
All Years	9.0 %	9.0 %			

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.

![](_page_41_Picture_2.jpeg)

**SECTION D** 

**FINANCIAL ACCOUNTING INFORMATION** 

	FASB NO. 35 INFORMA	ATION	
Α.	Valuation Date	October 1, 2019	October 1, 2018
В.	Actuarial Present Value of Accumulated Plan Benefits		
	1. Vested Benefits		
	<ul> <li>a. Members Currently Receiving Payments</li> <li>b. Terminated Vested Members</li> <li>c. Other Members</li> <li>d. Total</li> </ul>	\$ 13,769,536 444,025 4,688,536 18,902,097	\$ 12,900,593 469,564 4,989,445 18,359,602
	2. Non-Vested Benefits	91,655	42,019
	<ol> <li>Total Actuarial Present Value of Accumulated</li> <li>Plan Benefits: 1d + 2</li> </ol>	18,993,752	18,401,621
	4. Accumulated Contributions of Active Members	1,729,118	1,618,941
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits		
	1. Total Value at Beginning of Year	18,401,621	17,789,173
	2. Increase (Decrease) During the Period Attributable to:		
	<ul><li>a. Plan Amendment</li><li>b. Change in Actuarial Assumptions</li><li>c. Latest Member Data, Benefits Accumulated</li></ul>	0 0	0 429,577
	and Decrease in the Discount Period	1,908,561	1,497,508
	d. Benefits Paid (net basis)	(1,316,430)	(1,314,637)
	e. Net Increase	592,131	612,448
	3. Total Value at End of Period	18,993,752	18,401,621
D.	Market Value of Assets	20,028,267	19,572,086
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods		

![](_page_43_Picture_1.jpeg)

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

Fiscal year ending September 30,	 2020*	2019	2018	2017	2016	2015	2014
Total pension liability							
Service Cost	\$ 517,823	\$ 478,369	\$ 449,371	\$ 425,585	\$ 327,212	\$ 298,401	\$ 318,230
Interest	1,463,648	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	191,392	(114,573)	185,603	603,966	109,558	(166,972)	34,570
Assumption Changes	-	506,514	461,742	347,759	-	-	-
Benefit Payments	(1,468,687)	(1,944,484)	(1,161,974)	(1,585,026)	(1,731,453)	(993,482)	(908,927)
Refunds	 (54,991)	(10,453)	(60,181)	(18,047)	(39,929)	(53,595)	(60,675)
Net Change in Total Pension Liability	649,185	384,895	1,320,987	1,120,553	(1,847)	411,272	664,662
Total Pension Liability - Beginning	 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)	\$ 21,802,453	\$ 21,153,268	\$ 20,768,373	\$ 19,447,386	\$ 18,326,833	\$ 18,328,680	\$ 17,917,408
Plan Fiduciary Net Position							
Contributions - Employer	\$ 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	302,413	307,085	285,901	283,972	252,554	208,312	188,555
Net Investment Income	1,412,463	1,107,401	2,106,317	2,021,370	1,720,828	766,343	1,903,591
Benefit Payments	(1,468,687)	(1,944,484)	(1,161,974)	(1,585,026)	(1,731,453)	(993 <i>,</i> 482)	(908,927)
Refunds	(54,991)	(10,453)	(60,181)	(18 <i>,</i> 047)	(39,929)	(53 <i>,</i> 595)	(60,675)
Administrative Expense	(89,733)	(86,097)	(93 <i>,</i> 369)	(83 <i>,</i> 952)	(82,657)	(82,212)	(76,422)
Other	 -	-	-	-	-	-	 -
Net Change in Plan Fiduciary Net Position	574,325	(183,255)	1,497,264	956 <i>,</i> 868	437,300	189,602	1,412,326
Plan Fiduciary Net Position - Beginning	 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)	\$ 20,935,009	\$ 20,360,684	\$ 20,543,939	\$ 19,046,675	\$ 18,089,807	\$ 17,652,507	\$ 17,462,905
Net Pension Liability - Ending (a) - (b)	867,444	792,584	224,434	400,711	237,026	676,173	454,503
Plan Fiduciary Net Position as a Percentage							
of Total Pension Liability	96.02 %	96.25 %	98.92 %	97.94 %	98.71 %	96.31 %	97.46 %
Covered Payroll	\$ 3,639,150	\$ 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	23.84 %	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.

