

CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSTEM

BOARD AGENDA

Retirement Board Regular Meeting - Thursday, March 16, 2023 - 2:00 p.m.

City Hall - City Commission Chambers, 100 North U.S. #1, Fort Pierce, Florida

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **COMMENTS FROM THE PUBLIC** (limited to 4 minute duration)
4. **CONSIDERATION OF MINUTES**
5. **REPORT FROM BOARD ATTORNEY**
6. **PUBLIC HEARINGS ON BENEFIT APPLICATIONS**
 - a. Request for Non-Duty Disability Retirement from Thomas Parker with 12 years of service with the Fort Pierce Utilities Authority
 - b. Request for Non-Duty Disability Retirement from Doyle Jones with 15 years, 8 months of service with the City of Fort Pierce.
7. **OLD BUSINESS**
8. **NEW BUSINESS**
 - a. Actuarial Report of Fiscal Year Ending September 30, 2022 – Brad Armstrong of Gabriel Roeder Smith & Company
9. **CONSENT AGENDA**
10. **CONSIDERATION OF ABSENCES**

11. **BOARD MEMBERS COMMENTS**

12. **The next meeting is April 20, 2023 at 2:00 P.M. and will be held in the Commission Chambers, City Hall.**

13. **MISCELLANEOUS**

14. **ADJOURNMENT**

In accordance with the Americans With Disabilities Act of 1990, persons needing a special accommodation to participate in this proceeding should contact the Recording Secretary of the Retirement and Benefit System at the Finance Department of the City of Fort Pierce no later than three business days prior to the proceeding. Telephone (772) 467-3000 for assistance.

Any person seeking to appeal any decision by the Retirement Board with respect to any matter considered at this meeting is advised that a record of proceedings is required in any such appeal and that such person may need to insure that a verbatim record of the proceedings is made including the testimony and evidence upon which the appeal is to be based.

Retirement Board

Meeting Date: 03/16/2023

Re:

Information

SUBJECT:

CONSIDERATION OF MINUTES

Attachments

Minutes 02/16/2023

Form Review

Form Started By: Junelly Jimenez-Sabastiano
Final Approval Date: 03/08/2023

Started On: 03/08/2023 11:50 AM

**CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSTEM
MINUTES OF MEETING HELD
February 16, 2023**

Summarized Minutes of the regular meeting of the City of Fort Pierce Retirement and Benefit System February 16, 2023, 2:00 p.m., in the Commission Chambers at City Hall

Present:

Barbara Mika	U.A. Board Appointed Member, Chair
Comm. Arnold Gaines	City Commission Member
Comm. Michael Broderick	City Commission Member
Wendy Rydzewski	City of Fort Pierce General Member, Vice-Chair
Keith Stephens	U.A. General Member
Johnna Morris	Secretary/Treasurer
Kyle McCarthy	Police Officer Member

Guest by Conference Call:

Attorney Jim Walker	Attorney for the Retirement Board, Advisory
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Recording:

Junelly Sebastiano	Executive Assistant to Director of Finance
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ITEM NO. 1 & 2~ ROLL CALL

Mrs. Barbara Mika called the meeting to order at 2:00 pm on Thursday February 16, 2023, the first item on the agenda being the “Roll Call”.

ITEM NO. 3 ~ COMMENTS FROM THE PUBLIC

Mrs. Mika said next, we will move on to comments from the public, you will have four minutes to speak.

Mr. Rodney Nieves said good afternoon board members. My name is Rodney Nieves, I am a retired police officer here in the City of Fort Pierce and a past colleague of yours in the retirement board. You had a function on February 4th where many of the retired police officers and city employees got together. I was selected to answer a question that I couldn’t answer, regarding COLAS. I tried to explain to them how it works, and I also encouraged them to attend the board meetings. I also heard through the rumor mill that perhaps there will be some type of increase to the retirees, regarding a 13th check annually. I do not know if there is any truth to that due to the increase of taxes, inflation, and gas prices that we are all living in right now, we are all suffering. What struck a chord with me was that I ran into retirees that had retired before I even finished high school. They are still collecting what they were collecting when they retired. Of course, they are receiving Social Security and perhaps something here and there. To watch them living the way they are living, broke my heart so I found myself asking, where am I going to be 30 years from now.

**CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSTEM
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Mrs. Mika said thank you, are there any more comments from the public?

ITEM NO. 4 ~ CONSIDERATION OF MINUTES

Mrs. Mika said consideration of minutes, any discussion?

A motion was made by Mrs. Johnna Morris and seconded by Mrs. Wendy Rydzewski. All those in favor of the motion signified by saying aye. There was no opposition and the motion carried unanimously.

ITEM NO. 5 ~ ATTORNEY'S REPORT

Mrs. Mika said Next, we move on to a report from the board attorney. Mr. Walker?

Mr. Jim Walker said thank you madam chair, there have been no legal developments of significance to report to the board in the last month. I do wish to comment on a matter: it is normal practice that I meet with each of the new members of the board for an orientation session. We go over matters relevant to their stewardship of retirement related concerns, we discuss a code of ethics for public officers, retirement code and rules and procedures. It is a very helpful session. I do intend to be in the neighborhood physically in April and if they wish we can set something up there or we can explore alternatives for a time sooner than that.

Comm. Michael Broderick said the city commission is currently operating at a workload of 40-45 hours per week. We have had to prioritize the necessity of meetings; my meeting schedule is booked into March. The workload that the city commission is dealing with is significantly more than they have ever seen.

Mr. Walker said in view of what I'm hearing maybe we should be looking at a date in April, will that be convenient?

Comm. Arnold Gaines said I'll make my self available, lets shoot for an April date, that way we could both be at the meeting.

Kyle McCarthy said I will join that meeting as well.

ITEM NO.6 ~ PUBLIC HEARING ON BENEFITS APPLICATIONS

Mrs. Mika said we'll move on to public hearings on benefit applications. We will open the public hearing for the request for retirement from Nicholas Mimms with 25 years of service with the City of Fort Pierce entering DROP. Seeing no public, we will close the public hearing and open it for discussion.

CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSTEM
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A motion was made by Mrs. Morris and seconded by Comm. Gaines. All those in favor of the motion signified by saying aye. There was no opposition and the motion carried unanimously.

ITEM NO. 7 ~ OLD BUSINESS

None

ITEM NO. 8 ~ NEW BUSINESS

None

ITEM NO. 9 ~ CONSENT AGENDA

Mrs. Mika said next, we will move on to the consent agenda.

A motion was made by Mrs. Morris and seconded by Comm. Gaines. All those in favor of the motion signified by saying aye. There was no opposition, and the motion was carried unanimously.

ITEM NO. 10 ~ CONSIDERATION OF ABSENCES

None

ITEM NO. 11 ~ BOARD MEMBER COMMENTS

Mrs. Mika said are there any board members comments?

Mr. Keith Stephens said I know there is a lot of times during the year that we don't have meetings. The reason I bring this up is because we only had one item on this meeting. It takes a lot of effort for us to leave our jobs especially with you being tied up other places. I can tell you that I had phone calls because of this, I know that there were people at the utility that were waiting, and we didn't have a meeting for whatever reason. Is this something we should investigate, that we have a minimum amount to do it. Usually, it is more than just one, I just don't want us to look bad in the people we represent or the fund we represent. I'm not sure if we need to set a policy but it is something to think about. The next thing I'd like to bring up is the comments we had from the public. Rodney, I know where you're at with this. I have

**CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSTEM
MINUTES OF MEETING HELD**

February 16, 2023

friends that haven't been retired that long and it is still rough on them. I can't even imagine what it would be like for someone that has been retired 25-30 years. We talked about it 4-6 months ago in one of our meetings, as a steward of the fund we have to maintain the fund. A thirteenth check was one thing that did come up, but we took a big hit like everybody else when everything just went down. We are looking at it, we have discussed it, and we do have concerns for our retirees. It is a double-edged sword: we have retirees, and we have the fund and if we do not maintain the fund then everybody suffers.

Comm. Broderick said why is there a necessity for this body to vote to approve retirees. wouldn't that be something automatic, there must be an underlining reason as to why it comes in front of this body. Secondly, I'm assuming there is no cost-of-living adjustments that are automatically deployed. As the gentleman was stating, the retiree from 35 years ago, lets assume inflation has been 100% since then, is burdened with earning 50 cents on the dollar. Is that an accurate statement, that there is no COLA?

Mr. Walker said when the board approves the application, it is the judgment of the board that the application conforms with the requirements and that the applicant is therefore entitled to the benefits. The final decision of entitlement is not left to an administrative or an un-elected individual in the bureaucracy. That decision is made at the highest possible level in our retirement system by individuals who are typically certified pension trustees and have a fiduciary obligation to ensure that the funds are, expended in the matter described by our code of ordinance.

Mrs. Morris said to answer the question as it relates to the COLA, our system does allow for a COLA, however three conditions must be met. We always meet two conditions, which means we meet our rate of return and have a positive cash for that year. The third deals with our unfunded liability, we must not have an unfunded liability. Currently we are at about 35 million of unfunded liability and as this year ends, it will probably be much greater than that and that is the one thing that has stopped us from issuing the COLA.

Comm. Broderick said non funded liabilities would be the amount of retiree dollars that are owed compared to what is currently present in the fund, that is the simple equation?

Mrs. Morris said correct, that is the simple equation as to all the members that are currently in the fund. If we had enough money to fund everyone that is currently in the system and they would walk out the door today, that is how much we are short.

Comm. Broderick said like most retirement funds that are underfunded and it is subject to the fluctuations of the stock market and other underlying investments. That is based on some type of actuarial table?

Mrs. Morris said correct.

CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSTEM

MINUTES OF MEETING HELD

February 16, 2023

Mr. Walker said the city has in hand a copy of the last Actuarial Report. You might want to look at that and that will give you some helpful information.

Comm. Broderick said I would like to get that just to answer those questions. For me it's the first time down this path, that information will be helpful so I can understand that issue fully.

Mrs. Morris said I'll have Anna or Junelly send you a copy of our most recent Actuarial report and our actuary will be here next month to present the new Actuarial Report.

Mr. Stephens said although we have the unfunded liability where it is, what is our percentage? Are we still at 90 or a little better?

Mrs. Morris said our most recent is 90%.

Comm. Broderick said 90% is a remarkable number and something that this body should be proud of.

Mr. Stephens said one of the things you'll see, we do well right up until they do a rule change, or we take a big hit like this. I believe that I've seen us as high as 92-94 percent. In the COLA, we must be 100% funded which means no unfunded liabilities.

Comm. Broderick said if it were to be funded does it hit a strike point of 100% funding? Does it have to have term, where we would have to be 100% for 12 months and then COLA would come into play?

Mr. Stephens said the one thing about this board is that we make recommendations, and it really comes down to the city commission voting on those things. You are the power of the retirement board based on the recommendations of the retirement board.

Mrs. Morris said if we were at the point, the actuary would tell us we met those conditions and then we would make a recommendation to the commission.

Comm. Broderick said I look forward to the opportunity to discussing COLA at the commission level when those thresholds are met. My heart goes out to the retirees 30 years in the system and 30 years out that are living at a bare subsistence level.

Mrs. Mika said thank you. Any more comments from the board?

Mrs. Morris said I would like to say that all our participants in the school passed their test.

CITY OF FORT PIERCE RETIREMENT AND BENEFIT SYSYTEM

MINUTES OF MEETING HELD

February 16, 2023

Mrs. Mika said congratulations to everyone.

ITEM NO. 13 ~ ADJOURMENT

Seeing that there were no further questions or comments. Mrs. Mika adjourned the meeting at 2.30 pm.

ATTEST:

Secretary/Treasurer

Chairperson

Note: These minutes are not verbatim, only important issues and motions are reproduced in writing for the benefit of the Fort Pierce Retirement and Benefit System members. The recording itself is the official record for the meeting. The meeting tape/cd is available.

Retirement Board

Meeting Date: 03/16/2023

Re:

Information

SUBJECT:

Request for Non-Duty Disability Retirement from Thomas Parker with 12 years of service with the Fort Pierce Utilities Authority

Attachments

Form Review

Form Started By: Junelly Jimenez-Sabastiano

Started On: 03/08/2023 02:42 PM

Final Approval Date: 03/08/2023

Retirement Board

Meeting Date: 03/16/2023

Re:

Information

SUBJECT:

Request for Non-Duty Disability Retirement from Doyle Jones with 15 years, 8 months of service with the City of Fort Pierce.

Attachments

Form Review

Form Started By: Junelly Jimenez-Sabastiano
Final Approval Date: 03/08/2023

Started On: 03/08/2023 03:18 PM

Retirement Board

Meeting Date: 03/16/2023

Re:

Submitted For: Johnna Morris, Finance Director, Finance Department

Information

SUBJECT:

Actuarial Report of Fiscal Year Ending September 30, 2022 – Brad Armstrong of Gabriel Roeder Smith & Company

Attachments

9/30/22 Actuarial Report

Form Review

Form Started By: Junelly Jimenez-Sabastiano

Started On: 03/08/2023 11:48 AM

Final Approval Date: 03/08/2023

City of Fort Pierce

Retirement and Benefit System

Sixty-Fourth Annual Actuarial Valuation Report
for the Year Ending September 30, 2022



Outline of Contents

Report of September 30, 2022 Actuarial Valuation

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March 7, 2023

City Commission
and Retirement Board
City of Fort Pierce Retirement and Benefit System
Fort Pierce, Florida

Dear City Commission and Retirement Board:

The results of the September 30, 2022 Annual Actuarial Valuation of the City of Fort Pierce Retirement and Benefit System are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the 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 Fund's funding progress and to determine the employer contribution rate for the 2023-2024 fiscal years. Information required by Statement Nos. 67 and 68 of the Governmental Accounting Standards Board (GASB) are provided in separate reports. 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 amount in this report is determined using the actuarial assumptions and methods disclosed in Section D of this report. This report includes risk metrics on page A-9 but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data and other information through September 30, 2022. The valuation was based upon information furnished by the City, concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the City.

This report was prepared using assumptions adopted by the Board. All actuarial assumptions used in this report are reasonable for the purposes of this valuation. Additional information about the actuarial assumptions is included in Section D of this report.

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.

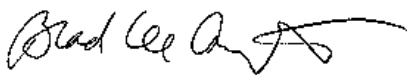
This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge, the information contained in this report is accurate and fairly presents the actuarial position of the City of Fort Pierce Retirement and Benefit System as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices and with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Brad Lee Armstrong and Jeffrey T. Tebeau are Members of the American Academy of Actuaries (MAAA). These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein. Our statement by the Enrolled Actuary is contained in Section A.

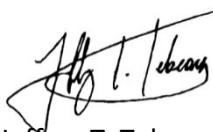
The signing actuaries are independent of the plan sponsor.

Gabriel, Roeder, Smith & Company will be pleased to review this valuation and report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,
Gabriel, Roeder, Smith & Company



Brad Lee Armstrong, ASA, EA, FCA, MAAA



Jeffrey T. Tebeau, FSA, EA, FCA, MAAA

BLA/JTT:dj

C0284



SECTION A

SUMMARY OF VALUATION RESULTS AND CERTIFICATION

Summary of Valuation Results

September 30, 2022

Funding Objective

The basic funding objective of the Retirement and Benefit System is to avoid transfer of the cost of benefit obligations between generations of taxpayers. This objective is implemented by contributions sufficient to:

- Pay for costs allocated to the current year on account of service rendered by participants in the current year (Normal Cost).
- Pay for costs allocated to prior years on account of service rendered by participants in prior years (Unfunded Actuarial Accrued Liability) over a maximum 30-year period.

