Judges' Retirement System of the State of Montana



Actuarial Valuation Report

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 Judges' Retirement System of State of Montana (JRS), 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 System is over 100% funded.

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,

Todd B. Green, ASA, EA, FCA, MAAA

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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
Participant Counts Active Members		61		60
Retirees and Beneficiaries		82		75
Disabled Members *		-		73
Terminated Vested Members		1		1
Terminated Non-Vested Members		2		2
Total **		146		138
Covered Payroll of Active Members	\$	8,948,962	\$	9,001,334
Average Salaries from Covered Payroll	\$	146,704	\$	150,022
Annual Retirement Allowances for Retired	\$	5,293,118	\$	4,637,703
Members and Beneficiaries				
Assets				
Actuarial value	\$	143,631,565	\$	140,157,853
Market value		147,234,879		138,553,101
Actuarial Accrued Liability (AAL)	\$	78,160,047	\$	76,237,400
Unfunded Actuarial Accrued Liability (UAAL)		(65,471,518)		(63,920,453)
Funded Ratio		183.77%		183.84%
Market Value Rate of Return		9.43%		8.99%
Annual Cost				
Statutory Funding Rate		7.00%		7.00%
Total Normal Rate		27.46%		27.19%
Employee Contribution Rate		<u>7.00%</u>		7.00%
Employer Normal Rate		20.46%		20.19%
Employer Contribution Rate				
Normal Rate		20.46%		20.19%
UAAL Rate		(20.46%)		(20.19%)
Total Rate***		0.00%		0.00%
Amortization Period		0 Years		0 Years
Employer Contribution Rate Necessary to Amortize UAA	L ov	er 30 Years		
Normal Rate		20.46%		20.19%
UAAL Rate		<u>(41.85%)</u>		<u>(39.70%)</u>
Total Rate		(21.39%)		(19.51%)
Shortfall/(Surplus)		(21.39%)		(19.51%)

^{*} Based on PERB categorization for the annual report. For actuarial purposes, 1 member in 2024 and 2025 was valued as a disabled member with an offsetting reduction to the number of retired members.

^{***} Contribution rates are for the fiscal year following the valuation date.



^{**} A reconciliation between participant counts used for the annual report and counts for the valuation appears at the beginning of Appendix D



As a result of this actuarial valuation of the benefits in effect under the Judges' Retirement System as of June 30, 2025, the Retirement System is fully funded. The Funded Ratio is 183.77%.

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 \$3,603,314 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 Retirement System would still be fully funded, and the Funded Ratio would be 188.38%.

Additional Details

MCA 19-5-402 sets the employer contribution at 0.00% of salary. If the most recently available actuarial study for the JRS, the funded ratio drops below 120%, the employer contribution rate must be increased to 25.81%. MCA 19-5-404 sets the employee contribution at 7.00%.

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 0 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.





Investment Experience

The market assets earned 9.43%, net of investment and administrative expenses. As a result of prior years' unrecognized losses, the actuarial assets earned 5.55%, which is 1.75% less than the actuarial assumption 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	8.64	7.75	(5.69)	0.89
7/1/2016 to 6/30/2017	11.91	8.22	7.75	4.16	0.47
7/1/2017 to 6/30/2018	8.88	6.89	7.65	1.23	(0.76)
7/1/2018 to 6/30/2019	5.64	7.22	7.65	(2.01)	(0.43)
7/1/2019 to 6/30/2020	2.72	7.08	7.65	(4.93)	(0.57)
7/1/2020 to 6/30/2021	27.69	10.77	7.65	20.04	3.12
7/1/2021 to 6/30/2022	(4.21)	8.11	7.65	(11.86)	0.46
7/1/2022 to 6/30/2023	8.39	7.49	7.30	1.09	0.19
7/1/2023 to 6/30/2024	8.99	8.94	7.30	1.69	1.64
7/1/2024 to 6/30/2025	9.43	5.55	7.30	2.13	(1.75)

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 System's assets exceed the System's actuarial accrued liability as of both the June 30 2025 actuarial valuation and the June 30 2024 actuarial valuation. As a result, there is no unfunded actuarial accrued liability. Therefore, no amortization payment of the UAAL is necessary.





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 is developed using assets smoothing that recognizes gains and losses over a four-year period. The amortization period as of June 30, 2025 is 0 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 System currently has obtained a funded ratio of 183.77%, therefore the System has significant excess assets to absorb market volatility.

3) Benefit Enhancements

- a) The Funding and Benefits Policy states: "Proposals must provide funding from sources sufficient to cover future costs. Unfunded liabilities 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: Benefit enhancements without separate financing will increase the System's UAAL and reduce the excess assets the System is using to absorb market volatility.





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.

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

Impact of Assuming 1.0% Higher Investment Return							
	5 10 11	<u> </u>	Actuarially Determined				
		Amortization Period	Employer Contribution				
	Funded Ratio	Increase / (Decrease)	(Millions \$)				
Current Assumption 7.30%	183.77 %	0 years	\$0				
Higher Assumption 8.30%	<u>200.01</u> %	<u>0 years</u>	<u>0</u>				
Increase / (Decrease)	16.24 %	No Change	\$0				
Impact o	of Assuming 0.5%	Higher Investment Retu	n				
			Actuarially Determined				
		Amortization Period	Employer Contribution				
	Funded Ratio	Increase / (Decrease)	(Millions \$)				
Current Assumption 7.30%	183.77 %	0 years	\$0				
Higher Assumption 7.80%	<u>191.84</u> %	<u>0 years</u>	<u>0</u>				
Increase / (Decrease)	8.07 %	No Change	\$0				
Impact o	of Assuming 0.5%	Lower Investment Retur	n				
			Actuarially Determined				
		Amortization Period	Employer Contribution				
	Funded Ratio	Increase / (Decrease)	(Millions \$)				
Current Assumption 7.30%	183.77 %	0 years	\$0				
Lower Assumption 6.80%	<u>175.81</u> %	<u>0 years</u>	<u>0</u>				
Increase / (Decrease)	(7.96) %	No Change	\$0				
Impact o	of Assuming 1.0%	Lower Investment Retur	n				
			Actuarially Determined				
		Amortization Period	Employer Contribution				
	Funded Ratio	Increase / (Decrease)	(Millions \$)				
Current Assumption 7.30%	183.77 %	0 years	\$0				
Lower Assumption 6.30%	<u>167.97</u> %	<u>0 years</u>	<u>0</u>				
Increase / (Decrease)	(15.80) %	No Change	\$0				