![](_page_44_Picture_3.jpeg)

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

						Plan Fiduciary	/		
	Total					Net Position			Net Pension Liability
FY Ending	Pension	Ρ	an Fiduciary	Ne	et Pension	as a % of Tota	al	Covered	Liability as a % of
September 30,	 Liability		let Position		Liability	Pension Liabilit	ty	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*	21,802,453		20,935,009		867,444	96.02%		3,639,150	23.84%

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

![](_page_45_Picture_3.jpeg)

# NOTES TO EMPLOYERS NET PENSION LIABILITY GASB Statement No. 67

Valuation Date:	October 1, 2019
Measurement Date:	September 30, 2020
Methods and Assumptions Us	sed 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	<ul> <li>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.</li> </ul>
Other Information:	
Notes	See Discussion of Valuation Results in Section A of this report.

![](_page_46_Picture_2.jpeg)

# SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

FY Ending September 30,	Ac De Cor	ctuarially termined ntribution	Con	Actual tribution*	_	Contribution Deficiency Covered (Excess) 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			-		3,639,150	12.99%

\* 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.

![](_page_47_Picture_4.jpeg)

# NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date: Notes October 1, 2018 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	22 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, 2018 Actuaria

See Discussion of Valuation Results in the October 1, 2018 Actuarial Valuation Report (dated April 25, 2019).

![](_page_48_Picture_6.jpeg)

# 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:

Current Single Discount							
	1% Decrease Rate Assumption 1% Increase						
	6.00%		7.00%		8.00%		
\$	3,296,422	\$	867,444	\$	(1,158,922)		

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

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

![](_page_49_Picture_6.jpeg)

