Retirement Plan for the Firefighters Of the Pace Fire District

Actuarial Valuation As of October 1, 2022

Determines the Contribution For the 2022/23 Fiscal Year



		<u>Page</u>
Discussion		1
Table I-B S Table I-C G Table I-D F Table I-E F Table I-F F	Minimum Required Contribution Sensitivity Analysis Gain and Loss Analysis Present Value of Future Benefits Present Value of Accrued Benefits Present Value of Vested Benefits Entry Age Normal Accrued Liability	I-1 I-3 I-4 I-5 I-6 I-7 I-8
Accounting Res	ults plement as of September 30, 2022	
Table II-B Table II-C II Table II-D Table II-E Table II-F	Actuarial Value of Assets Market Value of Assets Investment Return Asset Reconciliation Historical Trust Fund Detail Other Reconciliations Historical Chapter 175/185 Contributions	II-1 II-2 II-3 II-4 II-5 II-6
Table III-B Table III-C Table III-D Table III-E Table III-F	Summary of Participant Data Data Reconciliation Active Participant Data Active Age-Service Distribution Active Age-Service-Salary Table Description Data Projected Benefit Payments	-1 -2 -3 -4 -5 -6
	Imptions Summary of Actuarial Methods and Assumptions Changes in Actuarial Methods and Assumptions	IV-1 IV-3
	Summary of Plan Provisions	V-1 V-5



February 9, 2023

Introduction

This report presents the results of the October 1, 2022 actuarial valuation for the Retirement Plan for the Firefighters of the Pace Fire District. 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, 2022 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2022/23 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 normal cost rate.

Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2022/23 plan year. The minimum required contribution rate is 14.22% of payroll, which is 2.00% of payroll greater than the contribution that was developed in the previous valuation.

The normal cost rate is 13.76% for the 2022/23 plan year, which is 1.93% of payroll greater than the normal cost that was developed in the previous valuation. Table I-C provides a breakdown of the sources of change in the normal cost rate. Significantly, the rate increased by 1.62% of payroll due to investment losses and increased by another 0.31% of payroll due to demographic experience. The market value of assets lost 12.67% during the 2021/22 plan year, whereas a 6.50% 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 District must contribute an amount equal to the annual normal cost of the plan plus an adjustment as necessary to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the District's 2022/23 minimum required contribution will be equal to 14.22% of pensionable earnings, reduced by the amount of any Chapter 175/185 distributions received during the year.

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 \$2,540,660. As illustrated in Table I-A, current assets are sufficient to cover \$722,655 of this amount, the employer's 2022/23 expected contribution will cover \$119,188 of this amount, and future employee contributions are expected to cover \$765,108 of this amount, leaving \$933,709 to be covered by future employer funding beyond the 2022/23 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

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, 2022, 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. Carryug

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

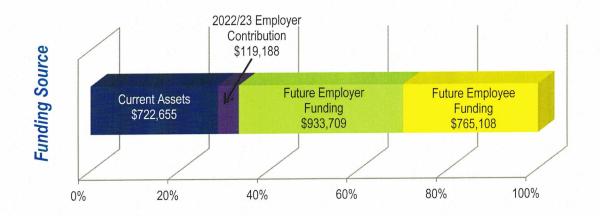
Enrolled Actuary No. 20-04927

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



For the 2022/23 Plan Year

Minimum Required Contribution Rate	14.22%
Expected Payroll for the 2022/23 Plan Year	÷ \$838,379
Preliminary Employer Contribution for the 2022/23 Plan Year	\$119,188
Adjustment to Reflect Bi-Weekly Employer Contributions	\$3,815
Normal Cost	\$115,373
Expected Payroll	x \$838,379
Normal Cost Rate	= 13.7615%
Present Value of Future Payroll÷	- \$7,651,049
Present Value of Future Normal Costs	\$1,052,897
Present Value of Future Employee Contributions	(\$765,108)
Actuarial Value of Assets	(\$722,655)
Present Value of Future Administrative Expenses	\$188,197
Present Value of Future Benefits	\$2,352,463