The annual actuarial valuation measures the relationship between Retirement and Benefit System obligations and assets and determines the contribution rates for the ensuing year. When appropriate, amortization bases were combined in order to moderate scheduled contribution rate volatility.

Funding Progress Indicators

The September 30, 2022 actuarial valuation indicates that the actuarial accrued liabilities of the Retirement and Benefit System are 86% funded by valuation assets. This is lower than last year's funded ratio of 90%. Although not historically referred to, the ratio of the market value of assets to the Actuarial Accrued Liabilities is 75% which is a decrease from last year's market value funded ratio of 96%.

Trends to Monitor

The funding value of assets currently exceeds the market value of assets by approximately \$28.6 million. Absent investment returns above the 7.25% assumed or gains from other sources, this will create an upward pressure on contribution requirements and a coinciding downward pressure on the funded ratio progress in the next three valuation reports. Please also refer to pages A-7, A-8 and B-4.

Summary of Valuation Results

September 30, 2022

Assumption Changes

In the prior valuation report, the assumed rate of return was lowered from 7.50% to 7.25%. Although a further decrease was not warranted for the 2022 valuation, we will continue to monitor economic (capital market) assumptions in case future adjustments are needed.

Benefit Changes

No benefit changes were adopted/reflected in the September 30, 2022 valuation.

Summary of Valuation Results

September 30, 2022

Observed Experience

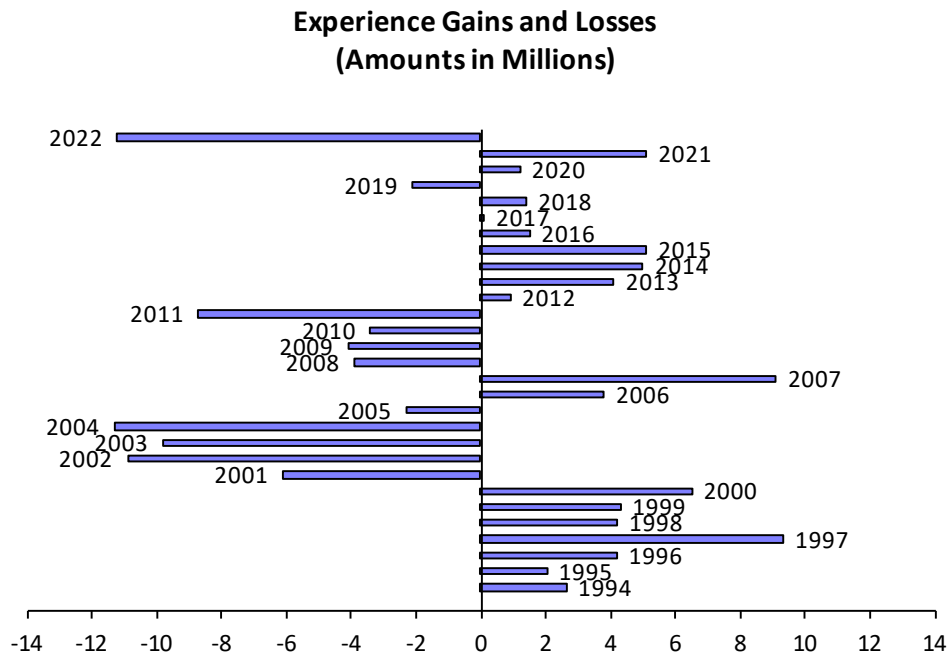
While the investment return on market value was -16.07%, the recognized rate of investment return was 3.05% due to averaging investment experience over the last four years. The recognized investment return was less than the 7.25% assumed return for fiscal year 2022. This was unfavorable and contributed to the majority of the aggregate experience loss. Note that each year's investment experience gain (loss) is spread over four years in equal dollar installments to reduce the effect of market volatility on contribution rates.

Demographic experience varied among the divisions. The principal deviations from projected demographic experience were:

- 9.7% average pay increases across all the divisions vs. 5.2% expected (unfavorable)
- More than expected retiree mortality experience (favorable);
- Fewer than expected terminations for Police (unfavorable); and
- 10-year average payroll growths were less than the 4.0% assumed (unfavorable for unfunded liability contribution rates)

The net effect of the preceding experience factors was an aggregate experience loss of \$11,171,174.

Year-to-year experience variations are expected and normal in the operation of a retirement system as members vary their activities and economic conditions change. The expectation is that the favorable years and unfavorable years will tend to cancel over 5 to 10-year periods.



Derivation of the current year's gain is located on Page B-3.

Summary of Valuation Results

September 30, 2022

Valuation Results - Contribution Requirement

The percent-of-payroll contribution requirements for the 2023-2024 fiscal year are:

	General	Utilities Authority	Police
Members			
-Bargaining	5.16 %	6.16 %	5.16 %
-Non-Bargaining	5.16	6.16	5.16
Employer for			
-Bargaining	17.56 %	20.89 %	16.93 %
-Non-Bargaining	17.56	20.89	16.93
-Illustrative	\$2,288,174	\$3,237,792	\$1,449,161

For comparison, the percent-of-payroll contribution requirements for the 2022-2023 fiscal year based on last year's valuation are:

	General	Utilities Authority	Police
Members			
-Bargaining	5.16 %	6.16 %	5.16 %
-Non-Bargaining	5.16	6.16	5.16
Employer for			
-Bargaining	17.13 %	17.96 %	14.62 %
-Non-Bargaining	17.13	17.96	14.62
-Illustrative	\$1,944,771	\$2,912,510	\$1,077,518

Comparative contribution information is shown on page B-2. Composition of the current contribution rates is shown on page B-1.

Summary of Valuation Results

September 30, 2022

Cost-of-Living Adjustment (COLA)

Section 13 - 43 of the City's Code of Ordinances provides for a COLA if the investment return of the fund exceeds that required to satisfy the actuarial interest assumption, which did not happen this year. In addition, the cumulative value of any COLA's granted since 1999 may not exceed the cumulative net actuarial gains since 1999. Page B-11 shows the cumulative value of COLA's and net actuarial gains/(losses) since 1999. The present balance is \$(52,162,513). Therefore, no COLA could be provided under Section 13 - 43 until the Retirement and Benefit System's future actuarial gains exceed \$52,162,513 plus interest. Given the cumulative net actuarial loss balance, this COLA provision is not likely to operate for the indefinite future.

Certification

This actuarial valuation was prepared and completed 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 Part VII, 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 report. 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 report.



Brad Lee Armstrong, ASA, EA, FCA, MAAA [20-5614]

3/6/2023

Date

Other Observations

General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Contributions and Funded Status

Given the System's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the Retirement and Benefit System earning 7.25% on the Market Value of Assets), it is expected that:

1. The employer normal cost is sufficient to cover the cost of benefits accruing each year;
2. The Unfunded Actuarial Accrued Liabilities (UAAL) will continue to be amortized according to the schedules on pages B-7 through B-9, but may not be completely paid off in the definite future; and
3. The funded status of the Retirement and Benefit System will continue to increase gradually towards a 100% funded ratio.

The computed contribution shown on page B-1 may be considered as a minimum contribution rate that complies with the Board's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.

Limitations of Funded Status Measurements

Unless otherwise indicated, a funded status measurement presented in this report is based upon the Actuarial Accrued Liability (AAL) and the Funding Value of Assets (FVA). Unless otherwise indicated, with regard to any funded status measurements presented in this report:

1. The measurement is inappropriate for assessing the sufficiency of Retirement System assets to cover the estimated cost of settling the Retirement and Benefit System's benefit obligations; for example, transferring the liability to an unrelated third party in a market value type transaction.
2. The measurement is dependent upon the Actuarial Cost Method which, in combination with the Retirement System's amortization policy, affects the timing and amounts of future contributions. The amounts of future contributions will most certainly differ from those assumed in this report due to future actual experience differing from assumed experience based upon the actuarial assumptions. A funded status measurement in this report of 100% is not synonymous with no required future contributions. Even if the funded status is over 100%, the Retirement and Benefit System would still require future normal cost contributions (i.e., contributions to cover the cost of active membership accruing an additional year of service credit).
3. The measurement would produce a different result if the Market Value of Assets (MVA) were used instead of the FVA, unless the MVA is used in the measurement.

Other Observations

Limitations of Project Scope

Actuarial standards do not require the actuary to evaluate the ability of the plan sponsor or other contributing entities to make required contributions to the plan when due. Such an evaluation was not within the scope of this project and is not within the actuary's domain of expertise. Consequently, the actuary performed no such evaluation.

Risks to Future Employer Contribution Requirements

There are ongoing risks to future employer contribution requirements to which the Retirement and Benefit System is exposed, such as:

- Actual and Assumed Investment Rate of Return
- Actual and Assumed Mortality Rates
- Amortization Policy

In particular, the assumed investment rate of return, while reasonable, may produce annual losses over 50% of the time, even if average returns over a multi-year period meet the assumed rate. We believe the investment return assumption should be monitored and reviewed on an annual basis.

Risk Measures – 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 System'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;
2. **Asset/Liability Mismatch** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
3. **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. The continuing ability of the plan sponsor to make the contributions necessary to fund the plan is outside our scope of expertise and was not performed by GRS;
4. **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
5. **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
6. **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.

Risk Measures

(\$ Amounts in Thousands)

Actuarial Valuation Date (9/30)	(1) Funding Value of Assets	(2) Actuarial Accrued Liability (AAL)	(3) Unfunded AAL (UAAL) (2) - (1)	(4) Payroll	(5) Funded Ratio (1) / (2)	(6) Retiree Liabilities (RetLiab)	(7) RetLiab / AAL (6)/(2)	(8) AAL / Payroll (2) / (4)	(9) Assets / Payroll (1) / (4)	(10) UAAL / Payroll (3) / (4)	(11) Non-Invest. Cash Flow (NICF)	(12) NICF / Assets (11)/(1)	(13) Market Rate of Return	(14) 5-year Trailing Average
2018	\$ 200,087	\$ 221,431	\$ 21,344	\$ 29,264	90.4%	\$ 137,926	62.3%	756.7%	683.7%	72.9%	\$ (7,435)	(3.7)%	10.3%	8.4%
2019	208,092	231,143	23,051	31,804	90.0%	145,327	62.9%	726.8%	654.3%	72.5%	(7,852)	(3.8)%	2.6%	6.9%
2020 *	216,567	239,844	23,277	32,563	90.3%	150,865	62.9%	736.6%	665.1%	71.5%	(8,208)	(3.8)%	9.6%	8.5%
2021 *	229,477	256,316	26,839	32,304	89.5%	163,876	63.9%	793.4%	710.4%	83.1%	(8,624)	(3.8)%	18.9%	10.3%
2022	227,174	265,344	38,170	34,291	85.6%	171,503	64.6%	773.8%	662.5%	111.3%	(9,168)	(4.0)%	(16.1)%	4.4%

* Revised actuarial assumptions.

(5). The funded ratio is the most widely known measure of a plan's financial strength, but the trend in the funded ratio is much more important than the absolute ratio. The funded ratio should trend to 100%. As it approaches 100%, it is important to re-evaluate the level of investment risk in the portfolio and potentially to re-evaluate the assumed rate of return.

(6) and (7). The ratio of retiree liabilities to total accrued liabilities gives an indication of the maturity of the system. As the ratio increases, cash flow needs increase, and the liquidity needs of the portfolio change. A ratio on the order of 50% indicates a maturing system.

(8) and (9). The ratio of liabilities and assets to payroll gives an indication of both maturity and volatility. Many systems have ratios between 500% and 700%. Ratios significantly above that range may indicate difficulty in supporting the benefit level as a level % of payroll.

(10) The ratio of unfunded liability to payroll gives an indication of the plan sponsor's ability to actually pay off the unfunded liability. A ratio above approximately 300% or 400% may indicate difficulty in discharging the unfunded liability within a reasonable time frame.

(11) and (12). A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means benefits and expenses exceed contributions, and existing funds may be 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.

(13) and (14). Investment return is probably the largest single risk that most systems face. The year-by-year return and the five-year geometric average both give an indication of the reasonableness of the system's assumed return. Of course, past performance is not a guarantee of future results. Market rate shown is based on an actuarial estimation method and will differ modestly from figures reported by the investment consultant.

SECTION B

VALUATION RESULTS

Contributions to Finance Benefits of the Retirement and Benefit System for the Plan Year Beginning October 1, 2023 to be Contributed during the Fiscal Year Beginning October 1, 2023

Contributions for	Contributions Expressed as Percents of Active Member Payroll		
	General Members	Utilities Authority	Police Members
Normal Cost			
Service pensions	12.67 %	11.42 %	12.75 %
Disability pensions	0.47	0.45	1.01
Death-in-service pensions	0.36	0.40	0.27
Deferred service pensions	2.81	2.85	2.30
Refunds of member contributions	0.63	0.74	0.39
Total Normal Cost	16.94	15.86	16.72
Unfunded Actuarial Accrued Liability ⁽¹⁾			
Retired members and beneficiaries	0.00	0.00	0.00
Active and vested terminated members	4.70	9.03	4.60
Total Unf'd. Actuarial Accrued Liability	4.70	9.03	4.60
Administrative Expenses	0.67	0.67	0.67
Total Unadjusted Computed Contribution	22.31	25.56	21.99
Adjustments to Computed Contribution			
FS 112.64 (5) Compliance	0.41	1.49	0.10
Full funding credit ⁽²⁾	0.00	0.00	0.00
Total Adjustments	0.41	1.49	0.10
Total Adjusted Contribution Requirement ⁽³⁾	22.72	27.05	22.09
Member portion	5.16	6.16	5.16
Employer portion	17.56	20.89	16.93

⁽¹⁾ Financing period schedules begin on page B-7.

⁽²⁾ This is a temporary credit toward the contribution requirement.

⁽³⁾ FS 112.64 (2) states that "the total contributions to the retirement system or plan shall be sufficient to meet the normal cost of the retirement system or plan and to amortize the unfunded liability." Therefore, the Total Adjusted Contribution for the System shall be no less than Total Normal Cost for the System including the Administrative Expense Load.

FS 112.64 requires employer contributions to be deposited not less frequently than quarterly. Member contributions, which are in addition to the Employer contributions, must be deposited immediately after each pay period.



