



April 17, 2025

Mr. James A. Potvin  
Executive Director  
Employees' Retirement System of Georgia  
Two Northside 75, Suite 300  
Atlanta, GA 30318-7701

Dear Mr. Potvin:

Enclosed is the "Employees' Retirement System of Georgia Report of the Actuary on the Valuation Prepared as of June 30, 2024".

The valuation indicates that employer contributions for the fiscal year ending June 30, 2027 at the rate 24.53% of compensation for Old Plan Members, 29.28% of compensation for New Plan Members and 25.51% of compensation for GSEPS Members are sufficient to support the benefits of the System. The valuation takes into account the effect of all amendments to the System enacted through the 2024 session of the General Assembly.

Please let us know if there are any questions concerning the report.

Respectfully submitted,

A handwritten signature in blue ink that reads 'Edward J. Koebel'.

Edward J. Koebel, EA, FCA, MAAA  
Chief Executive Officer

A handwritten signature in blue ink that reads 'Ben Mobley'.

Ben Mobley, ASA, FCA, MAAA  
Consulting Actuary

Enclosure

# **Employees' Retirement System of Georgia**



## **Actuarial Valuation Report**

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**Prepared as of June 30, 2024**



April 17, 2025

Board of Trustees  
Employees' Retirement System of Georgia  
Two Northside 75, Suite 300  
Atlanta, GA 30318-7701

Attention: Mr. James Potvin, Executive Director

Members of the Board:

Section 47-2-26 of the law governing the operation of the Employees' Retirement System (ERS) of Georgia provides that the actuary shall make annual valuations of the contingent assets and liabilities of the Retirement System on the basis of regular interest and the tables last adopted by the Board of Trustees. We have submitted the report giving the results of the actuarial valuation of the System prepared as of June 30, 2024. The report indicates that annual employer contributions at the rate of 24.53% of compensation for Old Plan Members, 29.28% of compensation for New Plan Members, and 25.51% of compensation for GSEPS Members for the fiscal year ending June 30, 2027 are sufficient to support the benefits of the System.

In preparing the valuation, the actuary relied on data provided by the System. While not verifying data at the source, the actuary performed tests for consistency and reasonableness. The valuation results depend on the integrity of the data. If any of the information is inaccurate or incomplete, our results may be different and our calculations may need to be revised. The complete cooperation of the Retirement System staff in furnishing materials requested is hereby acknowledged with appreciation. Our firm, as actuary, is responsible for all of the actuarial trend data in the financial section of the annual report and the supporting schedules in the actuarial section of the annual report.

In our opinion, the valuation is complete and accurate, and the methodology and assumptions are reasonable as a basis for the valuation. The valuation takes into account the effect of all amendments to the System enacted through the 2024 session of the General Assembly.

In addition, the results of the valuation reflect an actual cost-of-living adjustment (COLA) of 0.25% for certain retirees and beneficiaries effective July 1, 2024, rather than the anticipated 1.05% COLA.

Effective with the June 30, 2022 valuation, the assumed rate of return will be reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation. The assumed rate of return may not decrease below 7.00% net of investment expenses. **Since the actual rate of return for the year ending June 30, 2024 was greater than 7.10%, the assumed rate of return used in the current valuation was decreased from 7.10% to 7.00%.**



April 17, 2025  
Board of Trustees  
Page 2

The System is funded on an actuarial reserve basis. The actuarial assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the System and to reasonable expectations of anticipated experience under the System. The assumptions and methods used for funding and financial reporting purposes meet the parameters set by Actuarial Standards of Practice (ASOPs). The funding objective of the plan is that contribution rates over time will remain level as a percent of payroll.

The valuation method used is the entry age normal cost method. The normal contribution rate to cover current cost has been determined as a level percent of payroll. Gains and losses are reflected in the total unfunded accrued liability which is being amortized on a level dollar basis in accordance with the funding policy adopted by the Board.

The Plan and the employers are required to comply with the financial reporting requirements of GASB Statements No. 67 and 68. The necessary disclosure information is provided in separate supplemental reports.

We have provided the following information and supporting schedules for the Actuarial Section of the Annual Comprehensive Financial Report:

- Summary of Actuarial Assumptions
- Schedule of Active Members
- Schedule of Funding Progress
- Schedule of Retirees Added to and Removed from Rolls
- Analysis of Change in Unfunded Accrued Liability
- Solvency Test Results

The System is being funded in conformity with the minimum funding standard set forth in Code Section 47-20-10 of the Public Retirement Systems Standards Law and the funding policy adopted by the Board. In our opinion the System is operating on an actuarially sound basis. Assuming that contributions to the System are made by the employer from year to year in the future at the rates recommended on the basis of the successive valuations, the continued sufficiency of the retirement fund to provide the benefits called for under the System may be safely anticipated.



April 17, 2025  
Board of Trustees  
Page 3

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the System and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

In order to prepare the results in this report, we have utilized actuarial models that were developed to measure liabilities and develop actuarial costs. These models include tools that we have produced and tested, along with commercially available valuation software that we have reviewed to confirm the appropriateness and accuracy of the output. In utilizing these models, we develop and use input parameters and assumptions about future contingent events along with recognized actuarial approaches to develop the needed results.

Future actuarial results may differ significantly from the current results 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; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

The actuarial computations presented in this report are for purposes of determining the recommended funding amounts for the System. Use of these computations for purposes other than meeting these requirements may not be appropriate.

Respectfully submitted,

Edward J. Koebel, EA, FCA, MAAA  
Chief Executive Officer

Ben Mobley, ASA, FCA, MAAA  
Consulting Actuary



## TABLE OF CONTENTS

Section	
I	Summary of Principal Results ..... 1
II	Membership ..... 3
III	Assets ..... 5
IV	Comments on Valuation..... 6
V	Contributions Payable by Employers ..... 8
VI	Accounting Information ..... 9
VII	Experience ..... 11
VIII	Risk Assessment ..... 13
Schedule	
A	Valuation Balance Sheet..... 17
B	Development of Actuarial Value of Assets ..... 19
C	Summary of Receipts and Disbursements..... 20
D	Actuarial Assumptions and Methods..... 21
E	Actuarial Cost Method..... 27
F	Funding Policy ..... 28
G	Amortization of UAAL..... 35
H	Summary of Benefit Provisions Evaluated ..... 39
I	Tables of Membership Data..... 45
J	Special Contribution Rates ..... 48
K	Comprehensive Financial Report Schedules ..... 49





## SECTION I – SUMMARY OF PRINCIPAL RESULTS

1. For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized below (all dollar amounts are in thousands):

Valuation Date	June 30, 2024	June 30, 2023
Number of active members	56,833	54,781
Annual earnable compensation	\$ 3,168,504	\$ 2,913,330
Number of retired members and beneficiaries	55,133	54,688
Annual allowances*	\$ 1,454,283	\$ 1,443,255
Number of deferred vested members	6,635	6,839
Annual allowances	\$ 82,604	\$ 83,475
Assets:		
Fair Value	\$ 16,681,931	\$ 14,749,438
Actuarial Value	16,215,793	15,033,459
<b>Valuation Interest Rate</b>	<b>7.00%</b>	<b>7.10%</b>
Unfunded actuarial accrued liability	\$ 5,156,679	\$ 5,860,477
Blended Amortization period (years)	10.9	15.3
Funded Ratio based on Actuarial Value of Assets	75.9%	72.0%
<b>Contribution Rates for Fiscal Year Ending</b>	<b>June 30, 2027</b>	<b>June 30, 2026</b>
Actuarially Determined Employer Contribution Rates (ADEC):		
Old Plan (employed prior to 7/1/1982)		
Initial Normal Rate**	7.38%	7.16%
Employer Rate Paid on Behalf of Employee	<u>(4.75)</u>	<u>(4.75)</u>
Normal Rate**	2.63%	2.41%
Accrued Liability Rate	<u>21.90%</u>	<u>21.99%</u>
Total	24.53%	24.40%
New Plan (employed 7/1/1982 through 12/31/2008)		
Normal Rate**	7.38%	7.16%
Accrued Liability Rate	<u>21.90%</u>	<u>21.99%</u>
Total	29.28%	29.15%
GSEPS (employed on and after 1/1/2009)		
Normal Rate**	3.61%	3.52%
Accrued Liability Rate	<u>21.90%</u>	<u>21.99%</u>
Total	25.51%	25.51%

\* Does not reflect the COLAs granted by the Board effective July 1, 2024 and July 1, 2023.

\*\* The normal contribution rate includes administrative expenses.





