City of Hollywood Employees' Retirement Fund

ACTUARIAL VALUATION REPORT AS OF OCTOBER 1, 2021

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2023







June 23, 2022

Board of Trustees City of Hollywood Employees' Retirement Fund Hollywood, Florida

Re: City of Hollywood Employees' Retirement Fund Actuarial Valuation as of October 1, 2021

Dear Members of the Board:

The results of the October 1, 2021 Annual Actuarial Valuation of the City of Hollywood (City) Employees' Retirement Fund (Retirement Fund or Plan) are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Retirement Fund and those designated or approved by the Board. This report may be provided to parties other than the Retirement Fund 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 Retirement Fund's funding progress and to determine the employer contribution rate for the fiscal year ending September 30, 2023. 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 October 1, 2021. The valuation was based upon information furnished by the Plan Administrator and the City concerning plan benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator and the City.

This report was prepared using certain assumptions approved by the Board as authorized under 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

Board of Trustees June 23, 2022 Page ii

assumed mortality rates detailed in the Actuarial Assumptions and Cost Method section were prescribed by the Florida Statutes in accordance with Chapter 112.63, Florida Statutes. 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 Retirement Fund as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.

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

Jeffrey Amrose and Trisha Amrose are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein.

The signing actuaries are independent of the plan sponsor.

This actuarial valuation and/or cost determination was prepared and completed by us or under our direct supervision, and we acknowledge responsibility for the results. To the best of our knowledge, the results are complete and accurate. In our opinion, the techniques and assumptions used are reasonable, meet the requirements and intent of Part VII, Chapter 112, Florida Statutes, and are based on generally accepted actuarial principles and practices. There is no benefit or expense to be provided by the Plan and/or paid from the Plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Gabriel, Roeder, Smith & Company (GRS) 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

Jeffrey Amrose, MAAA, FCA

Enrolled Actuary No. 20-6599 Senior Consultant & Actuary Trisha Amrose, MAAA, FCA Enrolled Actuary No. 20-8010

Consultant & Actuary



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DISCUSSION OF VALUATION RESULTS

DISCUSSION OF VALUATION RESULTS

Comparison of Required Employer Contributions

The following is a comparison of required contributions developed in this year's and last year's actuarial valuations.

Required Employer Contribution	For FYE 9/30/2023 Based on 10/1/2021 Valuation		Fo	r FYE 9/30/2022 Based on 10/1/2020 Valuation	Increase (Decrease)
If paid in full on October 1 Date of Payment		10/1/2022		10/1/2021	
Actuarially Determined Contribution As a Dollar Amount As % of Covered Payroll	\$	25,505,646 58.77 %	\$	28,082,806 66.52 %	\$ (2,577,160) (7.75) %
Additional Installment Payment Toward Previous Contribution Shortfall	\$	0 *	\$	3,072,428 *	\$ (3,072,428)
Total Required Contribution	\$	25,505,646 **	\$	31,155,234	\$ (5,649,588)

^{*} The installment payment amount shown above for the FYE 9/30/2022 was paid by the City on 10/1/2021. In addition, the remaining balance of the previous contribution shortfall was fully paid off by the City in April 2022, resulting in no further payments due. Please see below for additional details.

Payment of Required Contribution

The required contribution displayed above is the required contribution if the payment is made in full on the first day of the fiscal year. The required contribution if paid biweekly during the fiscal year, adjusted for interest on the basis that payment is made at the end of each pay period, is shown on page 9.

The actual employer contribution for the fiscal year ending September 30, 2021 was \$29,944,811 (\$29,914,898 from the City plus \$29,913 from the County). This satisfied the required amount for the year.



^{**} This amount does not yet reflect a reduction for the \$13,173 excess City contribution from April 2022 which can be used as a credit toward the upcoming required contribution payment. Please see below for additional details.

This report reflects a \$11,112,130 receivable employer contribution as of September 30, 2021. The \$11,112,130 receivable contribution is the remaining City contribution shortfall as of September 30, 2021 due to the City making the required contribution excluding the pre-funding of the Supplemental Pension Distribution for the fiscal years ending September 30, 2015 through September 30, 2020. The State has permitted the City to pay this outstanding amount over a five-year period beginning October 1, 2020. The five years of installment payments were originally determined in our September 18, 2020 letter. The second through the fifth installment payment amounts were subsequently recalculated to reflect the updated 7.3% investment return assumption approved by the Board effective October 1, 2020.

Subsequent to the valuation date, the second installment payment was made on October 1, 2021 and the remaining balance owed was fully paid in April 2022, resulting in no further payments due. Since the investment return assumption was lowered to 7% effective October 1, 2021, the remaining balance owed by the City in April 2022 would have been \$13,173 less, resulting in an overpayment by the City of \$13,173 which can be used as a credit toward the upcoming required contribution payment.

Revisions in Benefits

There were no revisions in benefits since the previous valuation.

Revisions in Actuarial Assumptions or Methods

The investment return assumption was lowered from 7.30% to 7.00%, net of investment expenses, effective October 1, 2021. This assumption change caused the required employer contribution to increase by about \$1,200,000, or 2.75% of covered payroll.

Actuarial Experience

There was a net actuarial gain of \$720,822 for the year, which means that actual experience was slightly more favorable than anticipated. The gain is primary due to the recognized investment return exceeding the assumed rate of 7.3%. The recognized investment return was 10.0% based on actuarial value of assets (21.3% based on market value of assets). The investment gain was mostly offset by liability losses primarily due to the payment of a Supplemental Pension Distribution triggered by the investment return for the FYE 2021. The net gain decreased the required employer contribution by 0.10% of covered payroll.

Supplemental Pension Distribution

Since the investment return for the fiscal year ending September 30, 2021 is above 11.8% (i.e., 4.5% above the 7.3% assumed rate effective for the fiscal year ending September 30, 2021), a Supplemental Pension Distribution is payable for the fiscal year ending September 30, 2021. The Supplemental Pension Distribution is equal to the investment return above 11.8%, but no more than 2%, multiplied by the liability for eligible members. Since the investment return on the market value of assets was 21.3% for the fiscal year ending September 30, 2021, the Supplemental Pension Distribution is calculated as 2% of the liability for eligible members. The Supplemental Pension Distribution amount is \$7,578,907 for the fiscal year ending September 30, 2021 payable to 909 eligible pensioners.



Funded Ratio

The funded ratio this year is 64.1% compared to 63.3% last year. The funded ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

Analysis of Change in Employer Contributions

The components of change in the required employer contribution as a percent of payroll reflecting biweekly timing are as follows:

Contribution Rate Last Year	68.96 %
Changes in Benefits	0.00
Changes in Actuarial Assumptions	2.75
Actuarial Experience	(0.10)
Amortization Payment on UAAL	(10.61) *
Normal Cost Rate	(0.28)
Administrative Expenses	0.12
Contribution Rate This Year	60.84

^{*} Primarily due to an increase in the payroll growth assumption limited to the actual 10-year average payroll growth, which increased from 0.51% last year to 3.47% this year.

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 \$34,900,322 as of the valuation date (see Section C). This difference will be gradually recognized over the next several years. In turn, the computed employer contribution rate will decrease by approximately 4.7% of covered payroll over the same period in the absence of offsetting losses.

Another potential area of variability has to do with the annual payment on the unfunded accrued liability (UAL). This payment is computed as a level percent of covered payroll under the assumption that covered payroll will rise by 3.5% per year or, if less, the average payroll growth over the most recent ten years. The most recent ten-year average is 3.47% compared to 0.51% last year. If the ten-year average falls below this rate next year, the amortization payments will increase. For example, if the payroll growth assumption was lowered to 0%, the UAL payment would have increased from \$20,313,491 to \$24,684,781.



Relationship to Market Value

If market value of assets had been used in the valuation instead of the actuarial value of assets, the City contribution rate on a bi-weekly basis would have been 56.17%, and the funded ratio would have been 69.8%. In the absence of other gains and losses, the City contribution rate should decrease to that level over the next several years.

Conclusion and Recommendations

It is important to note that plan assets are not sufficient to cover the liabilities for current retirees. As of October 1, 2021, the market value of assets is \$428.2 million (including the receivable City contribution), and the liability for current inactive members is \$498.0 million.

The funded ratio dropped from 82.5% in 2000 to the current level of 64.1%. Some steps have been taken to improve funding, such as strengthening the actuarial assumptions including lowering the assumed investment return rate and shortening the amortization period. If the maximum amortization period were shortened from 28 years to 25 years in this valuation, the actuarially determined contribution would increase by approximately \$210,000. This would result in higher contributions in the short-term for the City but would also have a positive effect on improving the funded ratio of the plan.

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



RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION

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

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

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

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

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

The computed contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with the Board's funding policy and Florida Statutes. 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>2021</u>	<u>2020</u>
Ratio of the market value of assets to payroll	10.21	8.92
Ratio of actuarial accrued liability to payroll	14.64	14.30
Ratio of actives to retirees and beneficiaries	0.5	0.5
Ratio of net cash flow to market value of assets	-1.01 %	-0.54 %

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 supermature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.



Ratio of Net Cash Flow to Market Value of Assets

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

Additional Risk Assessment

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



SECTION B

VALUATION RESULTS

PARTICIPANT DATA							
	Oct	tober 1, 2021	Oct	tober 1, 2020			
ACTIVE MEMBERS							
Number		603		599			
Covered Annual Payroll	\$	41,931,489	\$	40,789,456			
Average Annual Payroll	\$	69,538	\$	68,096			
Average Age		47.4		47.0			
Average Past Service		8.9		9.1			
Average Age at Hire		38.5		37.9			
ACTIVE TRANSFERS							
Number		9		9			
Covered Annual Payroll	\$	1,080,077	\$	1,094,220			
Average Annual Payroll	\$	120,009	\$	121,580			
Average Age		45.9		44.9			
Average Past Service		3.0		3.0			
RETIREES, BENEFICIARIES & DROP PLAN MEMBERS			!				
Number		1,094		1,094			
Annual Benefits ¹	\$	35,559,041	\$	34,265,778			
Average Annual Benefit	\$	32,504	\$	31,322			
Average Age		68.4		68.2			
DISABILITY RETIREES							
Number		37		42			
Annual Benefits ¹	,	_	۲ ا				
	\$ \$	1,104,635	\$ \$	1,203,376			
Average Age	\$	29,855 66.2	>	28,652 65.9			
Average Age		00.2		65.9			
TERMINATED VESTED MEMBERS							
Number		54		54			
Annual Benefits	\$	783,960	\$	781,355			
Average Annual Benefit	\$	14,518	\$	14,470			
Average Age		49.4		48.7			
	<u> </u>						

¹ Does not include any Supplemental Pension Distribution.



