

Public Employees Retirement Association of Minnesota

General Employees Retirement Plan

Actuarial Valuation Report as of July 1, 2025





November 19, 2025

Public Employees Retirement Association of Minnesota
Trustees of the General Employees Retirement Plan
St. Paul, Minnesota

Dear Trustees of the General Employees Retirement Plan:

The results of the July 1, 2025 annual actuarial valuation of the General Employees Retirement Plan are presented in this report. This report was prepared at the request of the Board and is intended for use by the Board and staff and those designated or approved by the Board. This report may be provided to parties other than the Board and staff only in its entirety and only with permission of the Board. GRS is not responsible for the consequences of any unauthorized use of this report by persons other than the intended users as described above.

The purpose of the valuation is to measure the Fund's funding progress and to determine the required contribution rate for the fiscal year beginning July 1, 2025 according to prescribed assumptions. Note that the impact of GASB Statements No. 67 and No. 68 is provided in a separate report. This report should not be relied on for any purpose other than the purpose described herein. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215, the Legislative Commission on Pensions and Retirement (LCPR), and the Trustees. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis section of this report. PERA is solely responsible for communicating to GRS any changes required thereto.

All actuarial assumptions used in this report are reasonable for the purposes of this valuation. The combined effect of the assumptions is expected to have no significant bias (i.e., not significantly optimistic or pessimistic). All actuarial assumptions and methods used in the valuation follow the guidance in the applicable Actuarial Standards of Practice. Additional information about the actuarial assumptions is included in the Actuarial Basis section of this report.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in the Actuarial Basis section of this report. This report includes risk metrics on pages 7-10, but does not include a more robust assessment of the risks of future experience differing materially from the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment. We encourage a review and assessment of investment and other significant risks that may have a material effect on the plan's financial condition.

We have assessed that the contribution rate calculated under the current funding policy is a reasonable Actuarially Determined Employer Contribution (ADEC) and it is consistent with the plan accumulating adequate assets to make benefit payments when due.

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

The findings in this report are based on data and other information through June 30, 2025. The valuation was based upon information furnished by the Public Employees Retirement Association of Minnesota (PERA), concerning benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by PERA.

This report was prepared using our proprietary valuation model and related software which, in our professional judgment, has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

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

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge and belief, the information contained in this report is accurate and fairly presents the actuarial position of the General Employees Retirement Plan as of the valuation date and was performed in accordance with the requirements of Minnesota Statutes Section 356.215, and the requirements of the Standards for Actuarial Work established by the LCPR. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.



The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

Bonita J. Wurst and Sheryl L. Christensen are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. In addition, GRS meets the requirements of "approved actuary" under Minnesota Statutes Section 356.215, Subdivision 1, Paragraph (c).

We are available to answer any questions or provide further details.

Respectfully submitted,
Gabriel, Roeder, Smith & Company



Bonita J. Wurst, ASA, EA, FCA, MAAA



Sheryl L. Christensen, FSA, EA, FCA, MAAA

BJW/SLC:rmn



Other Observations

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

Given the plan's contribution allocation procedure, if there are no changes in benefits, Chapter 356 required contributions are made, and all actuarial assumptions are met (including the assumption of the plan earning 7.00% on the actuarial value of assets, as prescribed by statutes), it is expected that:

- (1) The normal cost of the plan is expected to remain approximately level as a percent of pay;
- (2) The funded status of the plan is expected to gradually improve and is expected to be 100% funded within the next 23 years; and
- (3) The unfunded liability will grow initially as a dollar amount for 1 year (based on the current layered amortization schedule and if contributions are equal to the required contribution amount) before beginning to decline.

Limitations of Funded Status Measurements

Unless otherwise indicated, a funded status measurement presented in this report is based upon the actuarial accrued liability and the actuarial value of assets. Unless otherwise indicated, with regard to any funded status measurements presented in this report:

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

Limitations of Project Scope

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



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Summary of Valuation Results

Contributions

The following table summarizes important contribution information as described in the Development of Costs section.