**SECTION E** 

**MISCELLANEOUS INFORMATION** 

From 10/1/18 To 10/1/19From 10/1/17 To 10/1/18A. Active Members1. Number Included in Last Valuation762. New Members Included in Current Valuation103. Non-Vested Employment Terminations(4)4. Vested Employment Terminations01. SDROP Participation(3)6. Service Retirements00. Transfer from General Employees00. Number Included in This Valuation797676B. Terminated Vested Members01. Number Included in Last Valuation77. Additions from Active Members01. Number Included in Last Valuation77. Additions from Active Members01. Number Included in Last Valuation77. Additions from Active Members01. Number Included in Last Valuation77. Number Included in Last Valuation77. Number Included in This Valuation67. Number Included in Last Valuation67. Number Included in Last Valuation67. Additions from Active Members31. Number Included in Last Valuation67. Additions from Active Members31. Number Included in Last Valuation78. Cettrees, Disability Retirees and Beneficiaries1. Number Included in Last Valuation79. Other - Data Adjustment010. Service Re		RECONCILIATION OF MEMBERSHIP DATA							
To 10/1/19To 10/1/18A. Active Members1. Number Included in Last Valuation762. New Members Included in Current Valuation10143. Non-Vested Employment Terminations(4)(9)4. Vested Employment Terminations0(11)5. DROP Participation(3)008. Deaths0009. Transfer from General Employees010. Number Included in This Valuation7976778. Terminated Vested Members1. Number Included in Last Valuation77. Additions from Active Members01. Number Included in This Valuation77. Additions from Active Members01. Lump Sum Payments/Refund of Contributions0006. Other07. Number Included in This Valuation67. Number Included in Last Valuation67. Number Included in Last Valuation67. Number Included in Last Valuation67. Additions from Active Members01. Number Included in Last Valuation67. Number Included in Last Valuation7982Additions from Active Members01. Number Included in Last Valuation7982Additions from Active Members		From 10/1/17							
A. Active Members         1. Number Included in Last Valuation       76       73         2. New Members Included in Current Valuation       10       14         3. Non-Vested Employment Terminations       (4)       (9)         4. Vested Employment Terminations       0       (1)         5. DROP Participation       (3)       0         6. Service Retirements       0       0         7. Disability Retirements       0       0         8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       7       7         2. Additions from Active Members       0       0         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       0         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)       (1)         5. Deaths       0       0       0         6. Other       0       0       0         7. Number Included in This Valuation       6       7         2. Additions from Active Members       3       0         3. Retirements       (5) </td <td></td> <td></td> <td>To 10/1/19</td> <td>To 10/1/18</td>			To 10/1/19	To 10/1/18					
1. Number Included in Last Valuation       76       73         2. New Members Included in Current Valuation       10       14         3. Non-Vested Employment Terminations       (4)       (9)         4. Vested Employment Terminations       0       (1)         5. DROP Participation       (3)       0         6. Service Retirements       0       0         7. Disability Retirements       0       0         8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       7       7         2. Additions from Active Members       0       1         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       0         13. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)       (1)         5. Deaths       0       0       0         6. Other       7       0       0         7. Number Included in This Valuation       6       7         14. Additions from Active Members       3       0         3. Retirements       (5)       (1) <t< th=""><th>Α.</th><th>Active Members</th><th></th><th></th></t<>	Α.	Active Members							
2. New Members Included in Current Valuation       10       14         3. Non-Vested Employment Terminations       (4)       (9)         4. Vested Employment Terminations       0       (1)         5. DROP Participation       (3)       0         6. Service Retirements       0       (1)         7. Disability Retirements       0       0         8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       7       7         7. Additions from Active Members       0       0         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       0         13. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)       (1)         5. Deaths       0       0       0         6. Other       0       0       0       0         7. Number Included in This Valuation       6       7       0         7. Number Included in Last Valuation       6       7       0         9. Other       0       0       0       0         9. Other       0	1.	Number Included in Last Valuation	76	73					
3.       Non-Vested Employment Terminations       (4)       (9)         4.       Vested Employment Terminations       0       (1)         5.       DROP Participation       (3)       0         6.       Service Retirements       0       (1)         7.       Disability Retirements       0       0         8.       Deaths       0       0         9.       Transfer from General Employees       0       0         10.       Number Included in This Valuation       79       76         8.       Terminated Vested Members       0       1         1.       Number Included in Last Valuation       7       7         2.       Additions from Active Members       0       1         3.       Lump Sum Payments/Refund of Contributions       0       0         4.       Payments Commenced       (1)       (1)       (1)         5.       Deaths       0       0       0         6.       Other       0       0       0         7.       Number Included in This Valuation       6       7       2         8.       Other       0       0       0       0         9.       Other <td>2.</td> <td>New Members Included in Current Valuation</td> <td>10</td> <td>14</td>	2.	New Members Included in Current Valuation	10	14					
4. Vested Employment Terminations       0       (1)         5. DROP Participation       (3)       0         6. Service Retirements       0       (1)         7. Disability Retirements       0       0         8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       79       76         8. Terminated Vested Members       0       1         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)       (1)         5. Deaths       0       0       0         6. Other       0       0       0         7. Number Included in This Valuation       6       7         2. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0       0         6. Number Included in This Valuation       79       82         2.	3.	Non-Vested Employment Terminations	(4)	(9)					
5.       DROP Participation       (3)       0         6.       Service Retirements       0       (1)         7.       Disability Retirements       0       0         8.       Deaths       0       0         9.       Transfer from General Employees       0       0         10.       Number Included in This Valuation       79       76         8.       Terminated Vested Members       0       1         1.       Number Included in Last Valuation       7       7         2.       Additions from Active Members       0       0         3.       Lump Sum Payments/Refund of Contributions       0       0         4.       Payments Commenced       (1)       (1)       (1)         5.       Deaths       0       0       0         6.       Other       -       0       0       0         7.       Number Included in This Valuation       6       7       2       Additions from Active Members       3       0       3         8.       Retirements       (5)       (1)       1       4       6       0         0.       Other       Daaths Resulting in No Further Payments       0       0 </td <td>4.</td> <td>Vested Employment Terminations</td> <td>0</td> <td>(1)</td>	4.	Vested Employment Terminations	0	(1)					