ACTUARIALLY DETERMINED CONTRIBUTION (ADC)									
Α.	Valuation Date	October 1, 2021 After Assumption Change	October 1, 2021 Before Assumption Change	October 1, 2020					
В.	ADC to Be Paid During Fiscal Year Ending	9/30/2023	9/30/2023	9/30/2022					
C.	Assumed Date of Employer Contribution	Biweekly	Biweekly	Biweekly					
D.	Annual Payment to Amortize Unfunded Actuarial Accrued Liability	\$ 20,313,491	\$ 19,578,193	\$ 23,257,751					
E.	Employer Normal Cost	4,329,102	3,920,217	3,875,138					
F.	ADC if Paid on the Valuation Date: D + E	24,642,593	23,498,410	27,132,889					
G.	ADC Adjusted for Frequency of Payments	25,509,100	24,358,898	28,126,468					
Н.	ADC as % of Covered Payroll	60.84 %	58.09 %	68.96 %					
1.	Assumed Rate of Increase in Covered Payroll to Contribution Year	3.50 %	3.50 %	3.50 %					
J.	Covered Payroll for Contribution Year	43,399,091	43,399,091	42,217,087					
К.	ADC for Contribution Year: H x J	26,404,007	25,210,532	29,112,903					
L.	ADC as % of Covered Payroll in Contribution Year: K ÷ J	60.84 %	58.09 %	68.96 %					
M.	ADC for Contribution Year if Paid in Full on the First Day of the Fiscal Year	25,505,646	24,320,851	28,082,806					
N.	ADC as % of Covered Payroll in Contribution Year: K ÷ J	58.77 %	56.04 %	66.52 %					

Please see pages 1 and 2 for information regarding the installment payment toward the previous contribution shortfall due from the City in addition to the Actuarially Determined Contribution.



ALLOCATION OF REQUIRED EMPLOYER CONTRIBUTION BY EMPLOYEE GROUP									
	Employer Normal Cost	% of Total	Active Actuarial	% of Active Actuarial	Allocated Required Employer Contribution for FYE 9/30/2023				
Group	(Before Expenses)	Employer Normal Cost	Accrued Liability	Accrued Liability	Percentage	Dollar Amount			
Non-General Fund Members	\$ 1,037,747	29.41%	\$ 34,300,221	29.62%	29.58%	\$ 7,810,390			
Grandfathered Non-General Fund Members	92,545	2.62%	3,432,157	2.96%	2.90%	766,677			
General Fund Members	2,367,324	67.11%	77,094,269	66.57%	66.67%	17,602,782			
Grandfathered General Fund Members	30,493	0.86%	979,451	0.85%	0.85%	224,158			
Total	\$ 3,528,109	100.00%	\$ 115,806,098	100.00%	100.00%	\$ 26,404,007			

^{*} The Employer Normal Cost is allocated based on each group's percentage of the Employer Normal Cost for benefits, and the annual payment to amortize the UAL is allocated based on each group's percentage of the Actuarial Accrued Liability for active members.



ACTUARIAL VALUE OF BENEFITS AND ASSETS								
A. Valuation Date	October 1, 2021 After Assumption	October 1, 2021 Before Assumption	October 1, 2020					
B. Actuarial Present Value of All Projected	Change	Change						
Benefits for								
1. Active Members								
a. Service Retirement Benefits	\$ 141,995,025	\$ 134,500,162	\$ 137,574,654					
b. Vesting Benefits	10,248,113	9,643,017	9,540,949					
c. Disability Benefits	14,148,831	13,547,787	13,293,353					
d. Preretirement Death Benefits	3,886,348	3,696,315	3,725,734					
e. Return of Member Contributions	1,277,638	1,271,448	1,292,328					
f. Total	171,555,955	162,658,729	165,427,018					
2. Inactive Members								
a. Service Retirees & Beneficiaries	477,302,691	463,759,075	447,754,013					
b. Disability Retirees	13,412,039	13,057,067	14,248,663					
c. Terminated Vested Members	7,283,836	6,934,616	6,861,309					
d. Total	497,998,566	483,750,758	468,863,985					
3. Total for All Members	669,554,521	646,409,487	634,291,003					
C. Actuarial Accrued (Past Service) Liability (Entry Age Normal)	613,804,664	594,802,819	583,426,971					
D. Actuarial Present Value of Accumulated Plan Benefits per FASB Statement No. 35	599,454,792	585,206,984	564,417,201					
E. Plan Assets 1. Market Value	428,178,689	428,387,715	363,673,004					
2. Actuarial Value	393,278,367	393,487,393	369,068,328					
F. Unfunded Actuarial Accrued Liability: C - E2	220,526,297	201,315,426	214,358,643					
G. Actuarial Present Value of Projected Covered Payroll	353,234,225	347,068,824	335,515,413					
H. Actuarial Present Value of Projected Member Contributions	29,228,975	28,725,014	27,949,553					
Accumulated Contributions of Active Members	23,525,448	23,525,448	23,086,919					



	CALCULATION OF EMPLOYER NORMAL COST									
	Valuation Date Normal Cost for				ctober 1, 2021 fore Assumption Change	O	ctober 1, 2020			
,	 Service Retirement Benefits Vesting Benefits Disability Benefits Preretirement Death Benefits Return of Member Contributions Total for Future Benefits Assumed Amount for Administrative Expenses Total Normal Cost 	\$ -	4,742,447 911,456 884,410 178,366 323,559 7,040,238 800,993 7,841,231	\$	4,429,641 855,496 850,045 168,863 327,308 6,631,353 800,993 7,432,346	\$ _	4,413,003 865,959 816,281 170,205 317,658 6,583,106 731,022 7,314,128			
C.	Expected Member Contribution		3,512,129		3,512,129		3,438,990			
D.	Employer Normal Cost: B8-C		4,329,102		3,920,217		3,875,138			
E.	Employer Normal Cost as % of Covered Payroll		10.32 %		9.34 %		9.50 %			



LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

	ortization Period and P Original UAAL			Curi	ent	UAAL		
Date			Years			Pavr	nent	
Established	Source	Amount	Remaining	Amount	Af	ter Changes		ore Changes
10/1/08	Combined Base	\$ 120,402,171	7	\$ 71,161,378	\$	11,217,013	\$	11,307,205
10/1/08	Assumption Change	6,133,233	17	5,888,299		446,937		455,995
10/1/09	Experience Loss	21,720,025	18	19,605,848		1,426,903		1,457,450
10/1/10	Experience Loss	5,090,043	19	4,564,106		319,462		326,661
10/1/10	Assumption Change	(11,684,981)	19	(10,477,615)		(733,375)		(749,901)
10/1/10	Plan Change	(17,448,058)	19	(15,645,216)		(1,095,079)		(1,119,756)
10/1/11	Experience Loss	26,493,199	20	23,881,452		1,611,922		1,650,038
10/1/12	Experience Loss	16,888,651	21	15,148,849		988,394		1,012,850
10/1/13	Experience Loss	934,513	22	848,251		53,615		55,000
10/1/13	Plan Change	5,490,249	22	4,983,458		314,988		323,123
10/1/13	Assumption Change	23,450,820	22	21,286,134		1,345,427		1,380,174
10/1/14	Experience Gain	(4,233,453)	23	(3,871,250)		(237,512)		(243,900)
10/1/14	Assumption Change	5,726,542	23	5,236,594		321,280		329,921
10/1/15	Experience Gain	(3,077,339)	24	(2,868,210)		(171,120)		(175,902)
10/1/15	Assumption Change	4,368,350	24	4,071,487		242,908		249,697
10/1/15	Plan Change	598,036	24	557,396		33,255		34,184
10/1/16	Experience Gain	(11,069,062)	25	(10,493,354)		(609,779)		(627,454)
10/1/16	Assumption Change	23,064,814	25	21,865,200		1,270,608		1,307,437
10/1/17	Experience Gain	(3,970,427)	26	(3,807,695)		(215,847)		(222,324)
10/1/17	Assumption Change	5,064,314	26	4,856,749		275,314		283,576
10/1/18	Experience Gain	(4,790,305)	27	(4,657,811)		(257,925)		(265,926)
10/1/18	Assumption Change	5,193,624	27	5,049,974		279,641		288,316
10/1/18	Plan Change	47,242,260	27	45,935,593		2,543,673		2,622,577
10/1/19	Experience Gain	(871,242)	28	(847,172)		(45,885)		(47,354)
10/1/20	Experience Gain	(1,751,522)	28	(1,722,526)		(93,296)		(96,283)
10/1/20	Assumption Change	1,511,349	28	1,486,329		80,503		83,080
10/1/21	Experience Gain	(720,822)	28	(720,822)		(39,041)		(40,291)
10/1/21	Assumption Change	19,210,871	28	 19,210,871		1,040,507		N/A
		\$ 278,965,853		\$ 220,526,297	\$	20,313,491	\$	19,578,193



B. Amortization Schedule

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

Amortization Schedule							
Year	Expected UAAL						
2021	\$ 220,526,297						
2022	214,227,684						
2023	206,733,967						
2024	197,935,298						
2025	187,713,253						
2026	175,940,174						
2031	139,239,816						
2036	111,295,425						
2041	62,170,064						
2046	18,398,016						
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:

1.	Last Year's UAAL (After Changes in Benefits, Assumptions, or Methods)	\$ 214,358,643
2.	Last Year's Employer Normal Cost	3,875,138
3.	Last Year's Employer Contributions (City and County)	29,944,811
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. a - b	15,931,066 2,183,788 13,747,278
5.	This Year's Expected UAAL (Before any Changes in Assumptions or Benefits): 1+2-3+4c	202,036,248
6.	Change in UAAL Due to Change in Assumptions/Methods	19,210,871
7.	Change in UAAL Due to Change in Benefits	0
8.	This Year's Expected UAAL (After Changes in Assumptions and Benefits): 5+6+7	221,247,119
9.	This Year's Actual UAAL (After Changes in Assumptions and Benefits)	220,526,297
10	. Net Actuarial Gain (Loss): 8 - 9	720,822
11	. Gain (Loss) Due to Investments	9,581,737
12	. Gain (Loss) From Other Sources*	(8,860,915)

^{*} Reflects a Supplemental Pension Distribution of \$7,578,907 for the FYE 2021.