## SECTION I – SUMMARY OF PRINCIPAL RESULTS

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2. The major benefit and contribution provisions of the System are summarized in Schedule H. The valuation takes into account the effect of amendments of the System enacted through the 2024 session of the General Assembly. The valuation reflects that the Board granted a 0.25% cost-of-living adjustment (COLA) for certain retirees and beneficiaries effective July 1, 2024, rather than the anticipated 1.05% COLA.
3. The Funding Policy as adopted by the Board on April 21, 2022 is shown in Schedule F.
4. Schedule D of this report outlines the full set of actuarial assumptions used to prepare the current valuation. Effective with the June 30, 2022 valuation, the assumed rate of return will be reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation. The assumed rate of return may not decrease below 7.00% net of investment expenses. **Since the actual rate of return for the year ending June 30, 2024 was greater than 7.10%, the assumed rate of return used in the current valuation was decreased from 7.10% to 7.00%.**
5. In addition, the funding policy provides that the Actuarial Accrued Liability and Normal Cost of the System will include a prefunded variable Cost-of-Living Adjustment (COLA) for eligible retirees and beneficiaries of the System. Under the policy, future COLAs are provided through a profit-sharing mechanism using the System's asset performance. More information, including definitions and the methodology in determining the annual COLA rate, is provided in the Appendix of the Funding Policy in Schedule F of this report.
6. The entry age actuarial cost method was used to prepare the valuation. Schedule E contains a brief description of this method.
7. Comments on the valuation results as of June 30, 2024 are given in Section IV and further discussion of the employer contribution levels is set out in Section V.
8. We have prepared the Solvency Test and the Schedule of Retirants Added to and Removed from Rolls for the System's Annual Comprehensive Financial Report. These tables are shown in Schedule K.
9. The funded ratio shown in the Summary of Principal Results is the ratio of the actuarial value of assets to the accrued liability and would be different if based on fair value of assets. The funded ratio is an indication of progress in funding the promised benefits. Since the ratio is less than 100%, there is a need for additional contributions toward payment of the unfunded actuarial accrued liability. In addition, this funded ratio does not have any relationship to measuring sufficiency if the plan had to settle its liabilities.







## SECTION II – MEMBERSHIP

1. Data regarding the membership of the System for use as a basis for the valuation were furnished by the Retirement System office. The following table shows the number of active members, their annual compensation and average annual compensation as of June 30, 2024 on whose account benefits may be payable under the Retirement System.

### THE NUMBER, ANNUAL COMPENSATION AND AVERAGE ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF JUNE 30, 2024

GROUP	NUMBER	ANNUAL COMPENSATION (\$1,000's)	AVERAGE ANNUAL COMPENSATION
Old Plan	7	\$ 1,140	\$ 162,857
New Plan	14,141	949,224	67,126
GSEPS	<u>42,685</u>	<u>2,218,140</u>	<u>51,965</u>
Total	56,833	\$ 3,168,504	\$ 55,751

2. Data was provided by the Retirement System for inactive members who are eligible for deferred vested benefits. The valuation included 6,635 deferred vested members with annual allowances totaling \$82,604,102. In addition, there are 68,951 inactive non-vested members included in the valuation entitled to a refund of member contributions.





## SECTION II – MEMBERSHIP

3. The following table shows the number of retired members and beneficiaries on the roll as of June 30, 2024, together with the amount of their annual retirement allowances payable under the System as of that date.

**THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES  
OF RETIRED MEMBERS AND BENEFICIARIES RECEIVING BENEFITS  
AS OF JUNE 30, 2024**

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES* (\$1,000's)
Service Retirements	43,242	\$ 1,192,879
Disability Retirements	5,175	152,183
Beneficiaries of Deceased Members	<u>6,716</u>	<u>109,221</u>
Total	55,133	\$ 1,454,283

\* Does not reflect the COLA granted by the Board effective July 1, 2024.





## SECTION III – ASSETS

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1. The retirement law provides for the maintenance of two funds for the purpose of recording the financial transactions of the System; namely, the Annuity Savings Fund and the Pension Accumulation Fund (all amounts are in thousands).

- (a) Annuity Savings Fund

The Annuity Savings Fund is the fund to which are credited all contributions made by members together with regular interest thereon. When a member retires, or if a death benefit allowance becomes payable to his beneficiary, his accumulated contributions are transferred from the Annuity Savings Fund to the Pension Accumulation Fund. The annuity which these contributions provide is then paid from the Pension Accumulation Fund. On June 30, 2024, the value of assets credited to the Annuity Savings Fund amounted to \$528,140.

- (b) Pension Accumulation Fund

The Pension Accumulation Fund is the fund to which all income from investments and all contributions made by employers of members of the System and by the State for members of local retirement funds are credited. All retirement allowance and death benefit allowance payments are disbursed from this fund. Upon the retirement of a member, or upon his death if a death benefit allowance is payable, his accumulated contributions are transferred from the Annuity Savings Fund to this fund to provide the annuity portion of the allowance. On June 30, 2024, the fair value of assets credited to the Pension Accumulation Fund amounted to \$16,153,791.

2. As of June 30, 2024, the total fair value of assets amounted to \$16,681,931 as reported by the Auditor of the System.
3. The actuarial value of assets used for the current valuation was determined to be \$16,215,793 based on a five-year smoothing of investment gains and losses. Schedule B shows the development of the actuarial value of assets as of June 30, 2024.
4. Schedule C shows receipts and disbursements of the System for the two years preceding the valuation date and a reconciliation of the fund balances at fair value.





## SECTION IV – COMMENTS ON VALUATION

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1. Schedule A of this report contains the valuation balance sheet which shows the present and prospective assets and liabilities of the System as of June 30, 2024 (all amounts are in thousands). Schedule A also shows a breakdown of the total and accrued liabilities of the System by Plan.
2. The valuation balance sheet shows that the System has total prospective liabilities of \$22,395,601, of which \$15,207,623 is for the prospective benefits payable on account of present retired members, beneficiaries of deceased members, and members entitled to deferred vested benefits, and \$7,187,978 is for the prospective benefits payable on account of present active members. Against these liabilities, the System has total present assets for valuation purposes of \$16,215,793 as of June 30, 2024. The difference of \$6,179,808 between the total liabilities and the total present assets represents the present value of contributions to be made in the future.
3. The employer's contributions to the System consist of normal contributions and accrued liability contributions. The valuation indicates that employer normal contributions at the rate of 2.63% (7.38% less 4.75% Employer paid on behalf of Employee) of compensation for Old Plan members, 7.38% of compensation for New Plan members, and 3.61% of compensation for GSEPS members are required.
4. Administrative expenses each year are assumed to be 0.35% of payroll and have been added to the normal contribution rates shown in 3. above.
5. Prospective employer and employee normal contributions (excluding administrative expenses) have a present value of \$1,023,129. When this amount is subtracted from \$6,179,808, which is the present value of the total future contributions to be made in the future, there remains \$5,156,679 as the unfunded actuarial accrued liability.
6. The funding policy adopted by the Board, as shown in Schedule F, provides that the unfunded actuarial accrued liability as of June 30, 2021 (Transitional UAAL) will be amortized as a level dollar amount over a closed 20-year period. In each subsequent valuation, all benefit changes, assumption and method changes, and experience gains and/or losses that have occurred since the previous valuation will combine to determine a New Incremental UAAL. Each New Incremental UAAL will be amortized as a level dollar amount over a closed 20-year period from the date it is established.
7. The funding policy also provides that the Actuarial Accrued Liability and Normal Cost of the System will include a prefunded variable Cost-of-Living Adjustment (COLA) for eligible retirees and beneficiaries of the System. Under this structure, future COLAs are provided through a profit-sharing mechanism using the System's asset performance. More information, including definitions and the methodology in determining the annual COLA rate, is provided in the Appendix of the Funding Policy in Schedule F of this report.





## SECTION IV – COMMENTS ON VALUATION

8. We have determined that an accrued liability contribution rate of 21.90% of active member's compensation will comply with the Board's funding policy for this year's valuation.
9. Schedule G of this report shows the amortization schedule for the Transitional UAAL.
10. The following table shows the components of the total UAAL and the derivation of the UAAL contribution rate in accordance with the funding policy (all dollar amounts are in thousands):

**TOTAL UAAL AND UAAL CONTRIBUTION RATE**  
**(\$1,000's)**

	Initial Balance UAAL	Remaining Balance UAAL	Remaining Amortization Period	Amortization Payment
Transitional	\$ 5,702,095	\$ 5,191,888	10.9	\$ 695,953
New Incremental 6/30/2022	62,477	59,371	18.0	5,902
New Incremental 6/30/2023	394,278	384,765	19.0	37,227
New Incremental 6/30/2024	(479,345)	(479,345)	20.0	(45,247)
Total		\$ 5,156,679		\$ 693,835
Blended Amortization Period (years)				10.9
Estimated Payroll				\$ 3,168,504
UAAL Contribution Rate				21.90%





## SECTION V – CONTRIBUTIONS PAYABLE BY EMPLOYERS

1. The following table summarizes the employer contribution rates, which were determined by the June 30, 2024 valuation and are recommended for use.

### ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION RATES (ADEC) FOR FISCAL YEAR ENDING JUNE 30, 2027

	Old Plan	New Plan	GSEPS
Normal Rate			
Initial Normal Rate*	7.38%	7.38%	3.61%
Employer Paid on behalf of Employee	<u>(4.75)</u>	<u>(0.00)</u>	<u>(0.00)</u>
Employer Normal Rate	2.63%	7.38%	3.61%
Accrued Liability Rate	21.90%	21.90%	21.90%
Total	24.53%	29.28%	25.51%

\* Includes administrative expense assumption rate of 0.35%.

2. Schedule J summarizes the contribution rates required for groups of members with special benefits.





## SECTION VI – ACCOUNTING INFORMATION

The information required under the Governmental Accounting Standards Board (GASB) Statements No. 67 and 68 will be issued in separate reports. The following information is provided for informational purposes only.

- The following is a distribution of the number of employees by type of membership.

### NUMBER OF ACTIVE AND RETIRED MEMBERS AS OF JUNE 30, 2024

GROUP	NUMBER
Retirees and beneficiaries currently receiving benefits	55,133
Terminated employees entitled to benefits but not yet receiving benefits	75,586
Active plan members	<u>56,833</u>
Total	187,552

- The schedule of funding progress is shown below.

