

# Judicial Retirement Benefits Trust State of Rhode Island

Actuarial Valuation Report  
As of June 30, 2024





December 19, 2024

Retirement Board  
50 Service Avenue, 2<sup>nd</sup> Floor  
Warwick, RI 02886-1021

Dear Members of the Board:

**Subject: Actuarial Valuation of the JRBT as of June 30, 2024**

This is the June 30, 2024 actuarial valuation of the Judicial Retirement Benefits Trust (JRBT). This report describes the current actuarial condition of the JRBT, determines the recommended employer contribution rate, and analyzes changes in the contribution rate. Valuations are prepared annually, as of June 30, the last day of the JRBT plan year. Benefits for state judges hired before January 1, 1990 are funded by the State from general assets, on a pay-as-you-go basis, and are not included in this valuation.

Under Rhode Island General Laws, the employer contribution rate for the JRBT is certified annually by the State of Rhode Island Retirement Board. This rate is determined actuarially, based on the plan provisions in effect as of the valuation date and the actuarial assumptions and methods adopted by the Board or set by statute. The Board's current policy is that the contribution rate determined by a given actuarial valuation becomes effective two years after the valuation date. For example, the rate determined by the June 30, 2024 actuarial valuation will be applicable for the year beginning July 1, 2026 and ending June 30, 2027.

#### **Financing objectives and funding policy**

The actuarial cost method and the amortization periods are set by statute. The normal cost rate (as a percent of pay) and actuarial accrued liabilities are computed using the Entry Age Normal actuarial cost method. The employer contribution rate is the sum of two pieces: the employer normal cost rate and the amortization rate. The employer normal cost rate is the difference between the normal cost rate and the member contribution rate. The amortization rate, also determined as a level percent of pay, is the amount required to amortize the unfunded actuarial accrued liability over a closed period. The amortization rate is adjusted for the two-year deferral in contribution rates.

### **Progress toward realization of financing objectives**

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. The funded status alone is not appropriate for assessing the need for future contributions. The funded status is also not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations. The funded ratio, as can be seen in Table 4 of this report, increased slightly from 102.3% to 103.7% between the valuations. This is due to a gain on the actuarial value of assets with the return on the actuarial value of assets of 8.3% compared to the 7.0% assumption, as well as liability gains mainly resulting from fewer retirements than expected. If the market value of assets were used rather than the actuarial value, the funded ratio would be 107.3%.

Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 7.00% on the actuarial valuation of assets), it is expected that in the absence of benefit improvements, the funded ratio should remain over 100%.

The employer contribution rate decreased from 17.75% to 17.47% for fiscal year 2027.

An analysis of the changes in the employer contribution rate appears on Table 11a of this report. An analysis of the changes in the unfunded actuarial accrued liability appears on Table 11c.

Additional information regarding these assumptions changes is provided further below and in the body of this report.

### **Benefit provisions**

The benefit provisions reflected in this valuation are those which were in effect on June 30, 2024, and there have been no changes in benefits since the preceding valuation except for lowering the threshold for full COLA from 80% to 75%. All benefit provisions are summarized in Appendix B.

### **Assumptions and methods**

The assumptions are unchanged from the last actuarial valuation and were approved by the Board on May 17, 2023. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of JRBT. The combined effect of the assumptions used in this valuation is expected to have no significant bias.

The results of the actuarial valuation are dependent upon the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities and the calculated contribution rates.

All assumptions and methods are described in Appendix A. The actuarial assumptions and methods used in this report comply with the parameters for disclosure that appear in Governmental Accounting Standards Board (GASB) Statement Number 67.

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. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

### **Data**

The System's staff supplied data for active members and retirees as of June 30, 2024. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data. The System's staff also supplied asset data as of June 30, 2024.



### Certification

All of our work conforms with generally accepted actuarial principles and practices and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of Rhode Island state law and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board.

The undersigned are independent actuaries. All are Members of the American Academy of Actuaries. They all meet the Qualification Standards of the American Academy of Actuaries, and they are experienced in performing valuations for large public retirement systems.

Respectfully submitted,

**Gabriel, Roeder, Smith & Company**



Joseph P. Newton, FSA, EA, MAAA  
Pension Market Leader and Actuary



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Senior Consultant and Actuary

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## Actuarial Standards of Practice Disclosure Statements

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; 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.

This report should not be relied on for any purpose other than the purpose described above. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

The valuation was based upon information furnished by the System's staff, concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by the System's staff.

The developed findings included in this report consider data or other information through June 30, 2024.

This is one of multiple documents comprising the actuarial report. The other document comprising the actuarial report is a PowerPoint presentation presented to the Board of Trustees following the publication of this report.



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## Executive Summary

Item	Valuation Date	
	June 30, 2024	June 30, 2023
<b>Membership</b> <ul style="list-style-type: none"> <li>• Number of:               <ul style="list-style-type: none"> <li>- Active members <span style="float: right;">62</span></li> <li>- Retirees and beneficiaries <span style="float: right;">36</span></li> <li>- Inactive members <span style="float: right;">1</span></li> <li>- Total <span style="float: right;">99</span></li> </ul> </li> <li>• Payroll supplied by ERSRI, annualized <span style="float: right;">\$ 13,159,340</span></li> </ul>		<span style="float: right;">60</span> <span style="float: right;">36</span> <span style="float: right;">1</span> <span style="float: right;">97</span> <span style="float: right;">\$ 12,355,040</span>
<b>Contribution rates</b> <ul style="list-style-type: none"> <li>• Member <span style="float: right;">12.00%</span></li> <li>• State <span style="float: right;">17.47%</span></li> </ul>		<span style="float: right;">12.00%</span> <span style="float: right;">17.75%</span>
<b>Assets</b> <ul style="list-style-type: none"> <li>• Market value <span style="float: right;">\$ 114,814,391</span></li> <li>• Actuarial value <span style="float: right;">110,956,195</span></li> <li>• Return on market value <span style="float: right;">10.2%</span></li> <li>• Return on actuarial value <span style="float: right;">8.3%</span></li> <li>• Employer contribution <span style="float: right;">\$ 2,983,250</span></li> <li>• Ratio of actuarial value to market value <span style="float: right;">96.6%</span></li> </ul>		<span style="float: right;">\$ 105,067,197</span> <span style="float: right;">103,344,499</span> <span style="float: right;">8.4%</span> <span style="float: right;">7.7%</span> <span style="float: right;">\$ 2,842,875</span> <span style="float: right;">98.4%</span>
<b>Actuarial Information</b> <ul style="list-style-type: none"> <li>• Employer normal cost % <span style="float: right;">18.89%</span></li> <li>• Unfunded actuarial accrued liability (UAAL) <span style="float: right;">\$ (3,986,417)</span></li> <li>• Amortization rate <span style="float: right;">(1.42%)</span></li> <li>• Funding period <span style="float: right;">N/A</span></li> <li>• Funded ratio <span style="float: right;">103.7%</span></li> </ul>		<span style="float: right;">18.67%</span> <span style="float: right;">\$ (2,345,427)</span> <span style="float: right;">(0.92%)</span> <span style="float: right;">N/A</span> <span style="float: right;">102.3%</span>
<b>Projected employer contribution</b> <ul style="list-style-type: none"> <li>• Fiscal year ending June 30, <span style="float: right;">2027</span></li> <li>• Projected payroll <span style="float: right;">\$ 14,215,031</span></li> <li>• Projected employer contribution <span style="float: right;">2,483,366</span></li> </ul>		<span style="float: right;">2026</span> <span style="float: right;">\$ 12,918,384</span> <span style="float: right;">2,293,013</span>





## Discussion (Contribution Rates)

The employer contribution rate for the JRBT is determined actuarially. The rate determined in each valuation becomes effective two years after the valuation date, in this case as of July 1, 2026.

