Retirement Plan for the Employees of the Boca Raton Housing Authority

Actuarial Valuation As of October 1, 2023

Determines the Contribution For the 2023/24 Fiscal Year



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April 3, 2024

Introduction

This report presents the results of the October 1, 2023 actuarial valuation for the Retirement Plan for the Employees of the Boca Raton Housing Authority. The report is based on the participant data and asset information provided by the pension plan administrator and, except for a cursory review for reasonableness including a comparison to the data provided for the previous valuation, we have not attempted to verify the accuracy of this information.

The primary purpose of this report is to provide a summary of the funded status of the plan as of October 1, 2023 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2023/24 plan year. In addition, this report provides a projection of the long-term funding requirements of the plan, statistical information concerning the assets held in the trust, statistical information concerning the participant population, and a summary of any recent plan changes.

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an <u>estimate</u> of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, if any of the assumptions is not completely realized, then the cost shown in this report will change in the future.

Certain assumptions play a bigger role than others in determining the cost of the post-employment pension benefits. In some cases, relatively small changes in a particular assumption can have a dramatic impact on the anticipated cost of benefits. Although a thorough analysis of the impact of such changes is beyond the scope of this report, Table I-B illustrates the impact that alternative long-term investment returns would have on the contribution rate.

Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2023/24 plan year. The minimum required contribution rate is 4.72% of payroll, which represents an increase of 4.72% of payroll from the prior valuation.

The normal cost rate as of October 1, 2023 is 4.72%, as compared to a rate of 0.00% determined in the prior valuation. Table I-C provides a breakdown of the sources of change in the normal cost rate. Significantly, the rate increased by 11.34% of payroll due to investment shortfalls and decreased by 6.62% of payroll due to demographic experience. The market value of assets lost 13.22% during the 2021/22 plan year and earned 8.69% during the 2022/23 plan year, whereas a 7.00% annual investment return was required to maintain a stable contribution rate.



Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the Authority must contribute an amount equal to the annual normal cost of the plan, adjusted as necessary for administrative expenses and to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the Authority's 2022/23 minimum required contribution will be equal to 4.72% of pensionable earnings. Assuming that an October 1, 2024 actuarial valuation is not prepared, the 4.72% contribution rate will apply for the 2024/25 plan year as well.

Based on the current assets, participant data, and actuarial assumptions and methods that are used to value the plan, the present-day value of the total long-term funding requirement is \$4,339,954. As illustrated in Table I-A, current assets are sufficient to cover \$3,539,564 of this amount, the employer's 2023/24 contribution is expected to cover \$30,585, and future employee contributions are expected to cover \$474,624 of this amount, leaving \$295,181 to be covered by future employer contributions after September 30, 2024. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Advance Employer Contribution

The Authority has made contributions to the plan in excess of the minimum amount that was required to be contributed pursuant to Chapter 112. In this report, the excess contributions are referred to as an "advance employer contribution." As of October 1, 2023, the advance employer contribution is \$122,701, which reflects the advance employer contribution of \$58,048 as of October 1, 2021 plus \$64,653 of employer contributions in excess of the minimum required contribution for the 2021/22 and 2022/23 plan years as shown in Table II-F.

The Authority may apply all or any portion of the advance employer contribution towards the minimum required contribution for the 2023/24 plan year or for any later plan year. The minimum required contribution for that plan year will be reduced dollar-for-dollar by the amount of the advance employer contribution that is applied in this manner.

Identification and Assessment of Risk

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an <u>estimate</u> of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, there is always a risk that, should these assumptions not be realized, the liabilities of the plan, the contributions required to fund the plan, and the funded status of the plan may be significantly different than the amounts shown in this report.

Although a thorough analysis of the risk of not meeting the assumptions is beyond the scope of this report, this discussion is intended to identify the significant risks faced by the plan. In some cases, a more detailed review of the risks, including numerical analysis, may be appropriate to help the plan sponsor and other interested parties assess the specific impact



of not realizing certain assumptions. For example, Table I-B illustrates the impact that alternative long-term investment returns would have on the contribution rate. Note that this report is not intended to provide advice on the management or reduction of the identified risks nor is this report intended to provide investment advice.

The most significant risk faced by most defined benefit pension plans is investment risk, i.e. the risk that long-term investment returns will be less than assumed. Other related risks include a risk that, if the investments of the plan decline dramatically over a short period of time (such as occurred with many pension plans in 2008), the plan's assets may not have sufficient time to recover before benefits become due. Even if the assets of the plan grow in accordance with the assumed investment return over time, if benefit payments are expected to be large in the short-term (for example, if the plan provides an actuarial equivalent lump sum payment option and a large number of participants are expected to become entitled to such a lump sum in the near future), the plan's assets may not be sufficient to support such a high level of benefit payments. We have provided a 10-year projection of the expected benefit payments in Table III-G to help the Trustees in formulating an investment policy that is expected to provide an investment return that meets both the short- and long-term cash flow needs of the pension plan.