### SCHEDULE OF FUNDING PROGRESS (Dollar amounts in thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b - a)	Funded Ratio (a / b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b - a) / c)
6/30/2019	\$ 13,481,219	\$ 17,829,220	\$ 4,348,001	75.6%	\$ 2,611,965	166.5%
6/30/2020#	13,556,622	18,375,797	4,819,175	73.8	2,612,773	184.4
6/30/2021*	14,383,600	20,085,695	5,702,095	71.6	2,477,691	230.1
6/30/2022	14,632,266	20,260,756	5,628,490	72.2	2,572,445	218.8
6/30/2023*	15,033,459	20,893,936	5,860,477	72.0	2,913,330	201.2
6/30/2024*	16,215,793	21,372,472	5,156,679	75.9	3,168,504	162.7

\* Reflects change in assumed rate of return

# Reflects changes in actuarial assumptions





## SECTION VI – ACCOUNTING INFORMATION

3. The following shows the schedule of employer and non-employer contributions (all dollar amounts are in thousands).

<u>Year Ending</u>	<u>Actuarially Determined Employer Contribution</u>	<u>Percentage Contributed</u>
6/30/2019	\$ 649,209	100.0%
6/30/2020	643,857	100.0
6/30/2021	615,967	100.0
6/30/2022	619,723	100.0
6/30/2023	878,158	100.0
6/30/2024	1,389,582	100.0

4. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at June 30, 2024. Additional information as of the latest actuarial valuation follows.

Valuation Date	6/30/2024
Actuarial cost method	Entry age
Amortization method	Level dollar, closed
Remaining amortization period	10.9 years
Asset valuation method	5-year smoothed fair
Actuarial Assumptions	
Investment rate of return*	7.00%
Projected salary increases*	3.00% - 6.75%
Cost-of-Living adjustments	1.05% annually

\* Includes inflation at 2.50%







## SECTION VII – EXPERIENCE

1. Section 47-2-26 of the act governing the operation of the System provides that as an aid to the Board in adopting service and mortality tables, the actuary will prepare an experience investigation at least once in each five-year period. The last experience investigation was prepared for the five-year period ending June 30, 2019, and based on the results of the investigation, various new actuarial assumptions and methods were adopted by the Board on December 17, 2020. The next experience investigation will be prepared for the period July 1, 2019 through June 30, 2024.
2. The following table shows the estimated gain or loss from various factors that resulted in a decrease of \$703,798,000 in the unfunded actuarial accrued liability (UAAL) from \$5,860,477,000 to \$5,156,679,000 during the fiscal year ending June 30, 2024.
3. The breakdown of the major reasons for the \$703.8 million decrease in the UAAL are as follows:
  - There was an increase in the UAAL of \$211.3 million due to the decrease in the assumed valuation interest rate from 7.10% to 7.00%.
  - Salary increases were greater than expected resulting in an increase in the UAAL of \$141.1 million. Even though this means there was a negative impact on liabilities measured in this valuation, since contributions are made to ERS as a percentage of salary, the resulting higher future payroll can also mean more contribution dollars coming into the System in future years which can potentially help pay off the UAAL in a shorter period of time.
  - In addition, there were losses due to turnover and retirement, which increased the UAAL by another \$73.6 million.
  - Partially offsetting these increases was a decrease in the UAAL of \$897.1 million because the accrued liability contribution was greater than the interest on the prior year UAAL. Some of this was due to the additional contributions made to ERS during the fiscal year ending June 30, 2024 and the rest due to the level dollar funding method used to amortize the UAAL (more payment applied to principal balance).
  - In addition, the return on the actuarial value of assets was greater than the assumed rate for the period of 7.10%, resulting in a decrease of \$202.2 million due to valuation asset growth.
  - Finally, there was also a decrease in the UAAL of \$109.0 million due to the actual 0.25% COLA provided to certain retirees and beneficiaries as of July 1, 2024, rather than the anticipated 1.05% COLA.





## SECTION VII – EXPERIENCE

### ANALYSIS OF THE CHANGE IN UNFUNDED ACTUARIAL ACCRUED LIABILITY

(in millions of dollars)

ITEM	AMOUNT OF INCREASE/ (DECREASE)
Interest (7.10%*) added to previous UAAL	\$ 416.1
Accrued liability contribution	(1,313.2)
Experience:	
Valuation asset growth	(202.2)
Pensioners' mortality	(6.5)
Turnover and retirements	73.6
New entrants	15.3
Salary increases	141.1
Method changes	0.0
Amendments (0.25% COLA)	(109.0)
Assumption change	211.3
Data changes	69.7
Miscellaneous changes	0.0
Total	\$ (703.8)

\* Assumed rate of return from previous period





## SECTION VIII – RISK ASSESSMENT

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### *Overview*

Actuarial Standards of Practice (ASOP) No. 51, issued by the Actuarial Standards Board, provides guidance on assessing and disclosing risks related to pension plan funding. This guidance is binding on all credentialed actuaries practicing in the United States. This standard was issued as final in September 2017 with application to measurement dates on or after November 1, 2018.

The term “risk” frequently has a negative connotation, but from an actuarial perspective, it may be thought of as simply the fact that what actually happens in the real world will not always match what was expected, based on actuarial assumptions. Of course, when actual experience is better than expected, the favorable risk is easily absorbed. The risk of unfavorable experience will likely be unpleasant, and so there is an understandable focus on aspects of risk that are negative.

Risk usually can be reduced or eliminated at some cost. Consumers, for example, buy auto and home insurance to reduce the risk of accidents or catastrophes. Another way to express this concept, however, is that there is generally some reward for assuming risk. Thus, retirement plans invest not just in US Treasury bonds which have almost no risk, but also in equities which are considerably riskier – because they have an expected reward of a higher return that justifies the risk.

Under ASOP 51, the actuary is called on to identify the significant risks to the pension plan and provide information to help those sponsoring and administering the plan understand the implications of these risks. In this section, we identify some of the key risks for the System and provide information to help interested parties better understand these risks.





## SECTION VIII – RISK ASSESSMENT

### *Investment Risk*

The investment return on assets is the most obvious risk – and usually the largest risk – to funding a pension plan. To illustrate the magnitude of this risk, the following chart shows the Asset Volatility Ratio (AVR), defined as the fair value of assets divided by covered payroll.

(\$ in thousands)

Valuation	Fair Value of Assets	Covered Payroll	Asset Volatility Ratio
2019	\$13,617,472	\$2,611,965	5.21
2020	\$13,502,286	\$2,612,773	5.17
2021	\$16,547,905	\$2,477,691	6.68
2022	\$13,830,510	\$2,572,445	5.38
2023	\$14,749,438	\$2,913,330	5.06
2024	\$16,681,931	\$3,168,504	5.26

The asset volatility ratio is especially useful to compare across plans or through time. It is also frequently useful to consider how the AVR translates into changes in the Required Contribution Rate (actuarially determined employer contribution rate). For example, in the table below with an AVR of 5.00, if the market value return is 10% below assumed, or negative 3.00% (7.00% minus 10.00%) for the System, there will be an increase in the Required Contribution Rate of 0.94% of payroll in the first year. Without asset smoothing or without returns above the expected return in the next four years, the impact on the Required Contribution Rate would be 4.72%. A higher AVR would produce more volatility in the Required Contribution Rate.

AVR	Unsmoothed Amortization	Smoothed Amortization
4.0	3.78%	0.76%
5.0	4.72%	0.94%
6.0	5.66%	1.13%





## SECTION VIII – RISK ASSESSMENT

### ***Sensitivity Measures***

Valuations are generally performed with a single set of assumptions that reflects the best estimate of future conditions, in the opinion of the actuary and typically the governing board. Note that under actuarial standards of practice, the set of economic assumptions used for funding must be consistent. To enhance the understanding of the importance of an assumption, a sensitivity test can be performed where the valuation results are recalculated using a different assumption or set of assumptions.

The following tables contains the key measures for the System using the valuation assumption for investment return of 7.00%, along with the results if the assumption were 6.00% or 8.00%. In this analysis, only the investment return assumption is changed. Consequently, there may be inconsistencies between the investment return and other economic assumptions such as inflation or payroll increases. In addition, simply because the valuation results under alternative assumptions are shown here, it should not be implied that CavMac believes that either assumption (6.00% or 8.00%) would comply with actuarial standards of practice.

(\$ in thousands)

As of June 30, 2024	Current Discount Rate (7.0%)	-1% Discount Rate (6.0%)	+1% Discount Rate (8.0%)
Accrued Liability	\$21,372,472	\$23,704,120	\$19,413,790
Unfunded Liability	\$5,156,679	\$7,488,327	\$3,197,997
Funded Ratio (AVA)	75.9%	68.4%	83.5%
ADEC Rate*			
Old Plan	24.53%	27.15%	12.37%
New Plan	29.28%	31.90%	17.12%
GSEPs	25.51%	26.68%	14.38%

\* Contribution rates are determined based on the Board's current Funding Policy.





## SECTION VIII – RISK ASSESSMENT

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### ***Mortality Risk***

The mortality assumption is a significant assumption for valuation results, second only to the investment assumption in most situations. The System's mortality assumption utilizes a mortality table (with separate rates for males and females, as well as different rates by status) and a projection scale for how the mortality table is expected to improve through time.

The future, however, is not known, and actual mortality improvements may occur at a faster rate than expected, or at a slower rate than expected (or even decline). Although changes in mortality will affect the benefits paid, this assumption is carefully studied during the regular experience studies that the System conducts so that incremental changes can be made to smoothly reflect unfolding experience. The next experience investigation will be prepared for the period July 1, 2019 through June 30, 2024.