The rate consists of two pieces: the normal cost rate and the amortization rate. The normal cost rate is the employer's Entry Age normal cost, expressed as a percentage of active member payroll. The amortization rate is the contribution required to amortize each of the laddered bases that comprise the unfunded actuarial accrued liability over closed period as a level percentage of payroll. Payment for each base is generally calculated based on a 20 year amortization period beginning 2 years after they are established. The amortization rate is adjusted for the fact that the contribution rate set by this valuation is deferred for two years. Because the JRBT is overfunded, the UAAL is amortized using a single base such that the funded ratio is not expected to decline below its current level. Accordingly, the Actuarially Determined Contribution under the funding policy can be considered a "Reasonable Actuarially Determined Contribution" as required by the Actuarial Standards of Practice.

There was a decrease in the employer contribution rate from 17.75% to 17.47% of payroll for FY2027. This is due to a gain on the actuarial value of assets with the return on the actuarial value of assets of 8.3% compared to the 7.0% assumption as well as liability gains mainly resulting from fewer retirements than expected. The impact from these gains was partially offset by losses on retiree mortality experience and higher than expected individual salary increases.

An analysis of the changes in the employer contribution rate appears in Table 11a of this report and a history of the employer contribution rates appears in Table 11b. Table 11c shows a reconciliation of the UAAL.

## Discussion (Financial Data and Experience)

Assets for the JRBT are held in trust and are commingled with those of several other plans and programs—including the Employees' Retirement System of Rhode Island—for investment purposes. The State Investment Commission is responsible for setting the asset allocation policy and for investing the funds.

Table 6 shows the net plan assets for the JRBT. Table 7 shows a reconciliation of the assets between the previous valuation and this valuation. Table 8 shows the development of the actuarial value of assets. Table 9 shows the distribution of investments by category — 60% of assets are held in equities, including real estate and private equity — and Table 10 shows a historical summary of the return rates. As can be seen, the market value rate of return was 10.2% for the year ended June 30, 2024, and the return on an actuarial asset value basis was 8.3%.

The average annual return based on the market value of assets over the last ten years (July 1, 2014 – June 30, 2024) was 7.2%. This is more than the current 7.00% annual investment return assumption. The average annual return based on the actuarial value of assets over the same period was 7.3%.

All returns above are net of both investment and administrative expenses and may differ from other information provided by the General Treasurer's office or the investment managers and advisors.

The System's staff provided all of the financial information used in this report.

## Discussion (Member Data)

The System's staff supplied member data as of June 30, 2024. While we did not audit this data, we did perform various tests to ensure that it was internally consistent, consistent with the prior year's data, and was reasonable overall. Information provided for active members includes: name, identification number, sex, a code indicating whether the member was active or inactive, date of birth, service, salary, date of last contribution, and accumulated member contributions without interest. For retired members, data includes: name, an identification number, sex, date of birth, date of retirement, amount of benefit (original, COLA, gross), a code indicating the option elected and the type of retiree (service retiree, disabled retiree, beneficiary), and if applicable, the joint pensioner's date of birth and sex.

Table 12 and Table 13 show information and statistics about the active and retired members. Table 14 shows the distribution of active members by age and service.

The total payroll shown on the statistical tables is the amount that was supplied by the System's staff. For the cost calculations, the earnings were adjusted in accordance with the actuarial assumptions to reflect one year's salary increase.

## Discussion (Benefit Provisions)

Appendix B includes a summary of the benefit provisions for the JRBT. There were no changes in the benefit provisions since the preceding valuation except for the lowering of the COLA threshold from 80% to 75%. Also, there are no ancillary benefits—e.g., cost of living benefits—that are currently provided by a source independent of the JRBT but that might be deemed a liability of the JRBT if continued beyond the availability of funding by the current funding source.

The COLA to be provided to retired members is contingent on the investment performance, the annual change in the CPI-U, and funded status of the System. The amount of the COLA is determined based on 50% of the plan's five-year average investment rate of return minus 5.0% and will range from zero to 4.0%, and 50% of the lesser of 3% or last year's CPI-U increase for a total maximum increase of 3.50%. This calculation produces a 2.84% COLA for Calendar Year 2024 and 2.89% for Calendar Year 2025. The COLA will be limited and this limit will be indexed annually to increase in the same manner as COLAs, with the known values as follows:

<u>Year</u>	<u>COLA Limit</u>
2014	\$ 25,000
2015	\$ 25,168
2016	\$ 25,855
2017	\$ 26,098
2018	\$ 26,291
2019	\$ 26,687
2020	\$ 27,184
2021	\$ 27,608
2022	\$ 27,901
2023	\$ 28,878
2024	\$ 29,776
2025	\$ 30,622
2026	\$ 31,507

Prior to the passage of H5200Aaa Article 12 the COLA was suspended for all state employees, teachers, BHDDH nurses, correctional officers, judges and state police until the aggregate funding level of their plans exceeds 80%; however, an interim COLA will be granted in four-year intervals while the COLA is suspended. The first interim COLA was during the Calendar Year beginning January 1, 2017 and another for 2021. Also, for current retirees and beneficiaries retired on or before July 1, 2015 the \$25,000 cap will be increased to \$30,000 (indexed) for any COLA payable based on the every fourth year provision. Effective with the passage of HB No. 7225 SUB A as Amended, the 80% threshold for full COLAs has been reduced to 75%.

## Discussion (Actuarial Methods and Assumptions)

Appendix A of this report includes a summary of the actuarial assumptions and methods used in this valuation.

The method used to determine the actuarial value of assets is the five-year smoothed market method. This technique is further described in Section III of Appendix A. The development of the actuarial value of assets utilizing this method is shown on Table 8.

The assumptions were adopted by the Board on May 17, 2023. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of the JRBT.

## Table 1

### Development of Contribution Rate (Judges)

	June 30, 2024 (1)	June 30, 2022 (2)
1. Compensation		
(a) Supplied by ERSRI, annualized	\$ 13,159,340	\$ 12,355,040
(b) Adjusted for one-year's pay increase	13,530,071	12,295,904
2. Actuarial accrued liability	106,969,778	100,999,072
3. Actuarial value of assets	110,956,195	103,344,499
4. Unfunded actuarial accrued liability (UAAL) (2 - 3)	(3,986,417)	(2,345,427)
5. Remaining amortization period at valuation date	N/A	N/A
6. Contribution effective for fiscal year ending:	June 30, 2027	June 30, 2026
7. Base pay projected for two-year delay	14,215,031	12,918,384
8. Amortization of UAAL	(201,291)	(118,430)
9. Normal cost		
(a) Total normal cost rate	30.89%	30.67%
(b) Employee contribution rate	12.00%	12.00%
(c) Employer normal cost rate ( a - b )	18.89%	18.67%
10. Employer contribution rate as percent of payroll		
(a) Employer normal cost rate	18.89%	18.67%
(b) Amortization payments ( 8 / 7 )	(1.42%)	(0.92%)
(c) Total ( a + b )	17.47%	17.75%
11. Estimated employer contribution amount (7 * 10(c))	\$ 2,483,366	\$ 2,293,013

## Table 2

### Summary of Unfunded Liability

Purpose	Remaining Balance as of June 30, 2024	Fiscal Year 2025 Amortization Payment *	Fiscal Year 2026 Amortization Payment *	Fiscal Year 2027 Amortization Payment *	Years Remaining Beginning with Fiscal Year 2027
Surplus as of Valuation Date	<u>(3,986,417)</u>	<u>-</u>	<u>-</u>	<u>(201,291)</u>	N/A
Unfunded Actuarial Accrued Liability	\$ (3,986,417)	\$ -	\$ -	\$ (201,291)	

### Table 3

#### Actuarial Present Value of Future Benefits

	<u>June 30, 2024</u>	<u>June 30, 2023</u>
	(1)	(2)
1. Active members		
a. Service retirement benefits	\$ 77,196,939	\$ 70,333,785
b. Deferred termination benefits	-	-
c. Refunds	-	-
d. Pre-retirement death benefits	678,415	689,657
e. Non-occupational disability retirement benefits	-	-
f. Occupational disability retirement benefits	-	-
g. Total	<u>\$ 77,875,354</u>	<u>\$ 71,023,442</u>
2. Retired members		
a. Service retirements	\$ 48,021,174	\$ 49,036,609
b. Disability retirements	-	-
c. Beneficiaries	2,986,006	3,063,982
d. Total	<u>\$ 51,007,180</u>	<u>\$ 52,100,591</u>
3. Inactive members	<u>\$ 626,215</u>	<u>\$ 585,248</u>
4. Total actuarial present value of future benefits	\$ 129,508,749	\$ 123,709,281
5. Determination of actuarial accrued liability		
a. Total actuarial present value of future benefits	\$ 129,508,749	\$ 123,709,281
b. Less present value of future normal costs	<u>(22,538,971)</u>	<u>(22,710,209)</u>
c. Actuarial accrued liability (a + b)	\$ 106,969,778	\$ 100,999,072