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

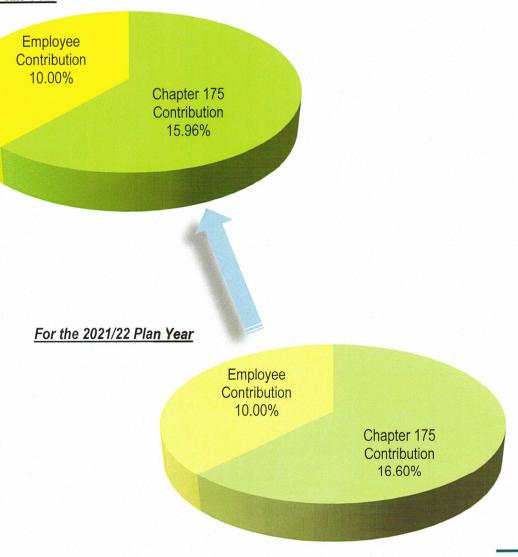


Minimum Required Contribution

Table I-A (continued)

The minimum required contribution rate of 14.22% includes both the District contribution and the allowable Chapter 175 contribution (if any). In addition, employees are required to contribute 10.00% of pensionable earnings. The actual District contribution rate is expected to be approximately 0% based on the allowable Chapter 175 contribution (if any) for the previous year. The chart below shows the expected contribution rate by source for the 2022/23 plan year based on the expected payroll. A comparative chart shows the contribution rate by source for the previous plan year.

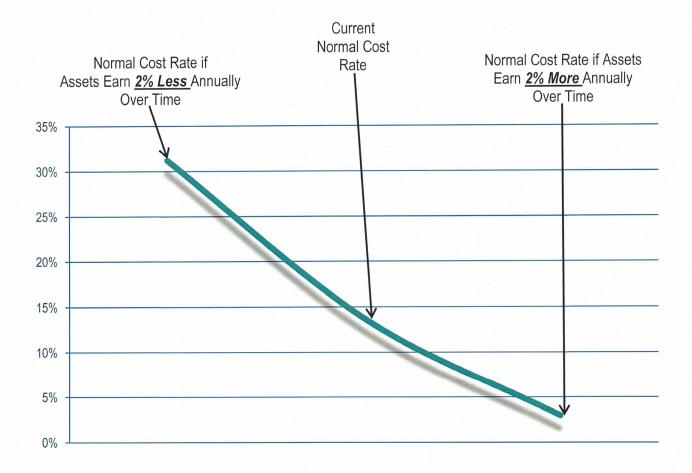
For the 2022/23 Plan Year





Sensitivity Analysis

Table I-B



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



Gain and Loss Analysis

Table I-C

Previous normal cost rate	11.83%
Increase (decrease) due to investment gains and losses Increase (decrease) due to demographic experience	1.62% 0.31%
Increase (decrease) due to plan amendments Increase (decrease) due to actuarial assumption changes Increase (decrease) due to actuarial method changes	0.00% 0.00% 0.00%
Current normal cost rate	13.76%



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	\$1,680,456	\$1,680,456	\$1,680,456
Termination benefits	\$214,979	\$214,979	\$214,979
Disability benefits	\$328,049	\$328,049	\$328,049
Death benefits	\$8,446	\$8,446	\$8,446
Refund of employee contributions	\$72,835	\$72,835	\$72,835
Sub-total	\$2,304,765	\$2,304,765	\$2,304,765
Deferred Vested Participants			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Due a Refund of Contributions	\$47,698	\$47,698	\$47,698
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$0	\$0	\$0
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Grand Total	<u>\$2,352,463</u>	<u>\$2,352,463</u>	<u>\$2,352,463</u>
Drogant Value of Enture Daviell	\$7.6E4.040	\$7,651,049	\$7,651,049
Present Value of Future Payroll Present Value of Future Employee Contribs.	\$7,651,049 \$765,108	\$7,651,049	\$7,651,049
Present Value of Future Employer Contribs. Present Value of Future Employer Contribs.	\$1,052,897	\$1,052,897	\$1,052,897



