

# **Sheriffs' Retirement System of the State of Montana**



**Actuarial  
Valuation Report**

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**Prepared as of June 30, 2025**

September 30, 2025

Public Employees' Retirement Board  
100 North Park, Suite 200  
Helena, MT 59620-0139

Members of the Board:

In this report are submitted the results of the annual valuation of the assets and liabilities of the Sheriffs' Retirement System of Montana of the State of Montana (SRS), prepared as of June 30, 2025.

The purpose of this report is to provide a summary of the funded status of the System as of June 30, 2025 to determine the adequacy of the System's funding policy, to compare the actual and expected experience during the year ending June 30, 2025, to assess and disclose the key risks associated with funding the System, and to analyze and report on trends in contributions, assets and liabilities over the past several years. While not verifying the data at source, the actuary performed tests for consistency and reasonability. The valuation indicates that the statutory contribution rate reflecting all anticipated contribution increases are sufficient to amortize the unfunded accrued liability within a 17-year period.

The promised benefits of the System are included in the actuarially calculated contribution rates, which are developed using the Entry Age Normal Cost Method. Four-year market related value of assets is used for actuarial valuation purposes. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions as a level percentage of payroll, on the assumption that payroll will increase by 3.25% annually. The assumptions recommended by the actuary and adopted by the Board, are in the aggregate, reasonably related to the experience under the Fund and to reasonable expectations of anticipated experience under the Fund.

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.



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This is to certify that the undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. This also certifies that the undersigned have 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 retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

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 Table of Contents, which immediately follows, outlines the material contained in the report.

Respectfully submitted,

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## SECTION 1 – SUMMARY OF RESULTS

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized below:

VALUATION DATE	June 30, 2025	June 30, 2024
Active Members	1,566	1,576
Retirees and Beneficiaries	928	898
Disabled Members*	32	29
Terminated Vested Members	249	224
Terminated Non-Vested Members	1,221	1,091
<b>Total**</b>	<b>3,996</b>	<b>3,818</b>
Annual Covered Payroll of Active Members	\$ 118,828,380	\$ 110,949,549
Average Salaries from Covered Payroll	\$ 75,880	\$ 70,399
Annual Allowances for Retired Members and Beneficiaries	\$ 32,186,493	\$ 30,264,095
Assets		
Actuarial value	\$ 596,566,000	\$ 568,268,497
Market value	611,333,335	563,494,120
Actuarial Accrued Liability (AAL)	\$ 728,077,698	\$ 686,145,643
Unfunded Actuarial Accrued Liability (UAAL)	\$ 131,511,698	\$ 117,877,146
Funded Ratio	81.94%	82.82%
Market Value Rate of Return	9.40%	9.03%
<b>Annual Cost</b>		
Statutory Funding Rate	23.710%	23.610%
Total Normal Rate	15.130%	15.480%
Employee Contribution Rate	<u>10.495%</u>	<u>10.495%</u>
Employer Normal Rate	4.635%	4.985%
Employer Contribution Rate		
Normal Rate	4.635%	4.985%
UAAL Rate	<u>8.580%</u>	<u>8.130%</u>
Total Rate ***	13.215%	13.115%
Amortization Period	17 years	17 years
Employer Contribution Rate Necessary to Amortize UAAL over 30 Years		
Normal Rate	4.635%	4.985%
UAAL Rate (30-Year Rate)	<u>6.318%</u>	<u>5.916%</u>
Total Rate	10.953%	10.901%
Shortfall/(Surplus)	(2.262%)	(2.214%)

\* Based on PERB categorization for the annual report. For actuarial purposes, 54 members in 2024 and 52 members in 2025 were valued as disabled members with offsetting reductions to the number of retired members.

\*\* A reconciliation between participant counts used for the annual report and counts for the valuation appears at the beginning of Appendix D.

\*\*\* Contribution rates shown are for the fiscal year following the valuation date.





## SECTION 1 – SUMMARY OF RESULTS

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As a result of this actuarial valuation of the benefits in effect under the Sheriffs' Retirement System as of June 30, 2025, the statutory employer contributions are sufficient to amortize the Unfunded Actuarial Accrued Liability (UAAL) of the Retirement System within 17 years. The Funded Ratio is 81.94% on an actuarial value of assets basis.

### Calculations based on the Market Value of Assets

MCA 19-2-407 requires this report to show how market performance is affecting the actuarial funding of the Retirement System. The June 30, 2025 market value of assets is \$14,767,335 more than the actuarial value of assets. This is due to the smoothing of investment gains and losses over a four-year period. If the market value of assets was used, the amortization period would be 15 years and the Funded Ratio would be 83.97%.

### Additional Details

MCA 19-7-404 sets the employer contribution at 9.535% of salary plus additional contributions of 3.58% of salary. The additional employer contribution will terminate on July 1, following the board's receipt of the System's actuarial valuation report that determines the period required to amortize the System's unfunded actuarial accrued liabilities is less than 25 years and terminating the additional employer contributions does not cause the amortization period to exceed 25 years. MCA 19-7-403 sets the employee contribution at 10.495%. The employee contribution required under this subsection must be reduced to 9.245% on July 1 following the board's receipt of the system's actuarial valuation if the report shows that the funded ratio for the sheriffs' retirement system is at least 100%. In addition, the employer contribution rate will increase by 0.1% for each of the next 10 years beginning in fiscal year 2026. This additional employer contribution will terminate on the July 1 following the Board's receipt of an actuarial valuation if the actuarial valuation determines that terminating additional employer contributions subject to MCA 17-7-404 would not cause the amortization period to exceed 25 years. As of June 30, 2025 eliminating the additional employer contribution subject to MCA 19-7-404 will cause the amortization period to exceed 25 years.

The actuarial costs are calculated using the entry age actuarial cost method. This is the method used by most public plans. It is designed to provide a stable contribution rate as a percent of member pay. This actuarial valuation measures the adequacy of the contribution rates set in Montana State Law.

Based on the current statutory funding rate, the amortization period as of the valuation date is 17 years. Contributions are developed with the intent of being level as a percentage of covered payroll, assuming the number of active members remains stable. Furthermore, the funding policy is expected to accumulate sufficient assets to make all future benefit payments as they become due, if all assumptions are met. Actuarial Standard of Practice Number 4 (ASOP 4) requires the disclosure of a reasonable actuarial determined contribution rate. The current statutory funding rate is expected to fully fund the plan and reduce the unfunded actuarial accrued liability each year. While there are potentially other reasonable actuarial determined contribution rates, in our professional judgement, the current statutory funding rate meets the guidelines of ASOP 4.





## SECTION 1 – SUMMARY OF RESULTS

### Investment Experience

The market assets earned 9.40% net of investment and administrative expenses. As a result of prior year's unrecognized losses, the actuarial assets earned 5.87%, which is 1.43% less the expected return of 7.30%. The return on the actuarial assets differs from the return on market assets because the actuarial value of assets spreads gains and losses over four years. The chart below shows the annual returns for the past ten years.

Year	Market Return	Actuarial Return	Assumed Investment Return	Market Return over Assumption	Actuarial Return over Assumption
7/1/2015 to 6/30/2016	2.06%	8.66%	7.75%	(5.69)%	0.91%
7/1/2016 to 6/30/2017	11.95	8.23	7.75	4.20	0.48
7/1/2017 to 6/30/2018	8.83	6.92	7.65	1.18	(0.73)
7/1/2018 to 6/30/2019	5.70	7.24	7.65	(1.95)	(0.41)
7/1/2019 to 6/30/2020	2.71	7.04	7.65	(4.94)	(0.61)
7/1/2020 to 6/30/2021	27.82	10.81	7.65	20.17	3.16
7/1/2021 to 6/30/2022	(4.28)	8.11	7.65	(11.93)	0.46
7/1/2022 to 6/30/2023	8.56	7.50	7.30	1.26	0.20
7/1/2023 to 6/30/2024	9.03	8.85	7.30	1.73	1.55
7/1/2024 to 6/30/2025	9.40	5.87	7.30	2.10	(1.43)

Asset gains or losses result when the return on the actuarial value of assets differs from the assumed actuarial investment return.

### Amortization of the UAAL

The UAAL is amortized with fixed contribution rates in accordance with MCA 19-7-404. The June 30, 2024 actuarial valuation period calculated a 17 year amortization period for the UAAL reflecting the reinstated statutory contribution rate. The resulting amortization period as of June 30, 2025 is 17 years. This amortization periods do not anticipate the automatic reductions in the employer contributions subject to MCA 19-7-404. If the automatic reductions are triggered the actual amortization period will exceed 30 years.





## SECTION 1 – SUMMARY OF RESULTS

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### Funding and Benefits Policy

The Montana Public Employees' Retirement Board has adopted a Funding and Benefits Policy to provide general guidelines to help ensure decisions are made based on sound, consistent, and thoroughly examined criteria. The Funding and Benefits Policy includes guidance on the following topics:

#### 1) Funding Requirement

- a) The Funding and Benefits Policy states:
  1. The Entry Age Normal Cost Method shall be applied to the projected benefits in determining the Normal Cost and Actuarial Accrued Liability.
  2. Asset smoothing can be used in the valuation process to spread the recognition of investment gains and losses over a four-year period.
  3. The UAAL should be amortized over a reasonable period of time and should not exceed 30 years on a rolling basis. Generally, the funding period should be constant or decreasing.
- b) Analysis: The liabilities of the System are determined using the Entry Age Normal Cost Method and are compared to the actuarial value of assets, which are developed using assets smoothing that recognizes gains and losses over a four-year period. Finally, the amortization period as of June 30, 2025 is 17 years based on the actuarial value of assets. The current employer and employee statutory rates keep the System's funding within Board Policy guidelines.

#### 2) Funding Objectives

- a) The Funding and Benefits Policy states: "The primary objectives are to: 1) ensure that the systems are financially sound and pay all benefits promised using assets accumulated from required employer and member contributions and investment income; and 2) achieve a well-funded status with a range of safety to absorb market volatility without creating a UAAL."
- b) Analysis: The statutory funding policy noted above will ensure that the System will be financially sound and will be able to pay all promised benefits and achieve a well-funded status with a range of safety to absorb market volatility without creating a UAAL.

#### 3) Benefit Enhancements

- a) The Funding and Benefits Policy states: "Proposals must provide funding from sources sufficient to cover future costs. Any UAAL created by the proposal must be amortized over a period of time appropriate to the retirement system, but not more than 30 years."
- b) Analysis: Without supplemental funding, a benefit enhancement would increase the amortization period of the UAAL and further delay the goal of achieving a well-funded status with a range of safety to absorb market volatility without creating a UAAL.





## SECTION 1 – SUMMARY OF RESULTS

### Sensitivity to Future Experience

The valuation results are projections based on the actuarial assumptions. Actual experience will differ from these assumptions, either increasing or decreasing the ultimate cost. The following illustrations provide simple analyses on how the costs are sensitive to changes in the assumed rate of return.

Investment Return – The investment return generally has the largest impact on the funding of the System.

Impact of Assuming 1.0% Higher Investment Return			
		Amortization	Actuarially Determined Employer Contribution
	<u>Funded Ratio</u>	<u>Period</u>	<u>(Millions \$)*</u>
Current Assumption 7.30%	81.94%	17 years	\$15.7
Higher Assumption 8.30%	<u>92.67%</u>	<u>4 years</u>	<u>\$5.2</u>
Increase / (Decrease)	10.73%	(13) years	(\$10.5)
Impact of Assuming 0.5% Higher Investment Return			
		Amortization	Actuarially Determined Employer Contribution
	<u>Funded Ratio</u>	<u>Period</u>	<u>(Millions \$)*</u>
Current Assumption 7.30%	81.94%	17 years	\$15.7
Higher Assumption 7.80%	<u>87.24%</u>	<u>9 years</u>	<u>\$10.1</u>
Increase / (Decrease)	10.73%	(8) years	(\$5.6)
Impact of Assuming 0.5% Lower Investment Return			
		Amortization	Actuarially Determined Employer Contribution
	<u>Funded Ratio</u>	<u>Period</u>	<u>(Millions \$)*</u>
Current Assumption 7.30%	81.94%	17 years	\$15.7
Lower Assumption 6.80%	<u>76.76%</u>	<u>42 years</u>	<u>\$21.7</u>
Increase / (Decrease)	10.73%	25 years	\$6.0
Impact of Assuming 1.0% Lower Investment Return			
		Amortization	Actuarially Determined Employer Contribution
	<u>Funded Ratio</u>	<u>Period</u>	<u>(Millions \$)*</u>
Current Assumption 7.30%	81.94%	17 years	\$15.7
Lower Assumption 6.30%	<u>71.73%</u>	<u>Does not amortize</u>	<u>\$28.7</u>
Increase / (Decrease)	10.73%	N/A	\$13.0

\* Amounts reflect estimated increase/(decrease) in FY2026 employer contributions only, in order to maintain the 17 year amortization period.