## Table 4

### Schedule of Funding Progress

Valuation Date	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability	Unfunded Actuarial Accrued Liability (UAAL) (3)-(2)	Funded Ratio (2)/(3)	Annual Covered Payroll	UAAL as % of Payroll (4)/(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
June 30, 2007 <sup>1</sup>	29,630,637	35,355,326	5,724,689	83.8%	6,451,666	88.7%
June 30, 2008 <sup>2</sup>	34,670,394	38,115,602	3,445,208	91.0%	6,601,889	52.2%
June 30, 2009	36,839,221	41,738,040	4,898,819	88.3%	6,843,454	71.6%
June 30, 2010	38,074,287	48,941,360	10,867,073	77.8%	7,461,120	145.6%
June 30, 2010 <sup>3</sup>	38,074,287	46,641,701	8,567,414	81.6%	7,461,120	114.8%
June 30, 2011	40,105,919	46,594,407	6,488,488	86.1%	8,474,716	76.6%
June 30, 2012	43,428,646	52,085,154	8,656,508	83.4%	8,822,823	98.1%
June 30, 2013 <sup>4</sup>	47,640,773	54,429,531	6,788,758	87.5%	8,975,536	75.6%
June 30, 2014 <sup>5</sup>	53,830,516	57,504,663	3,674,147	93.6%	9,309,572	39.5%
June 30, 2015	60,004,470	61,963,672	1,959,202	96.8%	9,285,354	21.1%
June 30, 2016	64,401,616	65,287,527	885,911	98.6%	9,034,080	9.8%
June 30, 2017	68,784,251	73,728,347	4,944,096	93.3%	9,569,304	51.7%
June 30, 2018	73,673,771	76,198,297	2,524,526	96.7%	9,237,641	27.3%
June 30, 2019	78,027,132	81,260,939	3,233,807	96.0%	9,928,890	32.6%
June 30, 2019 <sup>6</sup>	78,027,132	83,589,474	5,562,342	93.3%	9,928,890	56.0%
June 30, 2020	82,419,083	88,534,540	6,115,457	93.1%	10,220,315	59.8%
June 30, 2021	90,266,123	91,428,486	1,162,363	98.7%	10,651,072	10.9%
June 30, 2022 <sup>7</sup>	96,946,030	92,848,637	(4,097,393)	104.4%	12,027,297	(34.1%)
June 30, 2023	103,344,499	100,999,072	(2,345,427)	102.3%	12,355,040	(19.0%)
June 30, 2024	110,956,195	106,969,778	(3,986,417)	103.7%	13,159,340	(30.3%)

<sup>1</sup> Reflects the benefit changes enacted by Article 35.

<sup>2</sup> Restated to reflect the benefit changes enacted by Article 16.

<sup>3</sup> Restated after reflecting the Rhode Island Retirement Security Act of 2011.

<sup>4</sup> Restated to reflect recommended salary scale assumption.

<sup>5</sup> Restated to reflect impact of Article 21.

<sup>6</sup> June 30, 2019 results after assumption changes.

<sup>7</sup> June 30, 2022 results after assumption changes.

## Table 5

### Notes to Required Supplementary Information

Valuation date	June 30, 2024
Actuarial cost method	Entry Age Normal
Amortization method	Level percentage, closed
Remaining amortization period	N/A
Asset valuation method	5-Yr Smoothed Market
Actuarial assumptions:	
Investment rate of return:	7.00% *
Projected salary increase:	2.75% *
* Includes inflation at 2.50%.	
Cost of living adjustment	2.10%

## Table 6

### Plan Net Assets (Assets at Market or Fair Value)

Item (1)	June 30, 2024 (2)	June 30, 2023 (3)
1. Cash and cash equivalents	\$ 104,345	\$ 70,738
2. Receivables:		
a. Employer and member contributions	\$ 171,593	\$ 83
b. Transfers receivable	0	0
c. Miscellaneous	7,575	11,363
d. Total receivables	<u>\$ 179,168</u>	<u>\$ 11,446</u>
3. Investments		
a. Pooled trust	\$ 114,565,824	\$ 105,032,640
b. Plan specific investments	0	0
c. Total	<u>\$ 114,565,824</u>	<u>\$ 105,032,640</u>
4. Invested securities lending collateral	\$ 0	\$ 0
5. Property and equipment	<u>\$ 0</u>	<u>\$ 0</u>
6. Total assets	\$ 114,849,337	\$ 105,114,824
7. Liabilities		
a. Other post-employment benefit liability, net	\$ 0	\$ 0
b. Securities lending liability	0	0
c. Accounts and vouchers payable	34,946	47,627
d. Total liabilities	<u>\$ 34,946</u>	<u>\$ 47,627</u>
8. Total market value of assets available for benefits		
Total (Item 6 - Item 7)	\$ 114,814,391	\$ 105,067,197

## Table 7

### Reconciliation of Plan Net Assets

Item (1)	June 30, 2024 (2)	June 30, 2023 (3)
1. Market value of assets as of beginning of year		
a. Market value of assets as of beginning of year	\$ 105,067,197	\$ 97,841,372
b. Adjustment for market value of assets	0	0
c. Adjusted market value of assets as of beginning of year	\$ 105,067,197	\$ 97,841,372
2. Contributions		
a. Members	\$ 1,577,354	\$ 1,371,301
b. State	2,983,250	2,842,875
c. Service purchases	0	0
d. Total	\$ 4,560,604	\$ 4,214,176
3. Investment earnings, net of investment and administrative expenses	\$ 10,715,074	\$ 8,221,308
4. Expenditures for the year		
a. Benefit payments	\$ (5,474,264)	\$ (5,155,439)
b. Cost-of-living adjustments	(54,220)	(54,220)
c. Post-retirement death benefits	0	0
d. Pre-retirement death benefits	0	0
e. Social security supplements	0	0
f. Supplemental pensions	0	0
g. Refunds	0	0
h. Total expenditures	\$ (5,528,484)	\$ (5,209,659)
5. Transfers and other adjustments	\$ 0	\$ 0
6. Market value of assets at end of year	\$ 114,814,391	\$ 105,067,197