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	\$269,045	\$269,045	\$269,045
Termination benefits	\$14,500	\$14,500	\$14,500
Disability benefits	\$86,600	\$86,600	\$86,600
Death benefits	\$517	\$517	\$517
Refund of employee contributions	\$25,060	\$25,060	\$25,060
Sub-total	\$395,722	\$395,722	\$395,722
Deferred Vested Participants			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Due a Refund of Contributions	\$47,698	\$47,698	\$47,698
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$0	\$0	\$0
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Grand Total	<u>\$443,420</u>	<u>\$443,420</u>	<u>\$443,420</u>
Funded Percentage	162.97%	162.97%	162.97%

(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	\$205,309	\$205,309	\$205,309
Termination benefits	\$798	\$798	\$798
Disability benefits	\$86,600	\$86,600	\$86,600
Death benefits	\$242	\$242	\$242
Refund of employee contributions	\$39,504	\$39,504	\$39,504
Sub-total	\$332,453	\$332,453	\$332,453
Deferred Vested Participants			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Due a Refund of Contributions	\$47,698	\$47,698	\$47,698
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$0	\$0	\$0
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Grand Total	<u>\$380,151</u>	<u>\$380,151</u>	<u>\$380,151</u>



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	\$445,434	\$445,434	\$445,434
Termination benefits	\$44,081	\$44,081	\$44,081
Disability benefits	\$82,581	\$82,581	\$82,581
Death benefits	\$1,494	\$1,494	\$1,494
Refund of employee contributions	\$27,302	\$27,302	\$27,302
Sub-total	\$600,892	\$600,892	\$600,892
Deferred Vested Participants			
Retirement benefits	\$0	\$0	\$0
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$0	\$0	\$0
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
Due a Refund of Contributions	\$47,698	\$47,698	\$47,698
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
Retired Participants			
Service retirements	\$0	\$0	\$0
Disability retirements	\$0	\$0	\$0
Beneficiaries receiving	\$0	\$0	\$0
DROP participants	\$0	\$0	\$0
Sub-total	\$0	\$0	\$0
<u>Grand Total</u>	<u>\$648,590</u>	<u>\$648,590</u>	<u>\$648,590</u>



Actuarial Value of Assets

Table II-A

\$722,655

Market Value of Assets as of October 1, 2022	\$722,655
Minus advance employer contributions	\$0
Minus excess Chapter 175/185 contributions	\$0

Actuarial Value of Assets as of October 1, 2022

Historical Actu	uarial Value of Assets	
October 1, 2013	N/A	
October 1, 2014	N/A	
October 1, 2015	N/A	
October 1, 2016	N/A	
October 1, 2017	N/A	
October 1, 2018	N/A	
October 1, 2019	\$0	
October 1, 2020	\$61,223	
October 1, 2021	\$486,330	
October 1, 2022	\$722,655	

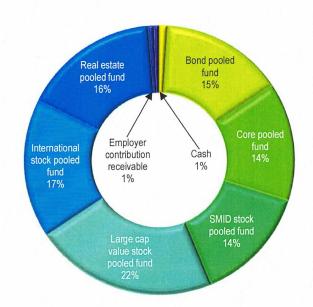


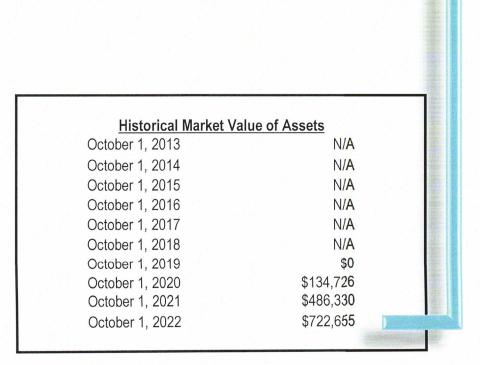
Market Value of Assets

Table II-B

As of October 1, 2022

Market Value of Assets	<u>\$722,655</u>
Cash	\$7,129
Bond pooled fund	\$106,227
Core pooled fund	\$103,375
SMID stock pooled fund	\$99,811
Large cap value stock pooled fund	\$158,271
International stock pooled fund	\$120,486
Real estate pooled fund	\$117,634
Employer contribution receivable	\$5,424
Employee contribution receivable	\$4,298