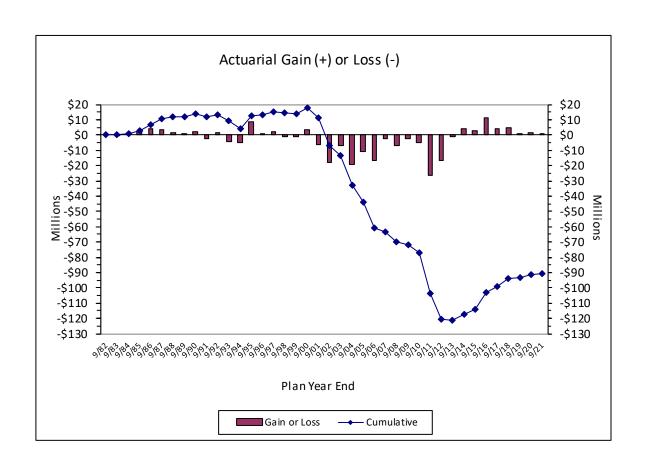


Net actuarial gains in previous years have been as follows:

	Net Ga	in (Loss)
Year Ended	Prior*	Supplemental
9/30/1982	\$ 357,574	\$ (293,400)
9/30/1983	(53,055)	(47,952)
9/30/1984	655,952	13,007
9/30/1985	1,910,328	214,974
9/30/1986	3,522,953	387,117
9/30/1987	3,085,353	541,011
9/30/1988	1,673,391	(20,803)
9/30/1989	631,806	(395,640)
9/30/1990	2,021,350	(117,331)
9/30/1991	(2,112,517)	N/A
9/30/1992	1,394,549	N/A
9/30/1993	(4,345,862)	N/A
9/30/1994	(4,780,402)	N/A
9/30/1995	8,381,537	N/A
9/30/1996	694,600	N/A
9/30/1997	2,097,065	N/A
9/30/1998	(859,539)	N/A
9/30/1999	(828,976)	N/A
9/30/2000	3,710,238	N/A
9/30/2001	(6,021,041)	N/A
9/30/2002	(18,219,741)	N/A
9/30/2003	(6,740,689)	N/A
9/30/2004	(19,270,365)	N/A
9/30/2005	(11,135,131)	N/A
9/30/2006	(16,622,969)	N/A
9/30/2007	(2,621,034)	N/A
9/30/2008	(6,640,889)	N/A
9/30/2009	(2,172,025)	N/A
9/30/2010	(5,090,043)	N/A
9/30/2011	(26,493,199)	N/A
9/30/2012	(16,888,651)	N/A
9/30/2013	(934,513)	N/A
9/30/2014	4,233,453	N/A
9/30/2015	3,077,339	N/A
9/30/2016	11,069,062	N/A
9/30/2017	3,970,427	N/A
9/30/2018	4,790,305	N/A
9/30/2019	871,242	N/A
9/30/2020	1,751,522	N/A
9/30/2021	720,822	N/A

 $[\]ensuremath{^{*}}$ After 1990, these are the figures for the entire Retirement Fund.







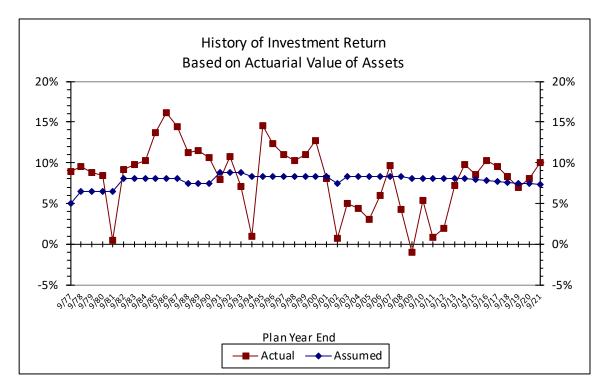
The fund earnings and salary increase assumptions have considerable impact on the cost of the Plan so it is important that they are in line with the actual experience. The following table shows the historical actual fund earnings and salary increase rates compared to the assumed rates:

	Investment Return		Salary Increases				
			Prior M	•	Other Members ¹		
Year Ending	Actual	Assumed	Actual	Assumed	Actual	Assumed	
9/30/1977	8.9 %	5.0 %	10.0 %	3.0 %	N/A %	N/A %	
9/30/1978	9.5	6.5	8.3	5.0	7.1	5.0	
9/30/1979	8.8	6.5	8.1	5.0	14.1	5.0	
9/30/1980	8.4	6.5	18.5	5.0	24.8	5.0	
9/30/1981	0.4	6.5	11.0	5.0	12.1	5.0	
9/30/1982	9.2	8.0	4.2	8.0	7.6	8.0	
9/30/1983	9.8	8.0	6.5	8.0	9.2	8.0	
9/30/1984	10.3	8.0	5.1	8.0	8.4	8.0	
9/30/1985	13.7	8.0	5.1	8.0	7.2	8.0	
9/30/1986	16.1	8.0	2.8	8.0	4.7	8.0	
9/30/1987	14.4	8.0	4.6	8.0	6.0	8.0	
9/30/1988	11.2	7.5	8.3	7.0	10.0	8.0	
9/30/1989	11.5	7.5	11.8	7.0	12.9	8.0	
9/30/1990	10.6	7.5	3.5	7.0	5.8	8.0	
9/30/1991	7.9	8.75	2.5	7.0	5.0	8.0	
9/30/1992	10.8	8.75	2.9	7.0	5.9	8.0	
9/30/1993	7.1	8.75	6.4	7.0	9.9	8.0	
9/30/1994	0.9	8.3	N/A ²	5.7	N/A ²	5.7	
9/30/1995	14.6	8.3	N/A	N/A	6.5	5.7	
9/30/1996	12.3	8.3	N/A	N/A	7.3	5.7	
9/30/1997	11.0	8.3	N/A	N/A	7.4	5.7	
9/30/1998	10.2	8.3	N/A	N/A	5.0	5.7	
9/30/1999	11.0	8.3	N/A	N/A	8.4	5.7	
9/30/2000	12.7	8.3	N/A	N/A	5.3	5.7	
9/30/2001	8.1	8.3	N/A	N/A	7.0	5.7	
9/30/2002	0.5	8.3	N/A	N/A	7.9	5.7	
9/30/2003	5.0	8.3	N/A	N/A	6.9	5.0	
9/30/2004	4.4	8.3	N/A	N/A	8.2	6.0	
9/30/2005	3.0	8.3	N/A	N/A	9.3	6.1	
9/30/2006	6.0	8.3	N/A	N/A	7.0	5.7	
9/30/2007	9.6	8.3	N/A	N/A	7.3	5.5	
9/30/2007	4.3	8.3	N/A	N/A	5.8	5.7	
9/30/2008		8.0	N/A N/A	N/A N/A	3.2	6.6	
	(1.0)						
9/30/2010	5.4	8.0	N/A	N/A	1.9	6.2	
9/30/2011	0.8	8.0	N/A	N/A	(0.6)	(1.5) #	
9/30/2012	1.9	8.0	N/A	N/A	0.2	1.4 #	
9/30/2013	7.2	8.0	N/A	N/A	1.9	5.8	
9/30/2014	9.8	8.0	N/A	N/A	5.8	5.8	
9/30/2015	8.5	7.9	N/A	N/A	5.2	4.9	
9/30/2016	10.3	7.8	N/A	N/A	7.4	5.0	
9/30/2017	9.5	7.7	N/A	N/A	6.2	5.1	
9/30/2018	8.3	7.6	N/A	N/A	2.2	4.9	
9/30/2019	7.0	7.5	N/A	N/A	3.9	4.7	
9/30/2020	8.0	7.5	N/A	N/A	3.1	5.4	
9/30/2021	10.0	7.3	N/A	N/A	3.3	5.5	
Averages	8.1 %		7.0 %		6.8 %		

- ¹ All members after 9/30/1994.
- Because the salary basis reported to the actuaries changed from 10/1/1993 to 10/1/1994, a meaningful salary increase figure was not computed.
- Reflects a one-time pay reduction for general fund members and no pay increases for non-general fund members.
- ⁴ Reflects no pay increases for general fund members.