## SECTION 1 – SUMMARY OF RESULTS

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The future funding status of the System will be determined by the System's experience. The System's actual asset returns and retirement rates, as well as member longevity, salary increases, withdrawal rates, disability rates and future legislation will all impact the funding status of the System. The entry age normal cost method and four year smoothing of asset gains and losses will help to provide a more orderly funding of the System's liabilities, but will not change the actual experience.

### **Assumption Changes**

There have been no assumption changes since the previous valuation.

### **Benefit Changes**

There have been no benefit changes since the previous valuation.

### **Contribution Changes**

The employer contribution rate will increase by 0.10% per year for 10 years beginning in fiscal year 2026. The additional employer contribution terminates on July 1 following the actuarial valuation if the actuarial valuation determines that terminating the additional employer contribution would not cause the amortization period to exceed 25 years.

### **Method Changes**

Since the previous valuation, the fixed rate employer contribution funding policy has been reestablished.





## SECTION 1 – SUMMARY OF RESULTS

### Impact of Changes

The following table summarizes how experience has changed the UAAL since the June 30, 2024 Actuarial Valuation. Further detail can be found in Table 11 and Table 12.

#### Changes in the Unfunded Actuarial Accrued Liability (UAAL)

June 30, 2024 Valuation UAAL	\$117,877,146
Normal Cost	15,745,196
Contributions	(28,656,626)
Interest	8,708,464
Expected June 30, 2025 UAAL	<u>\$113,674,180</u>
Experience (Gain) / Loss on Actuarial Liabilities	\$9,726,646
Experience (Gain) / Loss on Actuarial Assets	8,110,872
Assumption & Method Changes	0
Plan Changes	0
Total (Gain) / Loss	<u>\$17,837,518</u>
June 30, 2025 Valuation UAAL	\$131,511,698





## SECTION 1 – SUMMARY OF RESULTS

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### Summary

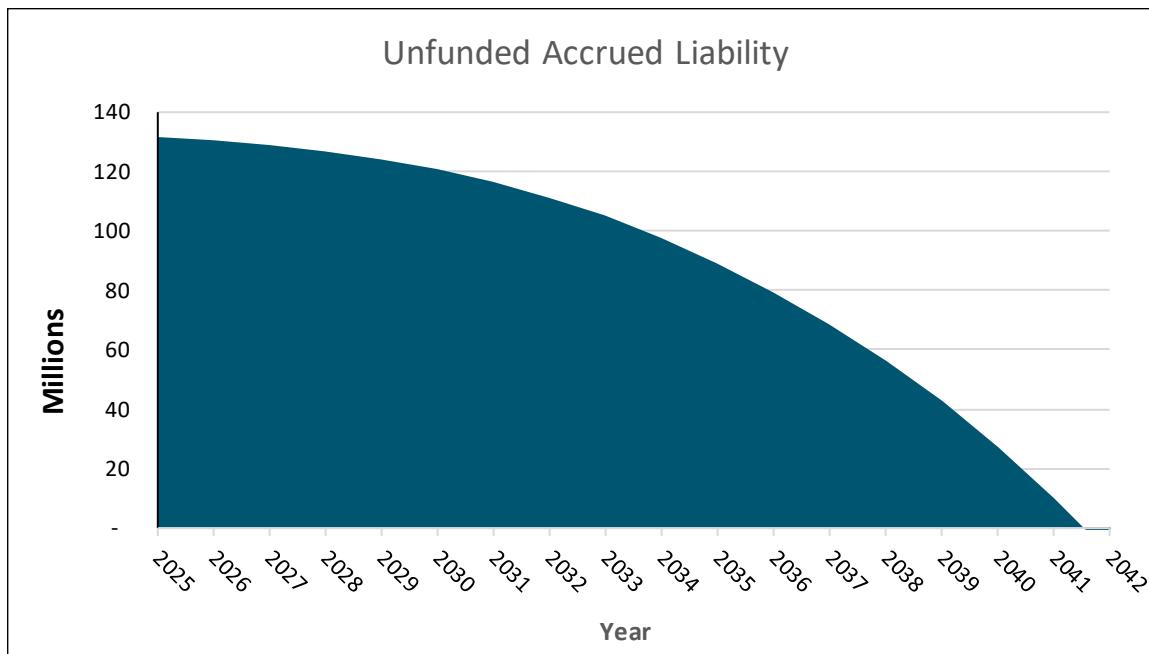
- \* The System's return on actuarial value of assets of 5.87% for the year ended June 30, 2025 is 1.43% less than the expected return of 7.30%. This represents an asset loss of \$8,110,872 due to investment return less than anticipated. As of June 30, 2025, the market value of assets was \$611,333,335. As of June 30, 2025, the actuarial value of assets was \$596,566,000. The June 30, 2025 deferred asset experience will be recognized in future actuarial valuations unless it is offset by returns less than 7.30% on an actuarial basis.
- \* As of June 30, 2025, the amortization period of the UAAL is 17 years. Prior to this valuation, the funding period was 17 years. The ultimate goal of the Board's Funding and Benefits Policy is to increase the funded status to a level such that the amortization period is below 30 years. The System is currently being funded within the parameters defined by the Board.
- \* The funding of the retirement system will be impacted by future experience which will sometimes be more favorable than the actuarial assumptions and sometimes less favorable. In particular, investment returns larger and smaller than the 7.30% assumption are expected to have significant impacts on the System's funding progress. In the long term, the favorable experience is needed to offset the less favorable experience. This is the reason for using an actuarial value of assets that allows gains and losses to be smoothed over four years.
- \* The unfunded actuarial accrued liability is amortized using a level percentage of payroll method over the amortization period. Under the level percentage of payroll method, if the amortization period is too long, the amortization payments will not be large enough to cover interest on the UAAL in the beginning of the amortization schedule, which means that as a dollar amount the UAAL is expected to grow. After a period of time, amortization payments will be large enough that the amortization payments will cover both interest and principal, and the UAAL as a dollar amount will be projected to decrease in each subsequent year. The payroll growth assumption is used to determine the percentage of payroll required over the remaining amortization period to fully amortize the unfunded liability. The payroll growth assumption is 3.25%.



## SECTION 1 – SUMMARY OF RESULTS

### Projected Progress toward 100% Funding

The table below shows the projected progress toward reaching 100%. When the System is 100% funded, the Unfunded Actuarial Accrued Liability will be fully amortized. This is scheduled to occur within 17 years. The ultimate goal of the SRS System is to become at least 100% funded and to establish a reserve.





## SECTION 2 – ASSETS

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In many respects, an actuarial valuation can be regarded as an inventory process. The inventory is taken as of the actuarial valuation date, which for this valuation is June 30, 2025. On that date, the assets available for the payment of benefits are appraised. These assets are compared with the actuarial liabilities. The actuarial process thus leads to a method of determining what contributions by members and their employers are needed to strike a balance.

The asset valuation method being used is a four-year smoothing method. The expected return is determined each year based on the beginning of year market value and actual cash flows during the year. Any difference between the expected market value return and the actual market value return is recognized evenly over a period of four years.

Table 1 lists the assets held and their market value for the past two years. Table 2 summarizes the fund's activity during the past two years. Table 3 summarizes the determination of the actuarial value of assets. Table 4 summarizes historical asset returns for the last 10 years including the amount recognized by the actuarial asset valuation method which was greater or less than the actuarial investment return assumption. Table 5 summarizes the historical asset values on a market value and actuarial value basis, to the extent it was available. Additional data can be included in this table for future reports, if provided by the System.





## SECTION 2 – ASSETS

**Table 1:**  
**Statement of Fiduciary Net Position**  
**Fiscal Year Ended June 30,**

	<b>2025</b>	<b>2024</b>
<b>ASSETS</b>		
Cash and Short Term Investments	\$ 6,825,470	\$ 6,441,283
Securities Lending Collateral	\$ 29,803,767	\$ 19,545,524
Receivables:		
Interest Receivable	\$ 24,811	\$ 29,778
Accounts Receivable	1,366,475	465,470
Due from Other Funds	-	-
Due from Primary Government	-	-
Notes Receivable	-	-
Deferred Outflow of Resources	9,056	8,512
Total Receivables	<u>\$ 1,400,342</u>	<u>\$ 503,760</u>
Investments, at fair value:		
Investment Pools	603,352,744	556,706,817
Other Investments	-	-
Total Investments	<u>\$ 603,352,744</u>	<u>\$ 556,706,817</u>
Capital Assets		
Property and Equipment, at cost, net of Accumulated Depreciation	\$ -	\$ 366
Intangible Assets, at cost, net of Amortization Expense	151,989	205,225
Total Capital Assets	<u>\$ 151,989</u>	<u>\$ 205,591</u>
<b>TOTAL ASSETS</b>	<u><u>\$ 641,534,312</u></u>	<u><u>\$ 583,402,975</u></u>
<b>LIABILITIES</b>		
Securities Lending Liability	\$ 29,803,767	\$ 19,545,524
Accounts Payable	36,150	2,594
Contributions Received in Advance	568	-
Due to Other Funds	235,066	231,003
Other Liabilities	21,287	18,247
Deferred Inflow of Resources	11,280	11,652
Leasing Liabilities	92,859	99,835
<b>TOTAL LIABILITIES</b>	<u><u>\$ 30,200,977</u></u>	<u><u>\$ 19,908,855</u></u>
<b>NET POSITION - RESTRICTED FOR PENSION BENEFITS</b>	<u><u>\$ 611,333,335</u></u>	<u><u>\$ 563,494,120</u></u>





## SECTION 2 – ASSETS

**Table 2:**  
**Statement of Changes in Fiduciary Net Position**  
**Fiscal Year Ended June 30,**

	<b>2025</b>	<b>2024</b>
<b>ADDITIONS</b>		
Contributions:		
Employer	\$ 15,824,436	\$ 14,743,483
Plan Member	12,832,190	12,288,572
Other	-	26,800,000
Total Contributions	<u>\$ 28,656,626</u>	<u>\$ 53,832,055</u>
Misc. Income	\$ -	\$ -
Investment Income:		
Net Appreciation/(Depreciation) in Fair Value of Investments	\$ 55,818,621	\$ 50,016,937
Investment Earnings	346,277	379,371
Security Lending Income	1,361,499	687,161
Investment Income/(Loss)	<u>\$ 57,526,397</u>	<u>\$ 51,083,469</u>
Investment Expense	(3,314,491)	(3,349,850)
Security Lending Expense	(1,183,330)	(551,813)
Net Investment Income/(Loss)	<u>\$ 53,028,576</u>	<u>\$ 47,181,806</u>
Total Additions	<u>\$ 81,685,202</u>	<u>\$ 101,013,861</u>
<b>DEDUCTIONS</b>		
Benefit Payments, Refunds and Distributions	\$ 33,553,129	\$ 31,884,288
Administrative Expense	292,399	304,488
Total Deductions	<u>\$ 33,845,528</u>	<u>\$ 32,188,776</u>
<b>NET INCREASE (DECREASE) IN PLAN NET ASSETS</b>	<b>\$ 47,839,674</b>	<b>\$ 68,825,085</b>
<b>NET POSITION - RESTRICTED FOR PENSION BENEFITS</b>		
<b>BEGINNING OF YEAR</b>	\$ 563,494,120	\$ 494,669,262
<b>ADJUSTMENT</b>	(459)	(227)
<b>END OF YEAR</b>	<u>\$ 611,333,335</u>	<u>\$ 563,494,120</u>