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

Since the previous valuation, the employer contribution rate has been permanently reduced to 0%. If the most recently available actuarial study for the JRS, the funded ratio drops below 120%, the employer contribution rate must be increased to 25.81%.

Method Changes

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





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 Tables 10 and 11.

Changes in the Unfunded Actuarial Accrued Liability (UAAL)

June 30, 2024 Valuation UAAL	\$(63,920,453)
Normal Cost	2,059,194
Contributions	(783,642)
Interest	(4,544,475)
Expected June 30, 2025 UAAL	\$(67,189,376)
Experience (Gain)/Loss on Actuarial Liabilities	\$(700,403)
Experience (Gain)/Loss on Actuarial Assets	2,418,261
Assumption & Method Changes	0
Plan Changes	0
Total (Gain) / Loss	\$1,717,858
June 30, 2025 Valuation UAAL	\$(65,471,518)





Summary

- * The System's return on actuarial value of assets of 5.55% for the year ended June 30, 2025, is 1.75% less than the actuarial assumption of 7.30%. This represents an asset loss of \$2,418,261 due to a lower investment return than anticipated. As of June 30, 2025, the market value of assets was \$147,234,879. As of June 30, 2025, the actuarial value of assets was \$143,631,565. 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 UAAL is negative as the assets exceed the AAL. The assets exceeded the AAL last year as well. The ultimate goal of the Board's Funding and Benefits Policy is to become 100% funded. Once the System's has obtained 100%, there needs to be a range of safety to absorb market volatility without creating an unfunded actuarial accrued liability. Currently the System has significant excess assets for this purpose. 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, favorable experience is needed to offset 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.



SECTION 2 - ASSETS

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.





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

		2025		2024
ASSETS				
Cash and Short Term Investments	\$	1,538,689	\$	1,408,520
Securities Lending Collateral		7,273,766		4,848,356
Receivables:				
Interest Receivable		5,258		6,146
Accounts Receivable		-		1,069
Due from Other Funds		-		-
Due from Primary Government		-		-
Notes Receivable		-		-
Def Outflow of Resources		333		318
Total Receivables	\$	5,591	\$	7,533
Investments, at fair value:				
Investment Pools		145,635,265		137,034,944
Other Investments		, , -		-
Total Investments	\$	145,635,265	\$	137,034,944
Capital Assets				
Property and Equipment, at cost,				
net of Accumulated Depreciation	\$	_	\$	366
Intangible Assets, at cost,	•		,	
net of Amortization Expense		70,471		115,555
Total Capital Assets	\$	70,471	\$	115,921
TOTAL ASSETS	\$	154,523,782	\$	143,415,274
LIABILITIES				
Securities Lending Liability	\$	7,273,766	\$	4,848,356
Accounts Payable	•	1,454	*	-
Payable to Other Systems		8,823		8,764
Due to Primary Government		-		-
Contributions Received in Advance		_		_
Def Inflow of Resources		415		435
Other Liabilities		783		681
Leasing Liabilities		3,662		3,937
TOTAL LIABILITIES	\$	7,288,903	\$	4,862,173
NET POSITION - RESTRICTED				
FOR PENSION BENEFITS	\$	147,234,879	\$	138,553,101
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Table 2: Statement of Changes in Fiduciary Net Position Fiscal Year Ended June 30,

		2025		2024
ADDITIONS				
Contributions:				
Employer	\$	59,746	\$	17
Plan Member		723,896		630,095
Other				
Total Contributions	\$	783,642	_\$_	630,112
Misc Income	\$	-	\$	-
Investment Income:				
Net Appreciation/(Depreciation)				
in Fair Value of Investments	\$	13,614,822	\$	12,364,871
Investment Earnings		70,791		75,195
Security Lending Income		333,339		171,694
Investment Income/(Loss)	\$	14,018,952	\$	12,611,760
Investment Expense		(807, 188)		(831,432
Security Lending Expense		(288,849)		(137,876
Net Investment Income/(Loss)	\$	12,922,915	\$	11,642,452
Total Additions	\$	13,706,557	\$	12,272,564
DEDUCTIONS				
Benefits, Refunds and Distributions	\$	4,970,376	\$	4,521,948
Transfers out - Employer Forfeitures		-		_
Supplemental Insurance Payments		-		_
Administrative Expense		54,403		54,604
Miscellaneous Expense				_
Total Deductions	_ \$	5,024,779	\$	4,576,552
NET INCREASE (DECREASE)				
N PLAN NET ASSETS	\$	8,681,778	\$	7,696,012
NET POSITION - RESTRICTED				
FOR PENSION BENEFITS				
BEGINNING OF YEAR	\$	138,553,101	\$	130,857,089
ADJUSTMENT		-		-
END OF YEAR	\$	147,234,879	\$	138,553,101