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







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

Year	Num Add Dur Ye	led ing	DF	ice & ROP ement	Disab Retire	-	De	ath	Vested	Termina Other		tals	Active Members End of
Ended	Α	E	Α	E	Α	E	Α	Е	Α	Α	Α	E	Year
9/30/2010 9/30/2011	7 12	56 146	26 114	14 16	3 2	3	1	1	13 15	13 14	26 29	26 22	668 534
9/30/2012	35	47	22	8	3	2	0	1	10	12	22	19	522
9/30/2013 9/30/2014	41 78	47 57	19 28	7 50	1 1	2	0 1	1 1	12 17	15 10	27 27	18 17	516 537
9/30/2015	86	49	17	9	1	2	0	1	6	25	31	26	574
9/30/2016	72	40	6	9	1	3	1	1	8	24	32	32	606
9/30/2017	64	34	16	11	0	3	1	1	0	17	17	36	636
9/30/2018	57	64	17	12	3	3	0	1	7	37	44	39	629
9/30/2019	69	106	75	74	0	3	1	1	1	29	30	38	592
9/30/2020	71	64	35	11	0	2	0	1	0	29	29	38	599
9/30/2021	73	69	24	12	0	2	1	1	4	40	44	38	603
9/30/2022				10		3		1				38	
12-Yr Totals *	665	779	399	233	15	30	7	12	93	265	358	349	

^{*} Totals are through current year.



RECENT HISTORY OF VALUATION RESULTS Number of **Actuarial Accrued Employer** Valuation Active Inactive **Covered Annual** Actuarial Value of Liability (AAL) - Entry **Unfunded AAL Funded Normal Cost** NC as % of Date Members* Members **Payroll** Assets Age (UAAL) Ratio (NC) Payroll 10/1/1991 755 411 \$ 20,630,207 \$ 76,669,632 79,506,348 2,836,716 96.4 % \$ 1,043,805 5.06 % 10/1/1992 727 439 20,191,327 83,752,649 85,450,424 1,697,775 98.0 860,076 4.26 10/1/1993 736 22,147,889 88,296,336 95,668,897 7,372,561 92.3 1,520,178 469 6.86 10/1/1994 587 667 18,757,186 88,937,435 129,179,737 40,242,302 68.8 2,241,185 11.95 10/1/1995 659 662 21,560,893 100,881,259 135,034,342 34,153,083 74.7 1,507,437 6.99 10/1/1996 742 656 24,532,562 112,060,623 141,765,578 29,704,955 79.0 1,405,716 5.73 10/1/1997 4.73 739 656 25,596,439 121,232,151 146,459,241 25,227,090 82.8 1,210,712 10/1/1998 773 645 27,581,966 129,407,169 154,243,888 24,836,719 83.9 1,412,197 5.12 10/1/1999 28,950,262 776 648 141,673,440 172,564,633 30,891,193 82.1 1,809,391 6.25 10/1/2000 778 668 30,000,733 156,750,497 189,916,733 33,166,236 82.5 1,983,048 6.61 10/1/2002 878 722 36.664.439 164,597,832 213,758,531 49.160.699 77.0 3.810.183 10.39 10/1/2003 872 745 38,497,328 175,458,765 233,155,961 57,697,196 75.3 4,123,269 10.71 10/1/2004 770 40,421,513 180,192,031 257,632,743 77,440,712 4,451,446 879 69.9 11.01 10/1/2005 811 41,480,512 185,301,557 275,757,219 90,455,662 4,704,515 840 67.2 11.34 10/1/2006 825 851 41,755,261 195,193,325 303,778,626 108,585,301 64.3 4,949,811 11.85 10/1/2007 827 885 45,999,379 212,980,592 325,892,851 112,912,259 65.4 5,342,240 11.61 10/1/2008 792 900 45,848,717 222,098,827 348,634,231 126,535,404 63.7 6,445,410 14.05 10/1/2009 717 927 44,084,422 220,155,870 369,526,337 149,370,467 59.6 5,138,036 11.65 10/1/2010 2,971,772 668 947 38,748,664 223,942,457 351,118,031 127,175,574 63.8 7.67 10/1/2011 1,053 29,823,518 224,237,503 376,225,569 151,988,066 2,187,628 534 59.6 7.34 10/1/2012 522 1074 217,907,548 169,564,667 2,191,076 29,111,818 387,472,215 56.2 7.53 10/1/2013 516 1,091 28,007,058 227,700,385 424,004,184 196,303,799 53.7 2,324,011 8.30 10/1/2014 537 1,112 31,028,415 243,861,301 438,745,548 194,884,247 55.6 2,075,371 6.69 10/1/2015 262,500,651 452,766,023 190,265,372 2.304.306 574 1.119 34,141,024 58.0 6.75 10/1/2016 606 1,117 37,818,489 288,322,823 483,798,487 195,475,664 59.6 2,704,760 7.15 10/1/2017 502,163,903 190,230,958 62.1 7.59 636 1,119 41,566,583 311,932,945 3,155,193 10/1/2018** 334,799,360 230,131,407 3,675,379 570 1,182 37,870,123 564,930,767 59.3 9.71 10/1/2019 592 1,186 40,869,983 341,286,411 565,621,420 224,335,009 60.3 3,868,791 9.47 10/1/2020 599 1,190 40,789,456 369,068,328 583,426,971 214,358,643 63.3 3,875,138 9.50 10/1/2021 603 41,931,489 393,278,367 613,804,664 4,329,102 1,185 220,526,297 64.1 10.32

^{**}Reflects Actuarial Impact Statement dated June 17, 2019.

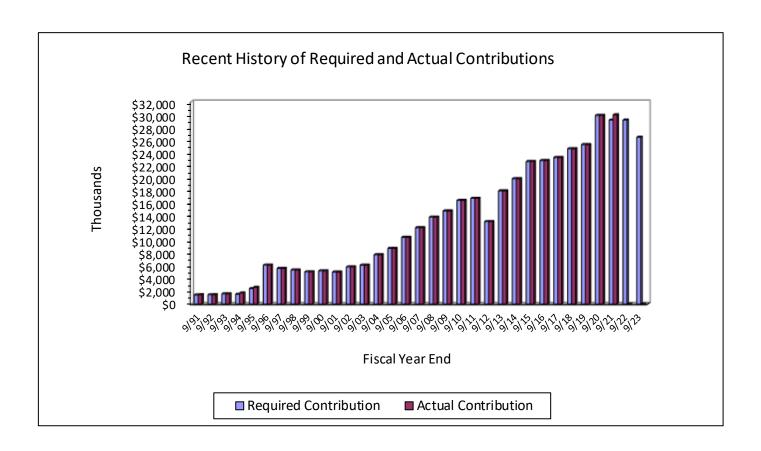


^{*} Excludes transfers.

	RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS				
		Required Emp	oloyer		
		Contributi	-		
Valuation	For Fiscal Year Ended		% of	Actual Employer	
Date	September 30	Amount	Payroll	Contribution	
10/1/89	1991	\$ 1,437,693	7.43 %	\$ 1,484,132	
10/1/90	1992	1,473,155	7.07	1,484,743	
10/1/91	1993	1,617,462	7.84	1,623,342	
10/1/92	1994	1,554,337	7.70	1,758,060	
10/1/93	1995	2,458,234	11.10	2,648,667	
10/1/94	1996	6,169,517	32.89	6,169,521	
10/1/95	1997	5,647,078	26.19	5,647,180	
10/1/96	1998	5,399,263	22.01	5,399,263	
10/1/97	1999	5,101,822	19.93	5,101,822	
10/1/98	2000	5,256,720	19.06	5,256,720	
10/1/99	2001	5,071,643	17.52	5,071,643	
10/1/00	2002	5,878,301	18.09	5,878,301	
10/1/01	2003	6,164,953	18.09	6,164,953	
10/1/02	2004	7,805,841	20.57	7,805,841	
10/1/03	2005	8,817,640	22.13	8,817,640	
10/1/04	2006	10,559,474	25.24	10,559,474	
10/1/05	2007	12,087,074	28.15	12,087,074	
10/1/06	2008	13,761,179	31.84	13,761,179	
10/1/07	2009	14,743,450	30.97	14,743,450	
10/1/08	2010	16,406,324	34.58	16,406,324	
10/1/09	2011	16,734,454	36.68	16,734,454	
10/1/10	2012	13,050,878	36.14	13,050,878	
10/1/11	2013	17,913,508	59.43	17,913,508	
10/1/12	2014	19,834,090	67.51	19,834,090	
10/1/13	2015	22,547,585	80.30	22,547,585	
10/1/14	2016	22,716,242	69.56	22,716,242	
10/1/15	2017	23,189,007	66.33	23,189,007	
10/1/16	2018	24,580,287	63.11	24,580,287	
10/1/17	2019	25,225,862	58.64	25,225,862	
10/1/18*	2020	29,845,528	69.92	29,845,528	
10/1/19	2021	29,106,927	68.81	29,944,811	
10/1/20	2022	29,112,903	68.96		
10/1/21	2023	26,404,007	60.84		

^{*}Reflects Actuarial Impact Statement dated June 17, 2019.







ACTUARIAL ASSUMPTIONS AND COST METHOD

Valuation Methods

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

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

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

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

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

Valuation Assumptions

The actuarial assumptions used in the valuation are shown in this Section. Both the economic and demographic assumptions were established following the Experience Study Report as of October 1, 2014 covering the five years ending September 30, 2014. The mortality table is based on the assumption used by the Florida Retirement System Pension Plan, as required by Chapter 112.63, Florida Statutes.

Economic Assumptions

The investment return rate assumed in the valuation is 7.0% per year, compounded annually (net after investment expenses).

The **Inflation Rate** assumed in this valuation is 2.5% per year. The Inflation Rate is defined to be the expected long-term rate of 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 7.0% investment return rate translates to an assumed real rate of return over inflation of 4.5%.



The active member population is assumed to remain constant. For purposes of financing the unfunded liabilities, total payroll is assumed to grow at 3.5% per year, but not greater than the actual ten-year average. The most recent ten-year average is 3.47%.

Total payroll is projected to the contribution year by applying a 3.5% payroll increase assumption.

Pay increase assumptions for individual active members are shown below. Part of the assumption for each age is for merit and/or seniority increase, and the other 2.5% recognizes wage inflation, including price inflation, productivity increases, and other macroeconomic forces.