## SECTION 2 – ASSETS

**Table 3:**  
**Determination of Actuarial Value of Assets**

<b>Valuation Date June 30:</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
A. Actuarial Value Beginning of Year	\$ 499,906,211	\$ 568,268,497			
B. Market Value End of Year	563,494,120	611,333,335			
C. Market Value of Beginning of Year	494,669,262	563,494,120			
D. Cash Flow					
D1. Contributions	53,832,055	28,656,626			
D2. Benefit Payments	(31,884,288)	(33,553,129)			
D3. Administrative Expenses	(304,488)	(292,399)			
D4. Investment Expenses	<u>(3,901,663)</u>	<u>(4,497,821)</u>			
D5. Net	\$ 17,741,616	\$ (9,686,723)			
E. Investment Income					
E1. Market Total: B. - C. - D5.	\$ 51,083,242	\$ 57,525,938			
E2. Assumed Rate	7.30%	7.30%			
E3. Amount for Immediate Recognition	42,096,301	45,746,568			
C.*E2. + ((D1.+D2.)*E2.*0.5) - D3. - D4.					
E4. Amount for Phased-in Recognition	8,986,941	11,779,370			
E1. - E3.					
F. Phased-In Recognition of Investment Income					
F1. Current Year: 0.25 * E4.	\$ 2,246,735	\$ 2,944,843	\$ -	\$ -	\$ -
F2. First Prior Year	1,439,336	2,246,735	2,944,843	-	-
F3. Second Prior Year	(14,393,255)	1,439,336	2,246,735	2,944,843	-
F4. Third Prior Year	<u>19,231,553</u>	<u>(14,393,256)</u>	<u>1,439,337</u>	<u>2,246,736</u>	<u>2,944,841</u>
F5. Total Recognized Investment Gain	\$ 8,524,369	\$ (7,762,342)	\$ 6,630,915	\$ 5,191,579	\$ 2,944,841
G. Actuarial Value End of Year	\$ 568,268,497	\$ 596,566,000			
A. + D5. + E3. + F5.					





## SECTION 2 – ASSETS

**Table 4:**  
**Historical Investment Returns\***

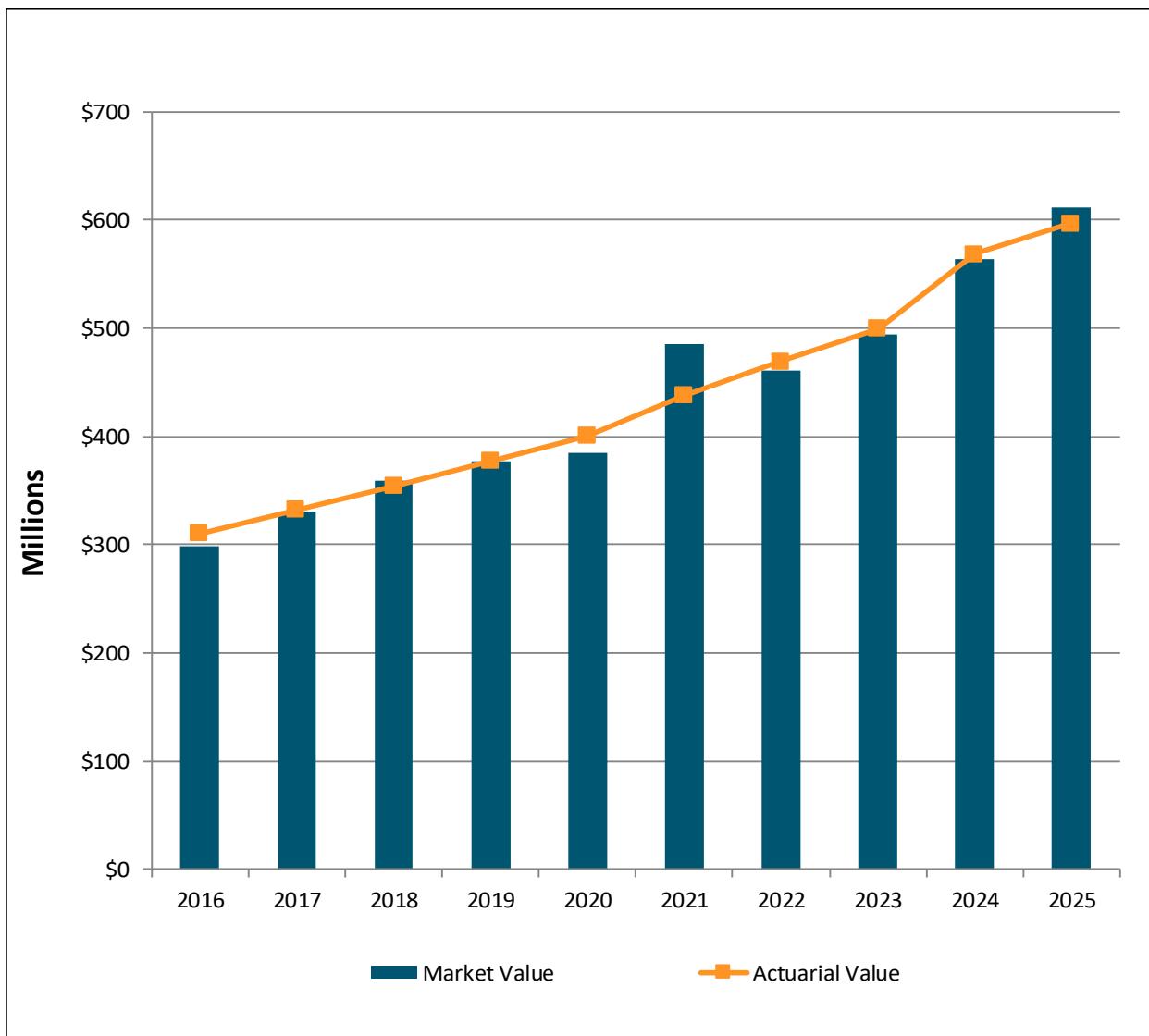
<b>Fiscal Year Ending</b>	<b>Market Returns</b>	<b>Actuarial Returns</b>	<b>Assumed Return</b>	<b>Actuarial Return Over Assumption</b>
June 30, 2016	2.06%	8.66%	7.75%	0.91%
June 30, 2017	11.95%	8.23%	7.75%	0.48%
June 30, 2018	8.83%	6.92%	7.65%	(0.73)%
June 30, 2019	5.70%	7.24%	7.65%	(0.41)%
June 30, 2020	2.71%	7.04%	7.65%	(0.61)%
June 30, 2021	27.82%	10.81%	7.65%	3.16%
June 30, 2022	(4.28)%	8.11%	7.65%	0.46%
June 30, 2023	8.56%	7.50%	7.30%	0.20%
June 30, 2024	9.03%	8.85%	7.30%	1.55%
June 30, 2025	9.40%	5.87%	7.30%	(1.43)%
10 Year Average	7.90%	7.92%		0.35%

\* Returns reflect all investment returns, including investment income and realized and unrealized investment gains and losses, and are net of investment expenses and administrative expenses paid by the System.



## SECTION 2 – ASSETS

**Table 5:**  
**Market Value of Assets vs. Actuarial Value of Assets**





## SECTION 3 – ACTUARIAL PRESENT VALUE OF FUTURE BENEFITS

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In the previous section, an actuarial valuation was related to an inventory process, and an analysis was given of the inventory of assets of the System as of the valuation date. In this section, the discussion will focus on the commitments of the System, which will be referred to as its actuarial liabilities.

Table 6 contains an analysis of the actuarial present value of all future benefits for active members, for retirees, and for beneficiaries. The analysis is given by type of benefit.

The actuarial liabilities summarized in Table 6 include the actuarial present value of all future benefits expected to be paid with respect to each member covered as of the valuation date. For an active member, this value includes a measure of both benefits already earned and future benefits to be earned. Thus, for all members, active and retired, the value extends over benefits earnable and payable for the rest of their lives and, if an optional benefit is chosen, for the lives of their surviving beneficiaries.

The actuarial valuation does not recognize liabilities for employees who become members and participate in the System after the valuation date.



## SECTION 3 – ACTUARIAL PRESENT VALUE OF FUTURE BENEFITS



**Table 6:**  
**Actuarial Present Value of Future Benefits for Actives,  
 Retirees, and Beneficiaries**

	June 30, 2025 Total	June 30, 2024 Total
<b>A. Active Members Liability Due to Probability of</b>		
Retirement	\$ 314,999,797	\$ 300,032,110
Disability	12,138,052	11,507,961
In-Service Death	4,432,921	4,291,705
Termination	<u>49,842,691</u>	<u>48,918,604</u>
 Total	 \$ 381,413,461	 \$ 364,750,380
<b>B. Inactive Members and Annuitants</b>		
Service Retirement	\$ 372,121,685	\$ 350,328,811
Disability Retirement	38,308,637	36,767,896
Beneficiaries*	24,516,429	24,214,904
Vested Terminated Members	18,283,041	14,513,587
Refund of Member Contributions	<u>8,246,421</u>	<u>7,317,958</u>
 Total	 <u>\$ 461,476,213</u>	 <u>\$ 433,143,156</u>
<b>C. Grand Total</b>	<b>\$ 842,889,674</b>	<b>\$ 797,893,536</b>

\* Includes survivors of active and retired members





## SECTION 4 – EMPLOYER CONTRIBUTIONS

---

In the previous two sections, attention has been focused on the assets and the present value of all future benefits of the System. A comparison of Tables 3 and 6 indicates that there is a shortfall in current actuarial assets to meet the present value of all future benefits for current members and beneficiaries.

In an active system, there will always be a difference between the assets and the present value of all future benefits. An actuarial valuation sets a schedule of future contributions that will deal with this funding in an orderly fashion.

The method used to determine the incidence of the contributions in various years is called the actuarial cost method. For this valuation, the entry age actuarial cost method has been used. A description of the entry age actuarial cost method is provided in Appendix A. Under this method, or essentially any actuarial cost method, the contributions required to meet the difference between current assets and the present value of all future benefits are allocated each year between two elements:

- A normal cost amount, which ideally is relatively stable as a percentage of salary over the years;
- An amount which is used to amortize the UAAL.

The two items described above, normal cost and UAAL, are the keys to understanding the actuarial cost method. Let us first discuss the normal cost.

The normal cost is the theoretical contribution rate, which will meet the ongoing costs of a group of average new employees. Suppose that a group of new employees were covered under a separate fund from which all benefits and to which all contributions and associated investment return were to be paid. Under the entry age actuarial cost method, the normal cost contribution rate is that level percentage of pay which would be exactly right to maintain this fund on a stable basis. If experience were to follow the actuarial assumptions exactly, the fund would be completely liquidated with the last payment to the last survivor of the group.

The assumed investment rate of return is 7.30%, net of investment and administrative expenses.

We have determined the normal cost rates separately by type of benefit under the System. These are summarized in Table 7. In Table 7 we also provide a summary of the member and employer statutory contributions.

The term "fully funded" is often applied to a system where contributions for everyone at the normal cost rate will fully pay for the benefits of existing as well as new employees. Often, systems are not fully funded, either because of benefit improvements in the past that have not been completely paid for or actuarial deficiencies that have occurred because experience has not been as anticipated. Under these circumstances, a UAAL exists.





## SECTION 4 – EMPLOYER CONTRIBUTIONS

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Table 8 shows how the UAAL was derived for the System. Lines A and B show, respectively, the total present value of future benefits and the portion of the future liability that is expected to be paid from future normal cost contributions, both employer and employee. The future normal cost contributions are the portion of the present value of future benefits that are attributed to future years of service that have not been earned yet by the active membership. Line C shows the actuarial accrued liability. Line D shows the amount of assets available for benefits. Line E shows the UAAL.