Table 3: Determination of Actuarial Value of Assets

Valuation Date June 30:		2024		2025		2026		2027		2028
A. Actuarial Value Beginning of Year	\$	132,393,655	\$	140,157,853						
B. Market Value End of Year		138,553,101		147,234,879						
C. Market Value of Beginning of Year		130,857,089		138,553,101						
D. Cash Flow										
D1. Contributions D2. Benefit Payments D3. Administrative Expenses D4. Investment Expenses D5. Net		630,112 (4,521,948) (54,604) (969,308) (4,915,748)	Ф.	783,642 (4,970,376) (54,403) (1,096,037) (5,337,174)						
E. Investment Income	φ	(4,913,740)	φ	(3,337,174)						
 E1. Market Total: B C D5. E2. Assumed Rate E3. Amount for Immediate Recognition	\$	12,611,760 7.30% 10,434,427 2,177,333	\$	14,018,952 7.30% 11,112,001 2,906,951						
F. Excluded Gain/(Loss)										
 F1. Current Year: 0.25 * E4. F2. First Prior Year F3. Second Prior Year F4. Third Prior Year F5. Total Excluded Investment Gain/(Loss) 	\$ 	544,333 334,434 (3,906,620) 5,273,372 2,245,519	\$ 	726,738 544,333 334,434 (3,906,620) (2,301,115)	\$ 	726,738 544,333 334,434 1,605,505	\$ 	726,738 544,334 1,271,072	\$ 	726,737 726,737
G. Actuarial Value End of Year A. + D5. + E3. + F5.	\$		\$	143,631,565	Ψ	1,000,000	Ψ	1,211,012	Ψ	. 20, 101





Table 4: Historical Investment Returns*

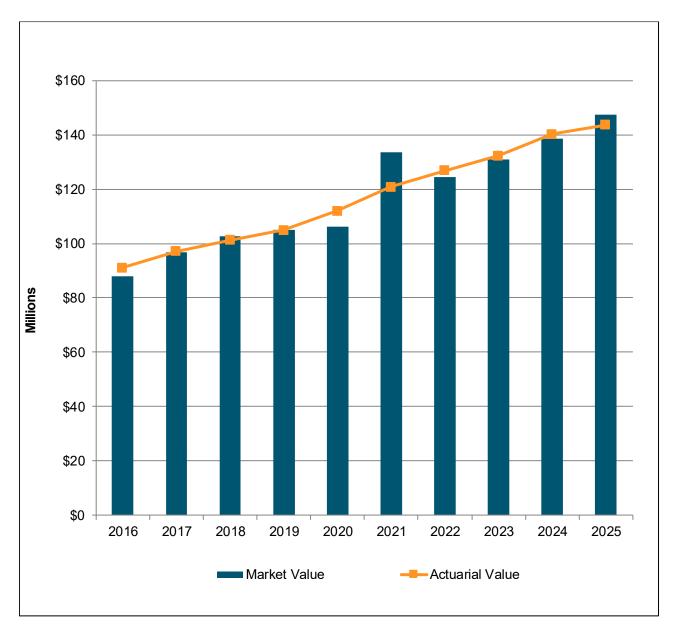
Fiscal Year	Market	Actuarial	Assumed Rate	Actuarial Return
<u>Ending</u>	Returns	Returns	of Return	Over Assumed Rate*
June 30, 2016	2.06%	8.64%	7.75%	0.89%
June 30, 2017	11.91%	8.22%	7.75%	0.47%
June 30, 2018	8.88%	6.89%	7.65%	(0.76)%
June 30, 2019	5.64%	7.22%	7.65%	(0.43)%
June 30, 2020	2.72%	7.08%	7.65%	(0.57)%
June 30, 2021	27.69%	10.77%	7.65%	3.12%
June 30, 2022	(4.21)%	8.11%	7.65%	0.46%
June 30, 2023	8.39%	7.49%	7.30%	0.19%
June 30, 2024	8.99%	8.94%	7.30%	1.64%
June 30, 2025	9.43%	5.55%	7.30%	(1.75)%
10 Year Average	7.87%	7.88%		0.32%

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





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





SECTION 3 – ACTUARIAL PRESENT VALUE OF FUTURE BENEFITS



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		Ju	ine 30, 2024 Total
A. Active Members Liability Due to Probab	oility	of		
Retirement Disability In-Service Death Termination	\$	38,273,929 1,328,218 831,784	\$	41,207,629 1,193,838 821,442
Total	\$	40,433,931	\$	43,222,909
B. Inactive Members and Annuitants				
Service Retirement Disability Retirement Beneficiaries Vested Terminated Members Refund of Member Contributions	\$	43,757,704 864,503 8,659,515 287,773 9,588	\$	36,992,359 859,793 9,065,450 269,508 9,331
Total	\$	53,579,083	\$	47,196,441
C. Grand Total	\$	94,013,014	\$	90,419,350



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. 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 three 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.





Table 7: Normal Cost Contribution Rates As Percentages of Salary

	June 30, 2025 Total	June 30, 2024 Total
Service retirement	25.12%	24.75%
Disability retirement	1.59%	1.65%
Survivors' benefits	0.75%	0.79%
Termination benefits	0.00%	0.00%
Total Normal Rate	27.46%	27.19%
Employee Normal Rate	7.00%	7.00%
Employer Normal Rate	20.46%	20.19%



SECTION 4 – EMPLOYER CONTRIBUTIONS



Table 8: Unfunded Actuarial Accrued Liability

	June 30, 2025		Jı	une 30, 2024
A. Actuarial present value of all future benefits for present members, retirees, and their survivors (Table 6)	\$	94,013,014	\$	90,419,350
B. Less actuarial present value of total future normal costs for present members	\$	15,852,967	\$	14,181,950
C. Actuarial accrued liability	\$	78,160,047	\$	76,237,400
D. Less assets available for benefits	\$	143,631,565	\$	140,157,853
E. Unfunded actuarial accrued liability	\$	(65,471,518)	\$	(63,920,453)



SECTION 5 - CASH FLOW HISTORY



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.