### ***Contribution Risk***

The System is primarily funded by member and employer contributions to the trust fund, together with the earnings on those accumulated contributions. Each year in the valuation, the Required Contribution Rate is determined, based on the System's funding policy. This rate is the sum of the rates for the normal cost for the plan, the amortization of the UAAL, and the administrative expenses. Since the Required Contribution Rate has always been made and that procedure is expected to continue, there is no Contribution Risk at this time.

### ***Liquidation Risk***

Under the revised Actuarial Standards of Practice (ASOP) No. 4 effective for valuations after February 15, 2023, we must now include a low-default-risk obligation measure of the System's liability in our funding valuation report. This is an informational disclosure as described below and would not be appropriate for assessing the funding progress or health of this plan.

This measure uses the unit credit cost method and reflects all the assumptions and provisions of the funding valuation except that the discount rate is derived from considering low-default-risk fixed income securities. We considered the FTSE Pension Discount Curve based on market bond rates published by the Society of Actuaries as of June 30, 2024 and with the 30-year spot rate used for all durations beyond 30. Using these assumptions, we calculate a liability of approximately \$23.2 billion.

This amount approximates the termination liability if the plan (or all covered employment) ended on the valuation date and all of the accrued benefits had to be paid with cash-flow matched bonds. This assurance of funded status and benefit security is typically more relevant for corporate plans than for governmental plans since governments rarely have the need or option to completely terminate a plan.





## SCHEDULE A – VALUATION BALANCE SHEET

### THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA

AS OF JUNE 30, 2024  
(Dollar amounts in thousands)

ACTUARIAL LIABILITIES		
(1) Present value of prospective benefits payable on account of present retired members, beneficiaries of deceased members, and members entitled to deferred vested benefits		
- Service and disability benefits	\$13,532,183	
- Death and survivor benefits	939,491	
- Deferred vested benefits	<u>735,949</u>	
Total		\$15,207,623
(2) Present value of prospective benefits payable on account of present active members		
		<u>7,187,978</u>
(3) TOTAL ACTUARIAL LIABILITIES		<u>\$22,395,601</u>
PRESENT AND PROSPECTIVE ASSETS		
(4) Actuarial value of assets		
		\$16,215,793
(5) Present value of total future contributions = (3)-(4)		
	\$ 6,179,808	
(6) Present value of future member contributions and employer normal contributions		
		1,023,129
(7) Prospective unfunded accrued liability contributions = (5)-(6)		
		<u>5,156,679</u>
(8) TOTAL PRESENT AND PROSPECTIVE ASSETS		<u>\$22,395,601</u>





## SCHEDULE A – VALUATION BALANCE SHEET

### BREAKDOWN OF TOTAL AND ACCRUED LIABILITIES OF THE EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA

AS OF JUNE 30, 2024  
(Dollar amounts in thousands)

	Total Liability	Accrued Liability
Active Members		
Old Plan / New Plan	\$ 5,489,327	\$ 5,124,459
GSEPS	<u>1,698,651</u>	<u>1,040,390</u>
Sub-Total	\$ 7,187,978	\$ 6,164,849
Retirees, Beneficiaries, and Deferred Vested Members		
Old Plan / New Plan	\$ 15,040,652	\$ 15,040,652
GSEPS	<u>96,899</u>	<u>96,899</u>
Sub-Total	\$ 15,137,551	\$ 15,137,551
Supplemental Guaranteed Lifetime Income (SGLI)	1,141	1,141
Inactive members due a refund	<u>68,931</u>	<u>68,931</u>
Total Actuarial Liability	\$ 22,395,601	\$ 21,372,472
Actuarial Value of Assets		<u>16,215,793</u>
Unfunded Actuarial Accrued Liability		\$ 5,156,679

The total liability is the present value of future benefits for all current members as of the valuation date. The accrued liability is the present value of benefits that have been accrued as of the valuation date. Since all inactive members and retirees have accrued their full benefits, the total liability and accrued liability are the same. The difference between the total liability and the accrued liability is the present value of future normal costs for active members.







## SCHEDULE B – DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

(Dollar amounts in thousands)

(1)	Actuarial Value Beginning of Year	\$ 15,033,459
(2)	Fair Value End of Year	\$ 16,681,931
(3)	Fair Value Beginning of Year	\$ 14,749,438
(4)	Cash Flow	
	(a) Contributions	\$ 1,433,708
	(b) Benefit Payments	(1,507,372)
	(c) Administrative Expenses	(10,570)
	(d) Investment Expenses	<u>(10,000)</u>
	(e) Net: (4)(a) + (4)(b) + (4)(c) + (4)(d)	\$ (94,234)
(5)	Investment Income	
	(a) Fair Total: (2) – (3) – (4)(e)	\$ 2,026,727
	(b) Assumed Rate of Return for Current Year	7.10%
	(c) Amount for Immediate Recognition: [(3) x (5)(b)] + [(4)(a) + (4)(b) + (4)(c)] x (5)(b) x 0.5] – (4)(d)	\$ 1,054,220
	(d) Amount for Phased-In Recognition: (5)(a) – (5)(c)	972,507
(6)	Phased-In Recognition of Investment Income	
	(a) Current Year: (5)(d) / 5	\$ 194,501
	(b) First Prior Year	105,711
	(c) Second Prior Year	(603,204)
	(d) Third Prior Year	577,408
	(e) Fourth Prior Year	<u>(52,068)</u>
	(f) Total Recognition of Investment Income	\$ 222,348
(7)	Actuarial Value End of Year: (1) + (4)(e) + (5)(c) + (6)(f)	\$ 16,215,793
(8)	Difference Between Fair & Actuarial Values: (2) – (7)	\$ 466,138
(9)	Rate of Return on Actuarial Value*	8.45%

\* Calculated assuming cash flow occurs in the middle of the year





## SCHEDULE C – SUMMARY OF RECEIPTS AND DISBURSEMENTS

### FAIR VALUE OF ASSETS

	YEAR ENDING	
	June 30, 2024 (\$1,000's)	June 30, 2023 (\$1,000's)
<u>Receipts for the Year</u>		
Contributions:		
Members	\$ 44,116	\$ 41,577
Non-employer	9,307	10,499
Employer	<u>1,380,275</u>	<u>867,659</u>
Subtotal	\$ 1,433,698	\$ 919,735
Administrative Expense Allotment	10	10
Net Investment Earnings	<u>2,016,727</u>	<u>1,503,315</u>
TOTAL	\$ 3,450,435	\$ 2,423,060
<u>Disbursements for the Year</u>		
Benefit Payments	\$ 1,500,601	\$ 1,489,058
Refunds to Members	6,771	5,685
Administration Expense	<u>10,570</u>	<u>9,389</u>
TOTAL	\$ 1,517,942	\$ 1,504,132
<u>Excess of Receipts over Disbursements</u>	\$ 1,932,493	\$ 918,928
<u>Reconciliation of Asset Balances</u>		
Asset Balance as of the Beginning of Year	\$ 14,749,438	\$ 13,830,510
Excess of Receipts over Disbursements	<u>1,932,493</u>	<u>918,928</u>
Asset Balance as of the End of Year	<u>\$ 16,681,931</u>	<u>\$ 14,749,438</u>
Estimated Rate of Return*	13.71%	11.10%

\* Calculated assuming cash flow occurs in the middle of the year





## SCHEDULE D – ACTUARIAL ASSUMPTIONS AND METHODS

Actuarial assumptions and methods adopted by the Board on December 17, 2020. Valuation interest rate adopted by the Board April 21, 2022. The combined effect of the assumptions is expected to have no significant bias.

**VALUATION INTEREST RATE:** 7.00% per annum, compounded annually, net of investment expenses, composed of a 2.50% inflation assumption and a 4.60% real rate of investment return assumption.

### SALARY INCREASES:

Service	Assumed Annual Rate of Salary Increase
1	6.75%
2	5.75
3	5.25
4	5.00
5	4.75
10	4.30
15	4.05
20	3.80
25	3.55
30	3.30
35 & Over	3.00

**RATES OF DISABILITY:** Representative values of the assumed annual rates of disability are as follows.

Age	<u>Non-Law Enforcement</u>		<u>Law Enforcement</u>
	<u>Male</u>	<u>Female</u>	
20	0.000%	0.000%	0.000%
25	0.000	0.000	0.000
30	0.010	0.005	0.050
35	0.040	0.010	0.125
40	0.200	0.085	1.125
45	0.375	0.215	2.625
50	0.625	0.365	3.625
55	0.875	0.565	4.125
60	--	--	--





## SCHEDULE D – ACTUARIAL ASSUMPTIONS AND METHODS

**RATES OF WITHDRAWAL:** Representative values of the assumed annual rates of withdrawal are as follows.

<u>Age</u>	<u>Non-Law Enforcement</u>		
	<u>Years of Service</u>		
	<u>0-4</u>	<u>5-9</u>	<u>10 &amp; Over</u>
<u>Male</u>			
20	40.00%		
25	30.00	16.25%	
30	25.00	12.50	8.00%
35	23.00	10.50	6.25
40	20.00	9.50	4.75
45	20.00	8.50	4.00
50	17.00	7.25	4.50
55	15.00	6.75	4.75
60	14.50	5.50	--
65	14.50	12.50	--
<u>Female</u>			
20	35.00%		
25	27.00	18.00%	
30	23.00	12.50	9.00%
35	20.00	10.25	6.50
40	18.00	9.00	5.25
45	17.00	8.00	4.25
50	16.00	7.50	4.25
55	15.00	7.25	4.25
60	15.50	7.00	--
65	16.50	12.00	--