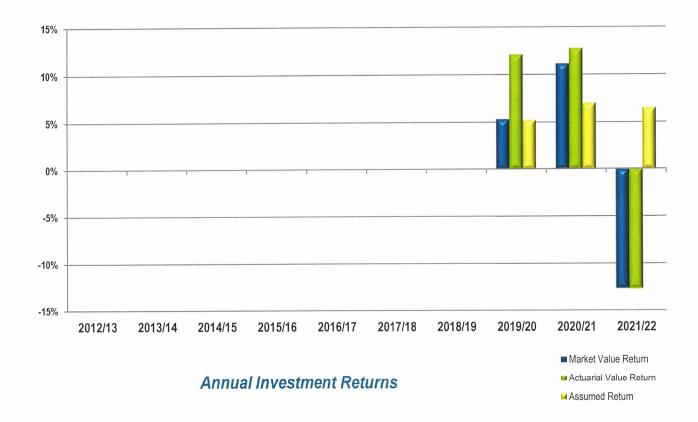






Investment Return

Table II-C



	Market	Actuarial		
Plan	Value	Value	Assumed	
Year	Return	Return	Return	
2012/13	N/A	N/A	N/A	
2013/14	N/A	N/A	N/A	
2014/15	N/A	N/A	N/A	
2015/16	N/A	N/A	N/A	
2016/17	N/A	N/A	N/A	
2017/18	N/A	N/A	N/A	
2018/19	N/A	N/A	N/A	
2019/20	5.32%	12.10%	5.21%	
2020/21	11.15%	12.74%	7.00%	
2021/22	-12.67%	-12.67%	6.50%	
3yr. Avg.	0.74%	3.34%	6.23%	



Asset Reconciliation		Table II-D
	Market Value	Actuarial Value
As of October 1, 2021	\$486,330	\$486,330
Increases Due To:		
Employer Contributions	\$132,305	\$132,305
Chapter 175/185 Contributions	\$139,192	\$139,192
Employee Contributions	\$104,837	\$104,837
Service Purchase Contributions Total Contributions	<u>\$0</u> \$376,334	\$0 \$376,334
Interest and Dividends	\$0	
Realized Gains (Losses)	\$0	
Unrealized Gains (Losses)	(\$81,744)	
Total Investment Income	(\$81,744)	(\$81,744)
Other Income	\$0	
Total Income	\$294,590	\$294,590
Decreases Due To:		
Marethly Day of Days and	Φ0	¢0
Monthly Benefit Payments Refund of Employee Contributions	\$0 (\$45,744)	\$0 (\$45,744)
Total Benefit Payments	(\$45,744)	(\$45,744)
Investment Expenses	\$0	
Administrative Expenses	(\$12,521)	(\$12,521)
Advance Employer Contribution Excess Chapter 175/185 Contribution		\$0 \$0
Total Expenses	(\$58,265)	(\$58,265)
As of October 1, 2022	\$722,655	\$722,655



Historical Trust Fund Detail

Table II-E

Income								
				Service		Realized	Unrealized	
Plan	Employer	Chapter	Employee	Purchase	Interest /	Gains /	Gains /	Other
Year	Contribs.	Contribs.	Contribs.	Contribs.	<u>Dividends</u>	Losses	Losses	Income
2012/13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2013/14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2014/15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2015/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2016/17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2017/18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2018/19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2019/20	\$73,503	\$0	\$59,436	\$0	\$0	\$0	\$3,493	\$0
2020/21	\$121,991	\$115,266	\$96,665	\$0	\$0	\$0	\$32,784	\$0
2021/22	\$132,305	\$139,192	\$104,837	\$0	\$0	\$0	-\$81,744	\$0