6. Service Retirements       0       (1)         7. Disability Retirements       0       0         8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       79       76         8. Terminated Vested Members       0       1         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0       0         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0       0         6. Number Included in Last Valuation       79       82         7. Additions from Active Members       1       1         1. Number Included in Last V	5.	DROP Participation	(3)	0					
7. Disability Retirements       0       0         8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       79       76         B. Terminated Vested Members       0       1         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0         6. Number Included in Last Valuation       79       82         7. Additions from Active Members       1       1         9. Other - Data Adjustment       0       1         9. Service Retirees, Disability Retirees and Beneficiaries </td <td>6.</td> <td>Service Retirements</td> <td>0</td> <td>(1)</td>	6.	Service Retirements	0	(1)					
8. Deaths       0       0         9. Transfer from General Employees       0       0         10. Number Included in This Valuation       79       76         B. Terminated Vested Members       79       76         B. Terminated Vested Members       0       1         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         1. Number Included in Last Valuation       6       7         2. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0       0         6. Number Included in Last Valuation       79       82         2. Additions from Active Members       1       1         4. Additions from Terminated	7.	Disability Retirements	0	0					
9. Transfer from General Employees       0       0         10. Number Included in This Valuation       79       76         B. Terminated Vested Members       0       1         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0         7. Number Included in This Valuation       6       7         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0       0         6. Number Included in Last Valuation       79       82         7. Additions from Active Members       1       1         8. Additions from Terminated Vested Members       1       1         9. Other - Data Adjustment       0       1       1	8.	Deaths	0	0					
10. Number Included in This Valuation       79       76         B. Terminated Vested Members       7       7         1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)       (1)         5. Deaths       0       0       0         6. Other       0       0       0         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Additions from Active Members       3       0         1. Number Included in Last Valuation       6       7         2. Additions from Active Members       0       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       1         6. Number Included in Last Valuation       79       82         2. Additions from Active Members       1       1         4. Additions from DROP Plan       5       1	9.	Transfer from General Employees	0	0					
B. Terminated Vested Members         1. Number Included in Last Valuation       7         2. Additions from Active Members       0         3. Lump Sum Payments/Refund of Contributions       0         4. Payments Commenced       (1)         5. Deaths       0         6. Other       0         7. Number Included in This Valuation       6         7. Number Included in Last Valuation       6         7. Number Included in Last Valuation       6         7. Additions from Active Members       3         1. Number Included in Last Valuation       6         7. Additions from Active Members       3         1. Number Included in Last Valuation       6         7. Additions from Active Members       3         0. Other - Data Adjustment       0         0. Service Retirees, Disability Retirees and Beneficiaries         1. Number Included in Last Valuation       79         82       Additions from Active Members         1. Number Included in Last Valuation       79         2. Additions from Active Members       1         3. Additions from DROP Plan       5         3. Additions from DROP Plan       5         4. Additions from DROP Plan       5         5. Deaths Resulting in New Survivor Benefits	10.	Number Included in This Valuation	79	76					
1. Number Included in Last Valuation       7       7         2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0       0         6. Number Included in Last Valuation       79       82         7. Additions from Active Members       0       1         8. Other - Data Adjustment       0       1         9. Service Retirees, Disability Retirees and Beneficiaries       1       1         1. Number Included in Last Valuation       79       82         2. Additions from Active Members       1       1         1. Additions from Terminated Vested Members       1       1         3. Additions from DROP Plan       5       1 <td< td=""><td>В.</td><td>Terminated Vested Members</td><td></td><td></td></td<>	В.	Terminated Vested Members							
2. Additions from Active Members       0       1         3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0         7. Number Included in This Valuation       6       7         7. Number Included in Last Valuation       6       7         7. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0         6. Number Included in Last Valuation       79       82         7. Additions from Active Members       0       1         8. Other - Data Adjustment       0       1         9. Service Retirees, Disability Retirees and Beneficiaries       1       1         1. Number Included in Last Valuation       79       82         2. Additions from Active Members       1       1         1. Additions from Terminated Vested Members       1       1         3. Additions from DROP Plan       5       1       1         5. Deaths Resulting in No Further Payments       (4)       (6)	1.	Number Included in Last Valuation	7	7					
3. Lump Sum Payments/Refund of Contributions       0       0         4. Payments Commenced       (1)       (1)         5. Deaths       0       0         6. Other       0       0         7. Number Included in This Valuation       6       7         C. DROP Plan Members       3       0         1. Number Included in Last Valuation       6       7         2. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0         6. Number Included in This Valuation       79       82         1. Number Included in Last Valuation       79       82         2. Additions from Active Members       0       1         3. Additions from Terminated Vested Members       1       1         4. Additions from DROP Plan       5       1       1         5. Deaths Resulting in No Further Payments       (4)       (6)         6. Deaths Resulting in No Further Payments       0       0         7. End of Certain Period - No Further Payments       0       0         8. Other - Data Adjustment       0       0       0 </td <td>2.</td> <td>Additions from Active Members</td> <td>0</td> <td>1</td>	2.	Additions from Active Members	0	1					