## Table 8

### Development of Actuarial Value of Assets

	Year Ending June 30, 2024																																																								
1. Market value of assets at beginning of year	\$ 105,067,197																																																								
2. Net new investments																																																									
a. Contributions	\$ 4,560,604																																																								
b. Benefits paid	(5,528,484)																																																								
c. Refunds	0																																																								
d. Subtotal	(967,880)																																																								
3. Market value of assets at end of year	\$ 114,814,391																																																								
4. Net earnings (3-1-2)	\$ 10,715,074																																																								
5. Assumed investment return rate	7.00%																																																								
6. Expected return	\$ 7,320,828																																																								
7. Excess return (4-6)	\$ 3,394,246																																																								
8. Development of amounts to be recognized as of June 30, 2024:																																																									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 15%; text-align: center;">Remaining Deferrals of Excess (Shortfall) of Investment Income</th> <th style="width: 15%; text-align: center;">Offsetting of Gains/(Losses)</th> <th style="width: 15%; text-align: center;">Net Deferrals Remaining</th> <th style="width: 10%; text-align: center;">Years Remaining</th> <th style="width: 15%; text-align: center;">Recognized for this valuation</th> <th style="width: 15%; text-align: center;">Remaining after this valuation</th> </tr> <tr> <th style="text-align: left;">Fiscal Year End</th> <th style="text-align: center;">(1)</th> <th style="text-align: center;">(2)</th> <th style="text-align: center;">(3) = (1) + (2)</th> <th style="text-align: center;">(4)</th> <th style="text-align: center;">(5) = (3) / (4)</th> <th style="text-align: center;">(6) = (3) - (5)</th> </tr> </thead> <tbody> <tr> <td>2020</td> <td style="text-align: right;">\$ 0</td> <td style="text-align: right;">\$ 0</td> <td style="text-align: right;">\$ 0</td> <td style="text-align: center;">1</td> <td style="text-align: right;">\$ 0</td> <td style="text-align: right;">\$ 0</td> </tr> <tr> <td>2021</td> <td style="text-align: right;">596,895</td> <td style="text-align: right;">0</td> <td style="text-align: right;">596,895</td> <td style="text-align: center;">2</td> <td style="text-align: right;">298,448</td> <td style="text-align: right;">298,447</td> </tr> <tr> <td>2022</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> <td style="text-align: center;">3</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> </tr> <tr> <td>2023</td> <td style="text-align: right;">1,125,803</td> <td style="text-align: right;">0</td> <td style="text-align: right;">1,125,803</td> <td style="text-align: center;">4</td> <td style="text-align: right;">281,451</td> <td style="text-align: right;">844,352</td> </tr> <tr> <td>2024</td> <td style="text-align: right; border-bottom: 1px solid black;">3,394,246</td> <td style="text-align: right; border-bottom: 1px solid black;">0</td> <td style="text-align: right; border-bottom: 1px solid black;">3,394,246</td> <td style="text-align: center;">5</td> <td style="text-align: right; border-bottom: 1px solid black;">678,849</td> <td style="text-align: right; border-bottom: 1px solid black;">2,715,397</td> </tr> <tr> <td></td> <td style="text-align: right;">\$ 5,116,944</td> <td style="text-align: right;">\$ 0</td> <td style="text-align: right;">\$ 5,116,944</td> <td></td> <td style="text-align: right;">\$ 1,258,748</td> <td style="text-align: right;">\$ 3,858,196</td> </tr> </tbody> </table>		Remaining Deferrals of Excess (Shortfall) of Investment Income	Offsetting of Gains/(Losses)	Net Deferrals Remaining	Years Remaining	Recognized for this valuation	Remaining after this valuation	Fiscal Year End	(1)	(2)	(3) = (1) + (2)	(4)	(5) = (3) / (4)	(6) = (3) - (5)	2020	\$ 0	\$ 0	\$ 0	1	\$ 0	\$ 0	2021	596,895	0	596,895	2	298,448	298,447	2022	0	0	0	3	0	0	2023	1,125,803	0	1,125,803	4	281,451	844,352	2024	3,394,246	0	3,394,246	5	678,849	2,715,397		\$ 5,116,944	\$ 0	\$ 5,116,944		\$ 1,258,748	\$ 3,858,196	
	Remaining Deferrals of Excess (Shortfall) of Investment Income	Offsetting of Gains/(Losses)	Net Deferrals Remaining	Years Remaining	Recognized for this valuation	Remaining after this valuation																																																			
Fiscal Year End	(1)	(2)	(3) = (1) + (2)	(4)	(5) = (3) / (4)	(6) = (3) - (5)																																																			
2020	\$ 0	\$ 0	\$ 0	1	\$ 0	\$ 0																																																			
2021	596,895	0	596,895	2	298,448	298,447																																																			
2022	0	0	0	3	0	0																																																			
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2024	3,394,246	0	3,394,246	5	678,849	2,715,397																																																			
	\$ 5,116,944	\$ 0	\$ 5,116,944		\$ 1,258,748	\$ 3,858,196																																																			
9. Actuarial value of assets as of June 30, 2024 (Item 3 - Item 8)	\$ 110,956,195																																																								
10. Ratio of actuarial value to market value	96.6%																																																								

\*Values of \$0 result from the beginning balance being offset by future gains or losses in the opposite direction.

## Table 9

### Distribution of Assets at Market Value (Percentage of Total Investments)

Item (1)	June 30, 2024 (2)
US Equity	25.90%
International Developed Equity	10.00%
Emerging Markets Equity	4.10%
Private Equity and Opportunistic Private Credit	12.50%
Non-Core Real Estate	2.50%
Equity Options	2.00%
EMD (50/50 Blend)	0.00%
Liquid Credit	5.00%
Private Credit	3.00%
CLOs	2.00%
Treasury Duration	5.00%
Systematic Trend	5.00%
Core Real Estate	4.00%
Private Infrastructure	4.00%
IG Corp Credit	3.25%
Securitized Credit	3.25%
Absolute Return	6.50%
Cash	2.00%
Total investments	100.00%

## Table 10

### History of Investment Return Rates

Year Ending June 30 of (1)	Market (2)	Actuarial (3)
1996	13.7%	13.7%
1997	19.1%	19.1%
1998	16.1%	16.5%
1999	10.1%	14.7%
2000	9.1%	8.8%
2001	-11.0%	4.9%
2002	-8.4%	0.9%
2003	4.3%	1.4%
2004	18.0%	4.1%
2005	10.2%	5.9%
2006	11.6%	8.8%
2007	18.2%	12.2%
2008	-5.9%	9.1%
2009	-19.5%	1.9%
2010	13.4%	1.2%
2011	19.4%	3.2%
2012	1.6%	5.4%
2013	10.7%	6.6%
2014	15.0%	8.6%
2015	2.2%	7.6%
2016	0.0%	5.7%
2017	11.6%	6.1%
2018	7.8%	6.7%
2019	6.5%	6.7%
2020	3.7%	6.1%
2021	27.2%	10.2%
2022	-2.8%	8.2%
2023	8.4%	7.7%
2024	10.2%	8.3%
Average Returns:		
Last 5 Years	8.9%	8.1%
Last 10 Years	7.2%	7.3%
Since 1996	7.1%	7.5%

## Table 11a

### Analysis of Change in Employer Cost

<u>Basis</u>	<u>Employer Cost</u>
1. Employer contribution rates from prior valuation	17.75%
2. Impact of changes, gains and losses	
a. Non-salary normal cost and liability experience (gain)/loss	-0.25%
b. Salary (gain)/loss	0.40%
c. Total payroll growth (gain)/loss	0.06%
d. Investment experience (gain)/loss	-0.49%
e. Changes in assumptions	0.00%
f. Changes in plan provisions	<u>0.00%</u>
g. Total	-0.28%
3. Employer contribution rates from current valuation	17.47%



## Table 11b

### History of Employer Contribution Rates

Valuation Date as of June 30, <u>(1)</u>	Fiscal Year Ending June 30, <u>(2)</u>	<u>Employer Contribution Rate</u> <u>(3)</u>
1999	2002	31.58%
2000	2003	33.42%
2001	2004	33.90%
2002	2005	36.19%
2003	2006	35.51%
2004	2007	36.07%
2005	2008	32.07%
2006	2009	24.06% <sup>1</sup>
2007	2010	16.19% <sup>2</sup>
2008	2011	16.19% <sup>2</sup>
2009	2012	18.69%
2010	2013	19.69% <sup>3</sup>
2011	2014	27.28%
2012	2015	28.32%
2013	2016	26.80%
2014	2017	21.58% <sup>4</sup>
2015	2018	21.13%
2016	2019	20.28%
2017	2020	21.30%
2018	2021	21.61%
2019	2022	21.82%
2020	2023	24.16%
2021	2024	22.12%
2022	2025	18.20%
2023	2026	17.75%
2024	2027	17.47%

<sup>1</sup> Reflects changes in benefit provisions enacted by Article 35.

<sup>2</sup> Restated to reflect changes in benefit provisions enacted by Article 16.

<sup>3</sup> Restated after reflecting the Rhode Island Retirement Security Act of 2011.

<sup>4</sup> Restated after reflecting the impact of Article 21.

## Table 11c

### Analysis of Change in UAAL

Basis (1)	June 30, 2024 (2)
1. UAAL as of June 30, 2023:	\$ (2,345)
2. Impact of changes, gains and losses	
a. Interest at 7.00% for one year	(164)
b. Expected amortization payments	(720)
c. Investment experience (gain)/loss	(1,379)
d. Salary (gain)/loss	1,034
e. Non-salary liability experience (gain)/loss	(412)
f. Changes in assumptions	0
g. Changes in plan provisions	0
i. Total	\$ (1,641)
3. UAAL as of June 30, 2024:	\$ (3,986)

Note: All dollar figures are shown in thousands.