Another source of risk is demographic experience. This is the risk that participants will receive salary increases that are different than the amount assumed, that participants will retire, become disabled, or terminate their employment at a rate that is different than assumed, and that participants will live longer than assumed, just to cite a few examples of the demographic risk faced by the plan. Although for most pension plans, the demographic risk is not as significant as the investment risk, particularly in light of the fact that the mortality assumption includes a component for future life expectancy increases, the demographic risk can nevertheless be a significant contributing factor to liabilities and contribution rates that become higher than anticipated.

A third source of risk is the risk that the plan sponsor (or other contributing entities) will not make, or will not have the ability to make, the contributions that are required to keep the plan funded at a sufficient level. Material changes in the number of covered employees, covered payroll, and, in some cases, hours worked by active participants can also significantly impact the plan's liabilities and the level of contributions received by the plan.

Finally, an actuarial funding method has been used to allocate the gap between projected liablities and assets to each year in the future. The contribution rate under some funding methods is higher during the early years of the plan and then is lower during the later years of the plan. Other funding methods provide for lower contribution rates initially, with increasing contribution rates over time.

The Trustees have adopted the aggregate funding method for this plan, which is expected to result in a contribution rate that is level as a percentage of payroll over the working life of the plan's active participants. A brief description of the actuarial funding method is provided in Table IV-A.

Contents of the Report

Tables I-D through I-G provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-F provide information concerning the assets of the trust fund. Tables III-A through III-G provide statistical information concerning the plan's participant population. In particular, Table III-G gives a 10-year



projection of the cash that is expected to be required from the trust fund in order to pay benefits to the current group of participants. Finally, Tables IV-A through V-B provide a summary of the actuarial assumptions and methods that are used to value the plan's benefits and of the relevant plan provisions as of October 1, 2023, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Chapter 112, Florida Statutes. 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 change in plan costs or required contribution rates have been taken into account in the valuation.

For the firm,

Charles J. Carryuz.

Charles T. Carr Consulting Actuary Southern Actuarial Services Company, Inc.

Enrolled Actuary No. 23-04927

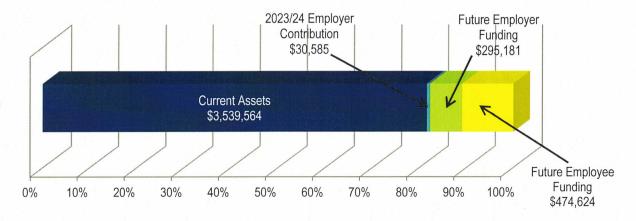
The individual above is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Minimum Required Contribution

Table I-A

Funding Source



For the 2023/24 Plan Year

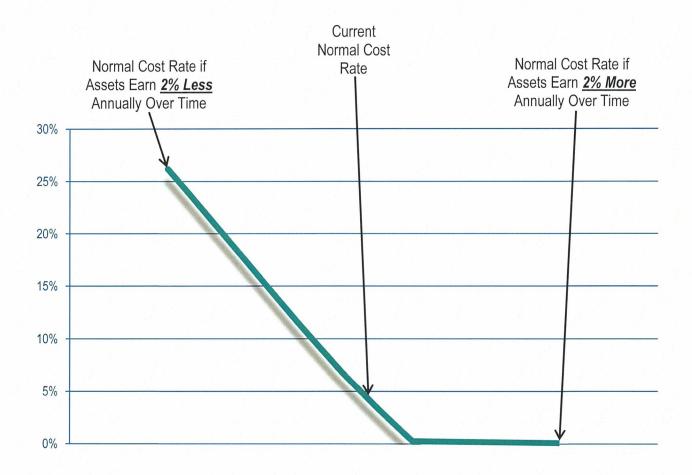
Contribution Rate 4.72%	Minimum Re
r the 2023/24 Plan Year ÷ \$647,372	Expected P
r the 2023/24 Plan Year \$30,585	Preliminary Employer Contrib
Employer Contributions \$0	Adjustment to Reflect
Normal Cost \$30,585	
Expected Payroll x \$647,372	
Normal Cost Rate = 4.7246%	
t Value of Future Payroll ÷ \$6,895,161	
of Future Normal Costs \$325,766	Preser
Employee Contributions (\$474,624)	Present Value of
Actuarial Value of Assets (\$3,539,564)	
Administrative Expenses \$64,137	Present Value of
Value of Future Benefits \$4,275,817	F

(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)



Sensitivity Analysis

Table I-B



The line above illustrates the sensitivity of the contribution rate to changes in the long-term investment return.