4. Payments Commenced(1)(1)5. Deaths006. Other007. Number Included in This Valuation67C. DROP Plan Members301. Number Included in Last Valuation672. Additions from Active Members303. Retirements(5)(1)4. Deaths Resulting in No Further Payments005. Other - Data Adjustment006. Number Included in Last Valuation46D. Service Retirees, Disability Retirees and Beneficiaries11. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Active Members114. Additions from Terminated Vested Members115. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in No Further Payments207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2372	3.	Lump Sum Payments/Refund of Contributions	0	0					
5. Deaths006. Other007. Number Included in This Valuation67C. DROP Plan Members71. Number Included in Last Valuation672. Additions from Active Members303. Retirements(5)(1)4. Deaths Resulting in No Further Payments005. Other - Data Adjustment006. Number Included in This Valuation46D. Service Retirees, Disability Retirees and Beneficiaries11. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Active Members114. Additions from Terminated Vested Members115. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in No Further Payments008. Other - Data Adjustment009. Number Included in This Valuation79821. Number Included in Last Valuation79822. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments006. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation72	4.	Payments Commenced	(1)	(1)					
6. Other       0       0         7. Number Included in This Valuation       6       7         C. DROP Plan Members       3       0         1. Number Included in Last Valuation       6       7         2. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0         6. Number Included in This Valuation       4       6         D. Service Retirees, Disability Retirees and Beneficiaries       1       1         1. Number Included in Last Valuation       79       82         2. Additions from Active Members       0       1         3. Additions from Terminated Vested Members       1       1         4. Additions from DROP Plan       5       1         5. Deaths Resulting in No Further Payments       (4)       (6)         6. Deaths Resulting in New Survivor Benefits       2       0         7. End of Certain Period - No Further Payments       0       0         8. Other - Data Adjustment       0       0       0         9. Number Included in This Valuation       72       72	5.	Deaths	0	0					
7.Number Included in This Valuation67C.DROP Plan Members1.Number Included in Last Valuation672.Additions from Active Members303.Retirements(5)(1)4.Deaths Resulting in No Further Payments005.Other - Data Adjustment006.Number Included in This Valuation46D.Service Retirees, Disability Retirees and Beneficiaries013.Additions from Active Members013.Additions from Terminated Vested Members114.Additions from DROP Plan515.Deaths Resulting in No Further Payments(4)(6)6.Deaths Resulting in No Further Payments207.End of Certain Period - No Further Payments008.Other - Data Adjustment0000.Number Included in This Valuation7082	6.	Other	0	0					
C. DROP Plan Members         1. Number Included in Last Valuation       6       7         2. Additions from Active Members       3       0         3. Retirements       (5)       (1)         4. Deaths Resulting in No Further Payments       0       0         5. Other - Data Adjustment       0       0         6. Number Included in This Valuation       4       6         D. Service Retirees, Disability Retirees and Beneficiaries       0       1         1. Number Included in Last Valuation       79       82         2. Additions from Active Members       0       1         3. Additions from Terminated Vested Members       1       1         4. Additions from DROP Plan       5       1         5. Deaths Resulting in No Further Payments       (4)       (6)         6. Deaths Resulting in New Survivor Benefits       2       0         7. End of Certain Period - No Further Payments       0       0         8. Other - Data Adjustment       0       0       0         9. Number Included in This Valuation       70       70	7.	Number Included in This Valuation	6	7					
1.Number Included in Last Valuation672.Additions from Active Members303.Retirements(5)(1)4.Deaths Resulting in No Further Payments005.Other - Data Adjustment006.Number Included in This Valuation46 <b>D.</b> Service Retirees, Disability Retirees and Beneficiaries013.Additions from Active Members013.Additions from Terminated Vested Members114.Additions from DROP Plan515.Deaths Resulting in No Further Payments(4)(6)6.Deaths Resulting in New Survivor Benefits207.End of Certain Period - No Further Payments008.Other - Data Adjustment009.Number Included in This Valuation70	C.	DROP Plan Members							
2. Additions from Active Members303. Retirements(5)(1)4. Deaths Resulting in No Further Payments005. Other - Data Adjustment006. Number Included in This Valuation46 <b>D. Service Retirees, Disability Retirees and Beneficiaries</b> 1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in Ne Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation79	1.	Number Included in Last Valuation	6	7					
3. Retirements(5)(1)4. Deaths Resulting in No Further Payments005. Other - Data Adjustment006. Number Included in This Valuation46 <b>D. Service Retirees, Disability Retirees and Beneficiaries</b> 1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation70	2.	Additions from Active Members	3	0					
4. Deaths Resulting in No Further Payments005. Other - Data Adjustment006. Number Included in This Valuation46 <b>D. Service Retirees, Disability Retirees and Beneficiaries</b> 1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment009. Number Included in This Valuation72	3.	Retirements	(5)	(1)					
5. Other - Data Adjustment006. Number Included in This Valuation46 <b>D. Service Retirees, Disability Retirees and Beneficiaries</b> 1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	4.	Deaths Resulting in No Further Payments	0	0					
6. Number Included in This Valuation46D. Service Retirees, Disability Retirees and Beneficiaries1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	5.	Other - Data Adjustment	0	0					
D. Service Retirees, Disability Retirees and Beneficiaries1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	6.	Number Included in This Valuation	4	6					
1. Number Included in Last Valuation79822. Additions from Active Members013. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	D.	Service Retirees, Disability Retirees and Beneficiaries	5						
2.Additions from Active Members013.Additions from Terminated Vested Members114.Additions from DROP Plan515.Deaths Resulting in No Further Payments(4)(6)6.Deaths Resulting in New Survivor Benefits207.End of Certain Period - No Further Payments008.Other - Data Adjustment009.Number Included in This Valuation2270	1.	Number Included in Last Valuation	79	82					
3. Additions from Terminated Vested Members114. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	2.	Additions from Active Members	0	1					
4. Additions from DROP Plan515. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	3.	Additions from Terminated Vested Members	1	1					
5. Deaths Resulting in No Further Payments(4)(6)6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment000. Number Included in This Valuation2270	4.	Additions from DROP Plan	5	1					
6. Deaths Resulting in New Survivor Benefits207. End of Certain Period - No Further Payments008. Other - Data Adjustment009. Number Included in This Valuation2270	5.	Deaths Resulting in No Further Payments	(4)	(6)					
7. End of Certain Period - No Further Payments     0     0       8. Other - Data Adjustment     0     0       9. Number Included in This Valuation     22     70	6.	Deaths Resulting in New Survivor Benefits	2	0					
8. Other - Data Adjustment 0	7.	End of Certain Period - No Further Payments	0	0					
0 Number Included in This Valuation	8.	Other - Data Adjustment	0	0					
9. Number included in this valuation 83 / 79	9.	Number Included in This Valuation	83	79					