## Table 12

### Membership Data (State Judges)

	<u>June 30, 2024</u> (1)	<u>June 30, 2023</u> (2)
1. Active members		
a. Number	62	60
b. Number eligible to retire	16	14
c. Total annualized payroll supplied by State	\$ 13,159,340	\$ 12,355,040
d. Average salary	\$ 212,247	\$ 205,917
e. Average age	61.2	60.5
f. Average service	10.1	9.4
2. Inactive members		
a. Number	1	1
3. Service retirees		
a. Number	31	31
b. Total annual benefits	\$ 5,160,773	\$ 5,151,960
c. Average annual benefit	\$ 166,477	166,192
d. Average age	75.6	74.6
4. Disabled retirees		
a. Number	0	0
b. Total annual benefits	\$ 0	\$ 0
c. Average annual benefit	N/A	N/A
d. Average age	N/A	N/A
5. Beneficiaries and spouses		
a. Number	5	5
b. Total annual benefits	\$ 349,148	\$ 349,148
c. Average annual benefit	\$ 69,830	\$ 69,830
d. Average age	78.3	77.3

## Table 13

### Historical Summary of Active Member Data

Valuation as of June 30,	Active Members		Covered Payroll		Average Salary		Average Age	Average Service
	Number	Percent Increase	Amount	Percent Increase	Amount	Percent Increase		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2002	39	11.4%	4,738,059	15.8%	121,489	3.9%	55.6	7.5
2003	42	7.7%	5,303,153	11.9%	126,266	3.9%	55.8	7.6
2004	44	4.8%	5,637,865	6.3%	128,133	1.5%	56.9	8.2
2005	44	0.0%	5,684,585	0.8%	129,195	0.8%	58.3	8.4
2006	45	2.3%	6,313,069	11.1%	140,290	8.6%	58.3	9.0
2007	44	-2.2%	6,451,666	2.2%	146,629	4.5%	59.0	9.8
2008	43	-2.3%	6,601,889	2.3%	153,532	4.7%	59.4	10.4
2009	45	4.7%	6,843,454	3.7%	152,077	-0.9%	58.6	10.0
2010	49	8.9%	7,461,120	9.0%	152,268	0.1%	58.8	10.2
2011	54	10.2%	8,474,716	13.6%	156,939	3.1%	58.8	9.6
2012	53	-1.9%	8,822,823	4.1%	166,468	6.1%	59.7	10.5
2013	54	1.9%	8,975,536	1.7%	166,214	-0.2%	60.2	10.9
2014	56	3.7%	9,309,572	3.7%	166,242	0.0%	60.9	11.1
2015	54	-3.6%	9,285,354	-0.3%	171,951	3.4%	61.6	11.4
2016	52	-3.7%	9,034,080	-2.7%	173,732	1.0%	61.5	11.2
2017	55	5.8%	9,569,304	5.9%	173,987	0.1%	62.0	11.4
2018	53	-3.6%	9,237,641	-3.5%	174,295	0.2%	62.0	11.5
2019	55	3.8%	9,928,890	7.5%	180,525	3.6%	60.5	10.6
2020	54	-1.8%	10,220,315	2.9%	189,265	4.8%	61.3	11.7
2021	56	3.7%	10,651,072	4.2%	190,198	0.5%	60.8	10.4
2022	60	7.1%	12,027,297	12.9%	200,455	5.4%	61.3	10.0
2023	60	0.0%	12,355,040	2.7%	205,917	2.7%	60.5	9.4
2024	62	3.3%	13,159,340	6.5%	212,247	3.1%	61.2	10.1

## Table 14

### Distribution of Active Members by Age and by Years of Service As of June 30, 2024

Attained Age	Years of Credited Service												Total Count & Avg. Comp.	
	0 Count & Avg. Comp.	1 Count & Avg. Comp.	2 Count & Avg. Comp.	3 Count & Avg. Comp.	4 Count & Avg. Comp.	5-9 Count & Avg. Comp.	10-14 Count & Avg. Comp.	15-19 Count & Avg. Comp.	20-24 Count & Avg. Comp.	25-29 Count & Avg. Comp.	30-34 Count & Avg. Comp.	35 & Over Count & Avg. Comp.		
Under 30	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0
30-34	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0
35-39	0 \$0	1 \$182,708	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	1 \$182,708
40-44	0 \$0	1 \$197,991	0 \$0	1 \$195,340	0 \$0	2 \$195,925	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	4 \$196,295
45-49	0 \$0	0 \$0	0 \$0	1 \$216,966	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	1 \$216,966
50-54	1 \$182,303	2 \$202,093	1 \$198,379	1 \$204,994	0 \$0	1 \$227,689	1 \$225,793	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	7 \$206,192
55-59	0 \$0	1 \$191,844	3 \$199,996	1 \$195,124	0 \$0	6 \$205,186	3 \$216,440	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	14 \$204,814
60-64	0 \$0	0 \$0	0 \$0	2 \$199,491	0 \$0	3 \$202,623	4 \$208,254	4 \$221,681	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	13 \$209,738
65-69	0 \$0	0 \$0	2 \$198,571	1 \$223,668	0 \$0	3 \$208,870	5 \$219,726	4 \$227,350	5 \$230,961	0 \$0	2 \$263,453	0 \$0	0 \$0	22 \$224,416
70 & Over	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0
Total	1 \$182,303	5 \$195,346	6 \$199,251	7 \$205,010	0 \$0	15 \$205,676	13 \$215,904	8 \$224,515	5 \$230,961	0 \$0	2 \$263,453	0 \$0	0 \$0	62 \$212,247



## **APPENDIX A**

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### **SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS**

## APPENDIX A

### Summary of Actuarial Methods and Assumptions

#### I. Valuation Date

The valuation date is June 30th of each plan year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

#### II. Actuarial Cost Method

The actuarial valuation uses the Entry Age Normal actuarial cost method. Under this method, the employer contribution rate is the sum of (i) the employer normal cost rate, and (ii) a rate that will amortize the unfunded actuarial accrued liability (UAAL).

1. First, the actuarial present value of future benefits is determined by discounting the projected benefits for each member back to the valuation date using the assumed investment return rate as the discount rate. For active members, the projected benefits are based on the member's age, service, sex and compensation, and based on the actuarial assumptions. The calculations take into account the probability of the member's death, disability, or termination of employment prior to becoming eligible for a retirement benefit, as well as the possibility of the member will remain in service and receive a service retirement benefit. Future salary increases are anticipated. The present value of the expected benefits payable to all active members is added to the present value of the expected future payments to retired participants and beneficiaries to obtain the present value of all expected benefits. Liabilities for future members are not included.
2. The employer contributions required to support the benefits are determined as a level percentage of salary, and consist of a normal contribution and an amortization contribution.
3. The normal contribution is determined using the Entry Age Normal method. Under this method, a calculation is made to determine the rate of contribution which, if applied to the compensation of each individual member during the entire period of anticipated covered service, would be required to meet the cost of all benefits payable on his behalf. The salary-weighted average of these rates is the normal cost rate. This calculation reflects the plan provisions that apply to each individual member.
4. The employer normal cost rate is equal to (i) the normal cost rate, minus (ii) the member contribution rate.

## APPENDIX A (Continued)

5. The actuarial accrued liability is equal to the present value of all benefits less the present value of future normal costs. The unfunded actuarial accrued liability (UAAL) is then determined as (i) the actuarial accrued liability, minus (ii) the actuarial value of assets.
6. The amortization contribution rate is the level percentage of payroll required to reduce the UAAL to zero over the remaining amortization period. The employer contribution rate determined by this valuation will not be effective until two years after the valuation date. The determination of the contribution rate reflects this deferral. The amortization payment for the applicable fiscal year is first determined based on the individual amortization bases. The covered payroll is projected forward for two years, and we then determine the amortization rate by dividing the amortization payment by the projected payroll. Contributions are assumed to be made monthly throughout the year.
  - (a) The UAAL was initially being amortized over the remainder of a closed 30-year period from June 30, 1999. In conjunction with The Rhode Island Retirement Security Act of 2011, the amortization period was reset to 25 years as of June 30, 2010 for the UAAL that existed at that time. New gains and losses each year will be amortized over individual 20 year periods. At any time that the System is in an overfunded status, all prior bases are erased and an amount of the surplus is credited against the contribution rate to keep the funded ratio constant year over year.