Gain and Loss Analysis

Table I-C

	Previous normal cost rate		0.00%
Increase (decrease) due to in Increase (decrease) due t	vestment gains and losses to demographic experience		11.34% -6.62%
Increase (decrease) due to act	e) due to plan amendments uarial assumption changes actuarial method changes		0.00% 0.00% 0.00%
	Current normal cost rate	1	4.72%



Present Value of Future Benefits

Table I-D

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$2,051,920	\$2,051,920	\$2,051,920
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$2,051,920	\$2,051,920	\$2,051,920
Deferred Vested Participants			
Retirement benefits	\$922,643	\$922,643	\$922,643
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$922,643	\$922,643	\$922,643
Due a Refund of Contributions	\$62,313	\$62,313	\$62,313
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$1,238,941	\$1,238,941	\$1,238,941
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,238,941	\$1,238,941	\$1,238,941
Grand Total	<u>\$4,275,817</u>	<u>\$4,275,817</u>	<u>\$4,275,817</u>
Present Value of Future Payroll	\$6,895,161	\$6,895,161	\$6,895,161
Present Value of Future Employee Contribs. Present Value of Future Employer Contribs.	\$474,624 \$325,766	\$474,624 \$325,766	\$474,624 \$325,766



Present Value of Accrued Benefits

Table I-E

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$326,408	\$326,408	\$326,408
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$326,408	\$326,408	\$326,408
Deferred Vested Participants			
Retirement benefits	\$922,643	\$922,643	\$922,643
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$922,643	\$922,643	\$922,643
Due a Refund of Contributions	\$62,313	\$62,313	\$62,313
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$1,238,941	\$1,238,941	\$1,238,941
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,238,941	\$1,238,941	\$1,238,941
Grand Total	<u>\$2,550,305</u>	<u>\$2,550,305</u>	\$2,550,305
<u>Funded Percentage</u>	143.60%	143.60%	143.60%

(Note: Funded percentage is equal to the ratio of the usable portion of the market value of assets divided by the present value of accrued benefits.)



Present Value of Vested Benefits

Table I-F

	Old Assumptions w/o Amendment Old Assumptions w/ Amendment		New Assumptions w/ Amendment	
Actively Employed Participants				
Retirement benefits	\$72,365	\$72,365	\$72,365	
Termination benefits	\$0	\$0	\$0	
Disability benefits	\$0	\$0	\$0	
Death benefits	\$0	\$0	\$0	
Refund of employee contributions	\$0	\$0	\$0	
Sub-total	\$72,365	\$72,365	\$72,365	
Deferred Vested Participants				
Retirement benefits	\$922,643	\$922,643	\$922,643	
Termination benefits	\$0	\$0	\$0	
Disability benefits	\$0	\$0	\$0	
Death benefits	\$0	\$0	\$0	
Refund of employee contributions	\$0	\$0	\$0	
Sub-total	\$922,643	\$922,643	\$922,643	
Due a Refund of Contributions	\$62,313	\$62,313	\$62,313	
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0	
Retired Participants				
Service retirements	\$1,238,941	\$1,238,941	\$1,238,941	
Disability retirements	\$0	\$0	\$0	
Beneficiaries receiving	\$0	\$0	\$0	
DROP participants	\$0	\$0	\$0	
Sub-total	\$1,238,941	\$1,238,941	\$1,238,941	
Grand Total	\$2,296,262	\$2,296,262	\$2,296,262	



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions w/o Amendment	Old Assumptions w/ Amendment	New Assumptions w/ Amendment
Actively Employed Participants			
Retirement benefits	\$705,549	\$705,549	\$705,549
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$705,549	\$705,549	\$705,549
Deferred Vested Participants			
Retirement benefits	\$922,643	\$922,643	\$922,643
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$922,643	\$922,643	\$922,643
Due a Refund of Contributions	\$62,313	\$62,313	\$62,313
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$1,238,941	\$1,238,941	\$1,238,941
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$1,238,941	\$1,238,941	\$1,238,941
Grand Total	\$2,929,446	\$2,929,446	\$2,929,446



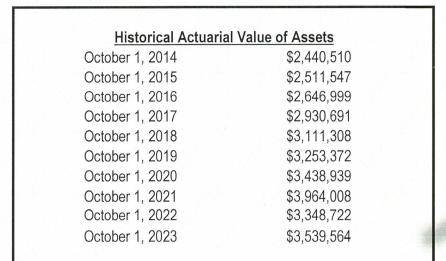
Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1, 2023 \$3,662,265

Minus advance employer contribution (\$122,701)