The UAAL at any date after establishment of a system is affected by any actuarial gains or losses arising when the actual experience of the system varies from the experience anticipated by the actuarial assumptions used in the valuations. To the extent actual experience as it develops differs from the assumptions used, so also will the actual emerging costs differ from the estimated costs. The impact of these differences in actual experience from the assumptions is included in Section 1, the Summary of Results.





## SECTION 4 – EMPLOYER CONTRIBUTIONS

**Table 7:**  
**Normal Cost Contribution Rates**  
**As Percentages of Salary**

	<b>June 30, 2025</b>	<b>June 30, 2024</b>
	<b>Total</b>	<b>Total</b>
Service retirement	8.920%	9.080%
Disability retirement	1.100%	1.120%
In Service Death	0.230%	0.240%
Termination	<u>4.880%</u>	<u>5.040%</u>
Total Normal Rate	<u>15.130%</u>	<u>15.480%</u>
Employee Normal Rate	10.495%	10.495%
Employer Normal Rate	4.635%	4.985%

Note: The normal cost rate for members hired on or after July 1, 2023 is 13.73%.





## SECTION 4 – EMPLOYER CONTRIBUTIONS

**Table 8:**  
**Unfunded Actuarial Accrued Liability**

	<u>June 30, 2025</u>	<u>June 30, 2024</u>
A. Actuarial present value of all future benefits for active members, retirees and beneficiaries (Table 6)	\$ 842,889,674	\$ 797,893,536
B. Less actuarial present value of total future normal costs for present members	<u>\$ 114,811,976</u>	<u>\$ 111,747,893</u>
C. Actuarial accrued liability	\$ 728,077,698	\$ 686,145,643
D. Less assets available for benefits	<u>\$ 596,566,000</u>	<u>\$ 568,268,497</u>
E. Unfunded actuarial accrued liability	\$ 131,511,698	\$ 117,877,146





## SECTION 5 – CASH FLOW HISTORY

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The fundamental equation for funding a retirement system is that benefits and administrative expenses must be provided for by contributions (past and future) and investment income. When a retirement system matures, benefits and administrative expenses often exceed contributions. In this case we say the system has a “negative cash flow.” Mature systems are characterized by negative cash flows and large pools of assets. This is natural. Actuarial funding is designed to accumulate large pools of assets which will in turn provide investment income and finance negative cash flows when systems mature. If the fund is looked at as a whole, investment income is usually larger than the difference between contributions and benefit payments. The retirement system’s investment strategy should maximize potential returns at a prudent level of risk while providing for needed cash flows.

Table 9 shows the System had a positive cash flow for the year ended June 30, 2025. The System’s total cash flow including benefit payments, administrative expenses and investment earnings was \$47.9 million. Of the \$47.9 million, \$53.0 million was due to investment returns.

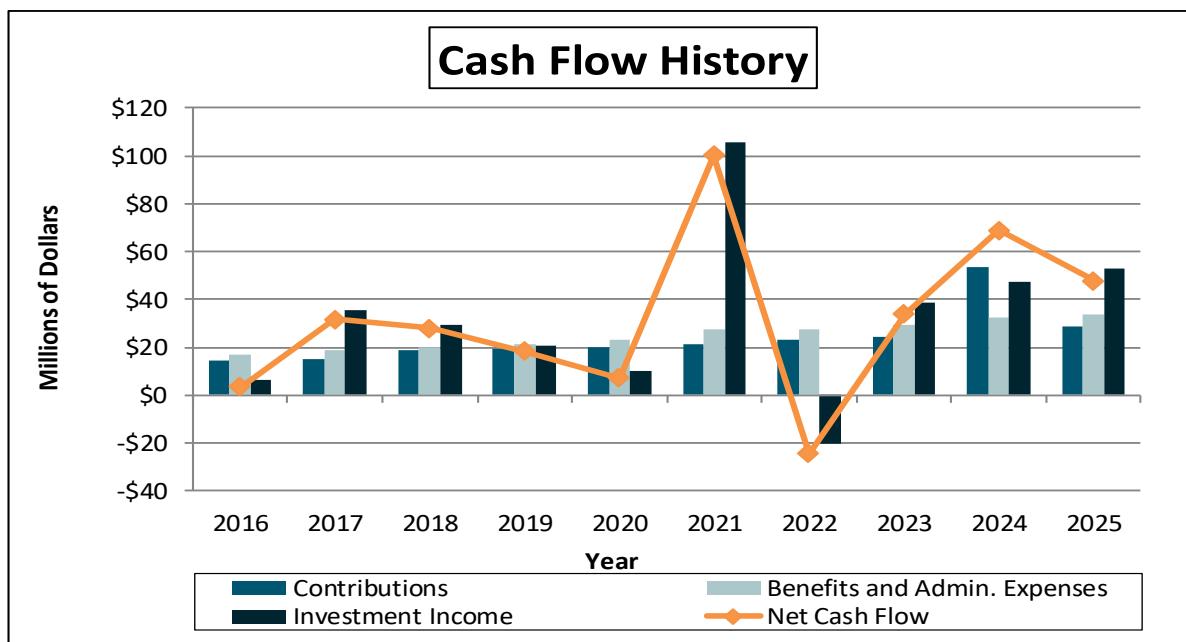
As long as the System had a positive cash flow, there was no need to plan where the funds would come from to pay benefits since benefits could be paid by incoming contributions. A negative cash flow, as defined above, requires planning what funds will be used to pay the difference between benefits and contributions.





## SECTION 5 – CASH FLOW HISTORY

**Table 9:**  
**Cash Flow History**  
**(Dollar amounts in millions)**



**Historical Cash Flows**

Year Ended June 30	Contributions	Benefits & Administrative Expenses	Investment Income	Net Cash Flow
2016	\$ 14.3	\$ 16.9	\$ 6.1	\$ 3.5
2017	14.8	18.5	35.5	31.8
2018	18.8	20.0	29.2	28.0
2019	19.2	21.2	20.4	18.4
2020	20.3	23.4	10.2	7.1
2021	21.6	27.3	106.0	100.3
2022	23.4	27.3	(20.6)	(24.5)
2023	24.7	29.6	38.8	33.9
2024	53.8	32.2	47.2	68.8
2025	28.7	33.8	53.0	47.9





## SECTION 6 – ACTUARIAL GAINS OR LOSSES

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An analysis of actuarial gains or losses is performed in conjunction with all regularly scheduled valuations.

The developments of the gains or losses related to the actuarial liability and the assets are shown in Table 10. The results of our analysis of the financial experience of the System in the three most recent regular actuarial valuations are presented in Table 11. Each gain or loss shown represents our estimate of how much the given type of experience caused the Unfunded Actuarial Accrued Liability or Funding Reserve to change in the period since the previous actuarial valuation.

Gains and losses shown due to demographic sources are approximate. Demographic experience is analyzed in greater detail in our periodic experience studies.

Non-recurring gains and losses result from changes in the actuarial assumptions and benefit improvements.





## SECTION 6 – ACTUARIAL GAINS OR LOSSES

**Table 10:**  
**Analysis of Actuarial (Gains) or Losses\***

**A. ACTUARIAL ACCRUED ACTUARIAL LIABILITY (GAIN) / LOSS ANALYSIS**

1. Actual Actuarial Actuarial Liability as of June 30, 2024:	\$ 686,145,643
2. Normal Cost for this Plan Year:	15,745,196
3. Interest on items 1 and 2 $[(1+2) \times 7.30\%]$ :	51,238,031
4. Benefit Payments for this Plan Year:	(33,553,129)
5. Interest on item $[4 \times 7.30\% \times .5]$ :	(1,224,689)
6. Expected Actuarial Accrued Liability as of June 30, 2025:	<u>\$ 718,351,052</u>
7. Changes due to:	
a. Assumption Changes:	-
b. Plan Amendments:	-
c. Funding Method:	-
d. Actuarial (Gain) / Loss:	\$ 9,726,646
8. Actual Actuarial Accrued Liability as of June 30, 2025:	<u>\$ 728,077,698</u>
9. Items Affecting Calculation of Unfunded Accrued Actuarial Liability:	
a. Benefit provisions reflected in the unfunded accrued liability (see Appendix C)	
b. Actuarial assumptions and methods used to determine actuarial accrued liability (see Appendix B)	

**B. ASSET (GAIN) / LOSS ANALYSIS**

1. Actuarial Value of Assets as of June 30, 2024:	\$ 568,268,497
2. Interest on item $[1 \times 7.30\%]$ :	41,483,600
3. Contributions for this Plan Year:	28,656,626
4. Interest on item 3:	1,045,967
5. Benefit Payments for this Plan Year:	(33,553,129)
6. Interest on item $[5. \times 7.30\% \times .5]$ :	(1,224,689)
7. Expected Actuarial Value of Assets as of June 30, 2025:	<u>\$ 604,676,872</u>
8. Actuarial Value of Assets as of June 30, 2025:	<u>\$ 596,566,000</u>
9. (Gain) / Loss	\$ 8,110,872

**C. UNFUNDED ACCRUED LIABILITY (GAIN) / LOSS ANALYSIS**

1. Actual Unfunded Actuarial Accrued Liability as of June 30, 2024:	\$ 117,877,146
2. Normal Cost for this Plan Year:	15,745,196
3. Contributions for this Plan Year:	(28,656,626)
4. Interest:	8,708,464
5. Expected Unfunded Actuarial Accrued Liability as of June 30, 2025:	<u>\$ 113,674,180</u>
6. Changes due to:	
a. Assumption Changes:	-
b. Plan Amendments:	-
c. Funding Method:	-
d. Actuarial (Gain) / Loss:	\$ 17,837,518
7. Actual Unfunded Actuarial Accrued Liability as of June 30, 2025:	<u>\$ 131,511,698</u>

\* Effects related to gains are shown in parentheses. Numerical results are expressed as a (decrease) increase in the Actuarial Accrued Liability (AAL). Gains decrease the AAL and losses increase the AAL.





## SECTION 6 – ACTUARIAL GAINS OR LOSSES

Table 11:  
Historical Actuarial (Gains) or Losses\*  
(Dollar amounts in thousands)

	UAAL (Gain)/Loss		
	June 30, 2025	June 30, 2024	June 30, 2023
<b>Investment Income</b>			
Investment income was (greater) less than expected based on actuarial value of assets.	\$ 8,110.9	\$ (8,142.1)	\$ (957.5)
<b>Pay Increases</b>			
Pay increases were (less) greater than expected.	\$ 4,619.4	\$ 8,294.1	\$ 8,356.1
<b>Age &amp; Service Retirements</b>			
Members retired at (older) younger ages or with (less) greater final average pay than expected	\$ 405.8	\$ 1,031.6	\$ 3,621.3
<b>Disability Retirements</b>			
Disability claims were (less) greater than expected	\$ 88.5	\$ (278.9)	\$ (436.7)
<b>Death-in-Service Benefits</b>			
Survivor claims were (less) greater than expected	\$ (41.8)	\$ (40.8)	\$ (46.9)
<b>Withdrawal From Employment</b>			
(More) less reserves were released by withdrawals than expected	\$ 3,951.0	\$ 3,695.8	\$ 1,151.6
<b>Death After Retirement</b>			
Retirees (died younger) lived longer than expected	\$ (453.9)	\$ 681.9	\$ (1,586.2)
<b>Data Adjustments and Benefit Payment Timing</b>			
Service purchases, data corrections, etc.	\$ 1,157.8	\$ 1,466.1	\$ 5,611.7
<b>Other</b>			
Miscellaneous (gains) and losses	\$ (0.2)	\$ 0.1	\$ -
<b>Total (Gain) or Loss During Period From Financial Experience</b>	\$ 17,837.5	\$ 6,707.8	\$ 15,713.4
<b>Non-Recurring Items.</b>			
Changes in actuarial assumptions and methods	\$ -	\$ -	\$ -
Changes in benefits caused a (gain) loss	\$ -	\$ -	\$ -
<b>Composite (Gain) Loss During Period</b>	\$ 17,837.5	\$ 6,707.8	\$ 15,713.4





## SECTION 7 – RISK CONSIDERATIONS

---

A typical retirement plan faces many different risks, but the greatest risk is the inability to make benefit payments when due. If plan assets are depleted, benefits may not be paid which could create legal and litigation risk or the plan could become “pay as you go”. The term “risk” is most commonly associated with an outcome with undesirable results. However, in the actuarial world, risk can be translated as uncertainty. The actuarial valuation process uses many actuarial assumptions to project how future contributions and investment returns will meet the cash flow needs for future benefit payments. Of course, we know that actual experience will not unfold exactly as anticipated by the assumptions and that uncertainty, whether favorable or unfavorable, creates risk. ASOP 51 defines risk as the potential of actual future measurements to deviate from expected results due to actual experience that is different than the actuarial assumptions.