Contributions	Actuarial Valuation as of	
	July 1, 2025	July 1, 2024
Statutory Contributions - Chapter 353 (% of Payroll)	14.41%	14.44%
Required Contributions - Chapter 356 (% of Payroll)	12.20%	12.29%
Sufficiency/(Deficiency)	2.21%	2.15%

Statutory contributions represent the amount actually contributed to the Fund and include fixed percentage of payroll contributions plus any statutory supplemental contributions. Required contributions are defined in statutes and the LCPR Standards for Actuarial Work, and represent the amount needed to fully fund the plan according to the layered amortization schedule (normal cost, expenses and a payment to amortize the unfunded liability). When member contributions of 6.50% of pay are reflected, the remaining employer statutory contribution is 7.91% of pay, and the remaining employer required contribution is 5.7% of pay.

Based on the actuarial value of assets, scheduled contribution rates and actuarial assumptions described in this report, statutory contributions are expected to bring the plan to full funding in approximately 6 years.

The Plan Assets section provides detail on the plan assets used for the valuation including a development of the Actuarial Value of Assets (AVA). The Market Value of Assets (MVA) earned 11.0% for the plan year ending June 30, 2025. The AVA earned approximately 10.0% for the plan year ending June 30, 2025 compared to the assumed rate of 7.0%.

Participant reconciliation and statistics are detailed in the Membership Data section. The Actuarial Basis section includes a summary of plan provisions and actuarial methods and assumptions used for the calculations in this report.

Accounting information prepared according to the Governmental Accounting Standards Board (GASB) Statements No. 67 and No. 68 will be provided in a separate report.



Summary of Valuation Results

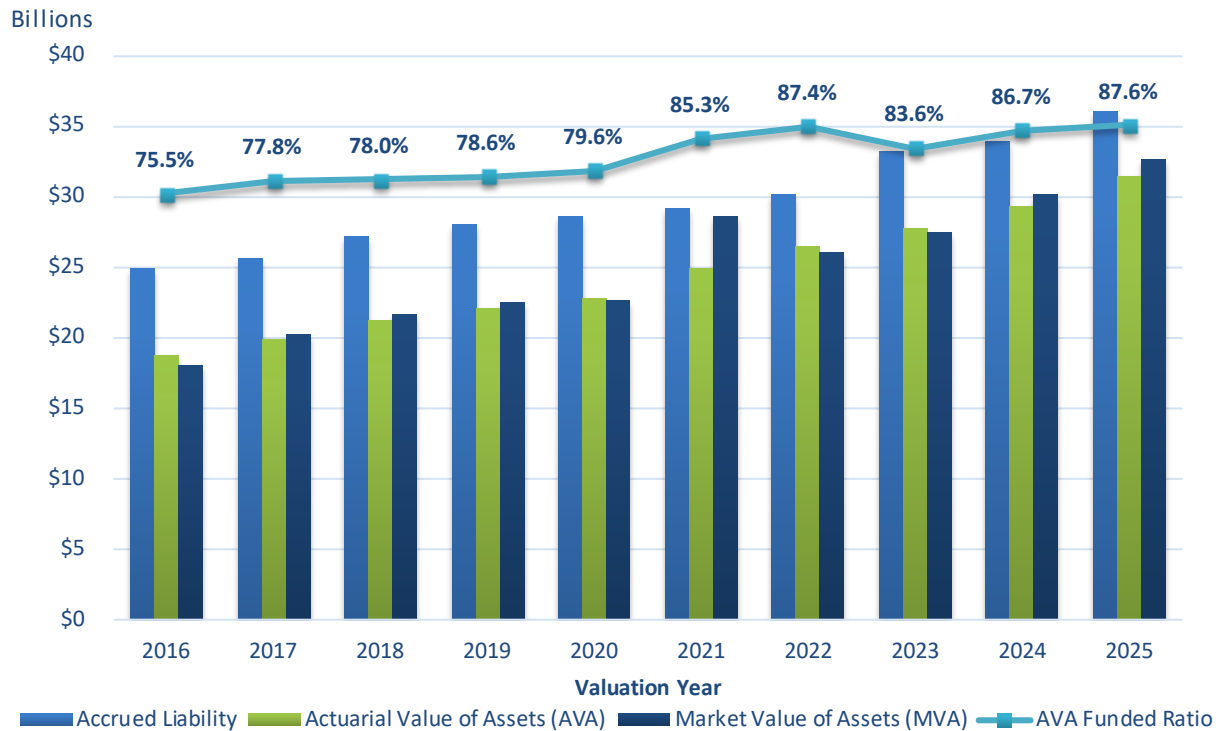
A summary of principal valuation results from the current valuation and the prior valuation follows. Any changes in Plan provisions, actuarial assumptions or valuation methods and procedures between the two valuations are described after the summary.