The rates of salary increase used are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based. To allow for the inclusion of the lump sum payment of unused sick and vacation leave in average final compensation, projected benefits for active members hired before July 15, 2009 are increased by the calculated percentage based on each member's accrued unused sick leave hours as of October 1, 2002 and vacation leave hours as of March 2014 divided by 6,240 hours (equal to 2,080 hours for each year in 3-year averaging period.

	%	Increase in Sala	iry
Years of	Merit and	Base	Total
Service	Seniority	(Economic)	Increase
1	5.00 %	2.50 %	7.50
2	4.25	2.50	6.75
3	4.25	2.50	6.75
4	4.25	2.50	6.75
5	4.25	2.50	6.75
6	4.25	2.50	6.75
7	4.25	2.50	6.75
8	4.25	2.50	6.75
9	4.25	2.50	6.75
10	5.50	2.50	8.00
11	0.50	2.50	3.00
12	0.50	2.50	3.00
13	0.50	2.50	3.00
14	0.50	2.50	3.00
15	4.50	2.50	7.00
16	0.50	2.50	3.00
17	0.50	2.50	3.00
18	0.50	2.50	3.00
19	0.50	2.50	3.00
20	2.50	2.50	5.00
21 or more	0.50	2.50	3.00



Demographic Assumptions

The mortality table for healthy lives is the PUB-2010 Headcount Weighted General Below Median Employee Mortality Table (for pre-retirement mortality) and the PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table (for post-retirement mortality), with separate rates for males and females and ages set back one year for males, with mortality improvements projected to all future years after 2010 using Scale MP-2018. These are the same rates used for (non-Teacher) Regular Class members in the July 1, 2020 actuarial valuation of the Florida Retirement System (FRS) Pension Plan (based on the 2019 FRS experience study report), in accordance with Florida Statutes Chapter 112.63.

FRS Healthy Post-Retirement Mortality for Regular Class Members

Sample	Probability of		Future Life		
Attained	Dying Ne	xt Year	Expectancy (years)		
Ages (in 2021)	Men	Women	Men	Women	
50	0.19	0.58	33.14	36.95	
55	0.96	0.58	28.77	32.50	
60	1.14	0.60	24.68	27.96	
65	1.29	0.69	20.63	23.39	
70	1.80	1.09	16.62	18.91	
75	2.86	1.89	12.91	14.73	
80	4.83	3.41	9.63	10.98	

FRS Healthy Pre-Retirement Mortality for Regular Class Members

Sample	Probabi	ility of	Future	Life	
Attained	Dying Ne	ext Year	Expectancy (years)		
Ages (in 2021)	Men	Women	Men	Women	
50	0.19	0.11	37.72	40.26	
55	0.30	0.17	32.71	35.14	
60	0.46	0.26	27.85	30.11	
65	0.65	0.37	23.17	25.19	
70	0.90	0.56	18.62	20.37	
75	1.35	0.93	14.19	15.68	
80	2.13	1.58	9.89	11.17	

For active transfers, the mortality table used is the PUB-2010 Headcount Weighted Safety Below Median Employee Mortality Table for males (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Mortality Table for females (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Mortality Table for males (post-retirement), and the PUB-2010 Safety Healthy Retiree Mortality Table for females (post-retirement), with ages set forward one year for males and females, and with mortality improvements projected to all future years after 2010 using Scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2020 actuarial valuation of the Florida Retirement System (FRS) Pension Plan (based on the 2019 FRS experience study report), in accordance with Florida Statutes Chapter 112.63.



FRS Healthy Post-Retirement Mortality for Special Risk Class Members

Sample	Probability of		Future Life		
Attained	Dying Ne	ext Year	Expectancy (years)		
Ages (in 2021)	Men	Women	Men	Women	
50	0.42	0.20	32.50	36.33	
55	0.56	0.36	27.73	31.30	
60	0.92	0.61	23.14	26.51	
65	1.32	0.92	18.87	22.00	
70	2.08	1.45	14.86	17.74	
75	3.54	2.42	11.27	13.82	
80	6.30	4.16	8.19	10.35	

FRS Healthy Pre-Retirement Mortality for Special Risk Class Members

Sample	Probability of		Future Life	
Attained	Dying Ne	xt Year	Expectanc	y (years)
Ages (in 2021)	Men	Women	Men	Women
50	0.16	0.11	35.66	39.58
55	0.26	0.16	30.58	34.44
60	0.43	0.22	25.63	29.37
65	0.69	0.30	20.86	24.35
70	1.18	0.55	16.34	19.45
75	2.08	1.07	12.10	14.75
80	6.30	4.16	8.19	10.35

For disabled lives, the mortality table used is the PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, with separate rates for males and females and ages set forward 3 years for both males and females, with no provision being made for future mortality improvements. These are the same rates used for Regular Class members in the July 1, 2020 actuarial valuation of the FRS Pension Plan (based on the 2019 FRS experience study report), in accordance with Florida Statutes Chapter 112.63.

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



The rates of retirement used to measure the probability of eligible members retiring during the next year were as follows:

Members Hired Before July 15, 2009

Number of Years After	Probability of Normal Retirement		
First Eligibility for Normal	For 55 and 5	For 25 and Out	
Retirement	Retirement	Retirement	
0	20 %	30 %	
1	5	20	
2	5	20	
3	5	20	
4	5	20	
5	5	100	
6	5	100	
7	25	100	
8	10	100	
9	10	100	
10	50	100	
11	50	100	
12	50	100	
13	50	100	
14	50	100	
15	100	100	



Members Hired On or After July 15, 2009 and Before October 1, 2011 for General Fund Members or Before March 5, 2014 for Non-General Fund

Probability of Normal Retirement for 60 and 7

Retirement**
50 %
30
30
55
40
40
40
50
10
10
30
100

^{**} For members hired on or after July 15, 2009 and before October 1, 2011 for general fund members or before March 5, 2014 for non-general fund members, 100% probability of retirement is assumed upon attaining age 57 with 25 years of service or upon attaining 30 years of service regardless of age.

General Fund Members Hired After September 30, 2011 and Non-General Fund Members Hired After March 5, 2014

Years of Service

7 - 14	15 - 19	20 - 24	25 - 29	30+*
0.0 %	0.0 %	0.0 %	0.0 %	30.0 %
0.0	0.0	0.0	0.0	30.0
0.0	0.0	0.0	100.0	100.0
0.0	0.0	0.0	100.0	100.0
0.0	0.0	0.0	100.0	100.0
30.0	40.0	50.0	100.0	100.0
30.0	30.0	30.0	100.0	100.0
30.0	30.0	30.0	100.0	100.0
30.0	30.0	30.0	100.0	100.0
30.0	30.0	30.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
	0.0 % 0.0 0.0 0.0 0.0 30.0 30.0 30.0 30.0 30.0	0.0 % 0.0 % 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30.0 40.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	0.0 % 0.0 % 0.0 % 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	0.0 % 0.0 % 0.0 % 0.0 % 0.0 0.0 0.0 0.0 0.0 0.0 0.0 100.0 0.0 0.0 0.0 100.0 0.0 0.0 0.0 100.0 30.0 30.0 30.0 100.0 30.0 30.0 30.0 100.0 30.0 30.0 30.0 100.0 30.0 30.0 30.0 100.0 30.0 30.0 30.0 100.0

^{*} Upon attaining 30 years of service, the retirement rates for the first and second years of eligibility are 30% and the rate for the third year is 100% (regardless of age).



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

Sample	Years of	% of Active Members
Ages	Service	Separating Within Next Year
ALL	0	13.0 %
	1	12.0
	2	12.0
	3	11.0
	4	10.0
20	5 & Over	12.0
25		12.0
30		12.0
35		8.0
40		3.8
45		2.0
50		2.0
55		2.0
60		2.0

Rates of disability among active members (25% of disabilities are assumed to be service-connected).

Sample Ages	% Becoming Disabled Within Next Year
20	0.06 %
25	0.08
30	0.10
35	0.13
40	0.17
45	0.27
50	0.46
55	0.86
60	1.49

Changes Since Previous Valuation

The investment return assumption was lowered from 7.3% to 7.0%. In addition, the amortization period for new Unfunded Actuarial Accrued Liability (UAAL) bases was lowered from 29 years to 28 years, and will continue to be lowered by one year for each year until reaching 25 years.



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 prior year's expenses. Assumed administrative

expenses are added to the Normal Cost.

Benefit Service Exact fractional service is used to determine the amount of benefit

payable.

COLA The COLA delay is 3 years for projected benefits of active members

who are not eligible to enter the DROP. The COLA delay is assumed to be 6 years for current DROP members who entered the DROP after

August 17, 2009.

Data Assumptions/

Adjustments

Where complete participant data was not available, we have used data assumptions which we believe are reasonable and internally

consistent.

Decrement Operation Disability and mortality decrements operate during retirement

eligibility.

Decrement Timing Decrements of all types are assumed to occur at the beginning of the

year.

Eligibility Testing Eligibility for benefits is determined based upon the age nearest

birthday and service nearest whole year on the date the decrement is

assumed to occur.

For 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

biweekly throughout the year. 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.



Maximum Benefit The maximum accrued benefit payable as a life annuity reflects the

415(b) limit (\$230,000 for 2021 for ages 62 through 65). The

limitation is projected to increase by 4.0% per year and is adjusted for

other commencement ages based on IRS regulations.

Normal Form of Benefit

A life annuity is the normal form of benefit.

Pay Increase Timing

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

the valuation date.

Planned Retirement Program

Eligible members are assumed to first elect the Planned Retirement Program once they are five years past their earliest normal retirement

date.

Employees who enter the Planned Retirement Program are assumed to elect the following benefit with the greatest value:

Value of the normal retirement benefit

 Value of the one to five year Planned Retirement Program benefit. For example, a five year Planned Retirement Program present value is calculated as the accumulated value of the accrued benefit from five years ago plus the present value of this

reduced benefit.

The deposits to the Planned Retirement Program accounts are credited

with an assumed interest rate of 5.6% per year.