Actuarial Value of Assets as of October 1, 2023 \$3,539,564



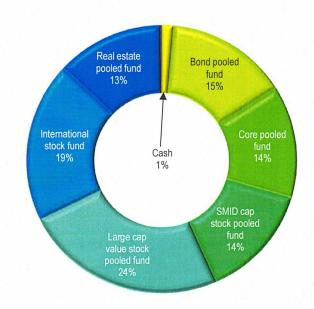


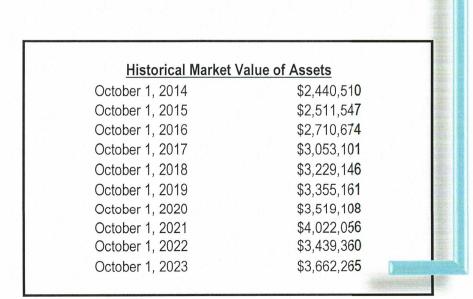
Market Value of Assets

Table II-B

As of October 1, 2023

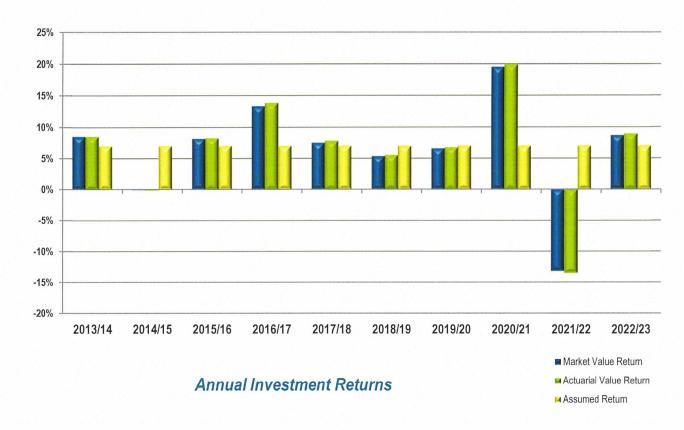
Market Value of Assets	\$3,662,265	5
Cash	\$51,178)
Casii		
Bond pooled fund	\$533,709)
Core pooled fund	\$497,154	1
SMID cap stock pooled fund	\$508,121	
Large cap value stock pooled fund	\$891,953	3
International stock fund	\$705,520)
Real estate pooled fund	\$467,910)
Employer contribution receivable	\$2,413	3
Employee contribution receivable	\$4,307	7







Investment Return Table II-C



	Market	Actuarial	
Plan	Value	Value	Assumed
Year	Return	Return	Return
2013/14	8.54%	8.54%	7.00%
2014/15	-0.10%	-0.10%	7.00%
2015/16	8.19%	8.29%	7.00%
2016/17	13.34%	13.82%	7.00%
2017/18	7.51%	7.82%	7.00%
2018/19	5.35%	5.54%	7.00%
2019/20	6.59%	6.78%	7.00%
2020/21	19.54%	19.94%	7.00%
2021/22	-13.22%	-13.47%	7.00%
2022/23	8.69%	8.97%	7.00%
10yr. Avg.	6.11%	6.27%	7.00%



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2021	\$4,022,056	\$3,964,008
Increases Due To:		
Employer Contributions	\$64,653	\$64,653
Employee Contributions Service Purchase Contributions Total Contributions	\$110,619 \$0 \$175,272	\$110,619 \$0 \$175,272
Interest and Dividends Realized Gains (Losses) Unrealized Gains (Losses)	\$0 \$0 (\$232,427)	
Total Investment Income Other Income	(\$232,427) \$0	(\$232,427)
Total Income	(\$57,155)	(\$57,155)
Decreases Due To:		
Monthly Benefit Payments Refund of Employee Contributions	(\$240,483) (\$29,859)	(\$240,483) (\$29,859)
Total Benefit Payments	(\$270,342)	(\$270,342)
Investment Expenses Administrative Expenses	\$0 (\$32,294)	(\$32,294)
Advance Employer Contribution		(\$64,653)
Total Expenses	(\$302,636)	(\$367,289)
As of October 1, 2023	\$3,662,265	\$3,539,564



Historical Trust Fund Detail

Table II-E

<u>Income</u>							
			Service		Realized	Unrealized	
Plan	Employer	Employee	Purchase	Interest /	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	<u>Dividends</u>	Losses	Losses	Income
2013/14	\$65,558	\$46,259	\$0	\$0	\$0	\$191,873	\$0
2014/15	\$66,090	\$45,532	\$0	\$0	\$0	-\$2,451	\$0
2015/16	\$66,435	\$45,069	\$0	\$0	\$0	\$205,331	\$0
	401.000	444.004				4000 101	40

2014/15	\$66,090	\$45,532	\$0	\$0	\$0	-\$2.451	\$0
2015/16	\$66,435	\$45,069	\$0	\$0	\$0	\$205,331	\$0
2016/17	\$61,302	\$41,361	\$0	\$0	\$0	\$360,431	\$0
2017/18	\$34,538	\$40,911	\$0	\$0	\$0	\$227,404	\$0
2018/19	\$27,267	\$44,940	\$0	\$0	\$0	\$171,634	\$0
2019/20	\$27,081	\$47,741	\$0	\$0	\$0	\$219,428	\$0
2020/21	\$28,431	\$50,064	\$0	\$0	\$0	\$671,085	\$0
2021/22	\$32,590	\$55,442	\$0	\$0	\$0	-\$528,144	\$0
2022/23	\$32,063	\$55,177	\$0	\$0	\$0	\$295,717	\$0

Expenses						Other Actuarial Adjustments
		Monthly				Advance
	Plan	Benefit	Contrib.	Admin.	Invest.	Employer
	Year	Payments	Refunds	Expenses	Expenses	Contribs.
	2013/14	\$28,096	\$66,206	\$13,857	\$0	\$0
	2014/15	\$24,622	\$6,761	\$6,751	\$0	\$0
	2015/16	\$84,771	\$16,424	\$16,513	\$0	\$63,675
	2016/17	\$104,821	\$7,536	\$8,310	\$0	\$58,735
	2017/18	\$109,899	\$375	\$16,534	\$0	-\$4,572
	2018/19	\$110,234	\$0	\$7,592	\$0	-\$16,049
	2019/20	\$112,446	\$0	\$17,857	\$0	-\$21,620
	2020/21	\$214,412	\$23,561	\$8,659	\$0	-\$22,121
	2021/22	\$116,093	\$3,063	\$23,428	\$0	\$32,590
	2022/23	\$124,390	\$26,796	\$8,866	\$0	\$32,063

Note: Information was not available to separate the investment expenses from the investment income nor was information available to separate the investment income by source.