Expenses					Other Actuaria	al Adjustments
	Month	у			Adv	ance Excess
Plan	Benef	it Contrib.	Admin.	Invest.	Emp	loyer Chapter
Year	Payment	s Refunds	Expenses	Expenses	Con	tribs. Contribs.
2012/13	N/	A N/A	N/A	N/A		N/A N/A
2013/14	N/	A N/A	N/A	N/A		N/A N/A
2014/15	N/	A N/A	N/A	N/A		N/A N/A
2015/16	N/	A N/A	N/A	N/A		N/A N/A
2016/17	N/	A N/A	N/A	N/A		N/A N/A
2017/18	N/	A N/A	N/A	N/A		N/A N/A
2018/19	N/	A N/A	N/A	N/A		N/A N/A
2019/20	\$	0 \$0	\$1,706	\$0	\$7	3,503 \$0
2020/21	\$	0 \$1,648	\$13,454	\$0	-\$7	3,503 \$0
2021/22	\$	0 \$45,744	\$12,521	\$0		\$0 \$0

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	\$0
Additional Employer Contribution Minimum Required Contribution Immediate Application of the Advance Employer Contribution	\$271,497 (\$128,111) (\$143,386)
Net Increase in Advance Employer Contribution Advance Employer Contribution as of October 1, 2022	\$0
Excess Chapter 175/185 Contribution	
Excess Chapter 175/185 Contribution as of October 1, 2021	\$0
Additional Chapter 175/185 Contribution	\$139,192
Allowable Chapter 175/185 Contribution _	(\$139,192)
Net Increase in Excess Chapter 175/185 Contribution	\$0
Excess Chapter 175/185 Contribution as of October 1, 2022	\$0



Historical Chapter 175/185 Contributions

Table II-G

	Total Accumulate	185 Contribution	\$0	
	Chapter 175 Regular <u>Distribution</u>	Chapter 175 Supplemental <u>Distribution</u>	Chapter 185 <u>Distribution</u>	Allowable <u>Amount</u>
2020 Distribution 2021 Distribution	\$115,266 \$139,192	\$0 \$0	\$0 \$0	(\$115,266) (\$139,192)

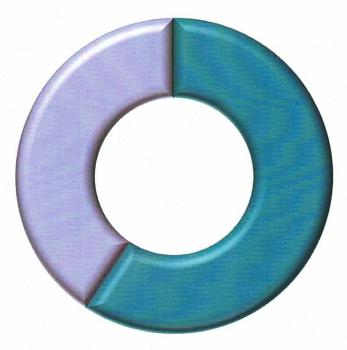


37

Summary of Participant Data

Table III-A

As of October 1, 2022



Participant Distribution by Status

Active ParticipantsDROP Participants	22
 Inactive Participants Deferred Vested Participants Due a Refund of Contributions Deferred Beneficiaries 	0 15 0
Participants Receiving a Benefit Service Retirements Disability Retirements Beneficiaries Receiving	0 0

Total Participants

Actively Employed Participants

	Active	DROP	Inactive	Retired	Total
October 1, 2013	N/A	N/A	N/A	N/A	N/A
October 1, 2014	N/A	N/A	N/A	N/A	N/A
October 1, 2015	N/A	N/A	N/A	N/A	N/A
October 1, 2016	N/A	N/A	N/A	N/A	N/A
October 1, 2017	N/A	N/A	N/A	N/A	N/A
October 1, 2018	N/A	N/A	N/A	N/A	N/A
October 1, 2019	0	0	0	0	0
October 1, 2020	23	0	4	0	27
October 1, 2021	20	0	10	0	30
October 1, 2022	22	0	15	0	37



Data Reconciliation

Table III-B

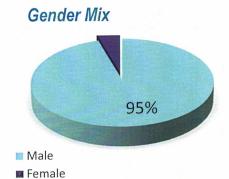
Active	DROP	Deferred <u>Vested</u>	Due a <u>Refund</u>	Def. <u>Benef.</u>	Service Retiree	Disabled <u>Retiree</u>	Benef. Rec'v.	<u>Total</u>
20	0	0	10	0	0	0	0	30
(11)			11					
			(5)					(5)
12 1			(1)					12
22	0	0	15	0	0	0	0	37
	(11)	20 0 (11)	Active DROP Vested 20 0 0 (11)	Active DROP Vested Refund 20 0 0 10 (11) 11 (5) 12 (1) (1)	Active DROP Vested Refund Benef. 20 0 0 10 0 (11) 11 (5) (5) 12 (1) (1) (1)	Active DROP Vested Refund Benef. Retiree 20 0 0 10 0 0 (11) 11 (5) (5) (1)	Active DROP Vested Refund Benef. Retiree Retiree 20 0 0 0 0 0 (11) 11 (5) (1) (1)	Active DROP Vested Refund Benef. Retiree Retiree Rec'v. 20 0 0 0 0 0 0 0 (11) 11 (5) (5) (1