Recommended and Actual Contributions Comparative Statement

Fiscal Date	Valuation Date	Percentage-of-Payroll Contributions			Dollar Contributions@	
		General Members	Utilities Authority	Police Members	Proj. Funding Requirement	Actual \$
81/82 (b)	9/80	7.67 %	8.02 %	10.56 %	\$ 823,764	\$ 1,039,755
86/87 (b)	9/85	7.42 %	8.06 %	8.96 %	1,432,339	1,611,703
91/92 (b)	9/90	6.94 %	6.92	8.61 %	2,044,895	2,301,274
96/97 (b)	9/95	4.79 %	5.34	4.98 %	1,877,033	2,270,176
01/02 (b)	9/00	0.00 %	0.26	0.00 %	906,649	2,158,784
02/03 (b)	9/01	2.91	1.10	0.00	2,048,079	2,271,079
03/04	9/02	4.67	3.23	1.38	2,893,397	3,610,663
04/05	9/03	6.15	4.93	3.76	3,948,626	5,634,357
05/06	9/04	8.01	6.23	6.76	6,283,117	8,975,380
06/07	9/05	11.05	11.94	14.14	3,624,157	4,114,963
07/08 (b)	9/06	11.59	11.01	14.88	3,939,766	4,082,846
08/09 (b)	9/07	9.71	10.06	12.26	3,517,935	3,580,089
09/10	9/08	10.36	10.67	12.79	3,964,443	3,377,350
10/11	9/09	11.06	11.86	12.97	3,999,560	3,181,447
11/12 (b)	9/10	12.59	14.08	13.51	3,937,037	3,566,751
12/13 (b)	9/11	16.50	18.51	15.83	4,860,538	4,266,803
13/14 (b)	9/12	16.20	17.41	15.33	4,676,221	4,356,127
14/15	9/13	14.61	16.81	13.76	4,242,676	4,093,268
15/16	9/14	15.03	16.30	13.76	4,196,009	4,211,311
16/17 (b)	9/15	14.89	16.23	14.61	4,296,532	4,565,884
17/18 (b)	9/16	17.35	17.92	11.98	4,878,739	4,909,654
18/19	9/17	16.99	18.11	12.00	5,029,181	5,240,707
19/20 (b)	9/18	16.77	17.58	11.86	5,074,604	5,343,484
20/21	9/19	16.82	16.46	13.31	5,456,288	5,328,802
21/22 (c)	9/20	17.14	16.92	13.39	5,716,263	5,758,891
22/23 (b)	9/21	17.13	17.96	14.62	5,934,799	
23/24	9/22	17.56	20.89	16.93	6,975,127	

* Prior to 9/30/96 the minimum employer contribution required in accordance with Sec. 21.3 of the Retirement and Benefit System Ordinance was 7.60% for General and Utilities Authority, 9.61% for Police.

@ Actual Employer contributions are determined by applying the Employer's contribution rate to the emerging payroll. Projected funding requirement is derived from the City portion of the contribution rates on page B-1. The payroll was increased by a factor of 1.0816 (1.04²) to reflect projected payroll growth to the beginning of the fiscal year during which the contribution will be made. Prior to the valuation date of 9/30/05, dollar contributions included Fire members.

(b) After changes in benefit provisions and/or actuarial assumptions and cost methods.

(c) Reflects contribution rates in accordance with an actuarial impact statement performed after the regular valuation.

Prior to the 9/98 actuarial valuation, reimbursement of investment expenses (approx. 2% of payroll) were included in the contribution requirement. The plan was amended 4/98 to allow payment of investment expenses out of investment income.



Experience Gain/(Loss) Year Ended September 30, 2022

	Divisions			Total
	General Members	Utilities Authority	Police Members	
Derivation				
(1) UAAL* at start of year	\$9,240,720	\$14,015,717	\$3,582,445	\$26,838,882
(2) Employer normal cost for year	1,527,626	1,491,745	1,016,150	4,035,521
(3) Employer contributions	2,080,927	2,601,505	1,076,459	5,758,891
(4) Interest accrued: .0725 x [(1) + ½ [(2) – (3)]]	649,895	975,911	257,541	1,883,347
(5) Expected UAAL before changes: [(1) + (2) - (3) + (4)]	9,337,314	13,881,868	3,779,677	26,998,859
(6) Effect of assumption changes	0	0	0	0
(7) Effect of cost method changes/ accounting and timing differences	0	0	0	0
(8) Effect of benefit changes	0	0	0	0
(9) Expected UAAL after changes	9,337,314	13,881,868	3,779,677	26,998,859
(10) Actual UAAL	12,508,678	18,476,586	7,184,769	38,170,033
(11) Gain/(loss): (9) - (10)	(3,171,364)	(4,594,718)	(3,405,092)	(11,171,174)

* UAAL represents Unfunded Actuarial Accrued Liability.

Development of Funding Value of Retirement System Assets

Year Ended September 30:	2019	2020	2021	2022	2023	2024	2025
A. Funding Value Beginning of Year	\$200,086,678	\$208,092,074	\$216,567,027	\$229,477,208			
B. Market Value End of Year	204,393,903	215,450,747	246,661,634	198,590,004			
C. Market Value Beginning of Year	206,965,262	204,393,903	215,450,747	246,661,634			
D. Non-Investment Net Cash Flow	(7,851,765)	(8,208,240)	(8,624,145)	(9,168,170)			
E. Investment Income							
E1. Market Total: B - C - D	5,280,406	19,265,084	39,835,032	(38,903,460)			
E2. Amount for Immediate Recognition	15,202,462	15,809,066	15,919,122	16,304,751			
E3. Amount for Phased-In Recognition: E1 - E2	(9,922,056)	3,456,018	23,915,910	(55,208,211)			
F. Phased-In Recognition of Investment Income							
F1. Current Year: 0.25 x E3	(2,480,514)	864,005	5,978,978	(13,802,053)			
F2. First Prior Year	1,252,737	(2,480,514)	864,005	5,978,978	\$(13,802,053)		
F3. Second Prior Year	1,237,898	1,252,737	(2,480,514)	864,005	5,978,978	\$(13,802,053)	
F4. Third Prior Year	<u>644,578</u>	<u>1,237,899</u>	<u>1,252,735</u>	<u>(2,480,514)</u>	<u>864,003</u>	<u>5,978,976</u>	<u>\$(13,802,052)</u>
F5. Total Recognized Investment Gain	654,699	874,127	5,615,204	(9,439,584)	(6,959,072)	(7,823,077)	(13,802,052)
G. Funding Value End of Year: A + D + E2 + F5	208,092,074	216,567,027	229,477,208	227,174,205			
H. Difference between Market & Funding Value	(3,698,171)	(1,116,280)	17,184,426	(28,584,201)			
I. Recognized Rate of Return	8.08%	8.18%	10.15%	3.05%			
J. Market Value Return	2.60%	9.62%	18.87%	(16.07%)			

The Funding Value of Assets recognizes assumed investment income (Line E2) fully each year. Differences between actual and assumed investment income (Line E3) are phased-in over a closed four-year period. During periods when investment performance exceeds the assumed rate, the Funding Value of Assets will tend to be less than Market Value. During periods when investment performance is less than the assumed rate, the Funding Value of Assets will tend to be greater than Market Value. If assumed rates are exactly realized for three consecutive years, it will become equal to Market Value.



Funding Indicators # – Historical Comparison

(\$ Amounts in Thousands)

Valuation Date	Indicator (1)	Indicator (2)			Indicator (3)		
	Gain/ (Loss)	Valuation Assets	AAL*	Funded Ratio	Unfunded AAL	Member Payroll	Ratio to Payroll
9/30/98 (b)	\$ 4,181	\$ 132,975	\$ 109,210	122 %	\$ (23,765)	\$30,296	(78) %
9/30/99 (b)	4,315	146,903	120,514	122	(26,389)	31,688	(83)
9/30/00 (b)	6,465	162,020	129,969	125	(32,051)	33,312	(96)
9/30/01 (b)	(6,086)	165,023	137,067	120	(27,955)	35,600	(79)
9/30/02 (b)	(10,908)	167,050	149,437	112	(17,610)	37,037	(48)
9/30/03	(9,845)	168,943	162,127	104	(6,816)	40,313	(17)
9/30/04	(11,328)	171,558	186,671	92	15,113	43,544	35
9/30/05	(2,296)	185,776	216,534	86	30,758	48,880	63
9/30/06 (b)	3,801	120,062	130,861	92	10,800	30,532	35
9/30/07 (b)	9,087	135,944	138,610	98	2,666	30,984	9
9/30/08	(3,888)	143,467	150,475	95	7,008	32,952	21
9/30/09	(4,060)	147,094	158,755	93	11,661	31,016	38
9/30/10 (b)	(3,429)	148,691	164,865	90	16,174	26,779	60
9/30/11 (b)	(8,690)	142,463	167,683	85	25,220	25,744	98
9/30/12 (b)	854	147,618	171,745	86	24,127	25,842	93
9/30/13	4,086	157,145	177,505	89	20,360	25,199	81
9/30/14	4,960	167,451	182,407	92	14,956	25,150	59
9/30/15 (b)	5,140	177,624	191,986	93	14,362	25,475	56
9/30/16 (b)	1,460	185,171	207,945	89	22,774	27,493	83
9/30/17	69	192,300	215,142	89	22,842	28,563	80
9/30/18 (b)	1,383	200,087	221,431	90	21,344	29,264	73
9/30/19	(2,072)	208,092	231,143	90	23,051	31,804	72
9/30/20 (b)	1,202	216,567	239,844	90	23,277	32,563	71
9/30/21 (b)	5,088	229,477	256,316	90	26,839	32,304	83
9/30/22	(11,171)	227,174	265,344	86	38,170	34,291	111

Excludes Fire after 9/05 valuation date.

* Actuarial Accrued Liabilities.

(b) After changes in benefit provisions and/or actuarial assumptions.



Unfunded Actuarial Accrued Liability

(\$ Amounts in Thousands)*

	September 30, 2022			September 30, 2021		
	General Members	Utilities Authority	Police Members	General Members	Utilities Authority	Police Members
A. Actuarial present value of future benefits	\$94,225	\$134,394	\$77,303	\$89,756	\$131,737	\$73,234
B. Actuarial present value of future normal costs	13,913	15,655	11,008	12,367	16,341	9,702
C. Actuarial accrued liability	80,312	118,738	66,295	77,388	115,396	63,532
D. Funding value of assets	67,803	100,262	59,110	68,147	101,380	59,950
E. Unfunded actuarial accrued liability	12,509	18,477	7,185	9,241	14,016	3,582
F. Funded Ratio	84.4%	84.4%	89.2%	88.1%	87.9%	94.4%

* Totals may not sum exactly due to rounding.

Sources and Financing of Unfunded Actuarial Accrued Liability General Members

Year Established	Initial Years	Years Remaining	Unf'd. Act. Accr. Liab.		Amortization Factor	Amortization Payment*	% of Payroll Contribution*
			Initial Amount	Current Amount			
Initial Unfunded							
1981	34	1	\$ 2,135,178	\$ 28,856	0.9816	\$ 29,397	0.24 %
Experience Changes							
1992	30	1	(260,310)	(16,217)	0.9816	(16,521)	(0.14)
1993	30	1	(1,200,305)	(146,205)	0.9816	(148,946)	(1.24)
1994	30	2	(298,407)	(70,426)	1.9273	(36,542)	(0.30)
1995	30	3	(571,245)	(193,937)	2.8384	(68,327)	(0.57)
1996	30	4	(328,506)	(141,850)	3.7161	(38,171)	(0.32)
1997	30	5	(1,697,188)	(870,799)	4.5618	(190,890)	(1.58)
1998	30	6	(1,095,283)	(639,678)	5.3765	(118,977)	(0.99)
1999	30	7	(888,248)	(573,065)	6.1614	(93,009)	(0.77)
2000	30	8	(1,366,921)	(953,103)	6.9176	(137,780)	(1.14)
2001	30	9	1,108,179	823,964	7.6461	107,762	0.89
2002	30	10	2,074,314	1,622,976	8.3480	194,415	1.61
2003	30	11	2,097,459	1,708,752	9.0242	189,352	1.57
2004	30	12	2,013,373	1,693,050	9.6757	174,980	1.45
2005	30	13	208,003	179,222	10.3033	17,395	0.14
2006	30	14	(1,561,550)	(1,370,134)	10.9080	(125,609)	(1.04)
2007	30	15	(3,153,776)	(2,802,698)	11.4905	(243,914)	(2.02)
2008	30	16	1,535,312	1,375,387	12.0518	114,123	0.95
2009	30	17	1,306,244	1,175,062	12.5925	93,315	0.77
2010	30	18	301,258	271,122	13.1134	20,675	0.17
2011	30	19	3,140,943	2,819,263	13.6153	207,066	1.72
2012	30	20	(171,717)	(153,270)	14.0988	(10,871)	(0.09)
2013	30	21	(1,386,129)	(1,227,187)	14.5646	(84,258)	(0.70)
2014	30	22	(1,482,476)	(1,349,896)	15.0134	(89,913)	(0.75)
2015	30	23	(2,209,363)	(2,033,845)	15.4457	(131,677)	(1.09)
2016	30	24	(358,467)	(337,310)	15.8623	(21,265)	(0.18)
2017	30	25	91,437	85,485	16.2636	5,256	0.04
2018	30	26	(494,242)	(476,502)	16.6502	(28,618)	(0.24)
2019	30	27	358,225	351,290	17.0227	20,637	0.17
2020	30	28	259,654	257,966	17.3815	14,841	0.12
2021	30	29	(1,612,209)	(1,614,367)	17.7273	(91,067)	(0.76)
2022	30	30	3,171,364	3,171,364	18.0604	175,598	1.46
Benefit Changes							
1996	30	4	(126,041)	(54,426)	3.7161	(14,646)	(0.12)
1998	30	6	(4,204)	(2,457)	5.3765	(457)	0.00
2000	30	8	416,125	290,148	6.9176	41,944	0.35
2004	30	12	603,572	507,544	9.6757	52,456	0.44
2005	30	13	2,422,727	2,087,506	10.3033	202,606	1.68
2006	30	14	1,820,155	1,597,037	10.9080	146,410	1.22
2010	30	18	421,454	379,294	13.1134	28,924	0.24
2011	30	19	(604,106)	(542,237)	13.6153	(39,826)	(0.33)
2012	30	20	(520,387)	(464,481)	14.0988	(32,945)	(0.27)
2018	30	26	54,741	52,857	16.6502	3,175	0.03
2021	30	29	818,427	819,523	17.7273	46,229	0.38
Assumption Changes							
1995	30	3	822,391	278,164	2.8384	98,001	0.81
2001	30	9	(571,357)	(424,391)	7.6461	(55,504)	(0.46)
2011	30	19	154,468	138,692	13.6153	10,187	0.08
2015	30	23	1,398,986	1,288,571	15.4457	83,426	0.69
2016	30	24	3,523,964	3,318,004	15.8623	209,176	1.74
2020	30	28	708,269	703,663	17.3815	40,483	0.34
2021	30	29	1,939,800	1,942,397	17.7273	109,571	0.91
Totals				\$12,508,678		\$617,667	5.11 %

* Actual wage growth over the past 10 years has been 3.33% versus the 4.0% assumed. FS 112 requires use of the 10-year average if less than assumed. This has been used in the above calculation as required.