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Active Members as of October 1, 2019													
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.	3	1	1	0	0	0	0	0	0	0	0	0	5
TOT PAY	73,603	31,954	37,674	0	0	0	0	0	0	0	0	0	143,231
AVG PAY	24,534	31,954	37,674	0	0	0	0	0	0	0	0	0	28,646
25-29 NO.	2	6	3	2	2	1	0	0	0	0	0	0	16
TOT PAY	60,433	208,402	89,723	92,218	74,108	44,887	0	0	0	0	0	0	569,771
AVG PAY	30,216	34,734	29,908	46,109	37,054	44,887	0	0	0	0	0	0	35,611
30-34 NO.	2	2	3	6	0	2	0	0	0	0	0	0	15
TOT PAY	48,375	63,769	102,468	240,944	0	141,701	0	0	0	0	0	0	597,257
AVG PAY	24,187	31,884	34,156	40,157	0	70,850	0	0	0	0	0	0	39,817
35-39 NO.	0	1	1	2	1	2	0	1	0	0	0	0	8
TOT PAY	0	28,992	53,073	70,192	34,314	78,795	0	55,885	0	0	0	0	321,251
AVG PAY	0	28,992	53,073	35,096	34,314	39,398	0	55,885	0	0	0	0	40,156
40-44 NO.	1	0	0	0	0	2	0	1	0	0	0	0	4
TOT PAY	33,803	0	0	0	0	190,103	0	44,859	0	0	0	0	268,765
AVG PAY	33,803	0	0	0	0	95,052	0	44,859	0	0	0	0	67,191
45-49 NO.	0	0	1	1	3	0	2	0	0	1	0	0	8
TOT PAY	0	0	58,287	40,241	209,239	0	160,779	0	0	54,700	0	0	523,246
AVG PAY	0	0	58,287	40,241	69,746	0	80,390	0	0	54,700	0	0	65,406
50-54 NO.	1	1	0	0	1	0	1	5	0	0	1	0	10
TOT PAY	28,412	33,929	0	0	47,249	0	90,172	257,507	0	0	60,337	0	517,606
AVG PAY	28,412	33,929	0	0	47,249	0	90,172	51,501	0	0	60,337	0	51,761
55-59 NO.	0	0	0	1	0	0	2	1	0	0	0	1	5
TOT PAY	0	0	0	56,350	0	0	80,676	45,883	0	0	0	54,700	237,609
AVG PAY	0	0	0	56,350	0	0	40,338	45,883	0	0	0	54,700	47,522
60-64 NO.	1	0	0	2	1	0	1	1	0	0	0	0	6
TOT PAY	23,473	0	0	87,005	36,002	0	31,277	55,968	0	0	0	0	233,725
AVG PAY	23,473	0	0	43,502	36,002	0	31,277	55,968	0	0	0	0	38,954
65-99 NO.	0	0	1	0	0	1	0	0	0	0	0	0	2
TOT PAY	0	0	26,154	0	0	94,271	0	0	0	0	0	0	120,425
AVG PAY	0	0	26,154	0	0	94,271	0	0	0	0	0	0	60,213
TOT NO.	10	11	10	14	8	8	6	9	0	1	1	1	79
TOT AMT	268,099	367,046	367,379	586,950	400,912	549,757	362,904	460,102	0	54,700	60,337	54,700	3,532,886
AVG AMT	26,810	33,368	36,738	41,925	50,114	68,720	60,484	51,122	0	54,700	60,337	54,700	44,720