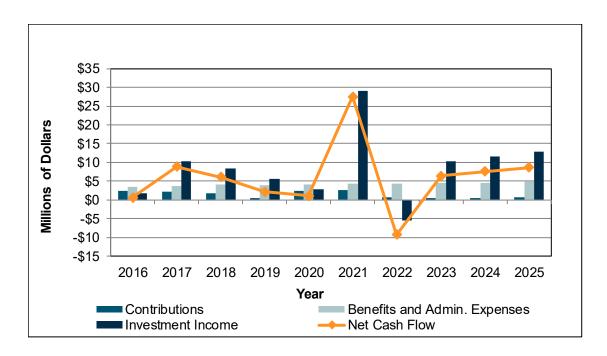
Table 9 shows the System had a positive cash flow for the year ended June 30, 2025. The System's total cash flow including benefit payments, administrative expenses and investment earnings was \$8.7 million. Of the \$8.7 million, \$12.9 million was due to investment returns.

If the System has a positive cash flow, there is no need to plan where the funds would come from to pay benefits since the 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.





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



	Historical Cash Flows				
Year	Benefits &				
Ended		Administrative	Investment	Net Cash	
<u>June 30</u>	Contributions	<u>Expenses</u>	<u>Income</u>	<u>Flow</u>	
2016	2.5	3.6	1.8	0.7	
2017	2.3	3.8	10.4	8.9	
2018	1.7	4.1	8.5	6.1	
2019	0.5	4.0	5.7	2.2	
2020	2.5	4.2	2.8	1.1	
2021	2.7	4.3	29.1	27.5	
2022	0.7	4.4	(5.5)	(9.2)	
2023	0.6	4.5	10.3	6.4	
2024	0.6	4.6	11.6	7.6	
2025	0.8	5.0	12.9	8.7	



SECTION 6 - ACTUARIAL GAINS OR LOSSES

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

A. ACTUARIAL ACCRUED LIABILITY (GAIN) / LOSS ANALYSIS



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

1. Actual Actuarial Accrued Liability as of June 30, 2024:	\$ 76,237,400
2. Normal Cost for this Plan Year:	2,059,194
3. Interest on items 1 and 2 [(1+2) x 7.30%]:	5,715,651
Benefit Payments for this Plan Year:	(4,970,376)
5. Interest on item [4 x 7.30% x .5]:	(181,419)
6. Expected Actuarial Accrued Liability as of June 30, 2025:	\$ 78,860,450
7 01	

7. Changes due to:

a. Assumption Changes: b. Plan Amendments: c. Funding Method: d. Actuarial (Gain) / Loss: (700,403)

8. Actual Actuarial Accrued Liability as of June 30, 2025:

78,160,047

- 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:	\$ 140,157,853
2. Interest on item [1 x 7.30%]:	10,231,523
3. Contributions for this Plan Year:	783,642
4. Interest on item [3. x 7.30% x .5]:	28,603
5. Benefit Payments for this Plan Year:	(4,970,376)
6. Interest on item [5. x 7.30% x .5]:	(181,419)
7. Expected Actuarial Value of Assets as of June 30, 2025:	\$ 146,049,826
8. Actuarial Value of Assets as of June 30, 2025:	\$ 143,631,565
9. (Gain) / Loss:	\$ 2,418,261

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

 Actual Unfunded Actuarial Accrued Liability as of June 30, 2024: Normal Cost for this Plan Year: Contributions for this Plan Year: Interest on items 1 - 3: [(1+2) x 7.30% + (3 x 7.30% x .5)]: 	\$ (63,920,453) 2,059,194 (783,642) (4,544,475)
5. Expected Unfunded Actuarial Accrued Liability as of June 30, 2025:	\$ (67,189,376)
6. Changes due to:	
a. Assumption Changes:	-
b. Plan Amendments:	-
c. Funding Method:	-
d. Actuarial (Gain) / Loss:	\$ 1,717,858
7. Actual Unfunded Actuarial Accrued Liability as of June 30, 2025:	\$ (65,471,518)

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





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

			JAAL	(Gain)/Loss		
	Jur	ne 30, 2025		ine 30, 2024	Ju	ne 30, 2023
Investment Income Investment income was (greater) less than expected based on actuarial value of assets.	\$	2,418.3	\$	(2,133.3)	\$	(238.5)
Pay Increases Pay increases were (less) greater than expected.		(925.4)		238.8		(690.2)
Age & Service Retirements Members retired at (older) younger ages or with (less) greater final average pay than expected		75.1		(229.7)		(525.7)
Disability Retirements Disability claims were (less) greater than expected		4.5		0.9		1.0
Death-in-Service Benefits Survivor claims were (less) greater than expected		(16.3)		(15.9)		(16.0)
Withdrawal From Employment (More) less reserves were released by withdrawals than expected		-		-		-
Death After Retirement Retirees (died younger) lived longer than expected		784.7		243.9		(371.8)
Data Adjustments and Benefit Payment Timing Service purchases, data corrections, etc.		(623.1)		148.9		(966.7)
Other Miscellaneous (gains) and losses		0.1		-		0.1
Total (Gain) or Loss During Period From Financial Experience	\$	1,717.9	\$	(1,746.4)	\$	(2,807.8)
Non-Recurring Items. Changes in actuarial assumptions and methods		-		-		-
Changes in benefits caused a (gain) loss						
Composite (Gain) Loss During Period	\$	1,717.9	\$	(1,746.4)	\$	(2,807.8)

^{*} Effects related to gains are shown in parentheses. Numerical results are expressed as a (decrease) increase in the Unfunded Actuarial Accrued Liability (UAAL). Gains decrease the UAAL, and losses increase the UAAL.



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



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 \$90 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.