Pre-Funding of Supplemental Pension Distribution Projected benefits for members eligible for the Supplemental Pension Distribution currently and in the future are loaded by 5.7% to recognize the effect of the Supplemental Pension Distribution in years when the investment return is above 12.0% (i.e., 4.7% above the

assumed rate).

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

year.

Sick and Vacation Leave

To allow for the inclusion of the lump sum payment of unused sick and vacation leave in average final compensation, projected benefits for active members hired before July 15, 2009 are increased by the calculated percentage based on each member's accrued unused sick leave hours as of October 1, 2002 and vacation leave hours as of March 2014 divided by 6,240 hours (equal to 2,080 hours for each

year in 3-year averaging period).



GLOSSARY

Actuarial Accrued Liability (AAL)

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

Actuarial Assumptions

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

Actuarial Cost Method

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

Actuarial Equivalent

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

Actuarial Present Value (APV)

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

Actuarial Present Value of Future Benefits (APVFB)

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

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental Retirement Fund typically also includes calculations of items needed for compliance with GASB Statement No. 67.

Actuarial Value of Assets

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



Amortization Method

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

Amortization Payment

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

Amortization Period

The period used in calculating the Amortization Payment.

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.

Closed Amortization Period

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

Employer Normal Cost

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

Equivalent Single Amortization Period

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

Experience Gain/Loss

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



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

GASB Governmental Accounting Standards Board.

GASB Statement No. 67 and GASB Statement No. 68

These are the governmental accounting standards that set the accounting rules for public Retirement Funds 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 Funds, 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.





PENSION FUND INFORMATION

Statement of Plan Assets at Market Value

September 30 2021 2020 Item \$ \$ A. Cash and Cash Equivalents (Operating Cash) B. Receivables 1. Member Contributions \$ \$ 2. Employer Contributions 11,112,130 * 18,085,970 3. Investment Income and Other Receivables 734,034 334,584 4. Total Receivables 18,420,554 11,846,164 C. Investments 1. Money Market Shares \$ 6,237,302 9,040,245 2. Corporate Equities 15,681,939 11,921,866 3. Corporate Bonds 4. U.S. Government Securities 5. Mutual Funds 285,999,924 221,399,064 6. Pooled Investment Funds 124,015,119 112,510,754 7. Total Investments 431,934,284 354,871,929 D. Liabilities 1. Benefits Payable \$ (455,505)(446,842)2. Prepaid City Contributions (2,495,119)3. Accrued Expenses and Other Payables (638,441)(664,677)\$ 4. Total Liabilities (1,093,946)(3,606,638)E. Total Market Value of Assets Available for Benefits \$ 442,686,502 369,685,845 \$ F. DROP Accounts (6,928,906)(6,012,841)G. Supplemental Pension Distribution \$ (7,578,907)\$ H. Market Value Net of Reserves 428,178,689 363,673,004 I. Allocation of Investments 1. Money Market Shares 1.4% 2.5% 2. Corporate Equities 3.6% 3.4% 0.0% 3. Corporate Bonds 0.0% 4. U.S. Government Securities 0.0% 0.0% 5. Mutual Funds 66.3% 62.4% 6. Pooled Investment Funds 28.7% 31.7% 7. Total Investments 100.0% 100.0%



^{*} Includes the remaining City contribution receivable due to the previous City contribution shortfall, as detailed in Section A. The shortfall is being paid off over five years starting October 1, 2020.

Reconciliation of Plan Assets

September 30 2021 2020 Item \$ A. Market Value of Assets at Beginning of Year 369,685,845 345,873,170 B. Adjustment to Match Prior Year's Financial Statements \$ \$ (18,358)C. Revenues and Expenditures 1. Contributions \$ a. Employee Contributions 3,455,693 3,635,402 29,914,898 29,815,790 b. City Contributions c. County Contributions 29,913 29,738 \$ \$ d. Total 33,400,504 33,480,930 2. Investment Income a. Interest, Dividends, and Other Income \$ 4,706,833 4,964,406 b. Net Realized/Unrealized Gains/(Losses)* 73,078,949 21,551,652 c. Investment Expenses (677,405) (785,676) \$ d. Net Investment Income 77,108,377 \$ 25,730,382 3. Benefits and Refunds a. Regular Monthly Benefits \$ (33,058,248) (29,051,230) b. Refunds (480,993)(425,409)c. DROP Distributions (3,149,632)(5,190,976)\$ \$ d. Total (36,688,873) (34,667,615) \$ 4. Administrative and Miscellaneous Expenses (800,993)\$ (731,022)\$ 5. Transfers \$ D. Market Value of Assets at End of Year 442,686,502 369,685,845 E. DROP Accounts \$ (6,928,906) (6,012,841)\$ F. Supplemental Pension Distribution (7,578,907)\$ G. Market Value Net of Reserves 428,178,689 363,673,004

^{*} The breakdown between realized and unrealized gains/(losses) was not provided.



Development of Actuarial Value of Assets

	Fiscal Year Ending September 30	2020	2021	2022	2023	2024	2025
A.	Actuarial Value of Assets Beginning of Year	\$ 349,701,391	\$ 375,081,169				
В.	Market Value End of Year	369,685,845	442,686,502				
C.	Market Value Beginning of Year	345,873,170	369,685,845				
D.	Non-Investment/Administrative Net Cash Flow	(1,917,707)	(4,107,720)				
E.	Investment Income						
	E1. Actual Market Total: B-C-D	25,730,382	77,108,377				
	E2. Assumed Rate of Return	7.50%	7.30%	7.00%	7.00%	7.00%	7.00%
	E3. Assumed Amount of Return	26,155,690	27,230,994				
	E4. Amount Subject to Phase-In: E1–E3	(425,308)	49,877,383				
F.	Phased-In Recognition of Investment Income						
	F1. Current Year: 0.2 x E4	(85,062)	9,975,477				
	F2. First Prior Year	(2,197,620)	(85,062)	9,975,477			
	F3. Second Prior Year	(351,162)	(2,197,620)	(85,062)	9,975,477		
	F4. Third Prior Year	2,240,102	(351,162)	(2,197,620)	(85,062)	9,975,477	
	F5. Fourth Prior Year	1,535,537	2,240,104	(351,162)	(2,197,618)	(85,060)	9,975,475
	F6. Total Phase-Ins	1,141,795	9,581,737	7,341,633	7,692,797	9,890,417	9,975,475
G.	Actuarial Value of Assets End of Year						
	G1. Preliminary Actuarial Value of Assets End of Year:						
	A+D+E3+F6	\$ 375,081,169	\$ 407,786,180				
	G2. Upper Corridor Limit: 120% x B	443,623,014	531,223,802				
	G3. Lower Corridor Limit: 80% x B	295,748,676	354,149,202				
	G4. Actuarial Value of Assets End of Year	375,081,169	407,786,180				
	G5. DROP Accounts	(6,012,841)	(6,928,906)				
	G6. Supplemental Pension Distribution	-	(7,578,907)				
	G7. Final Actuarial Value of Assets End of Year	369,068,328	393,278,367				
Н.	Difference between Market & Actuarial Value of Assets	(5,395,324)	34,900,322				
I.	Actuarial Rate of Return	8.04%	10.02%				
J.	Market Value Rate of Return	7.66%	21.30%				
K.	Ratio of Actuarial Value of Assets to Market Value	101.46%	92.12%				



Reconciliation of DROP Accounts

Year Ended	Balance at Beginning	O altitude a me	Cua dita	Interest	Distributions	Balance at
9/30	of Year	Adjustment	Credits	Interest	<u>Distributions</u>	End of Year
2009	\$6,528,104	\$ -	\$2,274,151	\$ 419,340	\$ (1,708,212)	\$7,513,383
2010	7,513,383	-	2,973,674	585,319	(1,099,439)	9,972,937
2011	9,972,937	4,989	3,882,345	266,041	(2,612,900)	11,513,412
2012	11,513,412	-	5,203,864	1,494,309	(4,659,576)	13,552,009
2013	13,552,009	-	4,668,559	1,628,934	(4,190,755)	15,658,747
2014	15,658,747	-	3,937,061	1,510,901	(5,811,164)	15,295,545
2015	15,295,545	6,075	3,135,456	385,571	(5,183,264)	13,639,383
2016	13,639,383	-	1,621,561	626,094	(12,503,182)	3,383,856
2017	3,383,856	-	352,814	152,609	(1,100,372)	2,788,907
2018	2,788,907	-	208,776	48,155	(1,709,139)	1,336,699
2019	1,336,699	1,969	8,016,654	881,041	(1,821,383)	8,414,980
2020	8,414,980	(88,679)	2,409,734	467,782	(5,190,976)	6,012,841
2021	6,012,841	-	2,794,545	1,271,152	(3,149,632)	6,928,906



Investment Rate of Return

	investment	Rate of Return
Year Ended	Market Value Basis	Actuarial Value Basis
9/30/1977	8.5 %	8.9 %
9/30/1978	4.2	9.5
9/30/1979	1.3	8.8
9/30/1980	0.7	8.4
9/30/1981	(2.4)	0.4
9/30/1982	34.9	9.2
9/30/1983	16.5	9.8
9/30/1984	8.2	10.3
9/30/1985	22.5	13.7
9/30/1986	16.5	16.1
9/30/1987	3.0	14.4
9/30/1988	11.9	11.2
9/30/1989	11.0	11.5
9/30/1990	6.0	10.6
9/30/1991	16.2	7.9
9/30/1992	12.2	10.8
9/30/1993	7.5	7.1
9/30/1994	(0.3)	0.9
9/30/1995	21.3	14.6
9/30/1996	13.4	12.3
9/30/1997	17.8	11.0
9/30/1998	5.4	10.2
9/30/1999	12.8	11.0
9/30/2000	17.9	12.7
9/30/2001	(8.5)	8.1
9/30/2002	(8.6)	0.5
9/30/2003	17.4	5.0
9/30/2004 9/30/2005	8.7 9.2	4.4 3.0
9/30/2006	7.1	6.0
9/30/2007	11.9	9.6
9/30/2008	(13.6)	4.3
9/30/2009		(1.0)
·	(2.4)	
9/30/2010	8.5	5.4
9/30/2011	0.0	0.8
9/30/2012	19.8	1.9
9/30/2013	14.0	7.2
9/30/2014	11.0	9.8
9/30/2015	1.8	8.5
9/30/2016	10.5	10.3
9/30/2017	11.5	9.5
9/30/2018	6.8	8.3
9/30/2019	4.2	7.0
9/30/2020	7.7	8.0
9/30/2021	21.3	10.0
Average Returns:		
Last 5 Years	10.1 %	8.6 %
Last 10 Years	10.7 %	8.0 %
All Years Shown	8.6 %	8.1 %