### III. Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income. Offsetting unrecognized gains and losses are immediately recognized, with the shortest remaining bases recognized first and the net remaining bases continue to be recognized on their original timeframe. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses.



## APPENDIX A (Continued)

### IV. Actuarial Assumptions

#### A. Economic Assumptions

1. Investment return: 7.00% per year, compounded annually, composed of an assumed 2.50% inflation rate and a 4.50% net real rate of return. This rate represents the assumed return, net of all investment and administrative expenses.
2. Salary increase rate: Salaries are assumed to increase at the rate of 2.75% per year.

Salary increases are assumed to occur once a year, on July 1. Therefore the pay used for the period between the valuation date and the first anniversary of the valuation date is equal to the reported pay for the prior year, increased by the salary increase assumption.

3. Payroll growth rate: In the amortization of the unfunded liability, payroll is assumed to increase 2.50% per year. This assumption includes no allowance for future membership growth.

## APPENDIX A (Continued)

4. Post-retirement Benefit Increase: Post-retirement benefit increases are assumed to be 2.10%, per annum while the plan has a funding level that exceeds 75%; however, an interim adjustment will be granted every fourth year. The actual amount of the COLA is determined based on 50% of the plan's five-year average investment rate of return minus 5.00% which will range from zero to 4.0%, and 50% of the lesser of 3% or last year's CPI-U increase for a total maximum increase of 3.50%.

### B. Demographic Assumptions

1. Post-termination mortality rates (non-disabled lives)
  - a. Male: PUB(10) Above Median Table for Healthy General Employee Males, projected with Scale MP2021 with immediate convergence.
  - b. Females: PUB(10) Above Median Table for Healthy General Employee Females, projected with Scale MP2021 with immediate convergence.
2. Post-termination mortality rates (disabled lives)
  - a. Males: PUB(10) Tables for Disabled Retirees by Occupation for males, projected with Scale MP2021 with immediate convergence.
  - b. Females: PUB(10) Tables for Disabled Retirees by Occupation for females, projected with Scale MP2021 with immediate convergence.
3. Pre-termination mortality rates
  - a. Males: PUB(10) Tables for Disabled Retirees by Occupation for males, projected with Scale MP2021 with immediate convergence.
  - b. Females: PUB(10) Tables for Disabled Retirees by Occupation for females, projected with Scale MP2021 with immediate convergence.
4. Disability rates – None
5. Termination rates – None
6. Retirement rates – 33% of members are assumed to retire when first eligible for a reduced retirement benefit (age 65 with 10 years of service, or any age with 20 years of service). All other members are assumed to retire when eligible for an unreduced retirement benefit (age 65 with 20 years of service, or age 70 with 15 years of service). Judges who have not reached eligibility for a retirement benefit by age 75 are assumed to terminate at age 75 and receive either a reduced retirement benefit, if eligible, or a refund.

### C. Other Assumptions

1. Percent married: 85% of employees are assumed to be married.



## APPENDIX A (Continued)

2. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
3. Remarriage: It is assumed that no surviving spouse will remarry and there will be no children's benefit.
4. All married members appointed after January 1, 2009 will elect the optional spouse's coverage at retirement.
5. Investment and administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.

### V. Participant Data

Participant data was supplied in electronic files for active members and retirees. The data for active members included birth date, sex, service, salary and employee contribution account balance. For retired members and beneficiaries, the data included date of birth, sex, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and a form of payment code.

## **APPENDIX B**

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### **SUMMARY OF BENEFIT PROVISIONS**

## APPENDIX B

### Summary of Benefit Provisions

1. Effective Date and Authority: The Judicial Retirement Benefits Trust (JRBT) became effective on January 1, 1990 for judges hired on or after that date. Benefits are described in Rhode Island General Laws, Title 8, Chapters 3, 8, and 16, Title 28, Chapter 30, and Title 31, Chapter 43.
2. Plan Year: A twelve-month period ending June 30th.
3. Administration: The Judicial Retirement Benefits Trust is administered by the State of Rhode Island Retirement Board. However, the State Investment Commission is responsible for the investment of the trust assets, including the establishment of the asset allocation policy. Assets are commingled for investment purposes with those of the Employees' Retirement System of Rhode Island and various other plans and programs.
4. Type of Plan: The Judicial Retirement Benefits Trust is a qualified governmental defined benefit retirement plan. For Governmental Accounting Standards Board purposes, it is a single-employer plan.
5. Eligibility: All judges or justices of the Supreme Court, a superior court, a district court, a family court, an administrative adjudication court or a workers' compensation court participate in this plan if they were hired on or after January 1, 1990. (These are referred to collectively as state judges.) Benefits for state judges hired before January 1, 1990 are being paid by the state from the general assets of the state, on a pay-as-you-go basis. Eligible state judges become members at their date of employment.
6. Salary: Contributions are based on the judge's salary. Benefits are based on the judge's salary at the time of retirement.
7. Employee Contributions: State judges contribute 8.75% of their salary per year. Effective July 1, 2012, State judges (excluding justices of supreme, superior, family, and district courts) will contribute 12.00% of their salary per year. Active justices of supreme, superior, and family courts as of June 30, 2011 contribute the rate in effect as of June 30, 2012. The State "picks up" the members' contributions for its employees under the provisions of Internal Revenue Code (IRC) Section 414(h).

## APPENDIX B (Continued)

8. Employer Contributions: The State contributes an actuarially determined percentage of the member's annual salary. Contributions determined in a given actuarial valuation go into effect two years after the actuarial valuation.
9. Final Average Compensation (FAC)
  - a. For judges who became members on or before July 2, 1997, one-twelfth of the judge's annual salary at the time of retirement.
  - b. For judges who became members after July 2, 1997 but before July 1, 2009, one-twelfth of the average of the judge's highest three consecutive annual salaries.
  - c. For judges who became members on or after July 1, 2009, one-twelfth of the average of the judge's highest five consecutive annual salaries.
  - d. Benefits for death while an active member are based on the member's salary at the time of death, regardless of when the judge became a member.
10. Full Retirement
  - a. Eligibility: All judges are eligible for unreduced retirement at or after age 65 if the judge has served for 20 years, or at or after age 70 after 15 years of service.
  - b. Monthly Benefit:
    - (i) Judges who were appointed prior to January 1, 2009 receive 100% of FAC at retirement.
    - (ii) Judges who were appointed on or after January 1, 2009 but prior to July 1, 2009 receive 90% of FAC at retirement, and take an additional 10% reduction to 80% of FAC at retirement if they wish to elect the spouse's death benefit.
    - (iii) Judges who were appointed on or after July 1, 2009 receive 80% of FAC at retirement, or 70% of FAC at retirement if they wish to elect the spouse's death benefit.
  - c. Payment Form: Benefits are paid as a monthly life annuity. Members appointed prior to January 1, 2009 automatically receive the spouse's death benefit described below. Members appointed on or after January 1, 2009 must elect to a reduced benefit as described above if they wish to receive the spouse's death benefit. There are no other optional forms of payment available.



## APPENDIX B (Continued)

- d. Death Benefit: After the death of a retired member, if the member was married, 50% of the retiree's benefit is paid to the surviving spouse for life (or until remarriage) if spouse's death benefit is elected. (No election or benefit reduction is required for members appointed prior to January 1, 2009.)

### 11. Reduced Retirement

- a. Eligibility: A judge is eligible for a reduced retirement benefit at age 65 if the judge has served for 10 years, or at any age after 20 years of service.
- b. Reduced Retirement Benefit:
  - (i) For judges who were appointed prior to January 1, 2009: 75% of FAC at retirement.
  - (ii) For judges who were appointed on or after January 1, 2009 but prior to July 1, 2009: receive 70% of FAC at retirement, or take an additional 10% reduction to 60% of FAC at retirement if they wish to elect the spouse's death benefit.
  - (iii) For judges who were appointed on or after July 1, 2009: receive 65% of FAC at retirement, or 55% of FAC at retirement if they wish to elect the spouse's death benefit.
- c. Payment Form: Same as for Full Retirement.
- d. Death Benefit: Same as for Full Retirement.