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		Estimated	Asset
Valuation	Market Value	Plan Year	Volatility
Date	of Assets	Payroll	Ratio
6/30/2016	87,806	6,920	12.69
6/30/2017	96,654	6,974	13.86
6/30/2018	102,651	7,291	14.08
6/30/2019	104,886	7,382	14.21
6/30/2020	106,066	8,001	13.26
6/30/2021	133,610	8,282	16.13
6/30/2022	124,358	8,408	14.79
6/30/2023	130,857	8,561	15.29
6/30/2024	138,553	9,001	15.39
6/30/2025	147,235	8,949	16.45

The assets at June 30, 2025 are 1,645% of payroll, so underperforming the investment return assumption by 1.00% (i.e., earn 6.30% for one year) is equivalent to 16.45% 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.





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 for a plan that has as funded ratio which is less than 100%. The System has had negative cash flows for the prior ten years. This is an expected result considering the System is currently has a funded ratio which is greater than 100%.

Year End	Market Value of Assets (MVA)	Contributions	Benefit Payments	Net Cash Flow	Net Cash Flow as a Percent of MVA
6/30/2016	87,806	2,537	3,613	(1,077)	(1.23%)
6/30/2017	96,654	2,288	3,808	(1,520)	(1.57%)
6/30/2018	102,651	1,660	4,137	(2,477)	(2.41%)
6/30/2019	104,886	516	3,969	(3,452)	(3.29%)
6/30/2020	106,066	2,548	4,195	(1,647)	(1.55%)
6/30/2021	133,610	2,729	4,331	(1,602)	(1.20%)
6/30/2022	124,358	708	4,413	(3,704)	(2.98%)
6/30/2023	130,857	648	4,427	(3,779)	(2.89%)
6/30/2024	138,553	630	4,522	(3,892)	(2.81%)
6/30/2025	147,235	784	4,970	(4,187)	(2.84%)





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 five 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	36,691,062	54,753,632	67.0%
6/30/2017	39,506,128	58,103,656	68.0%
6/30/2018	43,554,678	62,740,689	69.4%
6/30/2019	47,029,940	65,075,477	72.3%
6/30/2020	46,956,531	67,934,098	69.1%
6/30/2021	46,136,131	68,460,454	67.4%
6/30/2022	46,975,288	72,922,865	64.4%
6/30/2023	45,790,666	73,135,389	62.6%
6/30/2024	47,196,441	76,237,400	61.9%
6/30/2025	53,579,083	78,160,047	68.6%

Historical Member Statistics

	Valuation			
	Date	Num	Active/	
June 30,		Active	Retired	Retired
	2016	55	68	0.81
	2017	56	68	0.82
	2018	55	70	0.79
	2019	58	73	0.79
	2020	58	72	0.81
	2021	57	73	0.78
	2022	59	74	0.80
	2023	60	74	0.81
	2024	60	75	0.80
	2025	61	82	0.74



APPENDIX A - ACTUARIAL PROCEDURES AND METHODS



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-2 through B-3 give rates of decrement for service retirement, disablement and mortality.

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 consists 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.

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.



APPENDIX A - ACTUARIAL PROCEDURES AND METHODS



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 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 an assumed 3.50% annual rate of increase in the general wage level of the membership. There are no separate merit and seniority increases assumed.

Service Retirement

Table B-2 shows the annual assumed rates of retirement among members eligible for service retirement. Separate rates are used when a member is eligible for reduced benefits, for the first year a member is eligible for full benefits, and for the years following the first year a member is eligible for full benefits.

Disablement

The rates of disablement used in this valuation are illustrated in Table B-3.

Mortality

A written description of each mortality table used is included in Table B-1.

Other Terminations of Employment

No terminations are assumed other than for retirement, death and disability.

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 three years younger than their male spouse.

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.



APPENDIX B - SUMMARY OF VALUATION ASSUMPTIONS



Table B-1 Summary of Valuation Assumptions

	Summary of Valuation Assumptions								
I.	Eco	onomic 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.	De	mographic assumptions							
	A.	Retirement	Table B-2						
	B.	Disablement	Table B-3						
	C.	Mortality among contributing members.							
		PUB 2010 General Amount Weighted Employee Mortality projected to 2021 for males and females. Projected generationally using MP-2021.							
	D.	Mortality among service retired members.							
		PUB 2010 General Amount Weighted Healthy Retiree Mortality Table projected to 2021 with ages set forward 1 year and adjusted 104% for males and							

E. Mortality among beneficiaries.

MP-2021.

PUB 2010 Amount Weighted Contingent Survivor Mortality projected to 2021 with ages set forward 1 year for males and females. Projected generationally using MP-2021.

103% for females. Projected generationally using

F. Mortality among disabled members.

PUB 2010 General Amount Weighted Disabled Retiree Mortality Table projected to 2021 with ages set forward 1 year for both males and females.



APPENDIX B - SUMMARY OF VALUATION ASSUMPTIONS



Table B-2
Retirement
Annual Rates

Age	Rate
60	10.0%
61	10.0
62	10.0
63	10.0
64	10.0
65	20.0
66	20.0
67	20.0
68	20.0
69	20.0
70 & Over	100.0

Vested terminations are assumed to retire at their earliest unreduced eligibility.



APPENDIX B - SUMMARY OF VALUATION ASSUMPTIONS



Table B-3

Disablement Annual Rates

Age	All Members
22	0.00%
27	0.04
32	0.04
37	0.04
42	0.16
47	0.40
52	0.71
57	1.00
60	1.44
62	0.00

10% of disabilities are assumed to be duty-related and 90% are assumed to be non-duty related. All disabilities are assumed to be permanent without recovery.





Service credit

- Service credit is used to determine the amount of a member's retirement benefit.
- 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.

Membership service

- Membership service is used to determine eligibility for vesting, retirement or other benefits.
- One month of membership service is earned for any month member contributions are made, regardless of the number of hours worked.
- Eligible members in all systems may purchase service that counts toward membership service.
- Additionally, eligible active and inactive Sheriffs' Retirement System (SRS) members may purchase 1 for 5 (additional) service that will count as membership service.