Other Reconciliations

Table II-F

Advance Employer Contribution

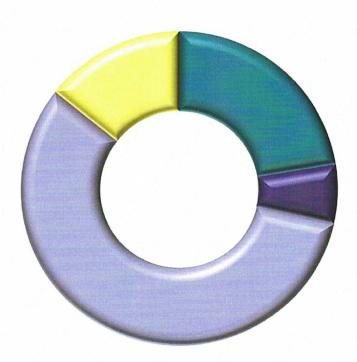
Advance Employer Contribution as of October 1, 2021	\$58,048
Additional Employer Contribution Minimum Required Contribution	\$32,590 \$0
Net Increase in Advance Employer Contribution	\$32,590
Advance Employer Contribution as of October 1, 2022	\$90,638
Additional Employer Contribution Minimum Required Contribution	\$32,063 \$0
Net Increase in Advance Employer Contribution	\$32,063
Advance Employer Contribution as of October 1, 2023	\$122,701



Summary of Participant Data

Table III-A

As of October 1, 2023



Participant Distribution by Status

Actively Employed Participants Active Participants 11 **DROP** Participants 0 Inactive Participants Deferred Vested Participants 3 Due a Refund of Contributions 28 **Deferred Beneficiaries** 0 Participants Receiving a Benefit Service Retirements 7 0 **Disability Retirements** Beneficiaries Receiving 0 **Total Participants** 49

Numb	er of P	articipant	s Included	in Prior Va	luations	
		Active	DROP	Inactive	Retired	Tot al
October 1, 2014		N/A	N/A	N/A	N/A	N/A
October 1, 2015		14	0	26	4	44
October 1, 2016		N/A	N/A	N/A	N/A	N/A
October 1, 2017		14	0	23	6	43
October 1, 2018		N/A	N/A	N/A	N/A	N/A
October 1, 2019		13	0	29	6	48
October 1, 2020		N/A	N/A	N/A	N/A	N/A
October 1, 2021		13	0	29	6	48
October 1, 2022		N/A	N/A	N/A	N/A	N/A
October 1, 2023		11	0	31	7	49



Data Reconciliation Table III-B

	<u>Active</u>	DROP	Deferred <u>Vested</u>	Due a <u>Refund</u>	Def. Benef.	Service Retiree	Disabled Retiree	Benef. Rec'v.	<u>Total</u>
October 1, 2021	13	0	2	27	0	6	0	0	48
Change in Status Re-employed Terminated Retired	(5)		3 (1)	2		1			
Participation Ended Transferred Out Cashed Out Died			(1)	(1)					(2)
Participation Began Newly Hired Transferred In New Beneficiary Other Adjustment	3								3
October 1, 2023	11	0	3	28	0	7	0	0	49

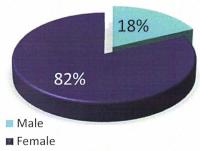


Active Participant Data

Table III-C

As of October 1, 2023

Gender Mix



Average Age	45.8 years
Average Service	5.0 years
Total Annualized Compensation for the Prior Year	\$619,495
Total Expected Compensation for the Current Year	\$647,372
Average Increase in Compensation for the Prior Year	15.23%
Expected Increase in Compensation for the Current Year	4.50%
Accumulated Contributions for Active Employees	\$200,954