The various risk factors for a given plan can have a significant impact – positive or negative – on the actuarial projection of liability and contribution rates.

There are a number of risks inherent in the funding of a defined benefit plan. These include:

- economic risks, such as investment return and price inflation;
- demographic risks such as mortality, payroll growth, aging population including impact of baby boomers, and retirement ages;
- contribution risk, i.e., the potential for contribution rates to be too high for the plan sponsor/employer to pay and
- external risks such as the regulatory and political environment.

There is a direct correlation between healthy, well-funded retirement plans and consistent contributions equal to the full actuarial contribution rate each year. The System is primarily funded by member and employer contributions to the trust fund, together with the earnings on these accumulated contributions. These contributions fund benefit accruals for current active members and administrative expenses. The remainder of the contributions amortizes the unfunded actuarial accrued liability. The contribution rates are set by state statute and intended to provide the needed amounts to fund the system over time. The purpose of the valuation is to determine if the fixed employer and member contributions are sufficient to fund the Plan. Due to the fixed nature of the contributions actuarial gains and losses are reflected in the amortization period. Generally, the largest source of actuarial gains and losses are caused by investment volatility. In addition, the unfunded liability is amortized as a level percentage of pay assuming payroll will grow by 3.25% per year. A key risk factor to the System’s funding is that over time, the Statutory Contribution Rates will be insufficient to accumulate enough funds, with investment income, to fund the promised benefits. The funding insufficiency can be caused by amortization periods that are too long or by payroll not growing at the assumed rate.





## SECTION 7 – RISK CONSIDERATIONS

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The other significant risk factor for the System is investment return because of the volatility of returns and the size of plan assets compared to payroll. This is to be expected, given the underlying capital market assumptions and the System's asset allocation. To the extent market rates of interest affect the expected return on assets, there is a risk of change to the discount rate which determines the present value of liabilities and actuarial valuation results. Please see the summary of results of this report which demonstrates the sensitivity of valuation results to differing discount rates.

Under the revised Actuarial Standards of Practice (ASOP) No. 4 effective for valuations after February 15, 2023, we 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 the 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, 2025 and with the 30-year spot rate used for all durations beyond 30. Using these assumptions, we calculate a liability of \$798 million. 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.

A key demographic risk for the Retirement System is improvements in mortality (longevity) greater than anticipated. While the actuarial assumptions reflect a margin for improvement in mortality experience these assumptions are refined every experience study, the risk arises because there is a possibility of some sudden shift, perhaps from a significant medical breakthrough that could quickly increase liabilities. Likewise, there is some possibility of a significant public health crisis that could result in a significant number of additional deaths in a short time period, which would also be significant, although more easily absorbed. While either of these events could happen, it represents a small probability and thus represents much less risk than the volatility associated with investment returns.

The exhibits on the following pages summarize some historical information that helps indicate how certain key risk metrics have changed over time. Many are due to the maturing of the retirement system.





## SECTION 7 – RISK CONSIDERATIONS

### Historical Asset Volatility Ratios (in 1,000's)

As a retirement system matures, the size of the market value of assets increases relative to the covered payroll of active members, on which the System is funded. The size of the plan assets relative to covered payroll, sometimes referred to as the asset volatility ratio, is an important indicator of the contribution risk for the System. The higher this ratio, the more sensitive a plan's contribution rate is to investment return volatility. In other words, it will be harder to recover from investment losses with increased contributions.

Actuarial Valuation Date	Market Value of Assets	Plan Year Payroll	Asset Volatility Ratio
6/30/2016	\$ 299,152	\$ 70,593	4.24
6/30/2017	330,910	74,581	4.44
6/30/2018	358,880	77,587	4.63
6/30/2019	377,223	80,461	4.69
6/30/2020	384,295	84,943	4.52
6/30/2021	484,711	90,869	5.33
6/30/2022	460,195	96,370	4.78
6/30/2023	494,669	102,450	4.83
6/30/2024	563,494	110,950	5.08
6/30/2025	611,333	118,828	5.14

The assets at June 30, 2025 are 514% of payroll, so underperforming the investment return assumption by 1.00% (i.e., earn 6.30% for one year) is equivalent to 5.14% of payroll. While the actual impact in the first year is mitigated by the asset smoothing method and amortization of the UAAL, this illustrates the risk associated with volatile investment returns.





## SECTION 7 – RISK CONSIDERATIONS

### Historical Cash Flows (in 1,000's)

Plans with negative cash flows will experience increased sensitivity to investment return volatility. Cash flows, for this purpose, are measured as contributions less benefit payments. If the System has negative cash flows and then experiences returns below the assumed rate, there are fewer assets to be reinvested to earn the higher returns that typically follow. While any negative cash flow will produce such a result, it is typically a negative cash flow of more than 5% of MVA that may cause significant concerns. The System has negative cash flows have been less than 2% for the prior nine years.

Year End	Market Value of Assets		Benefit Payments	Net Cash Flow	Net Cash Flow as a Percent of MVA
	(MVA)	Contributions			
6/30/2016	\$ 299,152	\$ 14,299	\$ 16,903	\$ (2,604)	(0.87%)
6/30/2017	330,910	14,751	18,503	(3,753)	(1.13%)
6/30/2018	358,880	18,835	20,039	(1,204)	(0.34%)
6/30/2019	377,223	19,188	21,242	(2,054)	(0.54%)
6/30/2020	384,295	20,290	23,407	(3,117)	(0.81%)
6/30/2021	484,711	21,581	27,272	(5,691)	(1.17%)
6/30/2022	460,195	23,404	27,279	(3,875)	(0.84%)
6/30/2023	494,669	24,669	29,375	(4,705)	(0.95%)
6/30/2024	563,494	53,832	31,884	21,948	3.89%
6/30/2025	611,333	28,657	33,553	(4,897)	(0.80%)





## SECTION 7 – RISK CONSIDERATIONS

### Liability Maturity Measurement

Most public sector retirement systems have been in operation for many years. As a result, they have aging plan populations, and in some cases declining active populations, resulting in an increasing ratio of retirees to active members and a growing percentage of retiree liability. The retirement of the remaining baby boomers over the next decade is expected to further exacerbate the aging of the retirement system population. Retiree liability as a percentage of the total actuarial accrued liability has been growing over the last seven years. As more of the total liability begins to reside with retirees, investment volatility has a greater impact on the funding of the system since it is more difficult to restore the system financially after losses occur when there is comparatively less payroll over which to spread costs. Below are two tables which demonstrate the ratio of the System's retiree liability compared to the total accrued liability and the ratio of the number of retirees and beneficiaries to the number of active members.

Year End	Retiree Liability (a)	Total Actuarial Accrued Liability (b)	Retiree Percentage (a) / (b)
6/30/2016	\$ 220,932,031	\$ 373,146,158	59.2%
6/30/2017	248,802,189	411,386,604	60.5%
6/30/2018	266,307,582	436,715,156	61.0%
6/30/2019	290,686,246	462,697,753	62.8%
6/30/2020	312,913,242	493,241,768	63.4%
6/30/2021	338,301,609	525,238,823	64.4%
6/30/2022	375,238,078	597,118,496	62.8%
6/30/2023	411,554,159	641,662,416	64.1%
6/30/2024	433,143,156	686,145,643	63.1%
6/30/2025	461,476,213	728,077,698	63.4%

### Historical Member Statistics

Valuation Date June 30,	Number of		Active/ Retired
	Active	Retired	
2016	1,364	620	2.20
2017	1,415	648	2.18
2018	1,429	681	2.10
2019	1,454	726	2.00
2020	1,502	763	1.97
2021	1,495	805	1.86
2022	1,481	840	1.76
2023	1,543	891	1.73
2024	1,576	927	1.70
2025	1,566	960	1.63





## APPENDIX A – ACTUARIAL PROCEDURES AND METHODS

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The assumptions and methods utilized in the valuation were developed in the five-year experience study for the period ending June 30, 2021.

Tables B-1 through B-5 give rates of decrement for service retirement, disablement, mortality, and other terminations of employment.

### **Actuarial Cost Method**

The actuarial valuation was prepared using the entry age actuarial cost method. Under this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit. The portion of this actuarial present value allocated to a valuation year is called the normal cost. The normal cost was first calculated for each individual member. The normal cost rate is defined to equal the total of the individual normal costs, divided by the total pay rate.

The portion of this actuarial present value not provided for at a valuation date by the sum of (a) the actuarial value of the assets and (b) the actuarial present value of future normal costs is called the UAAL. The UAAL is amortized as a level percentage of the projected salaries of present and future members of the System.

### **Records and Data**

The data used in the valuation consist of financial information; records of age, sex, service, salary, contribution rates, and account balances of contributing members; and records of age, sex, and amount of benefit for retired members and beneficiaries. All of the data was supplied by the System and has been accepted for valuation purposes without audit.

### **Replacement of Terminated Members**

The ages at entry and distribution by sex of future members are assumed to average the same as those of the present members they replace. If the number of active members should increase, it is further assumed that the average entry age of the larger group will be the same, from an actuarial standpoint, as that of the present group. Under these assumptions, the normal cost rates for active members will not vary with the termination of present members.

### **Administrative and Investment Expenses**

The administrative and investment expenses of the System are assumed to be funded by investment earnings in excess of 7.30% per year.





## APPENDIX A – ACTUARIAL PROCEDURES AND METHODS

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### Valuation of Assets

The actuarial asset valuation method spreads asset gains and losses over four years. The expected return is determined each year based on the beginning of year market value and actual cash flows during the year. Any difference between the expected market value return and the actual market value return is recognized evenly over a period of four years.

### Investment Earnings

The annual rate of investment earnings of the assets of the System is assumed to be 7.30% per year net of investment and administrative expenses, compounded annually.

### Interest on Member Contributions

Interest on member contributions is assumed to accrue at the most recent actual rate granted, or a rate of 2.50% per annum, compounded annually.

### Future Salaries

The rates of annual salary increase assumed for the purpose of the valuation are illustrated in Table B-2. In addition to increases in salary due to merit and longevity, this scale includes an assumed 3.50% annual rate of increase in the general wage level of the membership.

### Service Retirement

Table B-3 shows the annual assumed rates of retirement for active members meeting the service retirement eligibilities.

### Disablement

The rates of disablement used in this valuation are illustrated in Table B-4.

### Mortality

The mortality rates used in this valuation are described in Table B-1. 10% of all member deaths are assumed to be duty-related.

### Other Terminations of Employment

The rates of assumed future withdrawal from active service for reasons other than death, disability or retirement are shown for representative ages in Table B-5.

### Probability of Marriage & Dependent Children

If death occurs in active status, all members are assumed to have an eligible surviving spouse with no dependent children. Female spouses are assumed to be three years younger than males.





## APPENDIX A – ACTUARIAL PROCEDURES AND METHODS

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### Records with no Birth Date

New records with no birth date are assumed to be 37 years old. Records that are not new and have no birth date used the same birth date as the prior year's valuation.