Contributions

 Member contributions are made through an "employer pick- up" arrangement which results in deferral of taxes on the contributions.

Compensation

- 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.
- Bonuses paid on or after 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.

Withdrawal of employee contributions

- 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.
- The member receives the accumulated member contributions, which consists of member contributions and regular interest.
- Upon receipt of a refund of accumulated contributions a member's vested right to a monthly benefit is forfeited.

Member contributions interest credited (regular interest)

- Interest is credited to member accounts at the rates determined by the Board.
- The current interest rate credited to member accounts is 2.50%.

Refunds

- Terminating members eligible to retire may, in lieu of receiving a monthly retirement benefit, refund their accumulated contributions in a lump sum.
- 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.





 Trusts, estates, and charitable organizations listed as beneficiaries are entitled to receive only a lump sum payment.

Lump-sum payouts

• 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.

Type of plan

Single-employer defined benefit

Membership eligibility

- Judges of district courts
- · Justices of supreme court
- Chief water judge
- Associate water judge (effective July 1, 2011)

Member contributions

7% of member's compensation

Employer contributions

- 0.00% of each member's compensation
- 25.81% of each member's compensation prior to July 1, 2018

Compensation period used in benefit calculation

- Current salary or HAC = Highest Average Compensation
- Hired prior to July 1, 1997, and did not elect GABA, benefits are calculated using current salary of the office from which the member retired.
- Hired on or after July 1, 1997, or hired prior to July 1, 1997 and elected GABA, benefits are calculated using HAC, the average of the highest 36 consecutive months (or shorter period of total service) of compensation paid to the member.
- Hired on or after July 1, 2013: 110% annual cap on compensation considered as part of a member's HAC.

Service retirement eligibility and benefit

- Age 60 with 5 years of membership service
- First 15 years of service credit:

3⅓% per year of current salary or HAC, and

Over 15 years of service credit:

1.785% per year of current salary or HAC

Disability eligibility and benefit

Non-duty disability:

- 5 years membership service
- Regular disability benefit:

Actuarial equivalent of the normal retirement benefit available at the time of disability.

Duty-related disability:

- · Any amount of membership service
- Duty-related disability benefit:

Greater of 50% of current salary or 50% of HAC





Survivor's eligibility and benefit

Duty-related death:

- Active or retired member
- Member's service retirement benefit on the date of the death.

Non-duty-related death:

- Vested member
- Refund of the member's accumulated contributions, or
- Actuarial equivalent of the member's service retirement benefit on date of death.
- A beneficiary may elect to receive the present value of the benefit as a single lump sum
- For retired members without a contingent annuitant, a
 payment will be made to the member's designated
 beneficiary equal to the accumulated contributions reduced
 by any retirement benefits already paid.

Vesting eligibility and benefit

- 5 years of membership service
- Accrued normal retirement benefit, payable when eligible for retirement.
- In lieu of a pension, a member may receive a refund of accumulated contributions.
- Upon receipt of a refund of accumulated contributions, a member's vested right to a monthly benefit is forfeited.

Retirement benefits - Form of payment

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.

Optional Benefits:

- Option 2, a life annuity and joint 100% survivor benefit,
- Option 3, a life annuity and joint 50% survivor benefit, and
- Option 4, a life annuity with a period certain.

If a retiring member selects Option 2 or 3 and the contingent annuitant predeceases or is divorced from the member, the retiree may, within 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.

Post retirement benefit increases

- For retired members who have been retired for at least 12 months and who were either hired after June 30, 1997 or hired prior to July 1, 1997 and elected GABA, a GABA will be made January 1 of each year equal to 3%.
- For retired members who were hired prior to July 1, 1997 and did not elect GABA, the current salary of an active member in the same position is used to recalculate the monthly benefit bi-annually.





Changes since last valuation

Employer contribution was set at 0.00% of member's compensation.



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 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.

		Valuation Projected				
Active Members	Number		Salaries			
Full-Time Members	54	\$	8,392,163			
Part-Time Members	7	\$	542,068			
Total Members	61	\$	8,934,231			

Table D-1 contains summaries of the data for active 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.

Type of Annuitant	Number	_Anr	nual Benefits	age Annual Benefits
Service Retirement	62	\$	4,120,559	\$ 66,461
Survivors of Deceased Retired Members	15		959,356	63,957
Survivors of Deceased Active Members	4	-	137,276	 34,319
Total Retirees and Beneficiaries	81	\$	5,217,191	\$ 64,410
Disability Retirement	1		75,927	 75,927
Total Annuitants	82	\$	5,293,118	\$ 64,550

Terminated Members with	
Contributions Not Withdrawn	Number
Vested Terminated Members	1
Non-Vested Terminated Members	<u>2</u>
Total Terminated Members	3





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

Number of Employees

						Completed Ye	ars of Service						
Age	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+	Totals
<25													
25 to 29													
30 to 34													
35 to 39				1	1								2
40 to 44	1			1	1								3
45 to 49	1				5								6
50 to 54	1		1	1	1	1							5
55 to 59			1	4	7	2							14
60 to 64	2		1		4	5	2	1					15
65 to 69					3		2	2					7
70 and up					1					1			2
Totals	5	_	3	7	23	8	4	3	_	1	-	_	54





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

Annual Salaries in Thousands

Completed Years of Service

Age	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+	Totals
<25													
25 to 29													
30 to 34													
35 to 39				154	154								308
40 to 44	156			154	154								464
45 to 49	156				770								926
50 to 54	156		154	154	154	154							772
55 to 59			154	616	1,079	322							2,171
60 to 64	298		154		616	770	322	168					2,329
65 to 69					462		322	329					1,113
70 and up					154					154			308
•													
Totals	765	-	462	1,079	3,544	1,247	645	497	-	154	-	-	8,392

The salary shown in the above chart was used for valuation purposes and assumes pay increases for the year.