Active Participant Data

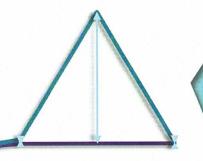
Table III-C

As of October 1, 2022



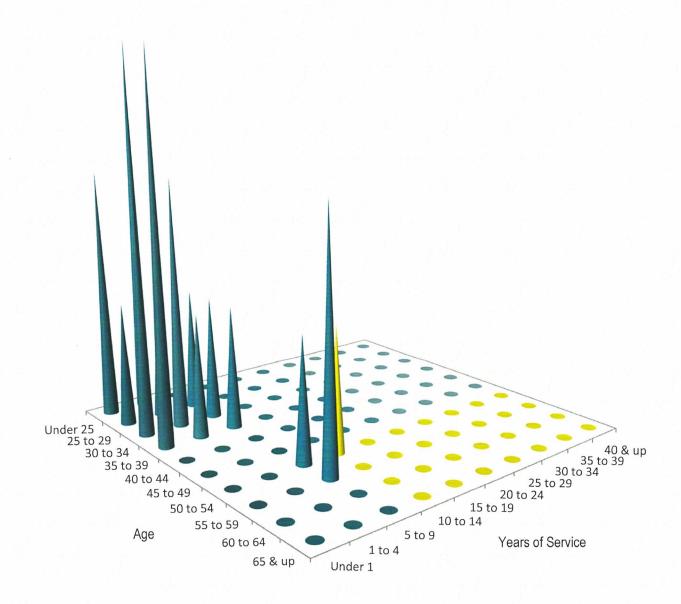
34.3 years
3.0 years
\$1,007,775
\$838,379
4.57%
4.00%

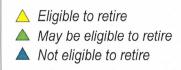
Actual vs. Expected Salary Increases



				Average	Average
				Expected	Actual
	Average	Average	Average	Salary	Salary
	Age	Service	Salary	Increase	Increase
October 1, 2013	N/A	N/A	N/A	N/A	N/A
October 1, 2014	N/A	N/A	N/A	N/A	N/A
October 1, 2015	N/A	N/A	N/A	N/A	N/A
October 1, 2016	N/A	N/A	N/A	N/A	N/A
October 1, 2017	N/A	N/A	N/A	N/A	N/A
October 1, 2018	N/A	N/A	N/A	N/A	N/A
October 1, 2019	N/A	N/A	N/A	N/A	N/A
October 1, 2020	33.2	2.7	\$28,396	4.00%	6.11%
October 1, 2021	33.2	3.4	\$45,585	4.00%	67.26%
October 1, 2022	34.3	3.0	\$45,808	4.00%	4.57%