	Actuarial Valuation as of	
	July 1, 2025	July 1, 2024
Contributions (% of Payroll)		
Statutory - Chapter 353	14.41%	14.44%
Required - Chapter 356	12.20%	12.29%
Sufficiency/(Deficiency)	2.21%	2.15%
Funding Ratios (dollars in thousands)		
Accrued Benefit Funding Ratio		
- Current assets (AVA)	\$ 31,478,997	\$ 29,354,976
- Current benefit obligations	\$ 34,087,675	\$ 32,168,250
- Funding ratio	92.35%	91.25%
Accrued Liability Funding Ratio		
- Current assets (AVA)	\$ 31,478,997	\$ 29,354,976
- Market value of assets (MVA)	\$ 32,638,737	\$ 30,162,004
- Actuarial accrued liability	\$ 35,952,646	\$ 33,858,933
- Funding ratio (AVA)	87.56%	86.70%
- Funding ratio (MVA)	90.78%	89.08%
Projected Benefit Funding Ratio		
- Current and expected future assets	\$ 45,009,786	\$ 42,207,760
- Current and expected future benefit obligations	\$ 42,042,380	\$ 39,400,752
- Projected benefit funding ratio	107.06%	107.12%
Participant Data		
Active members		
- Number	169,427	164,224
- Actual covered payroll (GASB) (000s)	\$ 8,595,923	\$ 8,018,431
- Annual valuation earnings (000s)	\$ 8,614,516	\$ 8,054,695
- Average annual valuation earnings	\$ 50,845	\$ 49,047
- Projected annual earnings (000s)	\$ 9,038,014	\$ 8,448,585
- Average projected annual earnings	\$ 53,345	\$ 51,445
- Average age	44.9	45.2
- Average service	8.3	8.5
Service retirements	111,361	108,878
Survivors	10,068	9,807
Disability retirements	3,100	3,195
Deferred retirements	72,913	71,542
Non-vested terminations eligible for refund only	87,781	89,853
Total	454,650	447,499