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

Average Annual Salary

Completed Years of Service 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+ Totals Age <25 25 to 29 30 to 34 35 to 39 154,083 154,083 154,083 40 to 44 154,647 155,776 154,083 154,083 45 to 49 155,776 154,083 154,365 50 to 54 155,776 154,083 154,083 154,083 154,083 154,421 55 to 59 154,083 154,083 154,083 161,137 155,090 60 to 64 149,003 154,083 154,083 154,083 161,137 168,191 155,286 65 to 69 154,083 161,137 164,257 159,005 154,083 70 and up 154,083 154,083 Totals 153,067 154,083 154,083 154,083 155,846 165,568 154,083 155,410 161,137

The salary shown in the above chart was used for valuation purposes and assumes pay increases for the year.





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

Number of Employees

Completed Years of Service

Age	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+	Totals
<25													
25 to 29													
30 to 34													
35 to 39						1							1
40 to 44	3												3
45 to 49	1												1
50 to 54													
55 to 59								1					1
60 to 64													
65 to 69		1											1
70 and up													
Totals	4	1	-	-	-	1	-	1	-	-	-	-	7





Table D-2: Distribution of Inactive Lives

Members Receiving Service Retirement Benefits as of June 30, 2025

Age	Number of Persons	Anr	nual Benefits	rage Annual Benefits
<50	-	\$	-	\$ -
50 to 54	-		-	-
55 to 59	-		-	-
60 to 64	2		130,891	65,446
65 to 69	9		619,251	68,806
70 to 74	15		1,057,210	70,481
75 to 79	22		1,412,431	64,201
80 to 84	11		724,087	65,826
85 to 89	2		113,659	56,830
90 and up	1		63,030	63,030
Totals	62	\$	4,120,559	\$ 66,461

Members Receiving Disability Retirement Benefits as of June 30, 2025

	Number of			Aver	Average Annual		
Age	Persons	Annı	ual Benefits	Benefits			
<50	-	\$	-	\$	-		
50 to 54	-		-		-		
55 to 59	-		-		-		
60 to 64	-		-		-		
65 to 69	1		75,927		75,927		
70 to 74	-		-		-		
75 to 79	-		-		-		
80 to 84	-		-		-		
85 to 89	-		-		-		
90 and up							
Totals	1	\$	75,927	\$	75,927		





Table D-2: Distribution of Inactive Lives

Survivors of Deceased Retired Members as of June 30, 2025

	Number of				age Annual
Age	Persons	Anr	nual Benefits	ts Benefits	
			_		_
<50	-	\$	-	\$	-
50 to 54	-		-		-
55 to 59	-		-		-
60 to 64	1		24,117		24,117
65 to 69	1		33,869		33,869
70 to 74	3		188,411		62,804
75 to 79	3		227,578		75,859
80 to 84	-		-		-
85 to 89	4		347,803		86,951
90 and up	3		137,578		45,859
Totals	15	\$	959,356	\$	63,957

Survivors of Deceased Active Members as of June 30, 2025

Age	Number of Persons	Ann	ual Benefits	age Annual Benefits
<50	-	\$	_	\$ -
50 to 54	-		-	-
55 to 59	-		-	-
60 to 64	-		-	-
65 to 69	-		-	-
70 to 74	2		98,550	49,275
75 to 79	1		19,230	19,230
80 to 84	1		19,496	19,496
85 to 89	-		-	-
90 and up				
Totals	4	\$	137,276	\$ 34,319





Table D-2: Distribution of Inactive Lives

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

Age	Number
<25	
25 to 29	
30 to 34	
35 to 39	
40 to 44	
45 to 49	
50 to 54	1
55 to 59	
60 to 64	
65 to 69	
70 and above	
Total	1





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 and the Annual Financial Statements.

	Active Contributing Members	Terminated Vested Members	Service Retired Members	Disabled Members	Survivors and Beneficiaries
June 30, 2024 Valuation	60	1	54	1	20
Refunds and Non-Vested Terminations Vested Terminations Service Retirements Disability Retirements	(9)		9		
Deaths Payment Stopped			(1)		(1)
New Entrants Rehires Other					
June 30, 2025 Valuation	61	1	62	1	19



APPENDIX E - COMPARATIVE SCHEDULES



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.





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	61	8,948,962	146,704	56.6	8.5	48.1
2024	60	9,001,334	150,022	59.3	10.2	49.1
2023	60	8,561,115	142,685	58.4	9.9	48.5
2022	59	8,408,166	142,511	58.0	9.4	48.6
2021	57	8,281,631	145,292	58.1	9.2	48.9
2020	58	8,001,462	137,956	57.6	8.6	49.0
2019	58	7,382,476	127,284	57.2	7.8	49.5
2018	55	7,290,904	132,562	58.3	8.8	49.6
2017	56	6,974,470	124,544	58.5	9.0	49.5
2016	55	6,920,367	125,825	58.9	9.2	49.7
2015	55	6,521,161	118,567	59.6	9.8	49.8
2014	55	6,495,104	118,093			
2013	54	6,212,209	115,041			
2012	54	6,192,316	114,673			