Sources and Financing of Unfunded Actuarial Accrued Liability Utilities Authority Members

Year Established	Initial Years	Years Remaining	Unf'd. Act. Accr. Liab.		Amortization Factor	Amortization Payment*	% of Payroll Contribution*
			Initial Amount	Current Amount			
Initial Unfunded							
1981	34	7	\$3,349,127	\$ 200,829	5.9306	\$ 33,863	0.24 %
Experience Changes							
1989	30	7	(130,266)	(7,918)	5.9306	(1,335)	(0.01)
1990	30	7	407,412	52,608	5.9306	8,871	0.06
1991	30	7	(238,416)	(47,942)	5.9306	(8,084)	(0.06)
1992	30	7	(388,969)	(104,763)	5.9306	(17,665)	(0.12)
1993	30	7	(1,360,632)	(465,759)	5.9306	(78,535)	(0.55)
1994	30	7	(978,978)	(379,620)	5.9306	(64,010)	(0.45)
1995	30	7	(974,186)	(426,896)	5.9306	(71,982)	(0.50)
1996	30	7	(940,560)	(453,674)	5.9306	(76,497)	(0.53)
1997	30	7	(2,192,535)	(1,140,807)	5.9306	(192,359)	(1.34)
1998	30	7	(2,534,640)	(1,400,502)	5.9306	(236,148)	(1.65)
1999	30	7	(1,141,977)	(661,690)	5.9306	(111,572)	(0.78)
2000	30	7	(1,309,143)	(787,291)	5.9306	(132,751)	(0.93)
2001	30	7	1,593,737	989,376	5.9306	166,826	1.16
2002	30	7	2,859,829	1,819,371	5.9306	306,777	2.14
2003	30	7	2,692,574	1,744,770	5.9306	294,198	2.05
2004	30	7	1,574,647	1,033,827	5.9306	174,321	1.22
2005	30	7	225,846	149,526	5.9306	25,213	0.18
2006	30	7	(2,695,199)	(1,792,107)	5.9306	(302,180)	(2.11)
2007	30	15	(3,178,605)	(2,629,225)	10.6397	(247,114)	(1.72)
2008	30	16	1,783,264	1,490,863	11.1095	134,198	0.94
2009	30	17	2,272,126	1,912,083	11.5569	165,450	1.15
2010	30	18	2,668,679	2,251,734	11.9830	187,911	1.31
2011	30	19	4,692,517	3,956,889	12.3888	319,393	2.23
2012	30	20	(1,001,517)	(841,355)	12.7753	(65,858)	(0.46)
2013	30	21	(1,332,212)	(1,111,999)	13.1435	(84,605)	(0.59)
2014	30	22	(2,039,760)	(1,888,201)	13.4941	(139,928)	(0.98)
2015	30	23	(1,615,435)	(1,510,732)	13.8280	(109,252)	(0.76)
2016	30	24	178,810	172,468	14.1460	12,192	0.09
2017	30	25	(528,606)	(508,304)	14.4489	(35,179)	(0.25)
2018	30	26	(355,475)	(346,280)	14.7374	(23,497)	(0.16)
2019	30	27	173,150	171,948	15.0122	11,454	0.08
2020	30	28	(170,366)	(172,653)	15.2739	(11,304)	(0.08)
2021	30	29	(2,161,897)	(2,191,297)	15.5231	(141,163)	(0.99)
2022	30	30	4,594,718	4,594,718	15.7605	291,533	2.03
Benefit Changes							
1996	30	4	1,797,497	678,263	3.6341	186,636	1.30
1998	30	6	(6,868)	(3,575)	5.2021	(687)	(0.00)
2000	30	8	217,608	137,179	6.6244	20,708	0.14
2005	30	13	5,714,128	4,554,664	9.6286	473,033	3.30
2007	30	15	879,772	727,716	10.6397	68,396	0.48
2011	30	19	(859,973)	(725,159)	12.3888	(58,533)	(0.41)
2012	30	20	(837,844)	(703,856)	12.7753	(55,095)	(0.38)
2018	30	26	57,583	56,094	14.7374	3,806	0.03
2021	30	29	1,257,940	1,275,047	15.5231	82,138	0.57
Assumption Changes							
1995	30	3	1,262,801	369,938	2.7909	132,550	0.92
2001	30	9	(1,106,750)	(748,312)	7.2852	(102,716)	(0.72)
2011	30	19	695,546	586,508	12.3888	47,342	0.33
2015	30	23	2,088,919	1,953,529	13.8280	141,273	0.99
2016	30	24	4,976,532	4,800,016	14.1460	339,319	2.37
2020	30	28	865,657	877,277	15.2739	57,436	0.40
2021	30	29	2,929,424	2,969,262	15.5231	191,280	1.33
Totals				\$18,476,586		\$1,508,068	10.52 %

* Actual wage growth over the past 10 years has been 2.15%, versus the 4.0% assumed. FS 112 requires use of the 10-year average if less than assumed. This has been used in the above calculation as required.



Sources and Financing of Unfunded Actuarial Accrued Liability Police Members

Year Established	Initial Years	Years Remaining	Unf'd. Act. Accr. Liab.		Amortization Factor	Amortization Payment*	% of Payroll Contribution*
			Initial Amount	Current Amount			
Initial Unfunded							
1981	34	5	\$ (92,516)	\$ (152,985)	4.6146	\$ (33,152)	(0.42) %
Experience Changes							
1991	30	5	(203,783)	(54,371)	4.6146	(11,782)	(0.15)
1992	30	5	(212,982)	(63,943)	4.6146	(13,857)	(0.18)
1993	30	5	(924,672)	(323,371)	4.6146	(70,075)	(0.89)
1994	30	5	(461,122)	(176,496)	4.6146	(38,247)	(0.48)
1995	30	5	(631,047)	(273,545)	4.6146	(59,278)	(0.75)
1996	30	5	(985,977)	(483,378)	4.6146	(104,749)	(1.32)
1997	30	5	(2,131,299)	(1,181,581)	4.6146	(256,050)	(3.24)
1998	30	6	769,031	481,310	5.4509	88,299	1.12
1999	30	7	(1,200,250)	(824,182)	6.2604	(131,650)	(1.66)
2000	30	8	(597,465)	(440,846)	7.0440	(62,585)	(0.79)
2001	30	9	578,886	453,226	7.8025	58,087	0.73
2002	30	10	1,258,164	1,032,111	8.5368	120,902	1.53
2003	30	11	1,317,638	1,121,217	9.2475	121,245	1.53
2004	30	12	2,033,822	1,780,386	9.9355	179,194	2.26
2005	30	13	(40,822)	(36,506)	10.6015	(3,443)	(0.04)
2006	30	14	455,702	413,880	11.2462	36,802	0.47
2007	30	15	(2,754,392)	(2,527,572)	11.8703	(212,933)	(2.69)
2008	30	16	569,652	525,799	12.4743	42,150	0.53
2009	30	17	481,424	445,324	13.0591	34,101	0.43
2010	30	18	458,881	423,880	13.6251	31,110	0.39
2011	30	19	856,807	788,042	14.1731	55,601	0.70
2012	30	20	319,593	291,848	14.7035	19,849	0.25
2013	30	21	(1,367,523)	(1,236,923)	15.2169	(81,286)	(1.03)
2014	30	22	(1,437,583)	(1,298,452)	15.7139	(82,631)	(1.04)
2015	30	23	(1,315,599)	(1,190,153)	16.1950	(73,489)	(0.93)
2016	30	24	(1,280,599)	(1,178,619)	16.6607	(70,742)	(0.89)
2017	30	25	368,606	374,721	17.1115	21,899	0.28
2018	30	26	(533,546)	(556,569)	17.5479	(31,717)	(0.40)
2019	30	27	1,540,385	1,652,354	17.9703	91,949	1.16
2020	30	28	(1,291,696)	(1,350,086)	18.3792	(73,457)	(0.93)
2021	30	29	(1,306,987)	(1,382,077)	18.7750	(73,613)	(0.93)
2022	30	30	3,405,092	3,405,092	19.1581	177,736	2.25
Benefit Changes							
1996	30	4	(52,503)	(24,751)	3.7508	(6,599)	(0.08)
1998	30	6	866,643	542,402	5.4509	99,507	1.26
2000	30	8	154,856	114,262	7.0440	16,221	0.20
2002	30	10	(2,757)	(2,262)	8.5368	(265)	(0.00)
2005	30	13	3,376,647	3,019,691	10.6015	284,836	3.60
2006	30	14	21,867	19,861	11.2462	1,766	0.02
2010	30	18	144,060	133,072	13.6251	9,767	0.12
2011	30	19	(576,034)	(529,801)	14.1731	(37,381)	(0.47)
2012	30	20	(211,273)	(192,933)	14.7035	(13,122)	(0.17)
2018	30	26	(508)	(530)	17.5479	(30)	(0.00)
2021	30	29	283,739	298,404	18.7750	15,894	0.20
Assumption Changes							
1995	30	3	576,369	216,528	2.8583	75,754	0.96
2000	30	8	93,418	68,930	7.0440	9,786	0.12
2001	30	9	418,050	327,302	7.8025	41,948	0.53
2011	30	19	577,020	530,711	14.1731	37,445	0.47
2015	30	23	1,193,697	1,079,909	16.1950	66,682	0.84
2016	30	24	1,395,375	1,284,253	16.6607	77,083	0.97
2020	30	28	136,958	143,149	18.3792	7,789	0.10
2021	30	29	1,615,538	1,699,037	18.7750	90,495	1.14
Totals				\$7,184,769		\$371,764	4.70 %

* Actual wage growth over the past 10 years has been 3.82%, versus the 4.0% assumed. FS 112 requires use of the 10-year average if less than assumed. This has been used in the above calculation as required.



Actuarial Balance Sheet – September 30, 2022

(\$ Amounts in Thousands)*

Present Resources and Expected Future Resources

	General Members	Utilities Authority Members	Police Members	Total
A. Funding value of plan assets:				
1. Net assets from plan financial statements (Market)	\$59,272	\$ 87,646	\$ 51,672	\$198,590
2. Funding value adjustment	8,531	12,615	7,438	28,584
3. Funding value of assets	\$67,803	\$ 100,261	\$ 59,110	\$227,174
B. Actuarial present value of expected future employer contributions:				
1. For normal costs	\$ 9,604	\$ 9,397	\$ 7,471	\$ 26,472
2. For unfunded actuarial accrued liability	12,509	18,476	7,185	38,170
3. Total	\$22,113	\$ 27,873	\$ 14,656	\$ 64,642
C. Actuarial present value of expected future member contributions	4,309	6,260	3,537	14,106
D. Total Present and Future Resources	\$94,225	\$ 134,394	\$ 77,303	\$305,922

Actuarial Present Value of Expected Future Benefit Payments and Reserves

	General Members	Utilities Authority Members	Police Members	Total
A. To retired members and beneficiaries	\$47,819	\$ 77,464	\$46,220	\$171,503
B. To vested terminated members	1,723	1,778	389	3,890
C. To present active members:				
1. Allocated to service rendered prior to valuation date	\$30,770	\$ 39,496	\$19,686	\$ 89,952
2. Allocated to service likely to be rendered after valuation date	13,913	15,656	11,008	40,577
3. Total	\$44,683	\$ 55,152	\$30,694	\$130,529
D. Total actuarial present value of expected future benefit payments	\$94,225	\$134,394	\$77,303	\$305,922

* Totals may not sum exactly due to rounding.



Cumulative Experience Gains/(Losses)

Year Ended September 30	Balance at Beginning of Year	Interest	Gain/(Loss) During Year	Value of Cost- of-Living Adjustment During Year	Balance at End of Year
1999	\$ -	\$ -	\$ 4,314,699	\$ 709,305	\$ 3,605,394
2000	3,605,394	288,432	6,465,035	1,219,607	9,139,254
2001	9,139,254	731,140	(6,086,030)	1,186,656	2,597,708
2002	2,597,708	207,817	(10,907,939)	-	(8,102,414)
2003	(8,102,414)	(648,193)	(9,844,539)	-	(18,595,145)
2004	(18,595,145)	(1,487,612)	(11,328,205)	-	(31,410,961)
2005	(31,410,961)	(2,512,877)	(2,296,402)	-	(36,220,240)
2006 *	(18,683,996)	(1,494,720)	3,801,047	-	(16,377,668)
2007	(16,377,668)	(1,310,213)	9,086,773	-	(8,601,108)
2008	(8,601,108)	(688,089)	(3,888,228)	-	(13,177,425)
2009	(13,177,425)	(1,054,194)	(4,059,794)	-	(18,291,413)
2010	(18,291,413)	(1,463,313)	(3,428,818)	-	(23,183,544)
2011	(23,183,544)	(1,854,684)	(8,690,267)	-	(33,728,495)
2012	(33,728,495)	(2,698,280)	853,641	-	(35,573,134)
2013	(35,573,134)	(2,845,851)	4,085,864	-	(34,333,121)
2014	(34,333,121)	(2,746,650)	4,959,820	-	(32,119,951)
2015	(32,119,951)	(2,569,596)	5,140,356	-	(29,549,191)
2016	(29,549,191)	(2,290,062)	1,460,257	-	(30,378,996)
2017	(30,378,996)	(2,354,372)	68,563	-	(32,664,805)
2018	(32,664,805)	(2,531,522)	1,383,263	-	(33,813,064)
2019	(33,813,064)	(2,620,512)	(2,071,760)	-	(38,505,336)
2020	(38,505,336)	(2,984,164)	1,202,408	-	(40,287,092)
2021	(40,287,092)	(3,021,532)	5,088,261	-	(38,220,363)
2022	(38,220,363)	(2,770,976)	(11,171,174)	-	(52,162,513)

* After removing the estimated impact of Fire members.

SECTION C

SUMMARY OF BENEFIT PROVISIONS AND VALUATION DATA SUBMITTED BY THE RETIREMENT AND BENEFIT SYSTEM

Summary of Benefit Provisions (September 30, 2022)

Participation: Participation in the Retirement and Benefit System begins upon employment.

Normal Retirement (no reduction factor for age):

Eligibility - Original members: 20 or more years of service.

All members - General, Utilities Authority: 25 or more years of service regardless of age, or age 60 with 5 or more years of service.

- Police: 25 or more years of service, regardless of age, or age 55 with 5 or more years of service.

Mandatory Retirement Age - None.

Annual Amount - All members: Total service times 3.0% of final average salary.

For members hired prior to October 1, 2012:

- The maximum annual pension benefit shall not exceed 100% of final average salary.

For members hired on or after October 1, 2012:

- The maximum annual pension benefit shall not exceed 75% of final average salary.
- The maximum pension benefit is \$100,000 annually.

The normal form of benefit is a benefit payable for life. Optional forms are available on an actuarial equivalent basis.

Type of Final Average Salary - General: Highest 5 consecutive years out of last 10. Police, Utilities Authority: Highest 5 years out of last 10. Overtime hours included in compensation are limited to 300 hours per fiscal year.

For members hired prior to October 1, 2012: Payments for unused sick and vacation time included in compensation are limited to unused sick and vacation time accrued through September 20, 2012 for General and Police, and July 1, 2011 for Utilities Authority.

For members hired on or after October 1, 2012: Payments for unused sick and vacation time are not included in compensation.

Deferred Retirement Option Plan (DROP) Retirement:

Eligibility - General, Police, and Utilities Authority members: Same as Normal Retirement, election may be made on or after normal retirement eligibility, but not after reaching 30 years of service. Participation in the DROP ends after five years.



Annual Amount - Computed as a normal retirement but based upon service and final average salary at time of DROP election. Member contributions cease and monthly benefits (and post-retirement increases, if any) accumulate in a self-directed DROP account and are payable to the member upon termination of employment.

Deferred Retirement (vested benefit):

Eligibility - 5 or more years of service. Benefit begins upon attaining age 60.

Annual Amount - Computed as a normal retirement but based upon service and final average salary at time of termination.

Duty Disability Retirement:

Eligibility - No age or service requirements if the Retirement Board finds the member to be in receipt of weekly workers' compensation on account of disability in the course of duty.

Annual Amount - Computed as a normal retirement based upon service projected to the end of the duty disability period and final average salary at time of disability. Minimum benefit is 75% of final average salary during the duty disability period. The duty disability period ends on the earlier of the 25th anniversary of the member's hire date or the date the member attains age 65 but not prior to 5 years from the date of duty disability retirement.