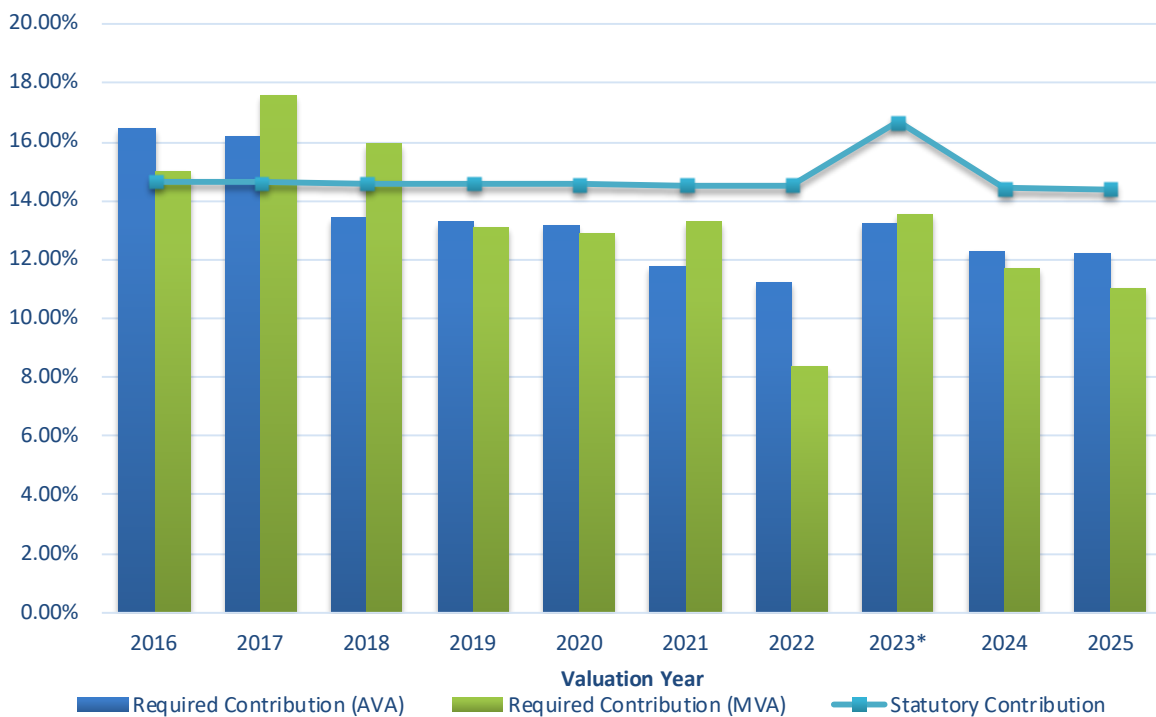


Summary of Valuation Results

Funded Ratio History



Contribution Rate History (% of Pay)



* 2023 Statutory Contribution includes 2.22% of Payroll (\$170.1 million) in one-time direct State aid, payable in October 2023.

Summary of Valuation Results

Effects of Changes

The following changes in plan provisions were recognized as of July 1, 2025:

- The post retirement benefit increase formula was changed to be 100% of the Social Security Cost-of-Living Adjustment (COLA), not less than 1.00% or more than 1.75%. Prior to January 1, 2026, benefit recipients received an annual post-retirement benefit increase equal to 50% of the Social Security COLA, not less than 1.00% and not more than 1.50%.

The following changes in actuarial assumptions were recognized as of July 1, 2025:

- The combined service annuity loading factors were changed from 15% to 19% for Vested Terminated members and from 3% to 44% for Non-Vested Terminated members.
- The assumed post-retirement benefit increase was changed from 1.25% to 1.50%.

The following changes in actuarial methods were recognized as of July 1, 2025:

- Layered amortization was implemented with the amortization periods as defined in the Assumptions and Methods section of this report.

Refer to the Actuarial Basis section of this report for a complete description of these changes. The combined impact of the above changes was to increase the accrued liability by \$0.9 billion and increase the required contribution by 0.80% of pay, as follows:

	Before Changes	Reflecting Method Changes	Reflecting Plan Provision and Method Changes	Reflecting Assumption, Plan Provision and Method Changes
Normal Cost Rate, % of Pay	8.56%	8.56%	8.73%	8.73%
Amortization of UAAL*, % of pay	2.63%	2.39%	3.17%	3.26%
Expenses, % of Pay	<u>0.21%</u>	<u>0.21%</u>	<u>0.21%</u>	<u>0.21%</u>
Total Required Contribution, % of pay	11.40%	11.16%	12.11%	12.20%
Accrued Liability Funding Ratio	89.8%	89.8%	87.8%	87.6%
Projected Benefit Funding Ratio	110.0%	110.0%	107.4%	107.1%
UAAL* (in billions)	\$3.6	\$3.6	\$4.4	\$4.5

* *Unfunded Actuarial Accrued Liability.*

Note: Totals may not add due to rounding.



Summary of Valuation Results

Valuation of Future Post-Retirement Benefit Increases

Effective January 1, 2026, benefit recipients receive a future annual post-retirement benefit increase equal to 100% of the Social Security Cost-of-Living Adjustment (COLA), not less than 1% and not more than 1.75%. Prior to January 1, 2026, benefit recipients received an annual post-retirement benefit increase equal to 50% of the Social Security COLA, not less than 1.00% and not more than 1.50%.

The liabilities in this report reflect an annual future COLA assumption of 1.50% based on our analysis in the General Employees Retirement Plan Supplemental valuation dated January 23, 2025. This is only an assumption; actual increases will depend on actual experience.

Actual benefit increases since this plan provision was enacted are summarized in the table below:

Effective Date	Benefit Increase
January 1, 2019	1.40%
January 1, 2020	1.00%
January 1, 2021	1.00%
January 1, 2022	1.50%
January 1, 2023	1.50%
January 1, 2024	1.50%
January 1, 2025	1.25%

The January 1, 2026 benefit increase of 1.75% will first be reflected in the valuation as of July 1, 2026.