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

				Terminated Members				
Valuation Date June 30,	Number	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	82	5,293,118	64,550	74.7	67.0	18.2	1	2
2024	75	4,637,703	61,836	74.3	66.1	18.3	1	2
2023	74	4,369,276	59,044	73.8	66.1	18.3	2	2
2022	74	4,411,550	59,616	73.1	66.1	18.7	2	2
2021	73	4,233,870	57,998	72.2	65.8	18.9	2	2
2020	72	4,040,834	56,123	75.9	66.1	18.9	2	1
2019	73	3,988,132	54,632	75.2	65.8	19.2	2	1
2018	70	3,754,615	53,637	76.1	65.3	16.8	3	1
2017	68	3,503,014	51,515	75.6	65.9	17.3	2	1
2016	68	3,466,289	50,975	76.3	63.9	17.4	2	0
2015	67	3,133,947	46,175	76.5	62.6	17.1	0	2
2014	67	3,021,244	45,093				0	1
2013	65	2,855,061	43,924				0	0
2012	56	2,326,801	41,550				0	0





Table E-3: **Contribution Rates**

	Contribution Rates		Normal	UAAL
Employee	Employer***	Total	Cost Rate*	Rate**
7.00 %	0.00 %	7.00 %	27.46 %	(20.46)%
7.00	0.00	7.00	27.19	(20.19)
7.00	0.00	7.00	26.76	(19.76)
7.00	0.00	7.00	27.24	(20.24)
7.00	0.00	7.00	23.94	(16.94)
7.00	25.81	32.81	23.97	8.84
7.00	0.00	7.00	24.22	8.59
7.00	12.91	19.91	24.42	8.39
7.00	25.81	32.81	24.42	8.39
7.00	25.81	32.81	24.29	8.52
7.00	25.81	32.81	24.50	8.31
7.00	25.81	32.81	24.62	8.19
7.00	25.81	32.81	24.67	8.14
	7.00 % 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.0	Employee Employer*** 7.00 % 0.00 % 7.00 0.00 7.00 0.00 7.00 0.00 7.00 0.00 7.00 25.81 7.00 12.91 7.00 25.81 7.00 25.81 7.00 25.81 7.00 25.81 7.00 25.81 7.00 25.81 7.00 25.81 7.00 25.81	Employee Employer*** Total 7.00 % 0.00 % 7.00 % 7.00 0.00 7.00 7.00 0.00 7.00 7.00 0.00 7.00 7.00 0.00 7.00 7.00 25.81 32.81 7.00 12.91 19.91 7.00 25.81 32.81 7.00 25.81 32.81 7.00 25.81 32.81 7.00 25.81 32.81 7.00 25.81 32.81 7.00 25.81 32.81 7.00 25.81 32.81	Employee Employer*** Total Cost Rate* 7.00 % 0.00 % 7.00 % 27.46 % 7.00 0.00 7.00 27.19 7.00 0.00 7.00 26.76 7.00 0.00 7.00 27.24 7.00 0.00 7.00 23.94 7.00 25.81 32.81 23.97 7.00 0.00 7.00 24.22 7.00 12.91 19.91 24.42 7.00 25.81 32.81 24.42 7.00 25.81 32.81 24.29 7.00 25.81 32.81 24.50 7.00 25.81 32.81 24.50 7.00 25.81 32.81 24.50 7.00 25.81 32.81 24.62

Includes administrative expenses starting with the 2014 Valuation Date



^{**} Prior to 2023, the UAAL rate was the amount available to amortize the UAAL. It is equal to the total contribution rate, minus the normal cost rate.

*** The employer contributions were temporarily suspended for JRS beginning the first full pay period of January 2018 until after the last full pay period of June 2019 and beginning July 1, 2021.

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	0 Years
Asset valuation method	Four-year smoothed market
Actuarial assumptions:	
Investment rate of return*	7.30%
General wage growth*	3.50%
Merit salary increases	0.0%
*Includes inflation	2.75%





Gain and Loss in Accrued Liability During Years Ended June 30 Resulting from Differences Between Assumed Experience and Actual Experience Gain or (Loss) for Year Ending June 30, (expressed in thousands) Type of Activity 2020 2021 2022 2025 2023 2024 Investment Income on Actuarial Value of Assets (595)3,425 550 239 \$ 2,133 \$ (2,418) \$ Combined Liability Experience (319)2,110 2,569 (387)434 700 (Loss)/Gain During Year from Financial Experience 5,535 984 \$ 2,808 \$ 1,746 \$ (1,718) (914)Non-Recurring Items (2,354)Composite Gain or (Loss) During Year (914)5,535 \$ (1,370) \$ 2,808 \$ 1,746 \$ (1,718)

Schedule of Funding Progress (expressed in thousands)										
Valuation Actuarial Actuarial Unfunded UAAL as a										
Date	Value of	Accrued	Funded	Percentage of						
June 30,	Assets	Liability (AAL)	Ratio	(UAAL)	Payroll	Covered Payroll				
2025	\$ 143,632	\$ 78,160	184%	\$ (65,472)	\$ 8,949	(732)%				
2024	140,158	76,237	184%	(63,920)	9,001	(710)%				
2023	132,394	73,135	181%	(59,258)	8,561	(692)%				
2022	126,815	72,923	174%	(53,892)	8,408	(641)%				
2021	120,865	68,460	177%	(52,404)	8,282	(633)%				
2020	110,639	67,934	163%	(42,705)	8,001	(534)%				



APPENDIX F - FINANCIAL STATEMENT INFORMATION



Solvency Test Aggregate Accrued Liabilities for (expressed in thousands)										
Valuation Member Retirees &						Active Member Imployer inanced ntributions (3)	Actuarial Value of Reported Assets		n of Accrued l d by Reporte (2)	•
2025 2024	\$	5,598 6,185	\$	53,282 46,918	\$	19,280 23,135	\$ 143,632 140,158	100% 100%	100% 100%	440% 376%
2023		5,863		45,018		22,255	132,394	100%	100%	366%
2022		5,382 5,001		46,254 45,503		21,287 17,956	126,815 120,865	100% 100%	100% 100%	353% 392%
2021		4,764		43,547		19,623	110,639	100%	100%	318%



APPENDIX G - GLOSSARY

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 Judges' 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.