Active Age-Service-Salary Table

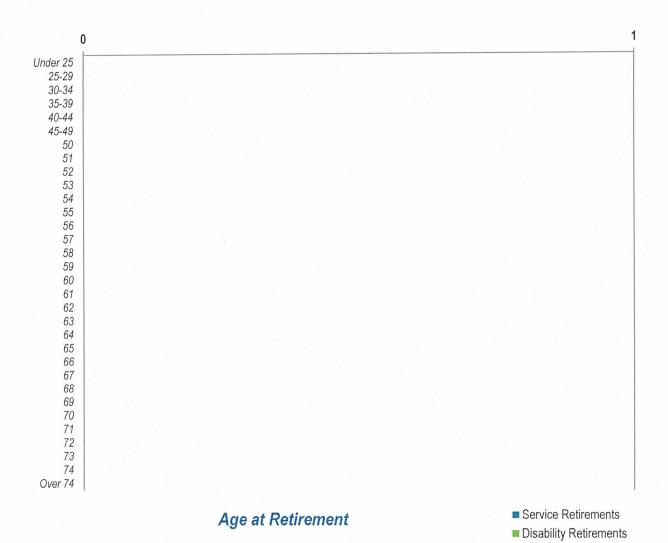
Table III-E

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
									1		
Under 25	2	3	0	0	0	0	0	0	0	0	5
Avg.Pay	39,280	40,673	0	0	0	0	0	0	0	0	40,116
					•			0	0	0	3
25 to 29	1	1	1 10 504	0	0	0	0	0	0	0	41,661
Avg.Pay	39,560	41,890	43,534	0	0	0	0	0	0	· ·	41,001
30 to 34	2	2	1	0	0	0	0	0	0	0	5
Avg.Pay	40,504	44,251	45,960	0	0	0	0	0	0	0	43,094
, ,											
35 to 39	3	1	1	0	0	0	0	0	0	0	5
Avg.Pay	44,157	47,862	25,732	0	0	0	0	0	0	0	41,213
										,	0
40 to 44	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	U	0
45 to 49	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
											2.35
50 to 54	0	0	1	1	0	0	0	0	0	0	2
Avg.Pay	0	0	66,039	58,322	0	0	0	0	0	0	62,181
	1 2 2										
55 to 59	0	0	2	0	0	0	0	0	0	0	2
Avg.Pay	0	0	68,159	0	0	0	0	0	0	0	68,159
60 to 64	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
7.1.9.1.2.7		4.16		14 -			10		10 11 11		
65 & up	0	0	0	0	0	0	0	0	0	0	0
Avg.Pay	0	0	0	0	0	0	0	0	0	0	0
T. ()		-							0	0	22
Total	8 41,450	7 42,896	6 52,931	58,322	0	0	0	0	0	0	22 45,808
Avg.Pay	41,450	42,090	52,931	30,322	0				0		70,000



Inactive Participant Data

Table III-F



Average Monthly Benefit

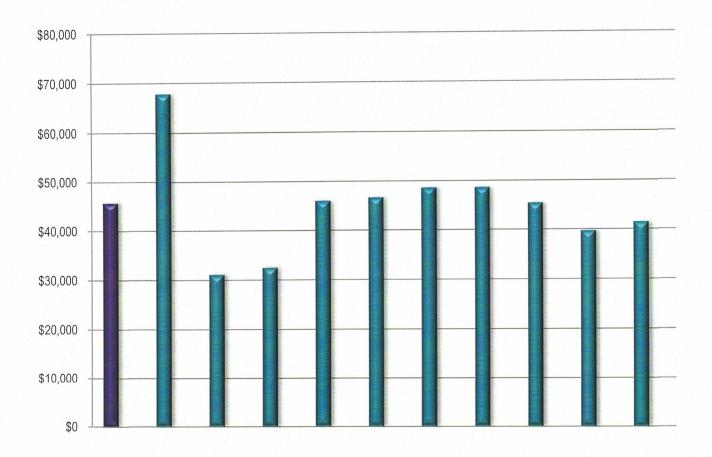
Service Retirements	Not applicable
Disability Retirements	Not applicable
Beneficiaries Receiving	Not applicable
DROP Participants	Not applicable
Deferred Vested Participants	Not applicable
Deferred Beneficiaries	Not applicable



■ DROP Participants

Projected Benefit Payments

Table III-G



Actual		
For the period October 1, 2021 through September 30, 2022	\$45,744	
Projected		
For the period October 1, 2022 through September 30, 2023	\$67,861	
For the period October 1, 2023 through September 30, 2024	\$31,087	
For the period October 1, 2024 through September 30, 2025	\$32,485	
For the period October 1, 2025 through September 30, 2026	\$45,985	
For the period October 1, 2026 through September 30, 2027	\$46,643	
For the period October 1, 2027 through September 30, 2028	\$48,591	
For the period October 1, 2028 through September 30, 2029	\$48,617	
For the period October 1, 2029 through September 30, 2030	\$45,376	
For the period October 1, 2030 through September 30, 2031	\$39,702	
For the period October 1, 2031 through September 30, 2032	\$41,414	



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

6.50% per annum

4. Salary Increases

Plan compensation is assumed to increase at the rate of 4.00% per annum, unless actual plan compensation is known for a prior plan year.