<u>Age</u>	<u>Law Enforcement</u>	
	<u>Years of Service</u>	
	<u>0-9</u>	<u>10 &amp; Over</u>
20	11.00%	
25	6.50	3.00%
30	5.25	3.00
35	5.25	3.00
40	5.25	2.50
45	5.25	2.50
50	5.25	2.50
55	--	--





## SCHEDULE D – ACTUARIAL ASSUMPTIONS AND METHODS

**RATES OF RETIREMENT:** Representative values of the assumed annual rates of service retirement are as follows.

Age	Non-Law Enforcement Old Plan							
	Early Retirement		Age 60 or 30 years		34 years		More than 34 years	
	Male	Female	Male	Female	Male	Female	Male	Female
50	2.0%	2.0%	7.5%	6.0%	100.0%	100.0%	90.0%	100.0%
52	2.0	2.0	7.5	6.0	100.0	100.0	90.0	100.0
55	3.0	3.5	7.5	10.0	100.0	100.0	75.0	90.0
57	3.0	5.0	10.5	10.0	100.0	100.0	70.0	70.0
60			15.0	20.0	97.5	95.0	40.0	55.0
62			32.0	40.0	97.5	95.0	40.0	65.0
65			35.0	40.0	35.0	40.0	35.0	40.0
67			35.0	35.0	35.0	35.0	35.0	35.0
70			35.0	35.0	35.0	35.0	35.0	35.0
75			100.0	100.0	100.0	100.0	100.0	100.0

Age	Non-Law Enforcement New Plan and GSEPS				Law Enforcement
	Early Retirement		Normal Retirement		
	Male	Female	Male*	Female**	
50	5.0%	3.80%	60.0%	42.0%	75.0%
52	5.0	3.80	50.0	42.0	60.0
55	6.0	5.80	50.0	40.0	15.0
57	6.0	7.30	45.0	37.0	15.0
60			25.0	28.0	30.0
62			37.5	37.5	35.0
65			32.0	33.0	25.0
67			32.0	32.0	25.0
70			30.0	30.0	100.0
75			100.0	100.0	

\* An additional 20% are assumed to retire in the first year eligible for unreduced retirement with 30 years of service before age 60.

\*\* An additional 25% for ages below 53 and 20% for ages 53 to 59 are assumed to retire in the first year eligible for unreduced retirement with 30 years of service before age 60.





## SCHEDULE D – ACTUARIAL ASSUMPTIONS AND METHODS

**RATES OF DEATH BEFORE RETIREMENT:** The Pub-2010 General Employee Table, with no adjustments, projected generationally with the MP-2019 Projection Scale is used for both males and females while in active service. Representative values of the assumed annual rates of mortality while in active service are as follows:

Age	Annual Rates of Death*				
	Males	Females	Age	Males	Females
20	0.0370%	0.0130%	45	0.0980%	0.0560%
25	0.0280	0.0090	50	0.1490	0.0830
30	0.0360	0.0150	55	0.2190	0.1230
35	0.0470	0.0230	60	0.3190	0.1860
40	0.0660	0.0360	65	0.4680	0.2960

\* Base mortality rates as of 2010 before application of the improvement scale

**RATES OF DEATH AFTER RETIREMENT:** The Pub-2010 Family of Tables projected generationally with MP-2019 Projection Scale and with further adjustments are used for post-retirement mortality assumptions as follows:

Participant Type	Membership Table	Set Forward (+)/ Setback (-)	Adjustment to Rates
Service Retirees	General Healthy Annuitant	Male: +1; Female: +1	Male: 105%; Female: 108%
Disability Retirees	General Disabled	Male: -3; Female: 0	Male: 103%; Female: 106%
Beneficiaries	General Contingent Survivors	Male: +2; Female: +2	Male: 106%; Female: 105%





## SCHEDULE D – ACTUARIAL ASSUMPTIONS AND METHODS

Representative values of the assumed annual rates of mortality are as follows:

Age	Annual Rates of Death*					
	Service Retirement		Disability Retirement		Beneficiaries	
	Males	Females	Males	Females	Males	Females
50	0.3371%	0.2516%	1.2576%	1.5720%	0.7918%	0.3843%
55	0.4861	0.3251	1.8725	1.8465	0.9402	0.5334
60	0.6941	0.4493	2.3484	2.0734	1.1978	0.7529
65	1.0532	0.7366	2.7573	2.3914	1.7257	1.1057
70	1.7882	1.2863	3.4536	3.0337	2.7157	1.7000
75	3.1448	2.2799	4.4743	4.2432	4.3036	2.7500
80	5.6427	4.0900	6.0986	6.3674	6.8879	4.6778
85	10.0958	7.6043	8.8220	9.8909	11.3049	8.4315
90	16.9785	13.8596	12.9831	14.4849	18.6083	14.6496

\* Base mortality rates as of 2010 before application of the improvement scale

**ADMINISTRATIVE EXPENSES:** A rate of 0.35% of payroll is added to the normal contribution rate.

**AMORTIZATION METHOD:** Level dollar amortization.

**ASSET METHOD:** Actuarial value, as developed in Schedule B. The actuarial value of assets recognizes a portion of the difference between the fair value of assets and the expected fair value of assets, based on the assumed valuation rate of return. The amount recognized each year is 20% of the difference between fair value and expected fair value.

**DEATH BENEFITS:** It is assumed that 100% of the membership will select a beneficiary with the male three years older than the female.

**VESTED TERMINATION BENEFITS:** It is assumed that 75% of active members who terminate with 10 or more years of service before retirement will receive a benefit beginning at age 60 and 25% will receive a refund of member contributions.

**SICK LEAVE:** Assumed load on service at retirement for the practice of allowing members to convert forfeited sick leave is as follows:

- Old Plan members who retire with 34 years of service – 4.00%
- Old Plan members who retire on normal retirement – 2.00%
- Old Plan members who retire on early retirement – 1.50%
- All New Plan and GSEPS retirements – 3.25%
- All Law Enforcement retirements – 7.00%





## SCHEDULE D – ACTUARIAL ASSUMPTIONS AND METHODS

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**VALUATION METHOD:** Entry age Normal actuarial cost method. See Schedule E for a brief description of this method.

**COST-OF-LIVING ALLOWANCE (COLA):** Beginning July 1, 2022 and each July 1 thereafter, a COLA increase will be determined as described in the Appendix of the Board Funding Policy shown in Schedule F of this report.

The assumed COLA is 1.05% annually and was determined based on the 30-year average annual COLA calculated under the median projection output of a stochastic projection of assets and liabilities prepared using the following parameters:

- For the actual fair value of asset returns, 1,000 annual returns are randomly sampled for each year of the projection period from a normal distribution of returns with a geometric mean return of 7.0% and an annual standard deviation of 12.0%.
- For the Variable COLA model, 1,000 rates of change in the CPI are randomly generated for each year of the projection period from a normal distribution with a geometric mean rate of CPI change of 2.5% and an annual standard deviation of 2.5%.
- The generated rates of return and CPI change are organized into 1,000 scenarios of projected years of rates. We verify the medians of the geometric means and annual standard deviation of the 1,000 generated scenarios is representative of the distributions from which they are generated.
- Valuation results are determined for each of the 1,000 annual scenarios for each year of the projection, including expected annual COLAs following the procedure outlined in the Appendix of the Board Funding Policy shown in Schedule F.







## SCHEDULE E – ACTUARIAL COST METHOD

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1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.00%), of each active member's expected benefit at retirement or death is determined, based on his age, service, sex and compensation. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service, disability or survivor's benefit. Future salary increases are also anticipated. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members and beneficiaries and inactive members to obtain the present value of all expected benefits payable from the System on account of the present group of members and beneficiaries.
2. The employer contributions required to support the benefits of the System are determined following a level funding approach and consist of a normal contribution and an accrued liability contribution.
3. The normal contribution is determined using the "entry age normal" method. Under this method, a calculation is made to determine the uniform and constant percentage rate of employer contribution which, if applied to the compensation of the average new member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.
4. The unfunded accrued liability is determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets held, from the present value of expected benefits to be paid from the System.





## SCHEDULE F – FUNDING POLICY

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The purpose of this Funding Policy is to state the overall objectives for the Employees' Retirement System of Georgia (System), the benchmarks that will be used to measure progress in achieving those goals, and the methods and assumptions that will be employed to develop the benchmarks. It is the intent of the ERS Board of Trustees that the Funding Policy outlined herein will remain unchanged until the objectives below are met.

This Funding Policy supersedes and replaces the Funding policy that was originally adopted by the Board of Trustees on December 19, 2013 and most recently amended on June 18, 2020.

### I. Funding Objectives

The goal in requiring employer and member contributions to the System is to accumulate sufficient assets during a member's employment to fully finance the benefits the member is expected to receive throughout retirement. In meeting this objective, the System will strive to meet the following funding objectives:

- To develop a pattern of contribution rates expressed as a percentage of employer payroll and measured by valuations prepared in accordance with applicable State laws and the principles of practice prescribed by the Actuarial Standards Board.
- To maintain an increasing funded ratio (ratio of actuarial value of assets to actuarial accrued liabilities) that reflects a trend of improved actuarial condition. The long-term objective is to obtain a 100% funded ratio over a reasonable period of future years.
- To maintain adequate asset levels to finance the benefits promised to members and monitor the future demand for liquidity.
- To promote intergenerational equity for taxpayers with respect to contributions required for the benefits provided by the System.