### 12. Refunds

- a. Eligibility: All judges leaving covered employment for a reason other than death or retirement.
- b. Benefit: A lump-sum payment equal to the sum of his/her employee contributions. No interest is credited on these contributions.

### 13. Death Benefit of Active Members

After the death of an active member, if the member was married, a benefit will be paid to the spouse until his/her death or remarriage. The benefit is equal to 25% of the judge's salary at death if the member had less than seven years of service. If the judge had at least seven but less than 15 years of service, the benefit is equal to 1/3 of the judge's salary at death. If the judge had at least 15 years of service or if the judge was eligible for retirement, the spouse receives 50% of the judge's salary at death. Benefits are payable until the spouse's death or remarriage. Benefits may be paid to any minor



## APPENDIX B (Continued)

children after the death of the spouse. If an active member dies without having a spouse or minor children, a refund is paid to the member's beneficiary.

### 14. Post-retirement Benefit Increase:

- a. For members who retired or will be eligible for retirement as of June 12, 2010: members receive an increase equal to 3.00% of the original benefit each year, beginning in January of the year in which the member reaches the third anniversary of retirement. The increase applies to both retirement and death benefits. This increase is not tied in any way to actual increases in the cost of living. (Judges of the administrative adjudication and workers compensation courts receive a compound 3.00% increase, rather than a simple 3.00% increase.)
- b. For members who are or were formally justices of supreme, superior, family, and district courts and were not retired or were not eligible to retire as of June 12, 2010: The member will receive the first COLA upon the later of their third anniversary of retirement or when the member reaches age 65. The annual increase in the member's benefit will be equal to the lesser of their original benefit and the COLA limit in effect in the year the member retires, multiplied by the percentage increase in CPI up to a maximum of 3.0% per year. The COLA will be provided on a simple basis. The applicable annual COLA limit will be \$35,000 in 2010, and increase annually by the percentage increase in the Consumer Price Index (CPI) up to a maximum of 3.0% per year. No COLA would be paid on any part of the annual benefit in excess of this limit. The annual increase in the COLA limit will be determined on a compound basis.
- c. For members who are or were formally judges of the administrative adjudication court, traffic tribunal, and workers' compensation court and were not retired or were not eligible to retire as of June 12, 2010: The member will receive the first COLA upon the later of their third anniversary of retirement or when the member reaches age 65. The annual increase in the member's benefit will be equal to the lesser of the current benefit and the current COLA limit, multiplied by the percentage increase in CPI up to a maximum of 3.0% per year. The COLA will be provided on a compound basis. The applicable annual COLA limit will initially be \$35,000, and increase annually by the percentage increase in the Consumer Price Index (CPI) up to a maximum of 3.0% per year. No COLA would be paid on any part of the annual benefit in excess of this limit. The annual increase in the COLA limit will be determined on a compound basis.
- d. For members who retire after June 30, 2012: members will be eligible to receive cost of living increases at the later of the member's third anniversary of retirement and the month following their SSNRA.
- e. Effective July 1, 2012, the following provisions will apply to all members:



## APPENDIX B (Continued)

- (i) The COLA will be suspended for all state employees, teachers, BHDDH nurses, correctional officers, judges and state police until the aggregate funding level of their plans exceeds 75%; however, an interim COLA will be granted in four-year intervals while the COLA is suspended. The next interim COLA will be in 2025.
  - (ii) The COLA is determined based on 50% of the plan's five-year average investment rate of return less 5.5% limited to a range of 0.0% to 4.0%, plus 50% of the lesser of 3.0% or last year's CPI-U increase for a total maximum increase of 3.50%.
  - (iii) The COLA will be limited to the first \$25,000 of the member's annual pension benefit. For retirees and beneficiaries who retired on or before July 1, 2015, years in which a COLA is payable during the suspension described in (i) above will be limited to the first \$30,000. These limits will be indexed annually to increase in the same manner as COLAs, with the known values of \$25,000 for 2013, \$25,000 for 2014, \$25,168 for 2015, \$25,855 for 2016, \$26,098 for 2017, \$26,290 for 2018, \$26,687 for 2019, \$27,184 for 2020, \$27,608 for 2021, \$27,901 for 2022, \$28,878 for 2023, \$29,776 for 2024, \$30,622 for 2025 and \$31,507 for 2026.
- f. In addition to the scheduled increases described in section (e) above, there will be a one-time 2% COLA paid in FY2016 on the first \$25,000 of pension benefit for all retirees and beneficiaries who retired on or before June 30, 2012. There will also be two one-time stipends of \$500 payable in FY2016 and FY2017 to retirees and beneficiaries who retired on or before June 30, 2015.

## **APPENDIX C**

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### **RISKS ASSOCIATED WITH MEASURING THE ACCRUED LIABILITY AND ACTUARIALLY DETERMINED CONTRIBUTION**

## APPENDIX C

### Risks Associated with Measuring the Accrued Liability and Actuarially Determined Contribution

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

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

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

1. Investment risk – actual investment returns may differ from the expected returns;
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;
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;
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.

## APPENDIX C (Continued)

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

The computed contribution rate shown on page 9 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.

### PLAN MATURITY MEASURES

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

	<u>June 30, 2024</u>	<u>June 30, 2023</u>	<u>June 30, 2022</u>
Ratio of the market value of assets to total payroll	8.7	8.5	8.1
Ratio of actuarial accrued liability to payroll	8.1	8.2	7.7
Ratio of actives to retirees and beneficiaries	1.7	1.7	1.9
Ratio of net cash flows to market value of assets	-0.9%	-1.0%	-0.7%
Duration of the present value of benefits	11.3	11.1	11.3

### RATIO OF MARKET VALUE OF ASSETS TO PAYROLL

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 4.0 times the payroll, a return on assets 5% different than assumed would equal 20% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

### RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 5.5 times the payroll, a change in liability 2% other than assumed would equal 11% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

## APPENDIX C (Continued)

### **RATIO OF ACTIVES TO RETIREES AND BENEFICIARIES**

A young plan with many active members and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

### **RATIO OF NET CASH FLOW TO MARKET VALUE OF ASSETS**

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

### **DURATION OF PRESENT VALUE OF BENEFITS**

The duration of the present value of benefits (PVB) may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, duration of 10 indicates that the PVB would increase approximately 10% if the assumed rate of return were lowered 1%.

### **ADDITIONAL RISK ASSESSMENT**

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability. These types of other assessments are provided to the Board in the annual presentation.

## **Low-Default-Risk Obligation Measure**

Actuarial Standards of Practice No. 4 (ASOP No. 4) was revised and reissued in December 2021 by the Actuarial Standards Board (ASB). It includes a new calculation called a low-default-risk obligation measure (LDRM) to be prepared and issued annually for defined benefit pension plans. The transmittal memorandum for ASOP No. 4 includes the following explanation:

*“The ASB believes that the calculation and disclosure of this measure provides appropriate, useful information for the intended user regarding the funded status of a pension plan. The calculation and disclosure of this additional measure is not intended to suggest that this is the “right” liability measure for a pension plan. However, the ASB does believe that this additional disclosure provides a more complete assessment of a plan’s funded status and provides additional information regarding the security of benefits that members have earned as of the measurement date.”*

The LDRM estimates the amount of money the plan would need to invest in low risk securities to provide the benefits with greater certainty. The current model expects lower costs but with higher risk, which creates less certainty and a possibility of higher costs. The LDRM model creates higher expected costs but more predictability when compared to the current model. Thus, the difference between the two measures (Valuation and LDRM) is one illustration of the possible costs the sponsor could incur if there was a reduction in the investment risk in comparison to the current diversified portfolio.

## APPENDIX C (Continued)

However, the downside risk would be limited in the scenarios where the current portfolio would fail to achieve returns in excess of the low-default-risk discount, in this case 5.32%.