Non-Duty Disability Retirement:

Eligibility - 5 or more years of service.

Annual Amount - Computed as a normal retirement but based upon service and final average salary at time of disability.

Duty Death Before Retirement:

Eligibility - No age or service requirements. Benefits begin upon termination of workers' compensation.

Annual Amount - A benefit equal to the same amount that was paid by workers' compensation to the spouse until death, to unmarried children under 18 and dependent parents.

Non-Duty Death Before Retirement:

Eligibility - 5 or more years of service.

Annual Amount - Computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election.



Post-Retirement Increases: COLA may be granted from investment returns in excess of actuarial interest assumption, not to exceed 3%.

Military Service: May be purchased by members who meet the eligibility conditions.

Member Contributions: General: 5.16% of annual salary
 Police: 5.16% of annual salary
 Utilities Authority: 6.16% of annual salary

Employer Contributions: Actuarially determined amounts which together with member contributions are sufficient to at least cover the requirements of the funding objective stated on page A-1.

Accounting Information Submitted for Valuation

Revenues and Expenditures

	Year Ended	
	9/30/2022	9/30/2021
Revenues:		
a. Member contributions:		
General	\$ 627,070	\$ 542,669
Police	412,334	382,555
Utilities Authority	943,800	964,291
b. Employer contributions:		
General	2,080,927	1,767,431
Police	1,076,459	986,014
Utilities Authority	2,601,505	2,575,357
c. Investment income:		
1. Interest and dividends	3,700,903	3,635,729
2. Gain or loss on sales	4,422,602	13,029,930
3. Unrealized gain/loss	(46,103,627)	24,028,230
d. Total revenues	\$ (30,238,027)	\$ 47,912,206
Expenditures:		
a. Refunds of member contributions:		
General	\$ 188,074	\$ 43,047
Police	36,274	69,318
Utilities Authority	143,500	68,758
b. Benefits paid:		
General	4,817,113	4,641,965
Police	4,133,520	3,949,183
Utilities Authority	7,312,632	6,795,485
c. Investment expenses	923,338	858,857
d. Administrative expenses	231,057	232,885
e. Other	48,095	41,821
f. Total expenditures	\$ 17,833,603	\$ 16,701,319
Adjustments:	\$ -	\$ -
Reserve Increase:	\$ (48,071,630)	\$ 31,210,887

Market Value of Assets

	9/30/2022	9/30/2021
Cash	\$ 0	\$ 0
Receivables & Accruals	726,520	630,256
Other short-term	2,006,198	1,981,699
Real Estate	29,008,920	23,118,490
Bonds - corporate	26,929,064	32,528,889
- government	21,722,728	24,585,776
Stocks - common	120,937,722	16,244,807
- mutual funds	0	148,685,099
Other - prepaid expenses	360	0
Total assets	201,331,512	247,775,016
Less accounts payable	2,741,508	1,113,382
Net assets	\$ 198,590,004	\$ 246,661,634



Retired Member and Beneficiary Data September 30, 2022 Tabulated by Valuation Divisions

Valuation Divisions	No.	Annual Benefits	Average Benefit	Actuarial Value of Benefits
General Members	216	\$ 4,815,268	\$ 22,293	\$ 47,818,799
Utilities Authority Members	253	7,532,896	29,774	77,464,243
Police Members	97	4,307,333	44,405	46,219,613
Totals	566	\$16,655,497	\$29,427	\$171,502,655

Divisions	All Retirements Averages			New Age and Service Retired Members Added During Year Ended 9/30/2022 Averages		
	Attained Age	Retirement Age	Current Annual Benefits	No.	Age	Annual Benefits
	General Members	70.7	59.9	\$ 22,293	11	62.9
Utilities Authority Members	69.9	58.2	29,774	14	62.2	46,852
Police Members	65.3	53.2	44,405	2	49.8	69,874

Retired Member and Beneficiary Data Historical Comparison

Period	Added		Removed		Net Increase		End of Period		Expected Removals	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits	No.	Benefits
9/30/88	16	\$ 176,569	6	\$ 18,144	10	\$ 158,425	195	\$ 1,335,038	6	\$ 29,181
9/30/89	18	210,866	7	29,378	11	181,488	206	1,516,526	7	34,395
9/30/90	19	284,294	8	50,713	11	233,581	217	1,750,107	7	40,904
9/30/91	12	166,933	12	40,397	0	126,536	217	1,876,643	8	48,142
9/30/92	19	279,791	6	12,185	13	267,606	230	2,144,249	7	46,602
9/30/93	26	505,107	8	102,192	18	402,915	248	2,547,164	8	53,142
9/30/94	20	319,610	8	59,627	12	259,983	260	2,807,147	9	58,237
9/30/95	22	481,651	9	41,888	13	439,763	273	3,246,910	9	64,542
9/30/96	12	177,476	9	54,301	3	123,175	276	3,370,085	8	61,052
9/30/97	20	311,526	11	62,949	9	248,577	285	3,618,662	9	66,449
9/30/98	35	833,113	9	47,534	27	785,579	311	4,404,241	9	72,632
9/30/99	25	507,447	15	126,797	10	380,650	321	4,784,891	10	82,380
9/30/00	27	646,116	14	129,198	13	516,918	334	5,301,809	10	90,589
9/30/01	23	628,192	15	97,296	8	530,896	342	5,832,705	10	97,991
9/30/02	23	526,601	3	33,319	20	493,282	362	6,325,987	10	109,931
9/30/03	17	313,250	5	42,129	12	271,121	374	6,597,108	11	121,871
9/30/04	25	705,692	3	44,505	22	661,187	396	7,258,295	11	132,981
9/30/05	11	354,475	22	266,853	-11	87,622	385	7,345,917	12	149,279
9/30/06 *	37	1,017,845	99	2,907,201	-62	(1,889,356)	323	5,456,561	10	109,462
9/30/07	32	820,021	18	202,924	14	617,097	337	6,073,658	11	126,496
9/30/08	23	635,039	12	184,195	11	450,844	348	6,524,502	11	138,459
9/30/09	55	1,551,148	16	182,856	39	1,368,292	387	7,892,794	12	149,577
9/30/10	56	2,229,035	14	177,196	42	2,051,839	429	9,944,633	12	170,609
9/30/11	26	672,328	16	239,318	10	433,010	439	10,377,643	13	197,045
9/30/12	27	746,421	14	251,747	13	494,674	452	10,872,317	14	196,990
9/30/13	32	927,561	15	134,978	17	792,583	469	11,664,900	14	214,174
9/30/14	40	890,500	20	262,625	20	627,875	489	12,292,775	14	232,649
9/30/15	31	739,422	19	262,533	12	476,889	501	12,769,664	15	249,235
9/30/16	24	653,823	26	380,819	-2	273,004	499	13,042,668	16	270,359
9/30/17	19	382,822	13	154,607	6	228,215	505	13,270,883	14	249,276
9/30/18	32	777,459	20	342,128	12	435,331	517	13,706,214	14	267,842
9/30/19	31	1,018,350	22	345,024	9	673,326	526	14,379,540	14	285,051
9/30/20	25	861,733	17	302,652	8	559,081	534	14,938,621	14	292,501
9/30/21	39	1,245,027	19	268,488	20	976,539	554	15,915,160	15	328,322
9/30/22	33	1,144,325	21	403,988	12	740,337	566	16,655,497	15	349,804

* Removed 90 Fire retirees and beneficiaries, and \$2,811,761 annual benefits in the 9/30/2006 valuation.



Retired Members and Beneficiaries Historical Comparison

Valuation Date	% Increase in Annual Benefits	No. of Active Per Retired	Annual Benefits as % of Active Payroll	Average Benefits
9/30/88	13.5 %	4.2	6.8 %	\$ 6,846
9/30/89	13.6	4.0	7.5	7,362
9/30/90	15.4	3.9	7.8	8,065
9/30/91	7.2	3.9	7.9	8,648
9/30/92	14.3	3.6	8.6	9,323
9/30/93	18.8	3.1	10.8	10,271
9/30/94	10.2	3.0	11.6	10,797
9/30/95	15.7	3.0	12.4	11,893
9/30/96	3.8	3.0	12.2	12,210
9/30/97	7.4	3.2	12.1	12,697
9/30/98	21.7	2.8	14.5	14,162
9/30/99	8.6	2.7	15.1	14,906
9/30/00	10.8	2.7	15.9	15,874
9/30/01	10.0	2.7	16.4	17,055
9/30/02	8.5	2.5	17.1	17,475
9/30/03	4.3	2.5	16.4	17,639
9/30/04	10.0	2.4	16.7	18,329
9/30/05	1.2	2.6	15.0	19,080
9/30/06 *	20.3	2.0	17.9	16,893
9/30/07	11.3	2.0	19.6	18,023
9/30/08	7.4	2.0	19.8	18,749
9/30/09	21.0	1.7	25.4	20,395
9/30/10	26.0	1.3	37.1	23,181
9/30/11	4.4	1.3	40.3	23,639
9/30/12	4.8	1.2	42.1	24,054
9/30/13	7.3	1.1	46.3	24,872
9/30/14	5.4	1.1	48.9	25,139
9/30/15	3.9	1.0	50.1	25,488
9/30/16	2.1	1.1	47.4	26,138
9/30/17	1.7	1.1	46.5	26,279
9/30/18	3.3	1.1	46.8	26,511
9/30/19	4.9	1.1	45.2	27,338
9/30/20	3.9	1.1	45.9	27,975
9/30/21	6.5	1.0	49.3	28,728
9/30/22	4.7	1.0	48.6	29,427

* Removed 90 Fire retirees and beneficiaries, and \$2,811,761 annual benefits in the 9/30/2006 valuation.



Retired Member and Beneficiary Data as of September 30, 2022 by Type of Benefit Being Paid

<u>Type of Benefit Being Paid</u>	<u>No.</u>	<u>Annual Benefits</u>	<u>Average Benefits</u>
Age and Service Benefits			
Straight Life - benefit terminating at death of retirant	210	\$ 6,478,640	\$30,851
Option A - 100% joint and survivor benefit*	119	3,810,002	32,017
Option B/D/E - 50%/75%/67% joint and survivor benefit*	110	3,808,848	34,626
Option C - 10-year certain and life	23	593,947	25,824
Other Age and Service Benefits	<u>0</u>	<u>0</u>	<u>0</u>
Total Age and Service Benefits	462	14,691,437	31,800
Surviving Beneficiary Benefits	66	976,869	14,801
Casualty Benefits			
Duty disability	11	401,965	36,542
Non-duty disability	11	229,498	20,863
Duty death	2	47,846	23,923
Non-duty death	<u>14</u>	<u>307,882</u>	<u>21,992</u>
Total Casualty Benefits	38	987,191	25,979
Total Benefits Being Paid	566	\$16,655,497	\$29,427

* Includes Pop-Up provision.

Retired Members and Beneficiaries as of September 30, 2022 by Attained Age

Age Last Birthday	Age and Service*		Casualty		Total	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
Under 45	3	\$ 17,257	0	\$ -	3	\$ 17,257
45-49	6	205,193	2	81,768	8	286,961
50-54	18	1,040,809	7	192,972	25	1,233,781
55-59	36	1,636,353	8	218,603	44	1,854,956
60-64	0	-	0	-	0	-
65-69	104	3,348,931	6	169,507	110	3,518,438
70-74	123	3,768,136	3	39,616	126	3,807,752
75-79	93	2,401,895	7	177,250	100	2,579,145
80-84	73	1,996,848	2	44,925	75	2,041,773
85-89	0	-	0	-	0	-
90 & Over	72	1,252,884	3	62,550	75	1,315,434
Totals	528	\$ 15,668,306	38	\$ 987,191	566	\$ 16,655,497

* Includes Surviving Beneficiary Benefits.

Inactive Vested Members as of September 30, 2022 by Attained Age

Attained Age	General Members		Utilities Authority		Police Members			TOTAL
	No.	Estimated Annual Benefits	No.	Estimated Annual Benefits	No.	Estimated Annual Benefits	No.	Estimated Annual Benefits
Under 30								
30-34	2	\$ 16,968	1	\$ 7,632			3	\$ 24,600
35-39			1	21,262	1	\$ 35,204	2	56,466
40-44	3	34,333	2	70,138	1	23,159	6	127,630
45-49			3	45,269	1	7,554	4	52,823
50-54	3	80,890	7	102,645	2	27,607	12	211,142
55-59	6	132,261	4	72,793	1	7,094	11	212,148
60-64								-
TOTALS	14	\$ 264,452	18	\$ 319,739	6	\$ 100,618	38	\$684,809

Active Members Included in Valuation General Members

Valuation September 30	Active Members	Vested		Valuation Payroll	Average		
		Term. Members			Age	Service	Pay
2003	302	5		\$ 9,994,351	46.5 yrs.	7.7 yrs.	\$ 33,094
2004	294	7		10,546,747	46.1	8.1	35,873
2005	297	7		11,854,374	46.4	8.6	39,914
2006	287	6		11,206,771	46.5	8.0	39,048
2007	289	6		11,131,329	47.3	8.3	38,517
2008	281	6		11,949,389	47.9	9.0	42,525
2009	265	8		11,108,762	47.5	8.6	41,920
2010	226	13		8,874,396	46.8	8.0	39,267
2011	219	16		8,488,894	47.1	8.2	38,762
2012	216	16		8,625,945	47.8	8.9	39,935
2013	198	17		7,765,325	48.2	9.4	39,219
2014	198	14		7,912,918	48.3	9.3	39,964
2015	185	15		7,383,853	48.9	9.8	39,913
2016	203	20		8,738,017	48.5	8.8	43,044
2017	199	19		8,858,072	48.7	9.1	44,513
2018	197	21		8,802,993	48.4	8.9	44,685
2019	203	18		9,532,368	48.5	8.6	46,957
2020	213	15		10,215,838	48.4	8.6	47,962
2021	212	15		10,496,497	48.3	8.6	49,512
2022	226	14		12,047,525	47.8	7.9	53,308

Number Added to and Removed from Active Membership General Members

Year Ended September 30	Number Added During Year		Normal Retirement		Disability Retirement		Died-in- Service		Terminations				Active Members End of Year	
	A	E	A	E	A	E	A	E	Withdrawal		Totals	Transfer		
									A	E				A
2013	9	27	10	9.8	0	0.5	1	0.4	13	3	16	11.0		198
2014	23	23	10	8.4	0	0.5	0	0.4	13	0	13	9.5		198
2015	14	26	8	10.1	0	0.4	2	0.4	14	2	16	10.9	(1)	185
2016	41	23	7	8.3	0	0.5	0	0.4	10	6	16	9.9		203
2017	17	23	7	6.7	1	0.4	0	0.3	14	1	15	16.5	2	199
2018	32	33	8	8.4	1	0.4	1	0.3	19	4	23	14.7	(1)	197
2019	38	31	7	7.6	0	0.4	0	0.2	22	2	24	15.6	(1)	203
2020	28	18	5	8.4	1	0.3	0	0.2	12	0	12	17.3	0	213
2021	27	26	5	11.0	1	0.4	0	0.2	18	2	20	16.8	(2)	212
2022	45	31	9	9.7	1	0.4	0	0.2	20	1	21	16.2	0	226
10-Year Totals	274	261	76	88.4	5	4.2	4	3.0	155	21	176	138.4		

A represents actual number; E represents expected number.