### II. Measures of Funding Progress

To track progress in achieving the System's funding objectives, the following measures will be determined annually as of the actuarial valuation date (with due recognition that a single year's results may not be indicative of long-term trends):

- **Funded Ratio** – The funded ratio, defined as the actuarial value of assets divided by the actuarial accrued liability, should increase over time, before adjustments for changes in benefits, actuarial methods, and/or actuarial adjustments. The target funded ratio will be 100 percent within 20 years of the valuation date for the first valuation conducted following the adoption of this Policy (i.e. the June 30, 2021 valuation date).





## SCHEDULE F – FUNDING POLICY

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- **Unfunded Actuarial Accrued Liability (UAAL)**
  - **Transitional UAAL** – The UAAL established as of the initial valuation date for which this funding policy is adopted (June 30, 2021) shall be known as the Transitional UAAL.
  - **New Incremental UAAL** – Each subsequent valuation will produce a New Incremental UAAL consisting of all benefit, assumption and method changes and experience gains and/or losses that have occurred since the previous valuations.
- **UAAL Amortization Period**
  - The Transitional UAAL will be amortized over a closed 20-year period beginning on the initial valuation date for which this funding policy is adopted.
  - Each New Incremental UAAL shall be amortized over a closed 20-year period beginning with the year it is incurred.
- **Employer Contribution Rates**
  - **Employer Normal Contribution Rate** – the contribution rate determined as of the valuation date each year based on the provisions of Georgia Code Section 47-2-55 (1).
  - In each valuation subsequent to the adoption of this funding policy, the required employer contribution rate will be determined as the summation of the employer Normal Contribution Rate, a contribution rate for administrative expenses, the amortization rate for the Transitional UAAL and the individual amortization rate for each of the New Incremental UAAL bases.
  - The required employer contribution rate shall not be less than the Employer Normal Contribution Rate unless the funded ratio is greater than or equal to 105%, as determined by the actuarial valuation in which the employer contribution rate is set.
  - In no event shall the employer contribution rate decrease by more than 2% from one fiscal year to the next fiscal year, unless the Board specifically elects to suspend the 2% maximum for a given valuation year.
  - In no event shall the employer contribution rate be less than 0%.
  - The valuation methodology, including the amortization of the Unfunded Actuarial Accrued Liability (UAAL), is expected to maintain reasonably stable contribution rates over time.





## SCHEDULE F – FUNDING POLICY

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### III. Methods and Assumptions

The annual actuarial valuations providing the measures to assess funding progress will utilize the actuarial methods and assumptions last adopted by the Board based upon the advice and recommendations of the actuary. These include the following primary methods and assumptions:

- The actuarial cost method used to develop the benchmarks will be the Entry Age Normal (EAN) actuarial cost method.
- The long-term annual investment rate of return assumption will be:
  - Effective with the June 30, 2021 valuation date, 7.20% net of investment expenses.
  - Effective with the June 30, 2022 valuation date, reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the following conditions are met:
    - The actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation, and
    - The assumed rate of return does not decrease below 7.00% net of investment expenses.
- The Actuarial Accrued Liability and Normal Cost of the System will include an amount sufficient to amortize and prefund a variable Cost-of-Living Adjustment (COLA) for eligible retirees and beneficiaries of the System, as described in the Appendix.
- The actuarial value of assets will be determined by recognizing the annual differences between actual and expected market value of assets over a five-year period.

The employer contribution rates determined in an annual actuarial valuation will be at least sufficient to:

1. Satisfy the annual normal cost of the System, and
2. Amortize the UAAL as a level dollar amount over a period not to exceed 20 years (for the UAAL as of the June 30, 2021 valuation date, and for each successive year of gains and losses incurred in years following the June 30, 2021 valuation date).

However, in no event shall the employer contribution rate be less than 0%.

The actuary shall conduct an investigation into the System's experience at least every five years and utilize the results of the investigation to form the basis for recommended assumptions and methods. Any changes to the recommended assumptions and methods that are approved by the Board will be reflected in this Policy.





## SCHEDULE F – FUNDING POLICY

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### IV. Funding Policy Progress

The Board will periodically have actuarial projections of the valuation results performed to assess the current and expected future progress towards the overall funding goals of the System. These periodic projections will provide the expected valuation results over at least a 30-year period. The projected measures of funding progress and the recent historical trend provided in valuations will provide important information for the Board's assessment of the System's funding progress.

Adopted: April 21, 2022





## SCHEDULE F – FUNDING POLICY

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### APPENDIX

Beginning with the June 30, 2021 actuarial valuation, the Actuarial Accrued Liability and the Normal Cost of the System will include an amount sufficient to amortize and prefund a variable Cost-of-Living Adjustment (COLA) for eligible retirees and beneficiaries of the System. The manner in which such prefunded COLA will be calculated is described in this Appendix.

Effective July 1, 2022, unless otherwise noted.

#### **Definitions**

1. Actuarial Rate of Return: based on the approximate five-year average annual investment rate of return and assumptions regarding the System's cash flows; calculated by the System's actuaries in the annual valuation (see valuation Schedule B – Development of Actuarial Value of Assets).
2. COLA Rate: the percentage increase to be applied to the payee's monthly retirement benefit under the System.
3. Excess Return: the difference between the Actuarial Rate of Return and the Hurdle Rate.
4. Hurdle Rate: the minimum investment performance, as measured against the Actuarial Rate of Return, required in order for a COLA to be considered in a given year.
5. Normal Retirement Date: Generally, age 60 (55 for certain law enforcement members) with 10 years of service or any age with 30 years of service.
6. Retirement Date: the effective date of a member's retirement.
7. Shareable Portion: determined by multiplying the Excess Return by a factor which is dependent on the System's funding ratio.
8. Supplemental Guaranteed Lifetime Income (SGLI): monthly payments from the System which are funded entirely by one or more rollovers from either or both of a retiree's Peach State Reserves 401(k) or 457 plans, and not based on the retiree's years of service as a member of the System.





## SCHEDULE F – FUNDING POLICY

### Determination of COLA

1. The COLA for a given fiscal year will be effective no earlier than July 1 following the approval of the most recent actuarial valuation.
2. The Hurdle Rate is set at 6.00%.
3. Determine the Excess Return as the difference between the Actuarial Rate of Return in the most recent actuarial valuation and the Hurdle Rate.
  - a. If the Actuarial Rate of Return is below the Hurdle Rate, the Excess Return is 0%, and no COLA will be paid for that year.
  - b. If the Actuarial Rate of Return is above the Hurdle Rate, the Excess Return is greater than 0%. Continue to Step 4.
4. Determine the Shareable Portion by multiplying the Excess Return by the factor returned from the following table, based on the most recent approved actuarial valuation:

System Funding Ratio	Factor
< 70.00%	0.00
70.00% - 79.99%	0.25
80.00% - 89.99%	0.50
90.00% - 99.99%	0.75
>= 100.00%	1.00

5. Determine the SSA OASDI COLA rate for the current calendar year, as published on [www.ssa.gov](http://www.ssa.gov) (generally in October or November of the preceding calendar year).
6. The COLA Rate is the lesser of the Shareable Portion and the SSA COLA rate as determined in Step 5, rounded to the nearest 0.25%.
  - a. However, in no event shall the COLA Rate be less than 0% or greater than 3%.
7. The COLA will be paid to all statutorily eligible retirees who have surpassed the later of their Retirement Date or Normal Retirement Date by at least 12 months.
  - a. The COLA will also be paid to beneficiaries of deceased members or retirees who have otherwise met the requirements of this Step 7.
  - b. A statutorily eligible individual is one who first became a member of this System before July 1, 2009.





## SCHEDULE F – FUNDING POLICY

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8. The COLA will also be paid to Disabled retirees (who are statutorily eligible per Step 7b above) who have surpassed the later of their Disability Retirement Date or their 44<sup>th</sup> birthday by at least 12 months.
  - a. The COLA will also be paid to beneficiaries of deceased Disabled retirees who have otherwise met the requirements of this Step 8.
9. In no event will the COLA Rate be added or applied to that portion of a retiree's or beneficiary's monthly benefit payment which is in excess of one-twelfth (1/12) of the Social Security Wage Base for that calendar year, as published on [www.ssa.gov](http://www.ssa.gov).
10. In no event will the COLA Rate be added or applied in any fashion to any retiree's SGLI payments.







## SCHEDULE G – AMORTIZATION OF UAAL

### AMORTIZATION OF TRANSITIONAL UAAL (Dollar amounts in thousands)

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of Transitional UAAL</u>	<u>Annual Amortization Payment</u>
6/30/2021	20	\$5,702,095	\$546,633
6/30/2022	18	5,566,013	561,553
6/30/2023	15	5,405,213	597,095
<b>6/30/2024</b>	<b>11</b>	<b>5,191,888</b>	<b>695,953</b>
6/30/2025	10	4,859,368	695,953
6/30/2026	9	4,503,571	695,953
6/30/2027	8	4,122,868	695,953
6/30/2028	7	3,715,516	695,953
6/30/2029	6	3,279,650	695,953
6/30/2030	5	2,813,272	695,953
6/30/2031	4	2,314,249	695,953
6/30/2032	3	1,780,293	695,953
6/30/2033	2	1,208,961	695,953
6/30/2034	1	597,636	639,470
6/30/2035	0	0	0
6/30/2036	0	0	0
6/30/2037	0	0	0
6/30/2038	0	0	0
6/30/2039	0	0	0
6/30/2040	0	0	0
6/30/2041	0	0	0