The following information has been prepared in compliance with this new requirement. Unless otherwise noted, the measurement date, actuarial cost methods, and assumptions used are the same as for the funding valuation covered in this actuarial valuation report.

LDRM measure of benefits earned as of the measurement date:	\$122 million
Valuation liability (IEAN) at 7% on measurement date:	<u>107 million</u>
Cost to mitigate investment risk in the System's portfolio:	\$ 15 million

The ERSRI benefit structure has several risk sharing provisions that are contingent on the investment returns of the portfolio and thus if the portfolio was changed to expect lower returns, the expected liabilities that are contingent on those returns would also decrease. If these provisions were not contingent on the investment performance, it would have increased the LDRM by another \$1.7 million, meaning these provisions reduced the impact of lowering the discount rate from 7.0% to 5.32% which is an illustration that a portion of the investment risk is currently being borne by the Members and not the Employers.

ASOP 4 requires commentary to help the intended user understand the significance of the LDRM with respect to the funded status of the plan, plan contributions, and the security of participant benefits. Specifically, if plan assets were changed to be invested exclusively in low-default-risk securities, the funded status would be lower and the contributions would have to immediately be higher. In addition, since the future benefit adjustments are depending on funded status and investment performance, the benefit payments would also be lower. While investing in a portfolio with low-default-risk securities may be more likely to reduce the standard deviation of investment volatility, the higher necessary contributions would produce a larger ratio of assets to payroll, and thus it is not self-evident that the volatility of the employer contributions would be any lower. In addition, the portfolio would be expected to generate less investment earnings over time, thus it also would be more likely to result in higher employer contributions and/or lower benefits.

Disclosures: Discount rate used to calculate LDRM: 5.32% Intermediate FTSE Pension Discount Curve as of June 30, 2024. Other significant assumptions that differ from those used for the funding valuation: Future assumed COLAs would decrease from 2.1% per year to 1.1% per year. This measure is not appropriate for assessing the need for or amount of future contributions as the current portfolio is expected to generate significantly more investment earnings than the low-default-risk portfolio. This measure is also not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligation as this measure includes projections of salary increases and the ability for current members to continue to accrue eligibility and vesting service.



## GLOSSARY

**Actuarial Accrued Liability (AAL):** That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of Future Plan Benefits which is not provided for by future Normal Costs. It is equal to the Actuarial Present Value of Future Plan Benefits minus the actuarial present value of future Normal Costs.

**Actuarial Assumptions:** Assumptions as to future experience under the Fund. These include assumptions about the occurrence of future events affecting costs or liabilities, such as:

- mortality, withdrawal, disablement, and retirement;
- future increases in salary;
- future rates of investment earnings and future investment and administrative expenses;
- characteristics of members not specified in the data, such as marital status;
- characteristics of future members;
- future elections made by members; and
- other relevant items.

**Actuarial Cost Method or Funding Method:** A procedure for allocating the Actuarial Present Value of Future Benefits to various time periods; a method used to determine the Normal Cost and the Actuarial Accrued Liability. These items are used to determine the ARC.

**Actuarial Gain or Actuarial Loss:** A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two Actuarial Valuation dates. Through the actuarial assumptions, rates of decrements, rates of salary increases, and rates of fund earnings have been forecasted. To the extent that actual experience differs from that assumed, Actuarial Accrued Liabilities emerge which may be the same as forecasted, or may be larger or smaller than projected. Actuarial gains are due to favorable experience, e.g., the Fund's assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, actuarial losses are the result of unfavorable experience, i.e., actual results that produce actuarial liabilities which are larger than projected. Actuarial gains will shorten the time required for funding of the actuarial balance sheet deficiency while actuarial losses will lengthen the funding period.

**Actuarially Equivalent:** Of equal actuarial present value, determined as of a given date and based on a given set of Actuarial Assumptions.

## GLOSSARY (Continued)

**Actuarial Present Value (APV):** The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. For purposes of this standard, each such amount or series of amounts is:

- a) adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, marital status, etc.)
- b) multiplied by the probability of the occurrence of an event (such as survival, death, disability, termination of employment, etc.) on which the payment is conditioned, and
- c) discounted according to an assumed rate (or rates) of return to reflect the time value of money.

**Actuarial Present Value of Future Plan Benefits:** The Actuarial Present Value of those benefit amounts which are expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and past and anticipated future compensation and service credits. The Actuarial Present Value of Future Plan Benefits includes the liabilities for active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members either entitled to a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would be provide sufficient assets to pay all projected benefits and expenses when due.

**Actuarial Valuation:** The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB 25, such as the funded ratio and the ARC.

**Actuarial Value of Assets or Valuation Assets:** The value of the Fund's assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets, but commonly actuaries use a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the ARC.

**Actuarially Determined:** Values which have been determined utilizing the principles of actuarial science. An actuarially determined value is derived by application of the appropriate actuarial assumptions to specified values determined by provisions of the law.

**Amortization Method:** A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL.





## GLOSSARY (Continued)

Under the Level Percentage of Pay method, the Amortization payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the assumed rate at which total covered payroll of all active members will increase.

**Amortization Payment:** That portion of the pension plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

**Annual Required Contribution (ARC):** The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB 25. The ARC consists of the Employer Normal Cost and the Amortization Payment.

**Closed Amortization Period:** A specific number of years that is counted down by one each year, and therefore declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc. See Funding Period and Open Amortization Period.

**Decrements:** Those causes/events due to which a member's status (active-inactive-retiree-beneficiary) changes, that is: death, retirement, disability, or termination.

**Defined Benefit Plan:** A retirement plan that is not a Defined Contribution Plan. Typically a defined benefit plan is one in which benefits are defined by a formula applied to the member's compensation and/or years of service.

**Defined Contribution Plan:** A retirement plan, such as a 401(k) plan, a 403(b) plan, or a 457 plan, in which the contributions to the plan are assigned to an account for each member, and the plan's earnings are allocated to each account, and each member's benefits are a direct function of the account balance.

**Employer Normal Cost:** The portion of the Normal Cost to be paid by the employers. This is equal to the Normal Cost less expected member contributions.

**Experience Study:** A periodic review and analysis of the actual experience of the Fund which may lead to a revision of one or more actuarial assumptions. Actual rates of decrement and salary increases are compared to the actuarially assumed values and modified as deemed appropriate by the Actuary.

**Funded Ratio:** The ratio of the actuarial value of assets (AVA) to the actuarial accrued liability (AAL). Plans sometimes calculate a market funded ratio, using the market value of assets (MVA), rather than the AVA.



## GLOSSARY (Continued)

**Funding Period** or **Amortization Period**: The term “Funding Period” is used in two ways. In the first sense, it is the period used in calculating the Amortization Payment as a component of the ARC. This funding period is chosen by the Board of Trustees. In the second sense, it is a calculated item: the number of years in the future that will theoretically be required to amortize (i.e., pay off or eliminate) the Unfunded Actuarial Accrued Liability, based on the statutory employer contribution rate, and assuming no future actuarial gains or losses.

**GASB**: Governmental Accounting Standards Board.

**GASB 67** and **GASB 68**: Governmental Accounting Standards Board Statements No. 67 and No. 68. These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67 sets the rules for the systems themselves.

**Normal Cost**: That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method. Any payment in respect of an Unfunded Actuarial Accrued Liability is not part of Normal Cost (see Amortization Payment). For pension plan benefits which are provided in part by employee contributions, Normal Cost refers to the total of employee contributions and employer Normal Cost unless otherwise specifically stated. Under the entry age normal cost method, the Normal Cost is intended to be the level cost (when expressed as a percentage of pay) needed to fund the benefits of a member from hire until ultimate termination, death, disability or retirement.

**Open Amortization Period**: An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.

**Unfunded Actuarial Accrued Liability**: The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. This value may be negative in which case it may be expressed as a negative Unfunded Actuarial Accrued Liability, also called the Funding Surplus.



## GLOSSARY (Continued)

**Valuation Date or Actuarial Valuation Date:** The date as of which the value of assets is determined and as of which the Actuarial Present Value of Future Plan Benefits is determined. The expected benefits to be paid in the future are discounted to this date.