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





FINANCIAL ACCOUNTING INFORMATION

	FASB STATEMENT NO. 35 INFORMATION									
A.	Valuation Date	October 1, 2021	October 1, 2020							
В.	Actuarial Present Value of Accumulated Plan Benefits									
	1. Vested Benefits									
	 a. Members Currently Receiving Payments b. Terminated Vested Members c. Other Members d. Total 2. Non-Vested Benefits 3. Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2 4. Accumulated Contributions of Active Members	\$ 490,714,730 7,283,836 86,792,392 584,790,958 14,663,834 599,454,792 23,525,448	\$ 462,002,676 6,861,309 87,297,208 556,161,193 8,256,008 564,417,201 23,086,919							
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits 1. Total Value at Beginning of Year 2. Increase (Decrease) During the Period Attributable to:	564,417,201	538,570,828							
	 a. Plan Amendment b. Change in Actuarial Assumptions c. Latest Member Data, Benefits Accumulated and Decrease in the Discount Period d. Benefits Paid (Net Basis) e. Net Increase 	0 14,247,808 57,123,569 (36,333,786) 35,037,591	0 1,830,958 55,901,788 (31,886,373) 25,846,373							
	3. Total Value at End of Period	599,454,792	564,417,201							
D.	Market Value of Assets	428,178,689	363,673,004							
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Cost Method									



SECTION **E**

MISCELLANEOUS INFORMATION

	RECONCILIATION OF MEMBERSHIP DATA									
		From 10/1/20 To 10/1/21	From 10/1/19 To 10/1/20							
A.	Active Members									
1.	Number Included in Last Valuation	599	592							
2.	New Members Included in Current Valuation	71	71							
3.	Non-Vested Employment Terminations	(40)	(29)							
4.	Vested Employment Terminations	(4)	0							
5.	Service Retirements	(9)	(12)							
6.	DROP Retirements	(15)	(23)							
7.	Disability Retirements	0	0							
	Deaths	(1)	0							
	Other - Rehires/Data Corrections	2	0							
10.	Number Included in This Valuation	603	599							
В.	Active Transfers	1								
1.	Number Included in Last Valuation	9	11							
2.	Additions	0	0							
3.	Non-Vested Employment Terminations	0	0							
4.	Vested Employment Terminations	0	0							
5.	Service Retirements	0	0							
6.	DROP Retirements	0	(2)							
7.	Deaths	0	0							
8.	Number Included in This Valuation	9	9							
C.	Terminated Vested Members and Deferred Beneficiaries									
1.	Number Included in Last Valuation	54	69							
2.	Additions from Active Members	4	0							
3.	Additions from Service Retirees (Deferred Beneficiary)	2	0							
4.	Lump Sum Payments/Refund of Contributions	(1)	(1)							
5.	Payments Commenced	(4)	(13)							
6.	Deaths	0	0							
7.	Other - Rehires/Data Corrections	(1)_	(1)							
8.	Number Included in This Valuation	54	54							
D.	DROP Plan Members	1								
1.	Number Included in Last Valuation	61	52							
2.	Additions from Active Members and Transfers	15	25							
3.	Retirements	(16)	(16)							
4.	Deaths Resulting in No Further Payments	0	0							
5.	Other - Data Corrections	1_	0							
6.	Number Included in This Valuation	61	61							
E.	Service Retirees, Disability Retirees and Beneficiaries									
1.	Number Included in Last Valuation	1,075	1,065							
2.	Additions from Active Members and Transfers	9	12							
3.	Additions from Terminated Vested Members	4	13							
4.	Additions from DROP Plan Members	16	16							
•••	Deaths Resulting in No Further Payments	(32)	(31)							
5.		1								
	Deaths Resulting in New Survivor Benefits	1	1							
5.	•	1 (2)	1 0							
5. 6.	Deaths Resulting in New Survivor Benefits	_	=							



ACTIVE PARTICIPANT SCATTER

	Years of Service to Valuation Date												
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 & Up	Totals
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	4	3	1	0	1	0	0	0	0	0	0	0	9
25-29	9	7	5	4	2	0	0	0	0	0	0	0	27
30-34	15	7	3	7	9	18	1	0	0	0	0	0	60
35-39	5	9	9	6	8	25	1	3	0	0	0	0	66
40-44	11	5	6	2	4	22	4	15	4	0	0	0	73
45-49	11	6	6	2	2	22	3	12	13	1	0	0	78
50-54	6	5	4	6	4	25	8	14	25	3	0	0	100
55-59	2	8	7	6	5	35	8	7	20	12	0	0	110
60-64	6	3	3	0	1	17	6	10	7	2	2	0	57
65 & Up	2	2	1	1	3	9	1	4	0	0	0	0	23
Totals	71	55	45	34	39	173	32	65	69	18	2	0	603



INACTIVE PARTICIPANT SCATTER

		ted Vested /					Decea	ased with	
	Deferred	Beneficiaries	Di	sabled	R	etired	Beneficiary		
	Total			Total		Total		Total	
Age Group	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits	
Under 20	-	-	-	-	-	-	-	-	
20-24	-	-	-	-	-	-	1	17,070	
25-29	-	-	-	-	-	-	2	8,628	
30-34	2	14,786	-	-	-	-	3	29,962	
35-39	2	23,250	-	-	-	-	6	68,342	
40-44	11	120,240	1	11,547	1	88,646	4	50,640	
45-49	11	245,668	2	61,471	8	252,829	10	69,180	
50-54	22	330,947	1	39,683	33	1,468,424	4	106,118	
55-59	2	20,173	4	120,509	137	5,650,208	12	195,253	
60-64	2	11,652	9	290,436	186	7,267,377	15	192,545	
65-69	1	8,622	9	269,384	188	6,965,248	18	398,908	
70-74	1	8,622	6	232,431	167	5,244,654	28	687,193	
75-79	-	-	3	45,814	109	3,021,629	19	423,843	
80-84	_	-	-	-	52	1,363,065	18	318,951	
85-89	-	-	1	22,794	33	933,220	12	217,764	
90-94	-	-	1	10,566	11	254,271	9	163,752	
95-99	-	-	-	-	6	89,798	2	11,523	
100 & Over	-	-	-	-	-	-	-	-	
Total	54	783,960	37	1,104,635	931	32,599,369	163	2,959,672	
Average Age		49		66		68		68	



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 Hollywood, Florida, and was most recently restated under Ordinance No. O-2003-07, passed and adopted on June 4, 2003. The Plan was most recently amended under Ordinance No. O-2019-14, adopted on June 19, 2019. The Plan is also governed by certain provisions of Part VII, Chapter 112, <u>Florida Statutes</u> (F.S.) and the Internal Revenue Code.

B. Effective Date

October 1, 1958

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 regular full-time employees who are contributing to the pension plan.

F. General Fund Member

Any member paid out of the City's general fund and/or other City funds, with the exception of the water and sewer utility, storm water utility, parking and sanitation funds.

G. Credited Service

Service rendered to the City for which the member has received Compensation and has made contributions to the fund. No service is credited for any periods of employment for which the member received a refund of employee contributions.

H. Compensation

Members Hired Prior to July 15, 2009

Gross wages received from the City, including overtime and excluding payouts for blood time and compensatory time. Compensation includes payments for accumulated sick leave not to exceed the amount accumulated as of October 1, 2002. Compensation includes payments for accumulated annual leave not to exceed the amount accumulated as of March 2014 and limited to 125 hours for employees covered by a bargaining unit and are limited to 60 hours for employees not covered by a bargaining unit.



Members Hired on or After July 15, 2009

Compensation includes only base pay and longevity pay.

I. Average Final Compensation (AFC)

Members Hired Prior to July 15, 2009

The average of Compensation over the highest 78 consecutive biweekly pay periods of Credited Service prior to termination or retirement.

Members Hired on or After July 15, 2009 but Before October 1, 2011 for General Fund Members or Before March 5, 2014 for Non-General Fund Members

The average of Compensation over the highest 104 consecutive biweekly pay periods of Credited Service prior to termination or retirement.

Members Hired on or After October 1, 2011 for General Fund Members or March 5, 2014 for Non-General Fund

The average of Compensation over the highest 130 consecutive biweekly pay periods or the last 260 biweekly pay periods of Credited Service prior to termination or retirement.

J. Normal Retirement

Members Hired Prior to July 15, 2009

Eligibility: A member may retire upon attaining age 55 with 5 years of Credited Service or upon

attaining 25 years of Credited Service regardless of age.

Benefit: 3.0% of AFC multiplied by years of Credited Service, up to 81% of AFC.

Normal Form

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

COLA: 2.0% per year commencing 3 years after retirement benefits begin.

Members Hired on or After July 15, 2009 but Before October 1, 2011 for General Fund Members or Before March 5, 2014 for Non-General Fund Members

Eligibility: A member may retire upon attaining age 60 with 7 years of Credited Service, upon

attaining age 57 with 25 years of Credited Service, or upon attaining 30 years of Credited

Service regardless of age.

Benefit: 2.5% of AFC multiplied by years of Credited Service, up to 81% of AFC.



Normal Form

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

COLA: None.