Active Members Included in Valuation Utilities Authority Members

Valuation September 30	Active Members	Vested Term. Members	Valuation Payroll	Average		
				Age	Service	Pay
2003	248	10	\$ 10,744,695	45.3 yrs.	10.0 yrs.	\$ 43,325
2004	245	11	11,193,220	45.8	10.1	45,687
2005	256	12	12,754,845	46.5	10.1	49,824
2006	263	11	12,551,346	46.6	9.6	47,724
2007	278	10	13,494,349	46.5	9.3	48,541
2008	282	12	13,970,069	46.5	9.1	49,539
2009	266	7	13,244,000	46.0	9.3	49,789
2010	248	8	12,119,371	46.2	9.3	48,868
2011	237	10	11,893,916	47.0	9.9	50,185
2012	237	10	11,801,344	47.2	9.9	49,795
2013	232	9	11,534,243	46.7	9.6	49,717
2014	219	15	11,071,951	46.4	9.3	50,557
2015	228	18	11,841,919	46.3	9.1	51,938
2016	229	16	12,588,492	46.3	9.4	54,972
2017	230	18	12,768,134	46.5	9.8	55,514
2018	242	18	13,635,436	46.4	9.5	56,345
2019	257	15	15,141,890	46.2	9.3	58,918
2020	254	17	15,341,742	46.5	9.4	60,401
2021	244	20	14,993,204	46.0	9.4	61,448
2022	225	18	14,329,922	46.8	9.5	63,689

Number Added to and Removed from Active Membership Utilities Authority Members

Year Ended September 30	Number Added During Year		Normal Retirement		Disability Retirement		Died-in- Service		Terminations				Active Members End of Year	
	A	E	A	E	A	E	A	E	Withdrawal		Totals			Transfer
									A	A	A	E		
2013	25	30	14	9.0	0	0.6	1	0.5	15	0	15	12.0		232
2014	23	36	18	8.8	0	0.6	0	0.4	12	6	18	13.3		219
2015	27	19	10	6.1	1	0.5	0	0.4	4	4	8	13.5	1	228
2016	25	24	6	5.3	0	0.5	0	0.3	15	3	18	15.0		229
2017	19	18	2	6.8	0	0.5	0	0.3	10	6	16	16.7		230
2018	31	19	7	7.9	0	0.5	0	0.3	10	2	12	15.5		242
2019	35	21	6	7.9	0	0.4	0	0.4	12	3	15	17.4	1	257
2020	19	22	11	8.8	0	0.4	0	0.4	9	2	11	19.2	0	254
2021	23	33	14	10.2	0	0.4	1	0.3	14	4	18	17.9	0	244
2022	28	47	13	9.6	0	0.4	0	0.3	34	0	34	16.9	0	225
10-Year Totals	255	269	101	80.4	1	4.8	2	3.6	135	30	165	157.4		

A represents actual number; E represents expected number.



Active Members Included in Valuation Police Members

Valuation September 30	Active Members	Vested Term. Members	Payroll	Average		
				Age	Service	Pay
2003	103	3	\$ 4,921,744	39.9 yrs.	9.1 yrs.	\$ 47,784
2004	103	3	5,496,631	40.3	9.9	53,365
2005	105	3	5,943,309	40.9	10.6	56,603
2006	111	2	6,773,879	39.3	9.4	61,026
2007	106	2	6,358,225	38.9	9.4	59,983
2008	117	2	7,032,172	39.2	9.4	60,104
2009	111	3	6,663,530	38.6	9.2	60,032
2010	102	3	5,785,106	38.4	9.0	56,717
2011	101	4	5,361,391	38.9	9.7	53,083
2012	99	3	5,415,125	39.0	9.8	54,698
2013	106	3	5,899,165	39.2	9.2	55,653
2014	109	2	6,165,492	38.4	8.9	56,564
2015	107	4	6,249,587	39.0	9.1	58,407
2016	100	6	6,166,648	38.3	9.0	61,666
2017	110	8	6,937,207	37.9	8.6	63,066
2018	111	8	6,825,562	37.9	8.6	61,492
2019	107	7	7,129,571	37.6	8.2	66,632
2020	103	8	7,005,232	37.9	8.4	68,012
2021	99	9	6,814,130	37.4	7.9	68,830
2022	108	6	7,913,942	37.2	7.8	73,277

Number Added to and Removed from Active Membership Police Members

Year Ended September 30	Number Added During Year		Normal Retirement		Disability Retirement		Died-in- Service		Terminations				Active Members End of Year	
	A	E	A	E	A	E	A	E	Withdrawal		Totals			Transfer
									A	E	A	E		
2013	17	10	2	1.4	0	0.2	0	0.1	8	0	8	4.4		106
2014	19	16	4	2.0	0	0.2	0	0.1	12	0	12	5.3		109
2015	14	16	2	2.0	1	0.2	0	0.1	11	2	13	5.8		107
2016	15	22	4	3.4	0	0.2	0	0.1	15	3	18	5.8		100
2017	17	5	1	1.5	0	0.2	1	0.1	2	1	3	6.6	(2)	110
2018	10	11	4	1.9	0	0.3	0	0.1	5	1	6	7.2	1	111
2019	8	15	7	4.5	1	0.3	0	0.1	4	0	4	6.7	0	107
2020	13	17	2	0.9	0	0.3	0	0.1	13	2	15	6.4	0	103
2021	10	16	5	2.1	1	0.3	0	0.1	8	2	10	6.7	2	99
2022	13	4	2	1.3	0	0.1	0	0.1	2	0	2	6.5	0	108
10-Year Totals	136	132	33	21.0	3	2.3	1	1.0	80	11	91	61.4		

A represents actual number; E represents expected number.



General Members as of September 30, 2022 by Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
20-24	5							5	\$ 198,518
25-29	11	1						12	541,660
30-34	16	4						20	1,025,768
35-39	7	4	2	4				17	869,548
40-44	18	7		2	1			28	1,420,343
45-49	15	5	2	4	8	1		35	2,011,488
50-54	22	5	5	3	6	4		45	2,495,593
55-59	15	5	1	10	3			34	1,938,305
60		1	1		2			4	251,725
61	3			1				4	275,437
62	3							3	79,674
63	2	1				1		4	315,745
64		1	1	1				3	113,741
65	2							2	162,150
67						1		1	79,244
68	1	1						2	146,564
69			1					1	27,881
71		1						1	10,959
72		1		1				2	54,115
77		1						1	10,302
78	1				1			2	18,765
Totals	121	38	13	26	21	7	0	226	\$12,047,525

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age:	47.8	years
Service:	7.9	years
Annual Pay:	\$53,308	

Utilities Authority Members as of September 30, 2022 by Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
20-24	3							3	\$ 151,837
25-29	6	1						7	289,545
30-34	12	10	1					23	1,260,120
35-39	16	9	5	5				35	2,255,533
40-44	10	7	6	3	5			31	1,855,127
45-49	8	5	3	5	2			23	1,597,431
50-54	13	8	6	7	5	2	1	42	2,999,715
55-59	8	6	3	10	3	2		32	2,071,079
60	3			2				5	239,162
61	1	1						2	103,323
62		2	1	1	1			5	355,574
63	1	1		1				3	135,394
64	2			2				4	243,721
65	1	1		4				6	497,435
66		2					1	3	223,473
68		1						1	51,453
Totals	84	54	25	40	16	4	2	225	\$14,329,922

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 46.8 years
Service: 9.5 years
Annual Pay: \$63,689

Police Members as of September 30, 2022 by Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
20-24	9							9	\$ 471,297
25-29	15	3						18	1,048,237
30-34	8	12						20	1,416,567
35-39	6	8	2	1				17	1,208,623
40-44	4	7	2	2	1			16	1,262,738
45-49	5	1	4	2	6			18	1,581,817
50-54	1	1		1	2			5	432,694
55-59		3			2			5	491,969
Totals	48	35	8	6	11	0	0	108	\$7,913,942

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 37.2 years
Service: 7.8 years
Annual Pay: \$73,277

SECTION D

ACTUARIAL COST METHOD, ACTUARIAL ESTIMATES AND DEFINITIONS OF TECHNICAL TERMS

Actuarial Cost Method Used for the Valuation

The actuarial cost method is a procedure for allocating the actuarial present value of future benefits and expenses to time periods. The method used for this valuation is the individual entry-age actuarial cost method, and has the following characteristics:

Actuarial Present Value of Future Benefits. Actuarial present values are calculated using the benefit provisions applicable to active members, vested terminated members, and retirees and beneficiaries as of the valuation date using the assumptions summarized elsewhere in this report.

Normal Costs. The actuarial present values for each year of service rendered before and after the valuation date are determined so that:

- (i) The annual normal costs for each individual active member, payable from the member's effective date of employment (or entry age) to projected date of retirement, are sufficient to accumulate the value of the member's benefit at the time of retirement; and
- (ii) Each annual normal cost is a constant percentage of the active member's year-by-year projected pensionable pay.

Actuarial Accrued Liabilities. The actuarial present value of future benefits minus the actuarial present value of normal costs rendered after the valuation date is the Actuarial Accrued Liabilities.

Funding Value of Assets. The accrued assets recognized as of the valuation date for the purpose of determining contribution requirements.

Unfunded Actuarial Accrued Liabilities. The Actuarial Accrued Liabilities minus the funding value of assets are the Unfunded Actuarial Accrued Liabilities.

Amortization of Unfunded Actuarial Accrued Liabilities. Unfunded Actuarial Accrued Liabilities were amortized by level (principal & interest combined) percent-of-payroll contributions over periods shown elsewhere in this report. Active member payroll was assumed to increase 4.0% a year for the purpose of determining the level percent contributions, unless the 10-year average annual payroll growth is lower than 4.0%.

Actuarial Assumptions. Assumptions are established by the Board after consulting with the actuary. Non-economic assumptions are generally selected on the basis of the System's historical activity, modified for expected future differences. The reasonableness of the economic assumptions is based upon capital market expectations provided by various investment consultants and other sources such as the Social Security Trustees report. All actuarial assumptions are based on future expectations, not market measures.

Level Percent of Active Member Covered Payroll Amortization of Unfunded Actuarial Accrued Liability*

General Members

(\$ Amounts in Thousands)

Year	Pay		Unfunded		Contribution	
	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars
2022	\$ 12,048	\$12,048	\$ 12,509	\$12,509	\$ 567	\$ 567
2023	12,529	12,048	12,817	12,324	731	703
2024	13,031	12,048	12,974	11,995	799	739
2025	13,552	12,048	13,071	11,620	798	710
2026	14,094	12,048	13,175	11,262	891	762
2031	17,147	12,048	10,771	7,568	1,709	1,200
2036	20,862	12,048	7,590	4,383	655	378
2041	25,382	12,048	5,582	2,649	418	199
2051	37,572	12,048	497	159	505	162
2052	39,075	12,048	0	0	0	0

*	\$	3,171,364	over 30 years	\$	(2,802,698)	over 15 years
		1,147,553	over 29 years		226,903	over 14 years
		961,629	over 28 years		2,266,728	over 13 years
		351,290	over 27 years		2,200,594	over 12 years
		(423,645)	over 26 years		1,708,752	over 11 years
		85,485	over 25 years		1,622,976	over 10 years
		2,980,694	over 24 years		399,573	over 9 years
		(745,274)	over 23 years		(662,955)	over 8 years
		(1,349,896)	over 22 years		(573,065)	over 7 years
		(1,227,187)	over 21 years		(642,135)	over 6 years
		(617,751)	over 20 years		(870,799)	over 5 years
		2,415,718	over 19 years		(196,276)	over 4 years
		650,416	over 18 years		84,227	over 3 years
		1,175,062	over 17 years		(70,426)	over 2 years
		1,375,387	over 16 years		(133,566)	over 1 year
				\$	12,508,678	TOTAL

Level percent-of-payroll financing of unfunded actuarial accrued liabilities treats each generation of taxpayers equally during the financing period. The alternative, level-dollar financing, produces declining percent-of-payroll contributions and places a greater relative burden on current taxpayers.

The annual rate of increase in member payroll used to compute the level percent-of-payroll contribution is the same rate of payroll growth used to compute actuarial liabilities and costs. It reflects across-the-board salary increases not group size increases.

If future payroll growth is less than the assumed rate due to smaller than projected salary increases, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to decline.

If future payroll growth is less than the assumed rate due to decreases in the number of members, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to increase but dollar contributions will be less than indicated in the preceding schedule.



Level Percent of Active Member Covered Payroll Amortization of Unfunded Actuarial Accrued Liability*

Utility Authority Members

(\$ Amounts in Thousands)

Year	Pay		Unfunded		Contribution	
	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars
2022	\$14,330	\$14,330	\$18,477	\$18,477	\$ 1,293	\$ 1,293
2023	14,903	14,330	18,450	17,740	1,345	1,293
2024	15,499	14,330	18,367	16,981	1,399	1,293
2025	16,119	14,330	18,221	16,199	1,310	1,164
2026	16,764	14,330	18,159	15,522	1,151	984
2031	20,396	14,330	17,439	12,253	1,889	1,327
2036	24,815	14,330	13,072	7,549	1,562	902
2041	30,191	14,330	8,615	4,089	779	370
2051	44,690	14,330	720	231	732	235
2052	46,478	14,330	0	0	0	0

* \$	4,594,718	over 30 years	\$ (1,901,509)	over 15 years
	2,053,012	over 29 years	0	over 14 years
	704,624	over 28 years	4,554,664	over 13 years
	171,948	over 27 years	0	over 12 years
	(290,186)	over 26 years	0	over 11 years
	(508,304)	over 25 years	0	over 10 years
	4,972,484	over 24 years	(748,312)	over 9 years
	442,797	over 23 years	137,179	over 8 years
	(1,888,201)	over 22 years	(1,678,662)	over 7 years
	(1,111,999)	over 21 years	(3,575)	over 6 years
	(1,545,211)	over 20 years	0	over 5 years
	3,818,238	over 19 years	678,263	over 4 years
	2,251,734	over 18 years	369,938	over 3 years
	1,912,083	over 17 years	0	over 2 years
	1,490,863	over 16 years	0	over 1 year
			\$ 18,476,586	TOTAL

Level percent-of-payroll financing of unfunded actuarial accrued liabilities treats each generation of taxpayers equally during the financing period. The alternative, level-dollar financing, produces declining percent-of-payroll contributions and places a greater relative burden on current taxpayers.

The annual rate of increase in member payroll used to compute the level percent-of-payroll contribution is the same rate of payroll growth used to compute actuarial liabilities and costs. It reflects across-the-board salary increases not group size increases.

If future payroll growth is less than the assumed rate due to smaller than projected salary increases, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to decline.

If future payroll growth is less than the assumed rate due to decreases in the number of members, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to increase but dollar contributions will be less than indicated in the preceding schedule.