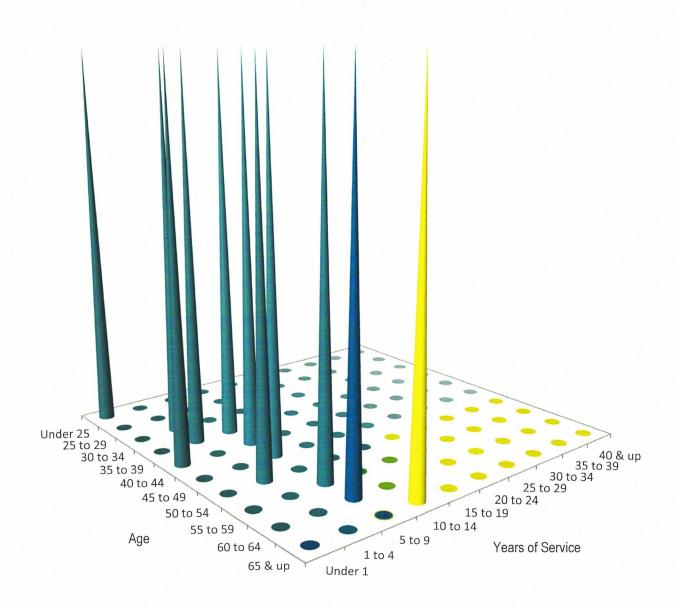


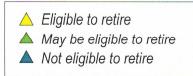
Actual vs. Expected Salary Increases

Active Participant Statistics From Prior Valuations

				Average	Average	
				Expected	Actual	
	Average	Average	Average	Salary	Salary	
	Age	Service	Salary	Increase	Increase	
October 1, 2014	N/A	N/A	N/A	4.50%	6.58%	
October 1, 2015	44.3	4.6	\$44,633	4.50%	1.85%	
October 1, 2016	N/A	N/A	N/A	4.50%	2.77%	
October 1, 2017	41.8	3.7	\$43,542	4.50%	11.94%	
October 1, 2018	N/A	N/A	N/A	4.50%	10.17%	
October 1, 2019	42.9	4.7	\$52,147	4.50%	8.29%	
October 1, 2020	N/A	N/A	N/A	4.50%	5.23%	
October 1, 2021	48.8	5.6	\$60,096	4.50%	8.85%	
October 1, 2022	N/A	N/A	N/A	4.50%	2.16%	
October 1, 2023	45.8	5.0	\$56,318	4.50%	15.23%	









Active Age-Service-Salary Table

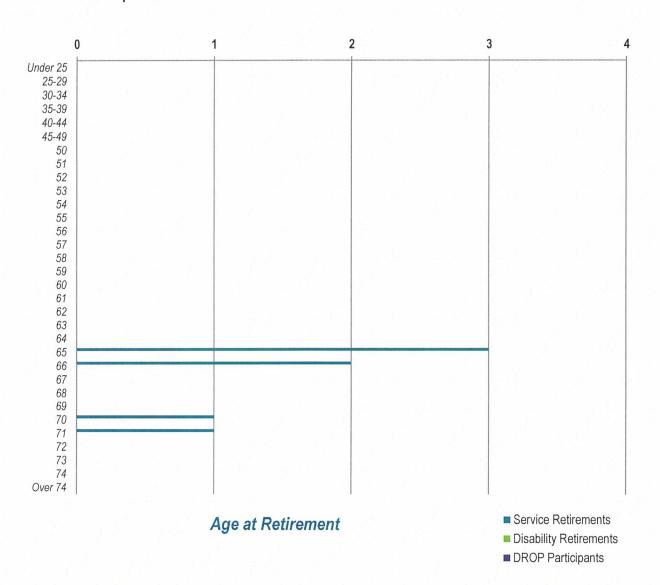
Table III-E

Attained					Complet	ed Years o	f Service				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	1	0	0	0	0	0	0	0	0	0	1 1
Avg.Pay	41,767	0	0	0	0	0	0	0	0	0	41,767
25 to 29	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
30 to 34	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	45,545	0	0	0	0	0	0	0	0	45,545
35 to 39	0	1	1	0	0	0	0	0	0	0	2
Avg.Pay	0	37,879	89,487	0	0	0	0	0	0	0	63,683
40 to 44	1	0	1	0	0	0	0	0	0	0	2
Avg.Pay	42,780	0	56,788	0	0	0	0	0	0	0	49,784
45 to 49	0	0	1	0	0	0	0	0	0	0	1
Avg.Pay	0	0	70,817	0	0	0	0	0	0	0	70,817
50 to 54	0	1	0	0	0	0	0	0	0	0	1
Avg.Pay	0	57,564	0	0	0	0	0	0	0	0	57,564
55 to 59	0	0	1	0	0	0	0	0	0	0	
Avg.Pay	0	0	69,190	0	0	0	0	0	0	0	69,190
Avg.i ay	· ·	U	03,130	U	U	U	0	0	0	U	09,190
60 to 64	0	0	1	0	0	0	0	0	0	0	1
Avg.Pay	0	0	59,682	0	0	0	0	0	0	0	59,682
65 & up	0	0	0	1	0	0	0	0	0	0	1
Avg.Pay	0	0	0	47,996	0	0	0	0	0	0	47,996
, wg.i ay	ŭ	0	0	47,000	0	0	0		0	0	71,000
Total	2	3	5	1	0	0	0	0	0	0	11
Avg.Pay	42,274	46,996	69,193	47,996	0	0	0	0	0	0	56,318
12.4	11 11 11	11.00		17.0			1.5			1, 1, 1	



Inactive Participant Data

Table III-F



Average Monthly Benefit

Service Retirements	\$1,580.05
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Company of the LD and a local to	¢0.057.00