## SCHEDULE G – AMORTIZATION OF UAAL

### AMORTIZATION OF 2022 INCREMENTAL UAAL (Dollar amounts in thousands)

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of New Incremental UAAL 6/30/2022</u>	<u>Annual Amortization Payment</u>
6/30/2022	20	\$62,477	\$5,989
6/30/2023	19	60,986	5,945
<b>6/30/2024</b>	<b>18</b>	<b>59,371</b>	<b>5,902</b>
6/30/2025	17	57,625	5,902
6/30/2026	16	55,756	5,902
6/30/2027	15	53,757	5,902
6/30/2028	14	51,618	5,902
6/30/2029	13	49,329	5,902
6/30/2030	12	46,880	5,902
6/30/2031	11	44,259	5,902
6/30/2032	10	41,455	5,902
6/30/2033	9	38,454	5,902
6/30/2034	8	35,244	5,902
6/30/2035	7	31,809	5,902
6/30/2036	6	28,133	5,902
6/30/2037	5	24,200	5,902
6/30/2038	4	19,992	5,902
6/30/2039	3	15,489	5,902
6/30/2040	2	10,671	5,902
6/30/2041	1	5,516	5,902
6/30/2042	0	0	0





## SCHEDULE G – AMORTIZATION OF UAAL

### AMORTIZATION OF 2023 INCREMENTAL UAAL (Dollar amounts in thousands)

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of New Incremental UAAL 6/30/2023</u>	<u>Annual Amortization Payment</u>
6/30/2023	20	\$394,278	\$37,507
<b>6/30/2024</b>	<b>19</b>	<b>384,765</b>	<b>37,227</b>
6/30/2025	18	374,471	37,227
6/30/2026	17	363,457	37,227
6/30/2027	16	351,672	37,227
6/30/2028	15	339,062	37,227
6/30/2029	14	325,569	37,227
6/30/2030	13	311,132	37,227
6/30/2031	12	295,684	37,227
6/30/2032	11	279,154	37,227
6/30/2033	10	261,468	37,227
6/30/2034	9	242,544	37,227
6/30/2035	8	222,295	37,227
6/30/2036	7	200,628	37,227
6/30/2037	6	177,445	37,227
6/30/2038	5	152,639	37,227
6/30/2039	4	126,096	37,227
6/30/2040	3	97,696	37,227
6/30/2041	2	67,307	37,227
6/30/2042	1	34,792	37,227
6/30/2043	0	0	0





## SCHEDULE G – AMORTIZATION OF UAAL

### AMORTIZATION OF 2024 INCREMENTAL UAAL (Dollar amounts in thousands)

<u>Valuation Date</u>	<u>Amortization Period</u>	<u>Balance of New Incremental UAAL 6/30/2024</u>	<u>Annual Amortization Payment</u>
<b>6/30/2024</b>	<b>20</b>	<b>(\$479,345)</b>	<b>(\$45,247)</b>
6/30/2025	19	(467,652)	(45,247)
6/30/2026	18	(455,141)	(45,247)
6/30/2027	17	(441,754)	(45,247)
6/30/2028	16	(427,430)	(45,247)
6/30/2029	15	(412,104)	(45,247)
6/30/2030	14	(395,704)	(45,247)
6/30/2031	13	(378,157)	(45,247)
6/30/2032	12	(359,381)	(45,247)
6/30/2033	11	(339,291)	(45,247)
6/30/2034	10	(317,794)	(45,247)
6/30/2035	9	(294,793)	(45,247)
6/30/2036	8	(270,182)	(45,247)
6/30/2037	7	(243,848)	(45,247)
6/30/2038	6	(215,671)	(45,247)
6/30/2039	5	(185,521)	(45,247)
6/30/2040	4	(153,260)	(45,247)
6/30/2041	3	(118,742)	(45,247)
6/30/2042	2	(81,807)	(45,247)
6/30/2043	1	(42,287)	(45,247)
6/30/2044	0	0	0





# SCHEDULE H – SUMMARY OF BENEFIT PROVISIONS EVALUATED

The Employees’ Retirement System of Georgia (ERS) was established February 3, 1949 to provide retirement benefits and other benefits to employees of the State of Georgia. The commencement date was January 1, 1950. “Old Plan” means the plan applicable to members beginning employment prior to July 1, 1982, “New Plan” means the plan applicable to members employed on or after July 1, 1982 and before January 1, 2009, and “GSEPS” means the plan applicable to members employed on or after January 1, 2009. The following summary describes the main provisions of the System.

## Normal Retirement Benefit

**Eligibility** A member is eligible for normal retirement upon the attainment of age 60 and 10 years of creditable service (prior service plus membership service plus purchased service plus forfeited leave – minimum 960 hours) or 30 years of creditable service regardless of age. Certain Law Enforcement positions are eligible with attainment of age 55 and 10 years of creditable service.

**Benefit** Old Plan

(A) x (B) x (C), where

(A) = Average final compensation (the average annual compensation of a member during the 24 consecutive calendar months of his creditable service that will yield the highest average)

(B) = Creditable service, and

(C) = .0115 + .0003 x (creditable service up to 35 years).

The minimum benefit is 2.00% of average final compensation times years of creditable service.

New Plan

2.00% of average final compensation multiplied by years of creditable service.





## SCHEDULE H – SUMMARY OF BENEFIT PROVISIONS EVALUATED

### GSEPS

1.00% of average final compensation multiplied by years of creditable service.

Uniform division and judicial members may be eligible for additional minimum benefits.

With all plans, for members with retirement dates prior to July 1, 2013, a one-time 3.0% increase on the first \$37,500 is made at time of retirement.

### Early Retirement Benefit

#### Eligibility

A member is eligible for early retirement upon the attainment of 25 years of creditable service regardless of age.

#### Benefit

The annual early retirement benefit is determined in the same manner as the normal retirement benefit based on creditable service and average final compensation as of the early retirement date. If the member is less than age 60, the retirement benefit is reduced by the lesser of:

- (i) 7% for each year by which his age is less than 60, and
- (ii) 7% for each year by which his creditable service at retirement is less than 30.

Uniform division and judicial members may be eligible for additional minimum benefits.

### Disability Retirement Benefit

#### Old Plan and New Plan

#### Eligibility

A member is eligible for disability retirement after having at least 13 years and 4 months of service and being certified by the medical board as permanently disabled for the further performance of the duties of the position held at the time of disability.





## SCHEDULE H – SUMMARY OF BENEFIT PROVISIONS EVALUATED

Benefit	The annual disability retirement benefit is an immediate benefit with the amount depending upon service at the time of disability.
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Uniform division members may be eligible for an additional benefit if disabled in line of duty.

### Service at Disability

### Benefit

(1) 13 years 4 months to 18 years	75% of what the normal retirement benefit would have been had the member continued to work until age 60 with no further change in compensation
(2) Over 18 years to 22 years 9 months	100% of age 60 benefit
(3) Over 22 years 9 months to 27 years 6 months	75% of age 65 benefit
(4) Over 27 years 6 months	100% of age 65 benefit

### GSEPS

Eligibility	A member is eligible for disability retirement after having at least 15 years of service and being certified by the medical board as permanently disabled for the further performance of the duties of the position held at the time of disability.
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Benefit	The annual disability retirement benefit is an immediate benefit equal to 1.00% of average final compensation multiplied by years of credited service at disability.
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## SCHEDULE H – SUMMARY OF BENEFIT PROVISIONS EVALUATED

### Involuntary Retirement Benefit

Eligibility	Member prior to April 1, 1972, termination is involuntary and without prejudice, and member has more than 18 years of membership service.
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For members prior to February 13, 1962, the service requirement is more than 18 years of creditable service.

Benefit	Computed as for disability retirement.
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### Deferred Vested Retirement Benefit

Eligibility	10 years of creditable service. Member contributions not withdrawn.
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Benefit	Accrued benefit deferred to age 60.
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### Death Benefit

#### Old Plan and New Plan

##### Eligibility

##### Benefit

(1) Before retirement, before age 60, before completing 13 years 4 months service interest.

Refund of all employee contributions plus allowable

(2) Before retirement, before age 60, after completing 13 years 4 months service

Benefit equal to disability retirement immediately prior to death under Option 2.







## SCHEDULE H – SUMMARY OF BENEFIT PROVISIONS EVALUATED

(3) Before retirement, after age 60, more than 10 years creditable service (5 years of service if member prior to July 1, 1968)	Benefit equal to retirement immediately prior to death under Option 2.
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(4) After retirement	Payments continued to spouse as determined by options (if any) elected before retirement.
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### GSEPS

Eligibility	15 years of creditable service.
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Benefit	Benefit equal to disability retirement immediately prior to death under Option 2.
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### Termination Benefit

Eligibility	Termination with less than 10 years creditable service.
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Benefit	Return of all member contributions and employer contributions made on behalf of member with allowable interest. Life insurance premiums paid by the employee are not refundable.
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Payment Options	At application for retirement, a member must choose one of the following methods of payment. All forms are of equivalent actuarial value.
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Maximum Benefit	Life annuity, payable to members for the member's life with the final payment (for month of member's death) going to member's designated beneficiary.
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Option 1	Full cash refund, paying a reduced retirement benefit to members so that, upon member's death, the beneficiary receives a lump sum cash settlement equal to the difference between the member's accumulated contributions at retirement and the benefit payments due to member contributions received prior to member's death.
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## SCHEDULE H – SUMMARY OF BENEFIT PROVISIONS EVALUATED

Option 2	Joint and 100% to survivor. Member receives a reduced benefit for life with the same benefit continuing for life of beneficiary upon member's death.
Option 3	Joint and 50% to survivor. Member receives a reduced benefit for life with one-half members' benefit continuing to beneficiary for life upon member's death.
Other Options	Other options are available with certain restrictions.
Post-Retirement Adjustments	As outlined in the Appendix of the Funding Policy adopted by the Board, shown in Schedule F.
Contributions	
By Members	<p><u>Old Plan</u></p> <p>4% of annual compensation up to \$4,200 plus 6% of annual compensation over \$4,200. A member with 34 or more years of service may cease contributing until age 65, when he must resume contributing if he continues employment and wishes to receive additional service credit. The State pays member contributions except for 1.25% of annual compensation. These State contributions paid on behalf of members are included in the member's account for refund purposes. Covered tax officials and their employees and covered employees of State Courts continue to pay their full member contributions.</p> <p><u>New Plan and GSEPS</u></p> <p>Member contributions are 1.25% of annual compensation.</p>
By Employers	The employers contribute at a specified percentage of active member payroll determined annually by actuarial valuation. The State contribution is not subject to refund upon member termination.