Level Percent of Active Member Covered Payroll Amortization of Unfunded Actuarial Accrued Liability*

Police Members

(\$ Amounts in Thousands)

Year	Pay		Unfunded		Contribution	
	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars	Inflated Dollars	Constant Dollars
2022	\$ 7,914	\$7,914	\$7,185	\$7,185	\$ 364	\$ 364
2023	8,230	7,914	7,321	7,040	379	364
2024	8,560	7,914	7,452	6,890	394	364
2025	8,902	7,914	7,576	6,735	325	288
2026	9,258	7,914	7,783	6,653	345	295
2031	11,264	7,914	5,631	3,956	1,083	761
2036	13,704	7,914	3,528	2,037	47	27
2041	16,673	7,914	3,320	1,576	141	67
2051	24,681	7,914	534	171	542	174
2052	25,668	7,914	0	0	0	0

	* \$	3,405,092	over 30 years	\$ (2,527,572)	over 15 years
		615,364	over 29 years	433,741	over 14 years
		(1,206,937)	over 28 years	2,983,185	over 13 years
		1,652,354	over 27 years	1,780,386	over 12 years
		(557,099)	over 26 years	1,121,217	over 11 years
		374,721	over 25 years	1,029,849	over 10 years
		105,634	over 24 years	780,528	over 9 years
		(110,244)	over 23 years	(257,654)	over 8 years
		(1,298,452)	over 22 years	(824,182)	over 7 years
		(1,236,923)	over 21 years	1,023,712	over 6 years
		98,915	over 20 years	(2,709,670)	over 5 years
		788,952	over 19 years	(24,751)	over 4 years
		556,952	over 18 years	216,528	over 3 years
		445,324	over 17 years	0	over 2 years
		525,799	over 16 years	0	over 1 year
				\$ 7,184,769	TOTAL

Level percent-of-payroll financing of unfunded actuarial accrued liabilities treats each generation of taxpayers equally during the financing period. The alternative, level-dollar financing, produces declining percent-of-payroll contributions and places a greater relative burden on current taxpayers.

The annual rate of increase in member payroll used to compute the level percent-of-payroll contribution is the same rate of payroll growth used to compute actuarial liabilities and costs. It reflects across-the-board salary increases not group size increases.

If future payroll growth is less than the assumed rate due to smaller than projected salary increases, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to decline.

If future payroll growth is less than the assumed rate due to decreases in the number of members, the percent-of-payroll contribution rate for unfunded actuarial accrued liabilities will tend to increase but dollar contributions will be less than indicated in the preceding schedule.



Actuarial Estimates Used for the Valuation

Funding objective contribution requirements and actuarial present values are calculated by applying estimates of future activities (actuarial estimates) to the benefit provisions and people information of the System.

The principal areas of risk which require estimates of future activities are:

- (i) Long-term rates of investment return to be generated by the assets of the System
- (ii) Patterns of pay increases to members
- (iii) Rates of mortality among members, retirees, and beneficiaries
- (iv) Rates of termination of active members
- (v) Rates of disability among active members
- (vi) The age patterns of actual retirements

In a valuation, the monetary effect of each activity is calculated for as long as a present covered person survives - - - a period of time which can be as long as a century.

Actual activities of the System will not coincide exactly with estimated activities, due to the nature of the activities. Each valuation provides a complete recalculation of estimated future activities and takes into account the effect of differences between estimated and actual activities to date. The result is a continual series of adjustments (usually small) to the computed contribution rate.

From time-to-time one or more of the estimates are modified to reflect experience trends (but not random or temporary year-to-year fluctuations).

In accordance with Chapter 112, Florida Statutes, 112.661(9), the Retirement Board adopts the assumed rate of return assumption used for actuarial valuation purposes. The actuarial assumptions are set by the Board. The rationale for certain actuarial assumptions is described in the October 1, 1995 through September 30, 2000 experience study report. All actuarial assumptions are estimates of future experience.

Actuarial estimates regarding the net investment return, inflation, real investment return, and salary increase rates are used, in combination with the other assumptions, to (i) determine the present value of amounts expected to be paid in the future and (ii) establish rates of contribution which are expected to remain relatively level as a percent of total valuation payroll.

Net Rate of Investment Return. 7.25% per annum, compounded annually, net of investment expenses.

Inflation. 2.75% per annum, compounded annually. This is the rate at which growth in the supply of money and credit is estimated to exceed growth in the supply of goods and services. It may be thought of as the rate of depreciation of the purchasing power of the dollar. There are a number of indices for measuring the inflation rate. The recent inflation rate, as measured by the Consumer Price Index, has been:

	Year Ended September 30					Average for Period
	2022	2021	2020	2019	2018	
Actual	8.20%	5.40%	1.40%	1.70%	2.30%	3.77%
Assumed	2.75%	2.75%	2.75%	2.75%	2.75%	2.75%

Real Investment Return. 4.50% per annum, compounded annually. This is the rate of return assumed to be produced by investing a pool of assets in an inflation-free environment. Recent real investment return for the Retirement and Benefit System has been:

	Year Ended September 30					Average for Period
	2022	2021	2020	2019	2018	
Total Rate of Return	3.05%	10.15%	8.18%	8.08%	8.07%	7.51%
Less Inflation Rate	8.20%	5.40%	1.40%	1.70%	2.30%	3.77%
Actual Real Rate of Return	(5.15)%	4.75%	6.78%	6.38%	5.77%	3.74%
Assumed Real Rate of Return	4.50%	4.75%	5.00%	5.00%	5.00%	4.85%
Assumed Net Rate of Return	7.25%	7.50%	7.75%	7.75%	7.75%	7.60%

The total investment return rate was computed using the approximate formula $i = I$ divided by $1/2 (A + B - I)$, where I is actual realized investment income plus market value adjustments, A is the beginning of year asset value, and B is the end of year asset value.

The preceding investment return rates reflect the particular characteristics of this Retirement and Benefit System and should not be used to measure an investment advisor's performance or for comparison with other retirement systems. Such use will usually mislead.

Salary Increases. Employee salaries are estimated to increase between the date of hire and date of retirement. Salary increases occur in recognition of (i) individual merit and seniority, (ii) inflation related depreciation of the purchasing power of salaries, and (iii) competition from other employers for personnel.

A schedule of estimated rates of increases in individual salaries for sample ages follows:

Annual Rates of Salary Increases for Sample Ages						
Age	General and Utilities Authority			Police Officers		
	Merit & Seniority	Wage Inflation	Total	Merit & Seniority	Wage Inflation	Total
20	2.5 %	4.0 %	6.5 %	4.0 %	4.0 %	8.0 %
30	1.7 %	4.0 %	5.7 %	2.8 %	4.0 %	6.8 %
40	1.1 %	4.0 %	5.1 %	2.2 %	4.0 %	6.2 %
50	0.6 %	4.0 %	4.6 %	1.2 %	4.0 %	5.2 %
55	0.5 %	4.0 %	4.5 %	0.7 %	4.0 %	4.7 %
60	0.5 %	4.0 %	4.5 %	0.2 %	4.0 %	4.2 %

The merit and seniority rates for General and Utilities Authority were first used in the September 30, 2016 valuation.

The merit and seniority rates for Police Officers were first used in the September 30, 2001 valuation.

It is estimated that the group size will remain constant and that total payroll for the group will increase at the rate of the general increase in wage levels due to inflation, which in this case is 4.0%.

A schedule of recent salary change experience follows:

	% Change in Salaries					
	Year Ended September 30					Average
	2022	2021	2020	2019	2018	5-Year
Rate of Change in Salaries						
- Total	9.7 %	5.0 %	4.7 %	9.2 %	2.9 %	6.3 %
- General	11.8	4.9	5.1	7.4	3.9	6.6
- U.A.	7.2	4.2	4.6	7.3	3.7	5.4
- Police	11.4	6.4	4.0	15.2	0.2	7.3
Expected - Total						
- Total	5.2	5.1	5.1	5.1	5.2	5.1 %
- General	4.7	4.7	4.7	4.7	4.7	4.7
- U.A.	4.8	4.8	4.8	4.8	4.8	4.8
- Police	6.4	6.4	6.3	6.3	6.3	6.3

	% Change in Total Payroll						
	Year Ended September 30					Average*	
	2022	2021	2020	2019	2018	5-Year	10-Year
- Total	6.2 %	(0.8) %	2.4 %	8.7 %	2.5 %	2.3 %	2.9 %
- General	14.8	2.7	7.2	8.3	(0.6)	3.1	3.3
- U.A.	(4.4)	(2.3)	1.3	11.0	6.8	1.7	2.1
- Police	16.1	(2.7)	(1.7)	4.5	(1.6)	2.3	3.8

* 5-year and 10-year averages include DROP payroll.

In order to achieve the funding objective of a contribution rate which remains level as a percent-of-payroll, the total rate of investment return must exceed the rate of average increase in salaries by an amount equal to the estimated real investment return rate.

Mortality Tables. The mortality tables used to measure retired life mortality were the Florida Retirement System (FRS) Mortality Tables, as described below:

General & Utilities Authority

- Male non-disabled pre-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted General Below Median Employee Male Table, set back 1 year, projected with scale MP-2018.
- Female non-disabled pre-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted General Below Median Employee Female Table, projected with scale MP-2018.
- Male non-disabled post-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted General Below Median Healthy Retiree Male Table, set back 1 year, projected with scale MP-2018.
- Female non-disabled post-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted General Below Median Healthy Retiree Female Table, projected with scale MP-2018.
- Male disabled mortality: PUB-2010 Headcount Weighted General Disabled Retiree Male Table, set forward 3 years.
- Female disabled mortality: PUB-2010 Headcount Weighted General Disabled Retiree Female Table, set forward 3 years.

Police

- Male non-disabled pre-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted Public Safety Below Median Employee Male Table, set forward 1 year, projected with scale MP-2018.
- Female non-disabled pre-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted Public Safety Employee Female Table, set forward 1 year, projected with scale MP-2018.
- Male non-disabled post-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted Public Safety Below Median Healthy Retiree Male Table, set forward 1 year, projected with scale MP-2018.
- Female non-disabled post-retirement mortality: fully generational mortality. PUB-2010 Headcount Weighted Public Safety Healthy Retiree Female Table, set forward 1 year, projected with scale MP-2018.
- Male disabled mortality: PUB-2010 Headcount Weighted 80% General Disabled Retiree/20% Public Safety Disabled Retiree Male Table.
- Female disabled mortality: PUB-2010 Headcount Weighted 80% General Disabled Retiree/20% Public Safety Disabled Retiree Female Table.

Single Life Retirement Values

Sample Ages in 2022	Single Life Retirement Values							
	Present Value of \$1 Monthly for Life				Future Life Expectancy (Years)			
	General & UA		Police		General & UA		Police	
	Males	Females	Males	Females	Males	Females	Males	Females
45	\$151.73	\$156.50	\$151.50	\$156.80	38.43	42.29	37.39	41.57
50	144.06	150.41	145.69	151.41	33.20	37.00	32.55	36.38
55	137.58	145.92	137.85	144.41	28.83	32.55	27.78	31.35
60	130.38	139.29	127.89	135.80	24.73	28.00	23.18	26.55
65	120.86	129.83	116.10	125.34	20.66	23.42	18.91	22.03
70	108.18	117.28	101.70	112.60	16.64	18.94	14.89	17.77
75	93.20	102.01	85.42	97.54	12.93	14.75	11.28	13.84
80	76.72	84.56	68.20	80.91	9.64	10.99	8.19	10.37

The margin for future mortality improvements is included in projection scales. 100% of deaths were assumed to be non-duty related.



Rates of termination from active membership. The rates do not apply to members eligible to retire and do not include termination on account of death or disability. This estimate measures the probabilities of members remaining in employment.

Samples	Years of Service	Percent Terminating Within Next Year	
		General and Utilities Authority	Police
ALL	0	22.00 %	15.00 %
	1	16.50	12.00
	2	12.00	10.00
	3	10.00	8.00
	4	8.00	6.00
20	5 & Over	8.00	6.00
25		8.00	6.00
30		8.00	6.00
35		8.00	6.00
40		8.00	6.00
45		5.00	3.50
50		2.25	1.00
55		2.25	1.00
60		2.25	1.00
65		2.25	1.00

The rates for all divisions were first used in the September 30, 2016 valuation.

Rates of Disability. These estimates represent the probabilities of active members becoming disabled.

Sample Ages	Percent Becoming Disabled Within Next Year	
	General and Utilities Authority	Police
20	0.04 %	0.07 %
25	0.04	0.09
30	0.04	0.10
35	0.05	0.14
40	0.10	0.21
45	0.17	0.32
50	0.36	0.52
55	0.59	0.92
60	0.90	1.53
65	1.00	1.65

The mortality table was set forward ten years for projecting disability costs. 100% of the disability retirements were assumed to be non-duty related for General and Utilities Authority members. 75% of the disability retirements were assumed to be non-duty for Police members.

Rates of Retirement. These rates are used to measure the probabilities of an eligible member retiring during the next year.

Service Years	Service Based		Age Based		
	General and Utilities Authority	Police	Retirement Ages	General and Utilities Authority	Police
25	40 %	75 %	55		35 %
26	40	75	56		30
27	40	75	57		30
28	40	75	58		30
29	40	75	59		30
30	40	100	60	10 %	30
31	40	100	61	5	30
32	40	100	62	12	30
33	40	100	63	6	30
34	40	100	64	14	40
35	100	100	65	65	100
			66	25	
			67	30	
			68	40	
			69	50	
			70	100	

These rates were first used for the September 30, 1995 valuation with the exception of the Police service-based rates, which were first used for the September 30, 2000 valuation, Police age-based rates which were first used for the September 30, 2001 valuation, and Utilities Authority service-based rates which were first used for the September 30, 2007 valuation.

Miscellaneous and Technical Assumptions

Marriage Assumption. It is estimated that 80% of active members who meet the age and service requirements for pre-retirement survivor benefits are married. Female spouses are estimated to be 3 years younger than the male participant. Male spouses are estimated to be 3 years older than the female participant.

Pay Increase Timing. Middle of (Fiscal) year.

Decrement Timing. Retirement decrements are assumed to occur at the beginning of the year. Decrements of all other types are assumed to occur at the end 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.

Benefit Service. The nearest whole year of service on the date the decrement is assumed to occur is used to determine the amount of benefit payable.

Decrement Relativity. Decrement rates are used without adjustment for multiple decrement table effects.

Decrement Operation. Disability and mortality decrements do not operate during the first 5 years of service. Disability and withdrawal do not operate during retirement eligibility.

Normal Form of Benefit. The assumed normal form of benefit is the straight life form. Optional benefit forms are available on an actuarial equivalent basis.

Incidence of Contributions. 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. New entrant normal cost contributions are applied to the funding of new entrant benefits.

Vested members who terminate with a benefit worth less than 100% of their own accumulated contributions were presumed to elect a refund of accumulated contributions and forfeit the vested benefit.

Lump sum payments included in the calculation of the average pay upon which benefits are computed were estimated to increase benefits by the following percents.

General members	3.5 %
Utilities Authority members	3.0
Police members	4.0

Administrative Expenses. Administrative expenses for the next year are assumed to be equal to the previous year's amount.

Investment Expenses. Investment expenses are paid out of investment income.

Active Member Group Size. The valuation was based on a constant active member group size.

Valuation Pay. Active members whose current pay is at least 10% less than their pay in the prior valuation were assumed to have their prior year pay for this valuation.



Definitions of Technical Terms

Accrued Service. Service credited under the system which was rendered before the date of the actuarial valuation.

Actuarial Accrued Liability. The difference between the actuarial present value of future benefit payments and the actuarial present value of future normal costs. Also referred to as "accrued liability" or "past service liability."

Actuarial Cost Method. A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future benefit payments" between future normal costs and actuarial accrued liability. Sometimes referred to as the "actuarial valuation cost method."