### Active Records with a Salary Less than \$1,000

These members are included in the active headcounts, however the pay of these members is not included in the Valuation Projected Salaries summarized in Appendix D. The liability for these members is their accumulated member contributions payable on the valuation date.





## APPENDIX B – SUMMARY OF VALUATION ASSUMPTIONS

Table B-1

### Summary of Valuation Assumptions

I. Economic assumptions	
A. General wage increases	3.50%
B. Investment return	7.30%
C. Price inflation assumption	2.75%
D. Payroll growth	3.25%
E. Growth in membership	0.00%
F. Interest on member accounts	2.50%
II. Demographic assumptions	
A. Individual salary increase due to promotion and longevity	Table B-2
B. Retirement	Table B-3
C. Disablement	Table B-4
D. Mortality among Active Participants	<p>PUB-2010 Safety Amount Weighted Employee Mortality projected to 2021 for males and females. Projected generationally using MP-2021.</p>
E. Mortality among Disabled pensioners	<p>PUB-2010 Safety Amount Weighted Disabled Retiree Mortality projected to 2021, set forward one year for males.</p>
F. Mortality among Contingent Survivor pensioners	<p>PUB-2010 Amount Weighted Contingent Survivor Mortality projected to 2021, set forward one year for males. Projected generationally using MP-2021.</p>
G. Mortality among Healthy pensioners	<p>PUB-2010 Safety Amount Weighted Healthy Retiree Mortality Table projected to 2021, set forward one year for males and adjusted 105% for males and 100% for females. Projected generationally using MP-2021.</p>
H. Other terminations of employment	Table B-5





## APPENDIX B – SUMMARY OF VALUATION ASSUMPTIONS

Table B-2

### Future Salaries

Years of Service	(a)	(b)	(1+(a))*(1+(b))
	Individual Merit & Longevity	General Wage Increase	Total Salary Increase
1	6.40%	3.50%	10.12%
2	4.70	3.50	8.36
3	3.60	3.50	7.23
4	2.70	3.50	6.29
5	2.00	3.50	5.57
6	1.40	3.50	4.95
7	1.00	3.50	4.54
8	1.00	3.50	4.54
9	1.00	3.50	4.54
10 & Up	1.00	3.50	4.54





## APPENDIX B – SUMMARY OF VALUATION ASSUMPTIONS

Table B-3

### Retirement Annual Rates

Age	20 or More Years of Service
Less than 50	19.0%
50	19.0%
51	19.0
52	19.0
53	19.0
54	19.0
55	29.0
56	29.0
57	29.0
58	29.0
59	29.0
60	29.0
61	29.0
62	29.0
63	29.0
64	29.0
65 & Over	100.0

\* For members hired on or after July 1, 2023 the retirement rates before age 50 are 0% and on age 50 are 30%. All other ages are unchanged from the rates listed above.





## APPENDIX B – SUMMARY OF VALUATION ASSUMPTIONS

Table B-4

### Disablement Annual Rates

Age	All Members
22	0.00%
27	0.11
32	0.11
37	0.11
42	0.37
47	0.37
52	0.37
57	0.36
62	0.00

75% of disabilities are assumed to be duty-related. All disabilities are assumed to be permanent and without recovery.





## APPENDIX B – SUMMARY OF VALUATION ASSUMPTIONS

Table B-5

### Other Terminations of Employment Among Members Not Eligible to Retire Annual Rates

Years of Service	All Members
0	24.0%
1	21.0
2	18.0
3	16.0
4	14.0
5	12.0
6	10.0
7	9.0
8	8.0
9	8.0
10	7.0
11	7.0
12	7.0
13	6.0
14	6.0
15 & Over	5.0

### Family Composition

Female spouses are assumed to be three years younger than males. 100% of non-retired employees are assumed married for both male and female employees. Actual marital characteristics are used for pensioners.

### Vested Benefits for Termination Members

Vested benefits for members who terminated during years ending June 30, 2009 and later were estimated based upon compensation and service information in the census data. For members who terminated prior to June 30, 2008, vested benefits valued were the same as had been calculated by the prior actuary for the June 30, 2008 actuarial valuation.





## APPENDIX C – SUMMARY OF BENEFIT PROVISIONS

<b>Service credit</b>	<ul style="list-style-type: none"><li>• Service credit is used to determine the amount of a member's retirement benefit.</li><li>• One month of service credit is earned for each month where the member is paid for 160 hours (240 hours in 3-paycheck months). This includes certain transferred and purchased service.</li></ul>
<b>Membership service</b>	<ul style="list-style-type: none"><li>• Membership service is used to determine eligibility for vesting, retirement or other benefits.</li><li>• One month of membership service is earned for any month member contributions are made, regardless of the number of hours worked.</li><li>• Eligible members in all systems may purchase service that counts toward membership service.</li><li>• Additionally, eligible active and inactive Sheriffs' Retirement System (SRS) members may purchase 1 for 5 (additional) service that will count as membership service.</li></ul>
<b>Contributions</b>	<ul style="list-style-type: none"><li>• Member contributions are made through an "employer pick-up" arrangement which results in deferral of taxes on the contributions.</li></ul>
<b>Compensation</b>	<ul style="list-style-type: none"><li>• Compensation generally means all remuneration paid, excluding certain allowances, benefits, and lump sum payments. Compensation is specifically defined in law and differs amongst the systems.</li><li>• Bonuses paid <b>on or after</b> July 1, 2013 to any member will not be treated as compensation for retirement purposes. No member or employer contributions will be paid on bonuses.</li></ul>
<b>Withdrawal of employee contributions</b>	<ul style="list-style-type: none"><li>• A member is eligible for a withdrawal of their contributions when they terminate service and are either not eligible for or have not taken a retirement benefit.</li><li>• The member receives the accumulated member contributions, which consists of member contributions and regular interest.</li><li>• Upon receipt of a refund of accumulated contributions a member's vested right to a monthly benefit is forfeited.</li></ul>
<b>Member contributions interest credited (regular interest)</b>	<ul style="list-style-type: none"><li>• Interest is credited to member accounts at the rates determined by the Board.</li><li>• The current interest rate credited to member accounts is 2.50%.</li></ul>





## APPENDIX C – SUMMARY OF BENEFIT PROVISIONS

### Working Retiree Limitations

Applies to retirement system members who return **on or after** July 1, 2017 to covered employment in the system from which they retired. These limits already applied to SRS members before July 1, 2017.

- Members who return for **less than 480 hours** in a **calendar year**:
  - may not become an active member in the system; and
  - are subject to a \$1 reduction in their retirement benefit for each \$3 earned in excess of \$5,000 in the calendar year.
- Members who return for **480 or more hours** in a **calendar year**:
  - must become an active member of the system;
  - will stop receiving a retirement benefit from the system; **and**
  - will be eligible for a second retirement benefit if they earn 5 or more years of service credit through their second employment.
- Employee, employer and state contributions apply as follows:
  - Employer contributions and state contributions (if any) must be paid on all working retirees;
  - Employee contributions must be paid on working retirees who return to covered employment for 480 or more hours in a calendar year.

NOTE: PERS has its own limits.

### Second Retirement Benefit

Applies to retirement system members who return on or after July 1, 2017 to active service covered by the system from which they retired.

- If the member works more than 480 hours in a calendar year and accumulates less than 5 years of service credit before terminating again, the member:
  - is not awarded service credit for the period of reemployment;
  - is refunded the accumulated contributions associated with the period of reemployment;
  - starting the first month following termination of service, receives the same retirement benefit previously paid to the member; and
  - does not accrue post-retirement benefit adjustments during the term of reemployment but receives a GABA in January immediately following second retirement.





## APPENDIX C – SUMMARY OF BENEFIT PROVISIONS

<b>Second Retirement Benefit (continued)</b>	<ul style="list-style-type: none"><li>• If the member works more than 480 hours in a calendar year and accumulates at least 5 years of service credit before terminating again, the member:<ul style="list-style-type: none"><li>◦ is awarded service credit for the period of reemployment;</li><li>◦ starting the first month following termination of service, receives:<ul style="list-style-type: none"><li>* the same retirement benefit previously paid to the member; <b>and</b></li><li>* a second retirement benefit for the period of reemployment calculated based on the laws in effect as of the member's rehire date; <b>and</b></li></ul></li><li>◦ does not accrue post-retirement benefit adjustments during the term of reemployment but receives a GABA:<ul style="list-style-type: none"><li>* on the initial retirement benefit in January immediately following second retirement; <b>and</b></li><li>* on the second retirement benefit starting in January after receiving that benefit for at least 12 months.</li></ul></li></ul></li><li>• A member who returns to covered service is <b>not</b> eligible for a disability benefit.</li></ul>
<b>Refunds</b>	<ul style="list-style-type: none"><li>• Terminating members eligible to retire may, in lieu of receiving a monthly retirement benefit, refund their accumulated contributions in a lump sum.</li><li>• Terminating members with accumulated contributions between \$200 and \$1,000 who wish to rollover their refund must do so within 90 days of termination of service.</li><li>• Trusts, estates, and charitable organizations listed as beneficiaries are entitled to receive only a lump sum payment.</li></ul>
<b>Lump-sum payouts</b>	<ul style="list-style-type: none"><li>• Effective July 1, 2017, lump sum payouts in all systems are limited to the member's accumulated contributions rather than the present value of the member's benefit.</li></ul>
<b>Type of plan</b>	<ul style="list-style-type: none"><li>• Multiple-employer cost sharing</li></ul>
<b>Membership eligibility</b>	<ul style="list-style-type: none"><li>• Sheriffs</li><li>• Investigators (effective July 1, 1993)</li><li>• Detention officers (effective July 1, 2005)</li></ul>
<b>Member contributions</b>	<ul style="list-style-type: none"><li>• 10.495% of member's compensation (effective July 1, 2017)</li></ul>





## APPENDIX C – SUMMARY OF BENEFIT PROVISIONS

<b>Employer contributions</b>	<ul style="list-style-type: none"><li>• Rate increased from 9.535% to 9.825% on July 1, 2007, then to 10.115% on July 1, 2009, and then to 13.115% on July 1, 2017.</li><li>• 13.115% of each member's compensation (effective July 1, 2017 through June 30, 2025)</li><li>• For July 1, 2025 and after, contribution rates will increase 0.1% per year for 10 years</li><li>• SRS employee contributions will return to 9.245% and SRS employer contributions will return to 9.535% when reducing the employee contribution and terminating the additional employer contributions will not cause the amortization period to exceed 25 years.</li><li>• Beginning July 1, 2013, employers of retirees who return to work in a position working less than 480 hours contribute 10.115% of the working retiree's compensation.</li></ul>
<b>Compensation period used in benefit calculation</b>	<ul style="list-style-type: none"><li>• HAC = Highest Average Compensation</li><li>• Hired <b>prior to</b> July 1, 2011: HAC is average of the highest 36 consecutive months (or shorter period of total service) of compensation paid to member.</li><li>• Hired <b>on or after</b> July 1, 2011: HAC is average of the highest 60 consecutive months (or shorter period of total service) of compensation paid to member.</li><li>• Hired <b>on or after</b> July 1, 2013: 110% annual cap on compensation considered as part of a member's HAC.</li></ul>
<b>Service retirement eligibility and benefit formula</b>	<ul style="list-style-type: none"><li>• Hired <b>prior to</b> July 1, 2023 Any age with 20 years of membership service</li><li>• Hired <b>on or after</b> July 1, 2023 At least 50 years of age with 20 years of membership service</li><li>• 2.5% of HAC x years of service credit</li></ul>
<b>Early retirement eligibility and benefit</b>	<ul style="list-style-type: none"><li>• Age 50 with 5 years of membership service</li><li>• Normal retirement benefit calculated using HAC and service credit at early retirement, and reduced to the actuarial equivalent commencing at the earliest of age 60 or the attainment of 20 years of service credit.</li></ul>





## APPENDIX C – SUMMARY OF BENEFIT PROVISIONS

### Disability retirement eligibility and benefit formula

#### Non-duty-related disability:

- Active or inactive vested member
- 5 years membership service
- The actuarial equivalent of the accrued normal retirement benefit available at time of disability.