## SCHEDULE I – TABLES OF MEMBERSHIP DATA

### The Number and Average Annual Compensation of Active Members by Age and Service as of June 30, 2024

Age	Years of Service									Total	
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	No.	Avg. Pay
Under 25	609	1,393	24							2,026	\$38,576
25 to 29	693	3,745	668	14						5,120	\$45,980
30 to 34	553	3,276	2,120	410	2					6,361	\$50,095
35 to 39	461	2,556	1,957	1,177	310	10				6,471	\$54,047
40 to 44	405	2,297	1,635	1,098	1,164	417	4			7,020	\$56,631
45 to 49	287	1,842	1,367	1,011	1,172	1,193	382	4		7,258	\$58,829
50 to 54	283	1,722	1,442	1,012	983	1,162	1,076	178	8	7,866	\$60,176
55 to 59	206	1,414	1,168	822	960	900	790	424	93	6,777	\$60,344
60 to 64	130	971	977	687	726	681	514	268	168	5,122	\$59,169
65 to 69	44	337	458	349	283	218	145	97	63	1,994	\$63,175
70 & up	14	150	120	169	134	100	46	35	50	818	\$62,019
<b>Total</b>	3,685	19,703	11,936	6,749	5,734	4,681	2,957	1,006	382	56,833	\$55,751
<b>Avg. Pay</b>	\$38,629	\$47,632	\$56,611	\$62,612	\$63,930	\$67,203	\$68,958	\$74,476	\$77,111		

Average Age: 45.2

Average Service: 9.3





## SCHEDULE I – TABLES OF MEMBERSHIP DATA

### NUMBER OF RETIRED MEMBERS AND THEIR BENEFITS BY AGE

Attained Age	Number of Members	Total Annual Benefits*	Average Annual Benefits
Under 50	77	\$ 2,487,305	\$ 32,303
50 - 54	471	15,209,664	32,292
55 - 59	1,719	54,459,398	31,681
60 - 64	5,736	140,959,615	24,575
65 - 69	9,181	226,168,004	24,634
70 - 74	9,962	269,635,525	27,066
75 - 79	8,503	260,227,958	30,604
80 - 84	4,421	134,484,793	30,420
85 - 89	2,203	64,982,487	29,497
90 - 94	760	19,739,196	25,973
95 & Over	209	4,525,505	21,653
Total	43,242	\$ 1,192,879,450	\$ 27,586

\*Does not reflect the COLA granted by the Board effective July 1, 2024.

Average Age: 72

### NUMBER OF BENEFICIARIES AND THEIR BENEFITS BY AGE

Attained Age	Number of Members	Total Annual Benefits*	Average Annual Benefits
Under 50	839	\$ 7,204,167	\$ 8,587
50 - 54	378	3,594,553	9,509
55 - 59	396	4,551,983	11,495
60 - 64	536	7,144,395	13,329
65 - 69	656	10,605,074	16,166
70 - 74	913	17,229,739	18,872
75 - 79	1,043	20,521,193	19,675
80 - 84	904	18,960,394	20,974
85 - 89	639	11,449,708	17,918
90 - 94	309	5,879,403	19,027
95 & Over	103	2,080,403	20,198
Total	6,716	\$ 109,221,012	\$ 16,263

\*Does not reflect the COLA granted by the Board effective July 1, 2024.

Average Age: 69.5





## SCHEDULE I – TABLES OF MEMBERSHIP DATA

### NUMBER OF DISABLED RETIREES AND THEIR BENEFITS BY AGE

Attained Age	Number of Members	Total Annual Benefits*	Average Annual Benefits
Under 50	221	\$ 8,221,167	\$ 37,200
50 - 54	402	14,688,311	36,538
55 - 59	699	21,402,739	30,619
60 - 64	873	21,649,952	24,799
65 - 69	912	23,311,516	25,561
70 - 74	921	28,321,265	30,751
75 - 79	740	24,230,523	32,744
80 - 84	310	8,449,008	27,255
85 - 89	79	1,579,972	20,000
90 - 94	14	302,061	21,576
95 & Over	4	26,896	6,724
Total	5,175	\$ 152,183,410	\$ 29,407

\*Does not reflect the COLA granted by the Board effective July 1, 2024.

Average Age: 66.3

### NUMBER OF DEFERRED VESTED AND THEIR BENEFITS BY AGE

Attained Age	Number of Members	Total Annual Benefits	Average Annual Benefits
Under 35	27	\$ 138,482	\$ 5,129
35 - 39	264	2,033,831	7,704
40 - 44	834	9,292,351	11,142
45 - 49	1,185	14,832,910	12,517
50 - 54	1,580	21,030,957	13,311
55 - 59	1,909	25,606,611	13,414
60 - 64	641	7,604,120	11,863
65 & Over	195	2,064,839	10,589
Total	6,635	\$ 82,604,101	\$ 12,450

Average Age: 52.1





## SCHEDULE J – SPECIAL CONTRIBUTION RATES

Groups that have Age 55 Retirement and Line-of-Duty Disability Benefits:

Public Safety #466  
Revenue Agents #474  
DNR Game Wardens #462  
GBI Officers/Agents #471

PLAN	Additional Rate	Total Rate
Old Plan	0.00%	24.53%
New Plan	8.32%	37.60%
GSEPS	2.65%	28.16%

Groups that have Line-of-Duty Disability Benefits:

Deputy DNR Game Wardens #462  
Probation Officers #467  
Parole Officers – Pardons and Paroles #465  
Dept of Community Supervision #477

PLAN	Additional Rate	Total Rate
Old Plan	0.00%	24.53%
New Plan	0.02%	29.30%
GSEPS	0.03%	25.54%

Group that has Age 55 Retirement:

Special Investigators Department of Revenue #474

PLAN	Additional Rate	Total Rate
New Plan	8.09%	37.37%
GSEPS	2.42%	27.93%

Appellate Court Judges: Total rate equal to 61.06% of payroll





## SCHEDULE K – COMPREHENSIVE FINANCIAL REPORT SCHEDULES

GA ERS: Solvency Test							
Actuarial Accrued Liability for:							
Actuarial Valuation as of 6/30	Active Member Contributions (1)	Retirants & Beneficiaries (2)	Active Members (Employer Funded Portion) (3)	Valuation Assets	Portion of Aggregate Accrued Liabilities Covered by Assets		
					(1)	(2)	(3)
2024	\$401,423	\$15,207,623	\$5,763,426	\$16,215,793	100%	100.0%	10.5%
2023	384,689	15,047,239	5,462,008	15,033,459	100%	97.4%	0.0%
2022	371,979	14,904,964	4,983,813	14,632,266	100%	95.7%	0.0%
2021	371,048	14,782,338	4,932,309	14,383,600	100%	94.8%	0.0%
2020	372,510	13,406,538	4,596,749	13,556,622	100%	98.3%	0.0%
2019	371,147	13,077,253	4,380,820	13,481,219	100%	100.0%	0.7%
2018	372,375	12,927,796	4,512,270	13,412,046	100%	100.0%	2.5%
2017	368,935	12,729,977	4,415,986	13,088,185	100%	99.9%	0.0%
2016	368,281	12,592,980	4,238,427	12,854,518	100%	99.2%	0.0%
2015	367,462	12,520,321	4,211,744	12,675,649	100%	98.3%	0.0%

All dollar amounts are in thousands.

GA ERS: Schedule of Retirants Added to and Removed from Rolls								
Year Ended	Added to Rolls		Removed from Rolls		Roll End of Year		% Increase in Annual Allowances	Average Annual Allowances
	Number	Annual Allowances* (in thousands)	Number	Annual Allowances* (in thousands)	Number	Annual Allowances* (in thousands)		
June 30, 2024	2,175	\$54,417	1,730	\$43,389	55,133	\$1,454,283	0.8%	\$26,378
June 30, 2023	2,032	62,776	1,722	41,180	54,688	1,443,255	1.5%	26,391
June 30, 2022	2,331	48,423	1,816	43,382	54,378	1,421,659	0.4%	26,144
June 30, 2021	2,724	58,426	1,893	45,432	53,863	1,416,618	0.9%	26,300
June 30, 2020	2,553	53,509	1,606	38,185	53,032	1,403,624	1.1%	26,467
June 30, 2019	2,777	58,673	1,357	32,574	52,085	1,388,300	1.9%	26,655
June 30, 2018	2,612	50,005	1,422	33,530	50,665	1,362,201	1.2%	26,886
June 30, 2017	2,630	45,833	1,420	32,372	49,475	1,345,726	1.0%	27,200
June 30, 2016	2,572	51,031	1,342	30,724	48,265	1,332,265	1.5%	27,603
June 30, 2015	2,656	54,003	1,350	30,927	47,035	1,311,958	1.8%	27,893

\* Does not reflect any increases after the valuation date.