![](_page_52_Picture_1.jpeg)

	Inactive Members as of October 1, 2019									
	Terminat	ed Vested	Disabled		R	etired	Benef	iciaries	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	15,983	-	-	-	-	1	7,236	2	23,219
45 - 49	-	-	-	-	-	-	-	-	-	-
50 - 54	-	-	1	22,125	2	86,528	-	-	3	108,653
55 - 59	3	23,487	-	-	9	201,619	-	-	12	225,106
60 - 64	1	5,264	-	-	7	107,916	1	23,074	9	136,254
65 - 69	-	-	-	-	16	303,070	-	-	16	303,070
70 - 74	-	-	-	-	9	100,403	2	16,024	11	116,427
75 - 79	-	-	-	-	15	242,357	3	12,854	18	255,211
80 - 84	-	-	1	7,905	8	114,103	1	12,104	10	134,112
85 - 89	-	-	-	-	5	41,740	2	16,598	7	58,338
90 - 94	-	-	-	-	2	19,287	1	31,538	3	50 <i>,</i> 825
95 - 99	-	-	-	-	1	31,583	-	-	1	31,583
100 & Over	-	-	-	-	-	-	-	-	-	-
Total	6	54,094	2	30,030	74	1,248,606	11	119,428	93	1,452,158

![](_page_53_Picture_1.jpeg)

**SECTION F** 

**SUMMARY OF PLAN PROVISIONS** 

# SUMMARY OF PLAN PROVISIONS

#### 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, <u>Florida Statutes</u> 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.

![](_page_55_Picture_17.jpeg)

#### 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<br/>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.

![](_page_56_Picture_19.jpeg)

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.

![](_page_57_Picture_19.jpeg)

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.

![](_page_58_Picture_18.jpeg)

#### 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. 13<sup>th</sup> Check

Not Applicable

#### X. Deferred Retirement Option Plan

Eligibility:	Plan members are eligible for the DROP upon the attainment of the earlier of:
	<ul><li>(1) age 62 and 5 years of Credited Service, or</li><li>(2) when age plus Credited Service equals 75 years.</li></ul>
	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:
	<ol> <li>Lump Sum, or</li> <li>Any other form of payment selected by the participant, approved by the Board and conforming to all applicable laws.</li> </ol>
COLA:	None

![](_page_59_Picture_10.jpeg)

#### 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.

![](_page_60_Picture_4.jpeg)