#### Duty-related disability:

- Vested or non-vested active member
- Any membership service
- **Less than 20 years** of membership service:  
50% of HAC, or
- **20 years or more** of membership service:  
2.5% of HAC x years of service credit

### Survivor's eligibility and benefit formula

#### Duty-related death:

- Vested or non-vested active member
- Lump-sum payment of the member's accumulated contributions; **or**
- A monthly survivor benefit to the designated beneficiary **equal to the greater of:**
  - 50% of HAC; **or**
  - 2.5% of HAC for each year of service credit if over 20 years.

#### Non-duty-related death:

- Active or Inactive member
- Lump-sum payment of the member's accumulated contributions; **or**
- A monthly survivor benefit equal to 2.5% of HAC for each year of service credit actuarially reduced from age 60 **or** from the date when 20 years of membership service would have been completed, whichever provides the greater benefit.
- For retired members without a contingent annuitant, a payment will be made to the designated beneficiary equal to the accumulated contributions reduced by any retirement benefits already paid.





## APPENDIX C – SUMMARY OF BENEFIT PROVISIONS

<b>Vesting eligibility and benefit</b>	<ul style="list-style-type: none"><li>• 5 years of membership service</li><li>• Accrued normal retirement benefit, payable when eligible for retirement.</li><li>• In lieu of a pension, a member may receive a refund of accumulated contributions.</li><li>• Upon receipt of a refund of accumulated contributions, a member's vested right to a monthly benefit is forfeited.</li></ul>
<b>Retirement benefits - Form of payment</b>	<p>Option 1, the normal form of payment is a single life annuity with a refund of any remaining accumulated contributions (account balance) to a designated beneficiary.</p> <p>Optional Benefits:</p> <ul style="list-style-type: none"><li>• Option 2, a life annuity and joint 100% survivor benefit,</li><li>• Option 3, a life annuity and joint 50% survivor benefit, and</li><li>• Option 4, a life annuity with a period certain.</li></ul> <p>If a retiring member selects Option 2 or 3 and the contingent annuitant predeceases or is divorced from the member, the retiree may, with 18 months of the death or divorce, choose to revert to the higher Option 1 benefit available at retirement or the retiree may select a different contingent annuitant and/or a different option.</p>
<b>Post retirement benefit increases</b>	For retired members who have been retired at least 12 months, a Guaranteed Annual Benefit Adjustment (GABA) will be made each year equal to: <ul style="list-style-type: none"><li>• 3% for members hired before July 1, 2007, and</li><li>• 1.5% for members hired on or after July 1, 2007</li></ul>
<b>Changes since last valuation</b>	Employer contribution increased to 13.215% of member's compensation





## APPENDIX D – VALUATION DATA

This chart is presented for informational purposes only. The counts shown in the valuation line were used for preparation of the liabilities disclosed within this report. The counts disclosed for the Annual Financial Report and the Summary of Results (page 1) match the ACFR at the request of the Board. The differences between counts, if any, have no material effect upon the liability calculation.

	Active	Disabled	Retirees and Beneficiaries	Terminated Vested Members	Terminated Non-Vested Members	Total
<b>Participant Counts Used for Valuation</b>	1,565	84	876	248	1,219	3,992
Disabled Members having attained normal retirement age		(52)	52			
Beneficiaries of Disabled Members						
Beneficiaries with less than one year of certain payments remaining						
Other Adjustments	1			1	2	4
<b>Participant Counts shown in the Annual Financial Report</b>	1,566	32	928	249	1,221	3,996





## APPENDIX D – VALUATION DATA

This valuation is based upon the membership of the System as of June 30, 2025. Membership data was supplied by the System and has been accepted for valuation purposes without audit. However, tests were performed to ensure that the data is sufficiently accurate for valuation purposes.

The salaries used in the tables and charts which follow are different than the salaries used for the Summary of Results on page 1. The valuation projected salaries to be paid for the following fiscal year, whereas the Summary of Results salaries are applicable in the year ending on the valuation date.

Active Members	Number	Valuation Projected Salaries
Full-Time Members	1,383	\$ 115,323,149
Part-Time Members	182	\$ 3,535,308
Total Active Members	1,565	\$ 118,858,457

Table D-1 contains summaries of the data for contributing members. For full-time members, values shown in the tables are the numbers of members and their total and average annual salaries. For part-time members, only the numbers of members are shown.

Table D-2 presents distributions of the following:

- Members receiving service retirement benefits.
- Members receiving disability retirement benefits.
- Survivors of deceased retired members receiving benefits.
- Survivors of deceased active members.
- Terminated vested members.

Table D-3 is a reconciliation of membership data from June 30, 2024 to June 30, 2025.





## APPENDIX D – VALUATION DATA

The following is a summary of retired members and beneficiaries currently receiving benefits. The chart reflects the counts and benefits used for valuation purposes as a result of data processing. Please refer to the chart on page 46 for an explanation of the number of annuitants used for valuation purposes.

Type of Annuitant	Number	Annual Benefits	Average Annual Benefits
Service Retirement	796	\$ 27,384,278	\$ 34,402
Survivors of Deceased Retired Members	58	1,401,120	24,157
Survivors of Deceased Active Members	22	686,990	31,227
Total Retirees and Beneficiaries	876	\$ 29,472,388	\$ 33,644
Disability Retirement	84	2,714,105	32,311
Total Annuitants	960	\$ 32,186,493	\$ 33,528

Terminated Members with Contributions Not Withdrawn	Number
Vested Terminated Members	248
Non-Vested Terminated Members	1,219
Total Terminated Members	1,467





## APPENDIX D – VALUATION DATA

**Table D-1:**  
**Active Members Distribution of**  
**Full-Time Employees and Salaries**  
**as of June 30, 2025**

### Number of Employees

Age	<u>Completed Years of Service</u>													Totals
	0	1	2	3 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40+		
<25	52	54	24	14	2									146
25 to 29	34	32	44	46	56	1								213
30 to 34	14	32	41	45	83	20								235
35 to 39	18	22	24	32	68	56	14							234
40 to 44	10	11	10	18	37	35	41	4						166
45 to 49	12	6	4	9	26	23	37	14	3					134
50 to 54	3	5	7	15	19	12	27	10	6					104
55 to 59	4	2	4	13	12	18	21	11	7					92
60 to 64	1	3	5	3	9	7	11	2	2	1	1			45
65 to 69					2	3	1	2	1	1	1			11
70 and up						1			1		1			3
Totals	148	167	163	195	314	176	152	43	20	2	3	-		1,383





## APPENDIX D – VALUATION DATA

**Table D-1:**  
**Active Members Distribution of**  
**Full-Time Employees and Salaries**  
**as of June 30, 2025**

**Annual Salaries in Thousands**

Age	<u>Completed Years of Service</u>													Totals
	0	1	2	3 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40+		
<25	2,976	3,685	1,590	1,059	129									9,439
25 to 29	2,045	2,198	3,361	3,486	4,932	106								16,128
30 to 34	910	2,313	3,266	3,827	7,461	1,870								19,646
35 to 39	1,088	1,539	1,776	2,698	5,842	5,533	1,492							19,968
40 to 44	625	893	770	1,518	3,238	3,718	4,177	391						15,331
45 to 49	700	363	299	685	2,232	2,120	3,735	1,591	337					12,064
50 to 54	183	334	592	1,160	1,756	1,058	2,642	1,291	687					9,702
55 to 59	202	166	282	917	920	1,713	2,032	1,069	651					7,951
60 to 64	49	175	406	195	678	586	1,035	178	146	128	99			3,675
65 to 69					157	279	97	165	124	84	128			1,034
70 and up					100				95		189			385
Totals	8,778	11,665	12,342	15,547	27,343	17,083	15,210	4,685	2,041	212	416	-		115,323





## APPENDIX D – VALUATION DATA

**Table D-1:**  
**Active Members Distribution of**  
**Full-Time Employees and Salaries**  
**as of June 30, 2025**

### Average Annual Salary

Age	Completed Years of Service													Totals
	0	1	2	3 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40+		
<25	57,226	68,234	66,263	75,677	64,469									64,652
25 to 29	60,148	68,681	76,377	75,791	88,070	105,994								75,717
30 to 34	65,011	72,288	79,650	85,034	89,887	93,497								83,600
35 to 39	60,417	69,956	74,002	84,325	85,906	98,804	106,563							85,331
40 to 44	62,451	81,214	76,989	84,359	87,522	106,235	101,889	97,788						92,358
45 to 49	58,325	60,534	74,846	76,165	85,837	92,185	100,946	113,668	112,443					90,027
50 to 54	61,116	66,716	84,605	77,364	92,396	88,167	97,843	129,050	114,474					93,291
55 to 59	50,600	82,881	70,480	70,562	76,643	95,156	96,757	97,155	92,970					86,427
60 to 64	48,988	58,223	81,249	64,958	75,292	83,676	94,106	89,065	73,189	128,299	99,104			81,671
65 to 69					78,368	92,997	97,072	82,551	124,440	83,725	127,981			94,004
70 and up					100,447				95,123		189,222			128,264
Totals	59,308	69,852	75,720	79,730	87,079	97,065	100,067	108,952	102,045	106,012	138,769			83,386





## APPENDIX D – VALUATION DATA

**Table D-1:**  
**Active Members Distribution of**  
**Part-Time Employees**  
**as of June 30, 2025**

### **Number of Employees**

Age	Completed Years of Service													Totals
	0	1	2	3 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40+		
<25	30	6	3	1										40
25 to 29	21	3	3	3										30
30 to 34	20	2	1	1	5									29
35 to 39	11		3	2		1								17
40 to 44	7	1	2	2	1	1		1						15
45 to 49	5	3	1	1	1	1	1							13
50 to 54	7	4	1		3	1	1							17
55 to 59	3	3			3				1					10
60 to 64	1		1		1					1				3
65 to 69	1		1		5									7
70 and up					1									1
Totals	106	22	16	10	19	5	3	-	1					182





## APPENDIX D – VALUATION DATA

**Table D-2:**  
**Distribution of Inactive Lives**

The charts reflects the counts and benefits used for valuation purposes as a result of data processing. Please refer to the chart on page 46 for an explanation of the number of annuitants used for valuation purposes.

### Members Receiving Service Retirement Benefits as of June 30, 2025

Age	Number of Persons	Annual Benefits		Average Annual Benefits	
<50	36	\$ 1,507,799		\$ 41,883	
50 to 54	76	2,879,955		37,894	
55 to 59	99	3,204,056		32,364	
60 to 64	143	4,534,304		31,708	
65 to 69	156	5,151,705		33,024	
70 to 74	148	5,368,043		36,271	
75 to 79	89	2,954,951		33,202	
80 to 84	33	1,201,939		36,422	
85 to 89	13	526,467		40,497	
90 and up	3	55,059		18,353	
<b>Totals</b>	<b>796</b>	<b>\$ 27,384,278</b>		<b>\$ 34,402</b>	

### Members Receiving Disability Retirement Benefits as of June 30, 2025

Age	Number of Persons	Annual Benefits		Average Annual Benefits	
<50	12	\$ 424,345		\$ 35,362	
50 to 54	12	502,924		41,910	
55 to 59	11	378,401		34,400	
60 to 64	12	331,502		27,625	
65 to 69	15	453,933		30,262	
70 to 74	14	435,622		31,116	
75 to 79	5	140,116		28,023	
80 to 84	3	47,262		15,754	
85 to 89	-	-		-	
90 and up	-	-		-	
<b>Totals</b>	<b>84</b>	<b>\$ 2,714,105</b>		<b>\$ 32,311</b>	





## APPENDIX D – VALUATION DATA

**Table D-2:**  
**Distribution of Inactive Lives**

The charts reflects the counts and benefits used for valuation purposes as a result of data processing. Please refer to the chart on page 46 for an explanation of the number of annuitants used for valuation purposes.