5. Decrements

Pre-retirement mortality:

Sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Employee Mortality Table for public safety employees (Below Median table for males), with full generational improvements in mortality using Scale MP-2018 and with ages set forward one year

Post-retirement mortality:

For non-disabled retirees, sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Healthy Retiree Mortality Table for public safety employees (Below Median table for males), with full generational improvements in mortality using Scale MP-2018 and with ages set forward one year; for disabled retirees, sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Disabled Retiree Mortality Table (80% general employee rates plus 20% public safety employee rates), with full generational improvements in mortality using Scale MP-2018



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

5. Decrements (continued)

• Disability: Sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 4); all

disabilities are assumed to be service-related.

• Termination: Sex-distinct withdrawal rates set forth in the Scale 255 table.

• Retirement: Retirement is assumed to occur at normal retirement age.

6. Form of Payment

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

7. Marriage Assumption

100% of non-retired participants are assumed to be married, with husbands assumed to be three years younger than wives.

8. Expenses

The total projected benefit liability has been loaded by 8.00% 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 assumed interest (or discount) rate was decreased from 7.00% per annum to 6.50% per annum.



Table V-A

1. Monthly Accrued Benefit

3.25% of Average Final Compensation multiplied by Credited Service

2. Normal Retirement Age and Benefit

Age

Age 55 with at least eight years of Credited Service; or Age 52 with at least 25 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.)

3. Early Retirement Age and Benefit

Age

Age 50 with at least eight years of Credited Service

Amount

Monthly Accrued Benefit (payable at Normal Retirement Age); or

Monthly Accrued Benefit reduced by 3% 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



Table V-A

(continued)

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 District.

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 as a firefighter.

Amount Payable

A monthly 10-year certain and life annuity equal to the larger of (a) or (b), as follows, but offset as necessary to preclude the total of the participant's worker's compensation, disability benefit, and other District-provided disability compensation from exceeding his Average Monthly Earnings:

- (a) Monthly Accrued Benefit; or
- (b) 42% of Average Final Compensation

5. Non-Service Incurred Disability Eligibility and Benefit

Eligibility

The participant must have earned at least eight years of Credited Service if his disability was incurred other than during the course of his employment with the District.

Condition

Same as for a Service Incurred Disability Benefit

Amount Payable

A monthly 10-year certain and life annuity equal to the larger of (a) or (b), as follows, but offset as necessary to preclude the total of the participant's worker's compensation, disability benefit, and other District-provided disability compensation from exceeding his Average Monthly Earnings:

- (a) Monthly Accrued Benefit; or
- (b) 25% of Average Final Compensation

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 eight years of Credited Service

Amount

Monthly Accrued Benefit (payable at Normal Retirement Age); or Monthly Accrued Benefit reduced by 3% 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 three years of Compensation out of the last 10 years of employment (or career average, if higher).

10. Compensation

Fixed monthly compensation; annual compensation in excess of \$200,000 (as indexed) is excluded in accordance with Internal Revenue Code (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. Service earned prior to December 31, 2019 is not considered for purposes of determining the amount of the participant's monthly accrued benefit.



Table V-A

(continued)

12. Participation Requirement

All full-time firefighters of the Pace Fire District automatically become a participant in the plan on their date of hire.

13. Accumulated Contributions

The Employee Contributions accumulated with no interest; if the participant terminates his employment with less than eight years of Credited Service, he receives his Accumulated Contributions in lieu of any other benefits payable from the plan.

12. Participant Contribution

10.00% of earnings

13. Definition of Actuarially Equivalent

Based on 6.50% 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).

14. Plan Effective Date

December 31, 2019



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) Effective during the 2020/21 plan year, the benefit formula multiplier was increased from 2.75% to 3.25%.