Actuarial Equivalent. A single amount or series of amounts of equal actuarial present value to another single amount or series of amounts, computed on the basis of appropriate actuarial activities.

Actuarial Present Value. The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payment. Also referred to as "present value."

Amortization. Paying off an interest-discounted amount with periodic payments of interest and principal -- as opposed to paying off with lump sum payment.

Experience Estimates (Assumptions). Estimates of expected future experience with respect to rates of mortality, disability, termination, retirement, rate or rates of investment income and salary increases. Decrement estimates (rates of mortality, disability, termination and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic estimates (salary increases and investment income) consist of the underlying rates in an inflation-free environment plus a provision for a long-term average rate of inflation.

Experience Gain (Loss). The difference between actual actuarial costs and estimated actuarial costs -- during the period between two valuation dates.

Funding Value of Assets. The actuarial value of assets used to determine contribution amounts.

Normal Cost. The actuarial cost allocated to the current year by the actuarial cost method. Sometimes referred to as "current service cost."

Unfunded Actuarial Accrued Liability. The difference between the actuarial accrued liability and the actuarial value of system assets. Sometimes referred to as "unfunded past service liability," "unfunded accrued liability" or "unfunded supplemental present value."

Most retirement systems have an unfunded actuarial accrued liability. They arise each time new benefits are added and each time an experience loss is realized.

Unfunded actuarial accrued liability does not represent a debt that is payable today. What is important is the ability to control the amount of unfunded actuarial accrued liability and the trend in its amount (after due allowance for devaluation of the dollar).

SECTION E

ADDITIONAL DISCLOSURE INFORMATION

GASB Statements No. 67 and No. 68 are the accounting standards which replaced GASB Statements No. 25 and No. 27. GASB Statement No. 67 is first effective for fiscal year 2014 and GASB Statement No. 68 is first effective for fiscal year 2015. A separate GASB Statements No. 67 and No. 68 report has been issued outside of this report. This section contains historical GASB Statements No. 25 and No. 27 reporting information for prior fiscal years and illustrative information for fiscal year 2015 and after.

Additional Disclosure Information

Schedule of Funding Progress

(\$ Amounts in Thousands)

Valuation Date	Valuation Assets	AAL*	Funded Ratio	Unfunded AAL*	Member Payroll	Ratio to Payroll
9/30/12 (b)	\$ 147,618	\$ 171,745	86 %	\$ 24,127	\$25,842	93 %
9/30/13	157,145	177,505	89	20,360	25,199	81
9/30/14	167,451	182,407	92	14,956	25,150	59
9/30/15 (b)	177,624	191,986	93	14,362	25,475	56
9/30/16 (b)	185,171	207,945	89	22,774	27,493	83
9/30/17	192,300	215,142	89	22,842	28,563	80
9/30/18	200,087	221,431	90	21,344	29,264	73
9/30/19	208,092	231,143	90	23,051	31,804	72
9/30/20 (b)	216,567	239,844	90	23,277	32,563	71
9/30/21 (b)	229,477	256,316	90	26,839	32,304	83
9/30/22	227,174	265,344	86	38,170	34,291	111

* Actuarial Accrued Liabilities.

(b) After changes in benefit provisions and/or actuarial assumptions.

Schedule of Employer Contributions

Fiscal Year	Aggregate Contribution Rates as Percents of Valuation Payroll	Projected Dollar Contribution Based on Valuation Payroll	Actual Contribution Based on Actual Payroll@
14/15	15.42 %	\$ 4,242,676	\$ 4,093,268
15/16	15.28	4,196,009	4,211,311
16/17	15.44	4,296,532	4,565,884
17/18	16.41	4,878,739	4,909,654
18/19	16.28	5,029,181	5,240,707
19/20	16.03	5,074,604	5,343,484
20/21	15.86	5,456,288	5,328,802
21/22	15.55	5,475,742	5,758,891
22/23	16.99	5,934,799	
23/24	18.81	6,975,127	

@ Actual Employer contributions are determined by applying the Employer's contribution rate to the emerging payroll. Projected funding requirement is based on a stable work force and projected salary increases.



Additional Disclosure Information

Supplementary Information

The information presented in the additional disclosure schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date	September 30, 2022
Actuarial Cost Method	Individual Entry Age
Amortization Method	Level Percent-of-Payroll, Closed
Remaining Amortization Periods#	1-30 years
Asset Valuation Method	4-year smoothed market
Actuarial Assumptions:	
Investment Rate of Return*	7.25%
Projected Salary Increases**	General & U.A.: 4.0% - 6.5%
	Police: 4.0% - 8.0%
* Includes Price Inflation at	2.75%
**Includes Wage Inflation and other general increases at	4.00%
Cost-of-living adjustments	None
Retirees and beneficiaries receiving benefits	566
Terminated plan members entitled to but not yet receiving benefits	38
Active plan members	
- Vested	306
- Non-vested	<u>253</u>
Total	1,163

The periods are in compliance with Florida Statutes and Actuarial Standards of Practice, but do not necessarily produce an Annual Required Contribution with an aggregate amortization of the unfunded actuarial accrued liability under 30 years.



SECTION F

STATE REQUIRED DATA

Actuarial Present Value of Accrued Benefits

(\$ Amounts in Thousands)*

	September 30, 2022				September 30, 2021			
	General Members	Utilities Authority	Police Members	Total	General Members	Utilities Authority	Police Members	Total
(i) Actuarial present value of active member benefits:								
Service retirement	\$39,002	\$47,307	\$26,485	\$ 112,794	\$35,919	\$49,428	\$24,188	\$ 109,535
Vested termination benefits	3,850	5,508	2,476	11,834	3,495	5,581	2,095	11,171
Disability retirement	805	1,085	1,271	3,161	747	1,111	1,101	2,959
Survivor benefits (pre-retirement)	721	1,076	367	2,164	677	1,140	321	2,138
Termination benefits - refunds	305	176	96	577	276	190	92	558
Total	44,683	55,152	30,695	130,530	41,114	57,450	27,797	126,361
(ii) Actuarial present value of terminated vested members	1,723	1,778	389	3,890	1,762	2,272	455	4,489
(iii) Actuarial present value of retired members & beneficiaries:								
Present value of benefits	47,819	77,464	46,220	171,503	46,879	72,015	44,982	163,876
Reserve	0	0	0	0	0	0	0	0
Total	47,819	77,464	46,220	171,503	46,879	72,015	44,982	163,876
(iv) Total actuarial present value of future benefit payments	94,225	134,394	77,304	305,923	89,755	131,737	73,234	294,726
(v) Present value of active member future payroll	83,499	101,642	68,540	253,681	72,886	106,383	57,871	237,140
(vi) Present value of future active member contributions	4,309	6,261	3,537	14,106	3,761	6,553	2,986	13,300
(vii) Active member accumulated contributions	5,051	8,679	3,187	16,917	4,941	9,374	2,945	17,260
(viii) Plan costs for fiscal year beginning October 1, 2023								
Normal costs								
Service pensions	12.67%	11.42%	12.75%		12.85%	11.38%	13.29%	
Disability pensions	0.47%	0.45%	1.01%		0.47%	0.47%	1.01%	
Death-in-service pensions	0.36%	0.40%	0.27%		0.36%	0.41%	0.27%	
Deferred service pensions	2.81%	2.85%	2.30%		2.81%	2.85%	2.32%	
Refunds of member contributions	0.63%	0.74%	0.39%		0.63%	0.74%	0.39%	
Total normal cost	16.94%	15.86%	16.72%		17.12%	15.85%	17.28%	
Payment to amortize unfd act. accr. liab.	4.70%	9.03%	4.60%		3.87%	6.82%	1.77%	
Administrative expenses	0.67%	0.67%	0.67%		0.72%	0.72%	0.72%	
FS112.64(5) Requirement/Temporary Funding Credits	0.41%	1.49%	0.10%		0.58%	0.73%	0.01%	
Amount to be paid by participants	5.16%	6.16%	5.16%		5.16%	6.16%	5.16%	
Expected plan sponsor contribution								
% of payroll	17.56%	20.89%	16.93%	18.81%	17.13%	17.96%	14.62%	16.99%
dollars	2,288	3,238	1,449	6,975	1,945	2,913	1,078	5,935

* Totals may not sum exactly due to rounding.



Actuarial Present Value of Accrued Benefits

(\$ Amounts in Thousands)*

	September 30, 2022				September 30, 2021			
	General	Utilities	Police	Total	General	Utilities	Police	Total
	Members	Authority	Members		Members	Authority	Members	
Actuarial Present Value of Accrued Benefits (calculated in accordance with FASB Statement No. 35)								
(i) Vested accrued benefits								
Retired members and beneficiaries	\$ 47,819	\$ 77,464	\$ 46,220	\$ 171,503	\$ 46,879	\$ 72,015	\$ 44,982	\$ 163,876
Terminated members	1,723	1,778	389	3,890	1,762	2,272	455	4,489
Active members (includes non-forfeitable accum. member contributions)	19,385	25,211	12,675	57,271	18,644	27,665	12,079	58,388
Total	\$ 68,927	\$ 104,453	\$ 59,284	\$ 232,664	\$ 67,285	\$ 101,952	\$ 57,516	\$ 226,753
(ii) Non-vested accrued benefits	2,675	2,310	1,321	6,306	2,087	2,474	1,125	5,686
(iii) Total actuarial p.v. of accrued benefits	\$ 71,602	\$ 106,763	\$ 60,605	\$ 238,970	\$ 69,372	\$ 104,426	\$ 58,641	\$ 232,439
(iv) Actuarial p.v. of accrued benefits at begin. of year	\$ 69,372	\$ 104,426	\$ 58,641	\$ 232,439	\$ 65,345	\$ 98,190	\$ 55,380	\$ 218,915
(v) Changes attributable to:								
Amendments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Assumption change	-	-	-	-	1,758	2,594	1,452	5,804
Operation of decrements	7,235	9,793	6,134	23,162	6,954	10,506	5,828	23,288
Benefit payments	(5,005)	(7,456)	(4,170)	(16,631)	(4,685)	(6,864)	(4,019)	(15,568)
Other	-	-	-	-	-	-	-	-
(vi) Net change	2,230	2,337	1,964	6,531	4,027	6,236	3,261	13,524
(vii) Actuarial p.v. of Accr. benefits at end of year	\$ 71,602	\$ 106,763	\$ 60,605	\$ 238,970	\$ 69,372	\$ 104,426	\$ 58,641	\$ 232,439

* Totals may not sum exactly due to rounding.

Reconciliation of Membership Data

	<u>From 10/1/21 To 9/30/22</u>	<u>From 10/1/20 To 9/30/21</u>
A. Active Members		
1. Number Included in Last Valuation	555	570
2. New Members Included in Current Valuation	86	60
3. Non-Vested Employment Terminations	(56)	(36)
4. Vested Employment Terminations	(1)	(8)
5. Service Retirements	(24)	(24)
6. Disability Retirements	(1)	(2)
7. Deaths	0	(5)
8. Other	0	0
9. Number Included in this Valuation	559	555
B. Terminated Vested Members		
1. Number Included in Last Valuation	44	40
2. Additions from Active Members	1	8
3. Lump Sum Payments	(2)	(1)
4. Payments Commenced	(5)	(3)
5. Deaths	0	0
6. Other	0	0
7. Number Included in this Valuation	38	44
C. Service Retirees, Disability Retirees and Beneficiaries		
1. Number Included in Last Valuation	554	534
2. Additions from Active Members	25	26
3. Additions from Terminated Vested Members	5	3
4. Removals Resulting in No Further Payments	(21)	(19)
5. Deaths Resulting in New Survivor Benefits	3	10
6. Other	0	0
7. Number Included in this Valuation	566	554



March 7, 2023

Ms. Johnna Morris, MBA, CGFO, CPPT
Director of Finance
City of Fort Pierce Retirement and Benefit System
100 North U.S. 1
Fort Pierce, Florida 34950

Dear Ms. Morris:

Enclosed are 11 copies of the September 30, 2022 Annual Actuarial Valuation of the City of Fort Pierce Retirement and Benefit System.

As directed by the Board, we have sent a copy directly to the following:

DiBartolomeo, McBee, Hartley & Barnes, P.A.

One copy should be sent, within 60 days to:

Bureau of Local Retirement Systems
Division of Retirement
P.O. Box 9000
Tallahassee, Florida 32315-9000

Office of Municipal Police Officers'
& Firefighters' Retirement Funds
P.O. Box 3010
Tallahassee, Florida 32315-3010

We welcome your questions and comments.

Sincerely yours,
Gabriel, Roeder, Smith & Company

A handwritten signature in black ink that reads "Brad Lee Armstrong". The signature is fluid and cursive, with a long horizontal stroke at the end.

Brad Lee Armstrong, ASA, EA, FCA, MAAA

BLA:dj
Enclosures

Retirement Board

Meeting Date: 03/16/2023

Re:

Information

SUBJECT:

CONSENT AGENDA

Attachments

March Consent Agenda

Form Review

Form Started By: Junelly Jimenez-Sabastiano

Started On: 03/08/2023 01:49 PM

Final Approval Date: 03/08/2023

CONSENT AGENDA
 REFUND OF MEMBER CONTRIBUTIONS
 MARCH 2023
 RETIREMENT BOARD MEETING

<u>UA</u>	<u>AGENCY</u>	<u>PERIOD</u>	<u>DATE OF TERMINATION</u>	<u>DATE OF REFUND</u>	<u>TOTAL AMOUNT OF REFUND</u>	<u>TAX DEBIT</u>	<u>RE-PAYMENT</u>	<u>NET AMOUNT</u>	<u>CHECK NUMBER</u>
STEWART, ALAN	CITY	5	10/26/2022	2/13/2023	\$6,098.87	\$1,219.77	\$0.00	\$4,879.10	407076
DAVIS, CHRISTOPHER	POLICE	5	1/19/2023	2/13/2023	\$34,348.27	\$6,869.66	\$0.00	\$27,478.61	407077
LEPESKA, GLEN	UA	5	10/7/2022	2/13/2023	\$15,205.13	\$3,041.03	\$0.00	\$12,164.10	407078
TOTAL:					\$55,652.27	\$11,130.46	-	\$44,521.81	

Retirement Board

Meeting Date: 03/16/2023

Re:

Information

SUBJECT:

MISCELLANEOUS

Attachments

Financial Report Dec 2022

Form Review

Form Started By: Junelly Jimenez-Sabastiano

Started On: 03/08/2023 11:52 AM

Final Approval Date: 03/08/2023

CITY OF FORT PIERCE
RETIREMENT AND BENEFIT SYSTEM
FINANCIAL REPORT
December 31, 2022

	December 31, 2021	December 31, 2022
Beginning Market Balance	246,661,634	185,475,614 *
Plus Income:		
Investments Earnings	917,557	1,696,447
Unrealized Gains on Investments	8,546,830	16,300,639
Total Investments	9,464,387	17,997,086
Employer Contributions	1,289,316	1,748,259
Employee Contributions	464,378	576,895
Total Contributions	1,753,694	2,325,154
Total Receipts	11,218,081	20,322,240
Less Expenses:		
Investment Expenses	137,823	2,805
Professional Fees	10,245	90,119
Administrative Expenses	54,180	48,305
Member Refunds	97,218	65,945
Retiree Benefits	4,012,435	4,338,827
Total Expenses	4,311,901	4,546,001
Ending Market Balance	253,567,814	201,251,852
	*Unaudited	*Unaudited