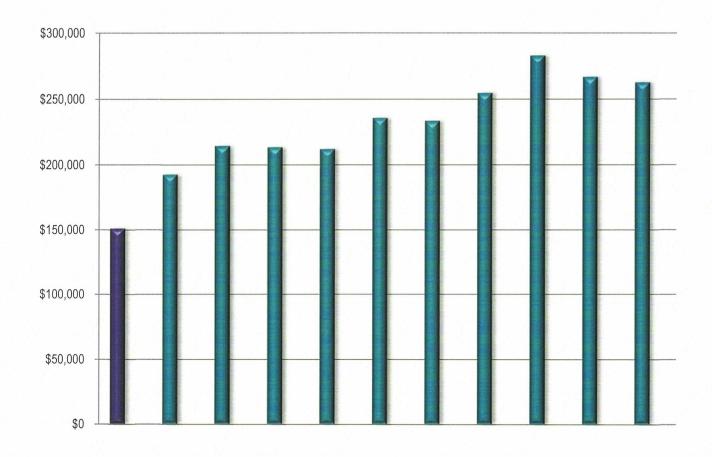
Deferred Vested Participants \$2,857.89

Deferred Beneficiaries Not applicable



Projected Benefit Payments

Table III-G



Actual		
For the period October 1, 2022 through Septem	ber 30, 2023	\$151,186
<u>Projected</u>		
For the period October 1, 2023 through Septeml	ber 30, 2024	\$192,592
For the period October 1, 2024 through Septeml	ber 30, 2025	\$214,608
For the period October 1, 2025 through Septeml	ber 30, 2026	\$213,567
For the period October 1, 2026 through Septeml	ber 30, 2027	\$212,184
For the period October 1, 2027 through Septeml	ber 30, 2028	\$235,746
For the period October 1, 2028 through Septeml	ber 30, 2029	\$233,510
For the period October 1, 2029 through Septeml	ber 30, 2030	\$254,661
For the period October 1, 2030 through Septeml	ber 30, 2031	\$283,104
For the period October 1, 2031 through Septeml	ber 30, 2032	\$266,784
For the period October 1, 2032 through Septem	ber 30, 2033	\$262,566



Summary of Actuarial Methods and Assumptions

Table IV-A

NOTE: The following assumptions and methods have been selected and approved by the Board of Trustees based in part on the advice of the plan's enrolled actuary in accordance with the authority granted to the Board under the pension ordinances and State law.

1. Actuarial Cost Method

Aggregate cost method. Under this actuarial cost method, a funding cost is developed for the plan as a level percentage of payroll. The level funding percentage is calculated as the excess of the total future benefit liability over accumulated assets and future employee contributions, with this excess spread over the expected future payroll for current active participants. The normal cost is equal to the level funding percentage multiplied by the expected payroll for the year immediately following the valuation date. The actuarial accrued liability is equal to the accumulated assets. Therefore, under the aggregate cost method, no unfunded accrued liability is developed.

2. Asset Method

The actuarial value of assets is equal to the market value of assets.

3. Interest (or Discount) Rate

7.00% per annum

4. Salary Increases

Plan compensation is assumed to increase at the rate of 4.50% per annum, unless actual plan compensation is known for a prior plan year.

5. Decrements

• Pre-retirement mortality: None is assumed.

Post-retirement mortality:
 Sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Below

Median Healthy Retiree Mortality Table for general employees, with full generational improvements in mortality using Scale MP-2018 and with male

ages set back one year

Disability: None is assumed.

Termination: None is assumed.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

5. **Decrements** (continued)

• Retirement: Retirement is assumed to occur upon the attainment of normal retirement age.

No decrements are assumed to occur during the year immediately following the valuation date.

6. Form of Payment

Future retirees have been assumed to select the 10-year certain and life annuity.

7. Expenses

The total projected benefit liability has been loaded by 1.50% to account for anticipated administrative expenses. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.



Changes in Actuarial Methods and Assumptions

Table IV-B

No assumptions or methods were changed since the completion of the previous valuation.

The following additional assumption and method changes were made during the past 10 years:

- (1) Effective October 1, 2021, the mortality basis was changed from the RP-2000 Combined Mortality Table with generational improvements in mortality using Scale BB to selected PUB-2010 Mortality Tables with generational improvements in mortality using Scale MP-2018.
- (2) Effective October 1, 2017, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Combined Mortality Table as required by State law.
- (3) Effective October 1, 2013, the interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.
- (4) Effective October 1, 2013, the assumed increase in future salaries was changed from 5.50% per year to 4.50% per year.
- (5) Effective October 1, 2013, no decrements are assumed to occur during the year immediately following the valuation date.
- (6) Effective October 1, 2013, the mortality basis was changed from the 1994 Group Annuity Reserving Table, projected to 2002 by Scale AA, to the RP-2000 Mortality Table for annuitants, projected to 2015 by Scale AA, as published by the Internal Revenue Service (IRS) for purposes of Internal Revenue Code (IRC) section 430.