Summary of Valuation Results

Sensitivity Tests

During the 2017 legislative session, the Legislative Commission on Pensions and Retirement (LCPR) enacted a new sensitivity disclosure requirement for PERA's valuations. Per the LCPR's requirement, we have calculated the liabilities associated with the following scenarios:

- 1) 6.00% interest rate assumption
- 2) 8.00% interest rate assumption

We also included an alternate post-retirement benefit increase scenario for informational purposes. The maximum benefit increase paid under current plan provisions is 1.75% per year. The financial impact of a 1.75% post-retirement benefit increase compared to the baseline assumption of 1.50% is shown below.

In each case, all other assumptions were unchanged from those used to develop the final valuation results in this report. Note that we believe the 8.00% interest rate assumption does not comply with Actuarial Standards of Practice.

\$ in Billions	Final Valuation Assumptions (7.00% Interest)	Final Valuation Assumptions with 6.00% Interest	Final Valuation Assumptions with 8.00% Interest	Final Valuation
				Assumptions with 1.75% COLA for All Future Years
Normal Cost Rate, % of Pay	8.73%	10.87%	7.20%	8.91%
Amortization of Unfunded Accrued Liability*, % of Pay	3.26%	6.45%	0.17%	3.92%
Expenses, % of Pay	0.21%	0.21%	0.21%	0.21%
Total Required Contribution, % of Pay	12.20%	17.53%	7.58%	13.04%
Contribution Sufficiency/(Deficiency), % of Pay	2.21%	-3.12%	6.83%	1.37%
Accrued Liability Funding Ratio	87.6%	77.4%	98.2%	85.6%
Present Value of Projected Benefits	\$42.0	\$48.9	\$36.7	\$43.0
Present Value of Future Normal Costs	<u>6.0</u>	<u>8.2</u>	<u>4.6</u>	<u>6.2</u>
Actuarial Accrued Liability	\$36.0	\$40.7	\$32.1	\$36.8
Unfunded/(Surplus) Accrued Liability	\$ 4.5	\$ 9.2	\$ 0.6	\$ 5.3

**The change in liability from the final valuation assumptions is amortized over the 20-year assumption change layer.*



Summary of Valuation Results

Risks Associated with Measuring the Accrued Liability and Actuarially Determined Contribution

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

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

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

1. **Investment Risk** – actual investment returns may differ from the expected returns;
2. **Asset/Liability Mismatch** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
3. **Contribution Risk** – actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
4. **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
5. **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
6. **Other Demographic Risks** – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

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



Summary of Valuation Results

The Required Contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with Minnesota Statutes and the requirements of the Standards for Actuarial Work published by the LCPR. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.

Plan Maturity Measures

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures and values for the General Employees Retirement Plan for the last two years include the following. Additional maturity measures are shown on the following pages.

	2025	2024
Ratio of market value of assets to total payroll	3.80	3.76
Ratio of actuarial accrued liability to total payroll	4.18	4.22
Ratio of actives to retirees and beneficiaries	1.36	1.35
Ratio of net cash flow to market value of assets	-2.4%	-2.2%
Approximate modified duration* of:		
▪ Total projected benefits:	14.54	14.23
▪ Actuarial accrued liability:	11.99	11.78
▪ Retiree liability:	7.84	7.78

* Based on 7.00% interest.

Ratio of Market Value of Assets to Payroll

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 5.0 times the payroll, a return on assets 5% different than assumed would equal 25% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

Ratio of Actuarial Accrued Liability to Payroll

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

The ratio of liability to payroll may also be used as a measure of sensitivity of contribution rates to liability gains and losses. For example, if the actuarial accrued liability is 5.0 times the payroll, a change in liability 2% other than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.



Summary of Valuation Results

Ratio of Actives to Retirees and Beneficiaries

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

Ratio of Net Cash Flow to Market Value of Assets

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

Duration of Actuarial Liability

The modified duration (as opposed to the Macaulay duration) may be used to approximate the sensitivity of the liability to a small change in the assumed rate of return. For example, a modified duration of 10 indicates that the liability would change by approximately 10% if the assumed rate of return were changed by 1% (e.g., from 7.00% to 6.00%).