Members Hired on or After October 1, 2011 for General Fund Members or March 5, 2014 for Non-General Fund

Eligibility: A member may retire upon attaining age 65 with 7 years of Credited Service, age 62 with

25 years of Credited Service, or 30 years of Credited Service regardless of age.

Benefit: 2.5% of AFC multiplied by years of Credited Service, up to 81% of AFC.

Normal Form

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

COLA: None.

K. Early Retirement

None.

L. Delayed Retirement

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

M. Service Connected Disability

Members Hired Prior to July 15, 2009

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

specific duties of the member's position as a result of an act occurring in the performance of service for the City is immediately eligible for a disability benefit.

Benefit: 75% of salary.

Normal Form

of Benefit: Single Life Annuity; or until recovery from disability.

COLA: 2.0% per year commencing 3 years after retirement benefits begin. Members hired on or

after July 15, 2009 are not eligible for the COLA.



Members Hired on or After July 15, 2009

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

specific duties of the member's position as a result of an act occurring in the performance of service for the City is immediately eligible for a disability benefit.

Benefit: 75% of salary.

Normal Form

of Benefit: Single Life Annuity; or until recovery from disability.

COLA: None.

N. Non-Service Connected Disability

Members Hired Prior to July 15, 2009

Eligibility: Any member with 5 years of Credited Service who becomes totally and permanently

disabled and unable to perform the specific duties of the member's position is

immediately eligible for a disability benefit.

Benefit: The greater of:

(1) Accrued Normal Retirement Benefit taking into account Compensation earned and

service credited until the date of disability, or

(2) 20% of AFC.

Normal Form

of Benefit: Single Life Annuity; or until recovery from disability.

COLA: 2.0% per year commencing 3 years after retirement benefits begin. Members hired on or

after July 15, 2009 are not eligible for the COLA.

Members Hired on or After July 15, 2009

Eligibility: Any member with 7 years of Credited Service who becomes totally and permanently

disabled and unable to perform the specific duties of the member's position is

immediately eligible for a disability benefit.

Benefit: The greater of:

(1) Accrued Normal Retirement Benefit taking into account Compensation earned and

service credited until the date of disability, or

(2) 20% of AFC.

Normal Form

of Benefit: Single Life Annuity; or until recovery from disability.

COLA: None.



O. Death in the Line of Duty

Members Hired Prior to July 15, 2009

Eligibility: Members are eligible for survivor benefits after the completion of 5 years of Credited

Service.

Benefit: The benefit payable to the spouse determined as though the deceased member had

retired on the date of death and had chosen a 100% joint and survivor annuity.

Normal Form

of Benefit: Single Life Annuity.

COLA: 2.0% per year commencing 3 years after retirement benefits begin. Members hired on or

after July 15, 2009 are not eligible for the COLA.

The designated beneficiary of a plan member with less than 5 years of Credited Service will receive a refund of the member's accumulated contributions.

Members Hired on or After July 15, 2009

Eligibility: Members are eligible for survivor benefits after the completion of 7 years of Credited

Service.

Benefit: The benefit payable to the spouse determined as though the deceased member had

retired on the date of death and had chosen a 100% joint and survivor annuity.

Normal Form

of Benefit: Single Life Annuity.

COLA: None.

The designated beneficiary of a plan member with less than 7 years of Credited Service will receive a refund of the member's accumulated contributions.

P. Other Pre-Retirement Death

Members Hired Prior to July 15, 2009

Eligibility: Members are eligible for survivor benefits after the completion of 5 years of Credited

Service.

Benefit: The benefit payable to the spouse determined as though the deceased member had

retired on the date of death and had chosen a 100% joint and survivor annuity.



Normal Form

of Benefit: Single Life Annuity.

COLA: 2.0% per year commencing 3 years after retirement benefits begin. Members hired on or

after July 15, 2009 are not eligible for the COLA.

The designated beneficiary of a plan member with less than 5 years of Credited Service will receive a refund of the member's accumulated contributions.

Members Hired on or After July 15, 2009

Eligibility: Members are eligible for survivor benefits after the completion of 7 years of Credited

Service.

Benefit: The benefit payable to the spouse determined as though the deceased member had

retired on the date of death and had chosen a 100% joint and survivor annuity.

Normal Form

of Benefit: Single Life Annuity.

COLA: None.

The designated beneficiary of a plan member with less than 7 years of Credited Service will receive a refund of the member's accumulated contributions.

Q. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.

R. Optional Forms

In lieu of electing the Normal Form of benefit, the optional forms of benefits available to all retirees are the 5, 10 and 20 Year Certain and Life Annuity options and the 50% and 100% Joint and Survivor options. Members who are eligible for normal retirement may elect to receive a Partial Lump Sum of up to 25% of the present value of the benefit with the remainder as a monthly benefit. The lump sum amount is calculated using the Plan's definition of actuarial equivalence.

S. Vested Termination

Members Hired Prior to July 15, 2009

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 at age 55 (age 60 for members hired on or after July 15,

2009).



Normal Form

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

COLA: 2.0% per year commencing 3 years after retirement benefits begin. Members hired on or

after July 15, 2009 are not eligible for the COLA.

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

Members Hired on or After July 15, 2009 but Before October 1, 2011 for General Fund Members or Before March 5, 2014 for Non-General Fund Members

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion of 7

years of Credited Service.

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

termination. Benefit begins at 60.

Normal Form

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

COLA: None.

Members terminating employment with less than 7 years of Credited Service will receive a refund of their own accumulated contributions.

Members Hired on or After October 1, 2011 for General Fund Members or March 5, 2014 for Non-General Fund

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion of 7

years of Credited Service.

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

termination. Benefit begins at 65.

Normal Form

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

COLA: None.

Members terminating employment with less than 7 years of Credited Service will receive a refund of their own accumulated contributions.



T. Refunds

Eligibility: All members terminating non-vested are eligible. Optionally, vested members may elect

a refund in lieu of the vested benefits otherwise due.

Benefit: A refund of the member's contributions with simple interest at 4% per year through date

of separation.

U. Member Contributions

Members Hired Prior to July 15, 2009

9.0% of Compensation.

Members Hired on or After July 15, 2009 but Before October 1, 2011 for General Fund Members or Before March 5, 2014 for Non-General Fund Members

9.0% of Compensation.

Members Hired on or After October 1, 2011 for General Fund Members or March 5, 2014 for Non-General Fund

8.0% of Compensation.

V. Employer Contributions

The amount determined by the actuary needed to fund the Plan properly according to State laws.

W. Cost of Living Increases

Members Hired Prior to July 15, 2009

2.0% per year commencing 3 years after retirement benefits begin. For Members who enter the DROP, the COLA begins 1 year after separation of employment, if later.

Members Hired on or After July 15, 2009

Members hired on or after July 15, 2009 are not eligible for the COLA.

X. Deferred Retirement Option Plan (DROP)

Members Hired Prior to July 15, 2009

Eligibility: A member may enter the DROP upon attaining age 55 with 10 years of Credited Service

or upon attaining 25 years of Credited Service regardless of age, but before completing

30 years of Credited Service.



Benefit: The member's Credited Service and AFC are frozen upon entry into the DROP. The

monthly retirement benefit as described under Normal Retirement is calculated based

upon the frozen Credited Service and AFC.

Maximum

DROP Period: 5 years but no later than completion of 32 years of Credited Service.

Interest

Credited: The member's DROP account is credited with interest at the same rate as the net rate of

investment return on plan assets.

Normal Form

of Benefit: Lump Sum or Direct Rollover.

COLA: 2.0% per year commencing 3 years after DROP payments begin or 1 year after separation

of employment, if later.

Members Hired on or After July 15, 2009

Members hired on or after July 15, 2009 are not eligible to enter the DROP.

Y. Planned Retirement Program

The Planned Retirement Program is available for members who were hired before July 15, 2009 and offers the following features:

- A member may backdrop for up to five years but not prior to the date when normal retirement eligibility was attained
- The retirement benefit is calculated based on service and average final compensation at the retroactive Planned Retirement Program date
- The Planned Retirement Program deposits are credited with interest according to the following schedule:
 - If the Plan's return is negative, the member shares in the losses
 - If the Plan's funded ratio is below 80%, the member receives the first 4%, the Plan receives the next 2%, and the member receives any additional earnings above 6%
 - If the Plan's funded ratio is between 80% and 90%, the member receives the first 4%, the Plan receives the next 1%, and the member receives any additional earnings above 5%
 - If the Plan's funded ratio is above 90%, the member receives the full Plan return



Z. Supplemental Pension Distribution

The Plan provides that a supplemental pension distribution may be paid to eligible benefit recipients if the market value rate of return exceeds the assumed rate of return plus 4.5% (effective as of October 1, 2007). An eligible recipient is any member employed by the City on October 1, 2002, any member receiving benefits on that date, and any spouse of deceased members receiving benefits on that date. The Supplemental Pension Distribution is not payable while an eligible recipient participates in the DROP. The total Supplemental Pension Distribution is equal to the actuarial present value of future retirement benefits with respect to eligible recipients multiplied by the excess (not to exceed 2%) of the net market rate of return over the assumed rate of return plus 4.5%. The amount allocated to each eligible recipient is determined by multiplying the total Supplemental Pension Distribution by each individual member's years of Credited Service divided by total years of Credited Service for all recipients. Credit Service is limited to 25 years.

AA. Transfers

Members who transfer to another City plan are eligible to receive benefits from this Plan. The employee contributions for transferred members remain in the fund. The benefit is based on the Credited Service accrued under this Plan, the multiplier in effect at the date of transfer, and the Compensation earned through date of termination or DROP participation. Eligibility for benefits is based on all service. Death and disability benefits are not payable from this Plan after the date of transfer. Members hired on or after July 15, 2009 who transfer to another City plan are treated as terminated employees.

AB. Other Ancillary Benefits

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

AC. Changes from Previous Valuation

None.