Table V-A

1. Monthly Accrued Benefit

For Division 1: 3.00% of Average Final Compensation multiplied by Credited Service 2.70% of Average Final Compensation multiplied by Credited Service For Division 3: 2.60% of Average Final Compensation multiplied by Credited Service 2.00% of Average Final Compensation multiplied by Credited Service 2.00% of Average Final Compensation multiplied by Credited Service

2. Normal Retirement Age and Benefit

Age

For Division 1: Age 55 with at least 20 years of Credited Service; or

Age 62 with at least 10 years of Credited Service; or

For those participants hired on or before October 1, 2004 with the City of Boca Raton:

Age 55 with at least 15 years of Credited Service; or Age 65 with at least 10 years of Credited Service

For all other participants:

Age 55 with at least 20 years of Credited Service; or Age 65 with at least 10 years of Credited Service

Amount

Monthly Accrued Benefit

Form of Payment

Actuarially increased single life annuity (optional);

10-year certain and life annuity (normal form of payment);

Actuarially reduced 50% joint and contingent annuity (optional);

Actuarially reduced 66²/₃% joint and contingent annuity (optional);

Actuarially reduced 75% joint and contingent annuity (optional);

Actuarially reduced 100% joint and contingent annuity (optional);

Any other actuarially equivalent form of payment approved by the Board; or

Actuarially equivalent lump sum distribution (automatic if the single sum value of the participant's benefit is less than or equal to \$5,000 or the monthly annuity is less than \$100)

(Note: A participant may change his joint annuitant up to two times after retirement.)



Table V-A

(continued)

3. Early Retirement Age and Benefit

Age

Age 50 with at least 20 years of Credited Service

Amount

Monthly Accrued Benefit (payable at Normal Retirement Age); or Monthly Accrued Benefit reduced by 5% for each year by which the participant's Early Retirement Date precedes his Normal Retirement Date (payable at Early Retirement Age)

Form of Payment

Same as for Normal Retirement

4. Service Incurred Disability Eligibility and Benefit

Eligibility

The participant is eligible if his disability was incurred during the course of his employment with the Housing Authority.

Condition

The Board must find that the participant has a physical or mental condition resulting from bodily injury, disease, or a mental disorder which renders him incapable of employment with the Housing Authority.

Amount Payable

Monthly Accrued Benefit

Form of Payment

Single life annuity

5. Non-Service Incurred Disability Eligibility and Benefit

No benefit is provided other than the Early or Normal Retirement Benefit.

6. Delayed Retirement Age and Benefit

Age

After Normal Retirement Age

Amount

Monthly Accrued Benefit

Form of Payment

Same as for Normal Retirement



Table V-A

(continued)

7. Deferred Vested Benefit

Age

Any age with at least 10 years of Credited Service (Three former employees who lost their position due to the sale of Banyan Place are fully vested in their accrued benefit under the plan regardless of their service.)

Amount

Monthly Accrued Benefit (payable at Normal Retirement Age); or Monthly Accrued Benefit reduced by 5% for each year by which the participant's Early Retirement Date precedes his Normal Retirement Date (payable at Early Retirement Age)

Form of Payment

Same as for Normal Retirement

8. Pre-Retirement Death Benefit

In the case of the death of a vested participant prior to retirement, his beneficiary will receive the participant's Monthly Accrued Benefit payable for 10 years beginning on the participant's early or normal retirement date. In the case of the death of a non-vested participant prior to retirement, his beneficiary will receive the participant's Accumulated Contributions in lieu of any other benefits payable from the plan.

9. Average Final Compensation

Average of the highest five years of Compensation (or career average, if higher)

10. Compensation

Total compensation paid by the employer for services rendered, excluding sick payout to the participant at retirement, bonuses, and vacation payout to the participant at employment termination; annual compensation in excess of \$200,000 (as indexed) is excluded in accordance with IRC §401(a)(17).

11. Credited Service

The elapsed time from the participant's date of hire until his date of termination, retirement, or death, provided that the participant transfers or purchases his prior service with the Boca Raton Housing Authority, under the City of Boca Raton General Employees Retirement Plan, or under the City of Boca Raton Management Employees Retirement Plan, as applicable.



Table V-A

(continued)

12. Accumulated Contributions

The Employee Contributions accumulated with interest at the rate of 5.00% per annum; if the participant terminates his employment with less than 10 years of Credited Service, he receives his Accumulated Contributions in lieu of any other benefits payable from the plan.

13. Participant Contribution

6.00% of earnings (for Division 1 participants, 9.00% of earnings; for Division 2 participants, 8.00% of earnings; for Division 3 participants, 7.00% of earnings)

14. Definition of Actuarially Equivalent

Based on 7.00% interest per annum and the unisex mortality table promulgated by the Internal Revenue Service (IRS) for purposes of Internal Revenue Code (IRC) section 417(e)(3).

15. Plan Effective Date

October 1, 2004

16. Automatic Annual Cost-of-Living Adjustment

Division 1 participants receive an automatic 2.00% annual cost-of-living adjustment for all retirement payments made at least two years after retirement; Division 2 participants receive an automatic 1.50% annual cost-of-living adjustment for all retirement payments made at least five years after retirement.



Summary of Plan Amendments

Table V-B

No significant plan changes were adopted since the completion of the previous valuation.

The following additional plan amendments were adopted during the past 10 years and were reflected in prior valuation reports:

- (1) Resolution 2014-19 was adopted to be effective November 1, 2014. This resolution added a 10-year service requirement for normal retirement eligibility at age 65.
- (2) Resolution 2014-07 was adopted to be effective January 31, 2014. This resolution eliminated the service requirement for vesting with respect to three former employees who lost their position due to the sale of Banyan Place.