### **Survivors of Deceased Retired Members as of June 30, 2025**

Age	Number of Persons	Annual Benefits		Average Annual Benefits	
<50	3	\$ 29,760		\$ 9,920	
50 to 54	1	7,431		7,431	
55 to 59	1	14,943		14,943	
60 to 64	4	143,419		35,855	
65 to 69	5	208,165		41,633	
70 to 74	13	348,494		26,807	
75 to 79	10	305,292		30,529	
80 to 84	8	107,847		13,481	
85 to 89	7	96,077		13,725	
90 and up	6	139,692		23,282	
 Totals	 58	 \$ 1,401,120		 \$ 24,157	

### **Survivors of Deceased Active Members as of June 30, 2025**

Age	Number of Persons	Annual Benefits		Average Annual Benefits	
<50	6	\$ 112,322		\$ 18,720	
50 to 54	5	131,607		26,321	
55 to 59	1	55,590		55,590	
60 to 64	2	114,388		57,194	
65 to 69	2	102,611		51,306	
70 to 74	2	28,652		14,326	
75 to 79	3	122,521		40,840	
80 to 84	-	-		-	
85 to 89	-	-		-	
90 and up	1	19,299		19,299	
 Totals	 22	 \$ 686,990		 \$ 31,227	





## APPENDIX D – VALUATION DATA

**Table D-2:**  
**Distribution of Inactive Lives**

The chart reflects the counts and benefits used for valuation purposes as a result of data processing. Please refer to the chart on page 46 for an explanation of the number of annuitants used for valuation purposes.

**Terminated Vested Members as of June 30, 2025**  
**Number of Persons**

Age	Number
<25	
25 to 29	7
30 to 34	32
35 to 39	36
40 to 44	63
45 to 49	35
50 to 54	32
55 to 59	28
60 to 64	10
65 to 69	5
70 and above	
Total	248



## APPENDIX D – VALUATION DATA

**Table D-3:**  
**Data Reconciliation**

The following table shows a reconciliation of the participants used in the previous valuation to this valuation. This chart reflects the counts used for valuation purposes as a result of data processing.

	<b>Active Contributing Members</b>	<b>Terminated Vested Members</b>	<b>Service Retired Members</b>	<b>Disabled Members</b>	<b>Survivors and Beneficiaries</b>
<b>June 30, 2024 Valuation</b>	1,576	223	764	83	80
Refunds and Non-Vested Terminations	(193)	(9)		(1)	(2)
Vested Terminations	(40)	41			
Service Retirements	(41)	(4)	45		
Disability Retirements	(3)			3	
Deaths			(12)	(1)	
New Entrants	250				2
Rehires	16	(3)			
Other			(1)		
<b>June 30, 2025 Valuation</b>	1,565	248	796	84	80





## APPENDIX E – COMPARATIVE SCHEDULES

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This section contains tables that summarize the experience of the System shown in present and past valuation reports.

Table E-1 shows a summary of the active members covered as of the various valuation dates.

Table E-2 shows a summary of the retired and inactive members as of the various valuation dates.

Table E-3 summarizes the contribution rates determined by each annual actuarial valuation.



## APPENDIX E – COMPARATIVE SCHEDULES

**Table E-1:**  
**Active Membership Data**

Valuation Date June 30,	Actives	Annual Salaries in Thousands	Average Annual Salary	Average Age	Average Years of Service	Average Hire Age
2025	1,566	\$ 118,828	\$75,880	38.4	6.9	31.6
2024	1,576	110,950	70,399	38.5	6.8	31.7
2023	1,543	102,450	66,396	38.5	6.7	31.8
2022	1,481	96,370	65,071	39.0	7.1	32.0
2021	1,495	90,869	60,782	39.3	7.2	32.2
2020	1,502	84,943	56,553	39.4	7.2	32.3
2019	1,454	80,461	55,338	39.6	7.2	32.4
2018	1,429	77,587	54,295	39.8	7.4	32.4
2017	1,415	74,581	52,708	40.0	7.2	33.8
2016	1,364	70,593	51,755	40.1	7.2	32.9
2015	1,336	67,881	50,809	40.3	7.2	33.1
2014	1,307	64,424	49,291			
2013	1,276	60,948	47,765			
2012	1,241	58,281	46,963			





## APPENDIX E – COMPARATIVE SCHEDULES

**Table E-2:**  
**Members in Receipt of Annuities and Inactive Membership Data**

Valuation Date June 30,	Number	All Annuitants					Terminated Members	
		Annual Benefits in Thousands	Average Annual Benefit	Average Current Age	Average Age at Retirement	Average Service at Retirement	Number Vested Terminated	Number Non-Vested Terminated
2025	960	\$ 32,186	\$33,528	65.5	54.0	18.7	248	1,219
2024	927	30,264	32,647	65.2	53.9	18.9	223	1,090
2023	891	28,413	31,889	64.9	54.0	18.9	220	981
2022	840	25,662	30,550	64.7	53.9	19.0	211	914
2021	805	23,844	29,620	64.5	53.8	19.1	178	805
2020	763	21,999	28,832	64.8	53.8	19.2	146	696
2019	726	20,332	28,006	64.9	53.9	19.3	135	633
2018	681	18,521	27,196	64.9	53.0	18.3	129	539
2017	648	17,153	26,471	64.4	52.8	18.5	108	465
2016	620	16,021	25,840	64.9	54.5	18.3	95	394
2015	577	14,432	25,012	64.2	52.6	18.3	81	342
2014	533	13,044	24,473				73	288
2013	503	12,013	23,883				67	235
2012	469	10,850	23,134				60	212



## APPENDIX E – COMPARATIVE SCHEDULES

**Table E-3:**  
**Contribution Rates**

Valuation Date June 30,	Contribution Rates ***			Normal Cost Rate*	UAAL Rate**
	Employee	Employer	Total		
2025	10.495 %	13.215 %	23.710 %	15.130 %	8.580 %
2024	10.495	13.115	23.610	15.480	8.130
2023	10.495	13.115	23.610	15.810	7.800
2022	10.495	13.115	23.610	16.180	7.430
2021	10.495	13.115	23.610	15.760	7.850
2020	10.495	13.115	23.610	15.940	7.670
2019	10.495	13.115	23.610	15.960	7.650
2018	10.495	13.115	23.610	16.170	7.440
2017	9.245	13.115	23.610	16.490	7.120
2016	9.245	10.115	19.360	18.080	1.280
2015	9.245	10.115	19.360	18.220	1.140
2014	9.245	10.115	19.360	18.460	0.900
2013	9.245	10.115	19.360	18.520	0.840
2012	9.245	10.115	19.360	18.730	0.630

\* Includes administrative expenses starting with the 2014 through 2021 Valuation Dates

\*\* The UAAL rate was the amount available to amortize the UAAL. It is equal to the total contribution rate, minus the normal cost rate.

\*\*\* Rates shown below are for the fiscal year following the valuation date.





## APPENDIX F – FINANCIAL STATEMENT INFORMATION

The information presented in the required supplementary schedules was determined as part of the actuarial valuation as of June 30, 2025. Additional information as of the latest actuarial valuation follows.

Valuation date	June 30, 2025
Actuarial cost method	Entry Age Normal
Amortization method	Open
Remaining amortization period	17 Years
Asset valuation method	Four-year smoothed market
Actuarial assumptions:	
Investment rate of return*	7.30%
General wage growth*	3.50%
Merit salary increases	1.0% - 6.4%
*Includes inflation	2.75%





## APPENDIX F – FINANCIAL STATEMENT INFORMATION

Gain and Loss in Accrued Liability During Years Ended June 30 Resulting from Differences Between Assumed Experience and Actual Experience						
Type of Activity	2020	2021	2022	2023	2024	2025
Investment Income on Actuarial Value of Assets	\$ (2,300)	\$ 12,569	\$ 2,027	\$ 958	\$ 8,142	\$ (8,111)
Combined Liability Experience	(6,625)	(8,233)	(7,352)	(16,671)	(14,850)	(9,727)
(Loss)/Gain During Year from Financial Experience	\$ (8,925)	\$ 4,336	\$ (5,325)	\$ (15,713)	\$ (6,708)	\$ (17,838)
Non-Recurring Items	0	0	(38,848)	0	0	0
Composite Gain or (Loss) During Year	\$ (8,925)	\$ 4,336	\$ (44,173)	\$ (15,713)	\$ (6,708)	\$ (17,838)

Schedule of Funding Progress (expressed in thousands)						
Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Funded	Unfunded AAL (UAAL)	Covered Payroll	UAAL as a Percentage of Covered Payroll
June 30, 2025	\$ 596,566	\$ 728,078	82%	\$ 131,512	\$ 118,828	111%
2024	568,268	686,146	83%	117,877	110,950	106%
2023	499,906	641,662	78%	141,756	102,450	138%
2022	469,549	597,118	79%	127,570	96,370	132%
2021	438,036	525,239	83%	87,203	90,869	96%
2020	400,720	493,242	81%	92,522	84,943	109%



## APPENDIX F – FINANCIAL STATEMENT INFORMATION

Solvency Test Aggregate Accrued Liabilities for (expressed in thousands)								
Valuation Date	Active Member Contributions	Retirees & Beneficiaries	Active Member Employer Financed Contributions	Actuarial Value of Reported Assets	Portion of Accrued Liability Covered by Reported Assets			
June 30,	(1)	(2)	(3)		(1)	(2)	(3)	
2025	\$ 84,165	\$ 434,947	\$ 208,966	\$ 596,566	100%	100%	37%	
2024	76,691	411,312	198,143	568,268	100%	100%	41%	
2023	68,382	390,707	182,574	499,906	100%	100%	22%	
2022	66,071	354,858	176,189	469,549	100%	100%	28%	
2021	64,537	322,525	138,177	438,036	100%	100%	37%	
2020	62,479	300,677	130,086	400,720	100%	100%	29%	





## APPENDIX G –GLOSSARY

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The following definitions are largely excerpts from a list adopted in 1981 by the major actuarial organizations in the United States. In some cases the definitions have been modified for specific applicability to the Sheriffs' Retirement System. Defined terms are capitalized throughout this Appendix.

### **Accrued Benefit**

The amount of an individual's benefit (whether or not vested) as of a specific date, determined in accordance with the terms of a pension plan and based on compensation and service to that date.

### **Actuarial Accrued Liability**

That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of pension plan benefits and expenses which is not provided for by future Normal Costs.

### **Actuarial Assumptions**

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disablement, and retirement; changes in compensation, rates of investment earnings, and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; and other relevant items.

### **Actuarial Cost Method**

A procedure for determining the Actuarial Present Value of pension plan benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.

### **Actuarial Gains and Losses**

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, as determined in accordance with a particular Actuarial Cost Method.

### **Actuarial Present Value**

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.

### **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 pension plan.

### **Actuarial Value of Assets**

The value of cash, investments and other property belonging to a pension plan, as used by the actuary for the purpose of an Actuarial Valuation.



## APPENDIX G –GLOSSARY

---

### **Actuarially Equivalent**

Of equal Actuarial Present Value, determined as of a given date with each value based on the same set of Actuarial Assumptions.

### **Amortization Payment**

That portion of the pension plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

### **Entry Age Actuarial Cost Method**

A method under which the Actuarial Present Value of the Projected Benefits of each individual included in an Actuarial Valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages. The portion of this Actuarial Present Value allocated to a valuation year is called the Normal Cost. The portion of this Actuarial Present Value not provided for at a valuation date by the Actuarial Present Value of future Normal Costs is called the Actuarial Accrued Liability.

### **Market Value of Assets**

The fair value of cash, investments and other property belonging to a pension plan that could be acquired by exchanging them on the open market.

### **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.

### **Projected Benefits**

Those pension plan 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.

### **Unaccrued Benefit**

The excess of an individual's Projected Benefits over the Accrued Benefits as of a specified date.

### **Unfunded Actuarial Accrued Liability**

The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.