Additional Risk Assessment

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability. We would be pleased to perform such assessments upon request.

Summary of Valuation Results

Risk Measures Summary (Dollars in Thousands)

Valuation Date (6/30)	(1) Accrued Liabilities (AAL)	(2) Market Value of Assets	(3) Market Value Unfunded AAL	(4) Actual Covered Payroll	(5) Market Value Funded Ratio (2)/(1)	(6) Retiree Liabilities	(7) Retiree Liabilities / AAL (6)/(1)	(8) AAL/ Payroll (1)/(4)	(9) Assets/ Payroll (2)/(4)
2016	\$24,848,409	\$17,994,909	\$6,853,500	\$5,773,708	72.4%	\$ 13,066,753	52.6%	430.4%	311.7%
2017	25,615,722	20,100,579	5,515,143	6,156,985	78.5%	13,896,408	54.2%	416.0%	326.5%
2018	27,101,067	21,553,477	5,547,590	6,298,815	79.5%	15,150,455	55.9%	430.3%	342.2%
2019	27,969,744	22,440,968	5,528,776	6,523,754	80.2%	15,839,879	56.6%	428.7%	344.0%
2020	28,626,916	22,631,459	5,995,457	6,698,754	79.1%	16,366,077	57.2%	427.3%	337.8%
2021	29,215,560	28,587,653	627,907	6,761,354	97.9%	16,945,813	58.0%	432.1%	422.8%
2022	30,189,649	26,034,185	4,155,464	7,042,154	86.2%	17,771,557	58.9%	428.7%	369.7%
2023	33,092,665	27,500,777	5,591,888	7,493,954	83.1%	19,170,549	57.9%	441.6%	367.0%
2024	33,858,933	30,162,004	3,696,929	8,018,431	89.1%	19,314,734	57.0%	422.3%	376.2%
2025	35,952,646	32,638,737	3,313,909	8,595,923	90.8%	20,219,716	56.2%	418.3%	379.7%

Valuation Date (6/30)	(10) Portfolio Std Dev	(11) Std Dev % of Pay (9) x (10)	(12) Unfunded AAL/Payroll (3) / (4)	(13) Non-Investment Cash Flow (NICF)	(14) NICF/ Assets (13)/(2)	(15) SBI Market Rate of Return	(16) SBI 5-Year Average	(17) SBI 10-Year Average
2016	14.1%	43.9%	118.7%	\$(566,466)	(3.1%)	-0.1%	7.7%	N/A
2017	14.1%	46.0%	89.6%	(577,882)	(2.9%)	15.1%	10.2%	6.2%
2018	14.1%	48.2%	88.1%	(610,740)	(2.8%)	10.3%	9.4%	7.8%
2019	14.3%	49.2%	84.7%	(659,887)	(2.9%)	7.3%	7.3%	10.8%
2020	14.3%	48.3%	89.5%	(740,817)	(3.3%)	4.2%	7.2%	9.7%
2021	13.9%	58.8%	9.3%	(756,698)	(2.6%)	30.3%	13.1%	10.3%
2022	14.0%	51.8%	59.0%	(804,424)	(3.1%)	-6.4%	8.5%	9.4%
2023	14.2%	52.1%	74.6%	(806,175)	(2.9%)	8.9%	8.2%	8.8%
2024	14.2%	53.4%	46.1%	(657,472)	(2.2%)	12.3%	9.2%	8.2%
2025	14.2%	53.9%	38.6%	(785,419)	(2.4%)	10.9%	10.6%	8.9%

Notes pertaining to numbered columns:

- (5) The Funded ratio is the most widely known measure of a plan's financial strength, but the trend in the funded ratio is much more important than the absolute ratio. The funded ratio should trend to 100%. As it approaches 100%, it is important to re-evaluate the level of investment risk in the portfolio and potentially to re-evaluate the assumed rate of return.
- (6) and (7) The ratio of Retiree liabilities to total accrued liabilities gives an indication of the maturity of the system. As the ratio increases, cash flow needs increase, and the liquidity needs of the portfolio change. A ratio on the order of 50% indicates a maturing system.
- (8) and (9) The ratios of liabilities and assets to payroll gives an indication of both maturity and volatility. Many systems have ratios between 500% and 700%. Ratios significantly above that range may indicate difficulty in supporting the benefit level as a level % of payroll.
- (10) and (11) The portfolio standard deviation measures the volatility of investment return. When multiplied by the ratio of assets to payroll it gives the effect of a one standard deviation asset move as a percent of payroll. This figure helps users understand the difficulty of dealing with investment volatility and the challenges volatility brings to sustainability.
- (12) The ratio of unfunded liability to payroll gives an indication of the plan sponsor's ability to actually pay off the unfunded liability. A ratio above approximately 300% or 400% may indicate difficulty in discharging the unfunded liability within a reasonable time frame.
- (13) and (14) The ratio of non-investment cash flow to assets is an important measure of sustainability. Negative ratios are common and expected for a maturing system. In the longer term, this ratio should be on the order of approximately -4%. A ratio that is significantly more negative than that for an extended period could be a leading indicator of potential exhaustion of assets.
- (15) (16) and (17) Investment return is probably the largest single risk that most systems face. The year by year return and the 5-year and 10-year geometric average give an indicator of past performance. Of course, past performance is not a guarantee of future results, may not even be reflective of potential future results, and historical averages are very sensitive to the time period chosen. The performance data for the Combined Funds (pooled investments of major Minnesota Public Retirement Systems) is presented in these columns. The source of this data is the Minnesota State Board of Investment.



Low-Default-Risk Obligation Measure

Actuarial Standards of Practice No. 4 (ASOP No. 4) was revised and reissued in December 2021 by the Actuarial Standards Board (ASB). It includes a new calculation called a Low-Default-Risk Obligation Measure (LDROM) to be prepared and issued annually for defined benefit pension plans. The transmittal memorandum for ASOP No. 4 includes the following explanation:

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

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

- A. Low-Default-Risk Obligation Measure of benefits earned as of the measurement date:
\$42,979,351,000
- B. Discount rate used to calculate the LDROM: 5.58%
(Based on the FTSE Pension Liability Index as of the valuation date)
- C. Other significant assumptions that differ from those used for the funding valuation: none
- D. Actuarial cost method used to calculate the LDROM: Entry Age Actuarial Cost Method
- E. Valuation procedures to value any significant plan provisions that are difficult to measure using traditional valuation procedures, and that differ from the procedures used in the funding valuation: none
- F. The LDROM is a market-based measurement of the pension obligation. It estimates the amount the plan would need to invest in low risk securities to provide the benefits with greater certainty. This measure may not be appropriate for assessing the need for or amount of future contributions. This measure may not be appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan’s benefit obligation.

The difference between the two measures (Valuation and LDROM) is one illustration of the savings the sponsor anticipates by taking on the risk in a diversified portfolio.

Funding Valuation Actuarial Accrued Liability:	\$35,952,646,000
LDROM:	\$42,979,351,000
Difference:	\$(7,026,705,000)



Supplemental Information

The remainder of the report includes information supporting the results presented in the previous sections.

- **Plan assets** presents information about the Plan's assets as reported by the Public Employees Retirement Association of Minnesota. The assets represent the portion of total fund liabilities that has been funded.
- **Membership data** presents and describes the membership data used in the valuation.
- **Development of costs** shows the liabilities for Plan benefits and the derivation of the contribution amount.
- **Actuarial basis** describes the Plan provisions, as well as the methods and assumptions used to value the Plan. The valuation is based on the premise that the Plan is ongoing.
- **Additional schedules** show the Schedule of Funding Progress and Schedule of Contributions.
- **Glossary** defines the terms used in this report.

Plan Assets

Statement of Fiduciary Net Position *(Dollars in Thousands)*

Assets in Trust	Market Value	
	June 30, 2025	June 30, 2024
Cash, equivalents, short term securities	\$ 915,196	\$ 497,888
Fixed income	\$ 7,542,210	\$ 7,050,003
Equity	\$ 16,967,547	\$ 15,241,498
Private Markets	\$ 7,197,788	\$ 7,353,042
Other	\$ 4,774	\$ 4,763
Total Assets in Trust	\$ 32,627,515	\$ 30,147,194
Assets Receivable*	\$ 32,758	\$ 44,394
Amounts Payable	\$ (21,536)	\$ (29,584)
Net Assets Held in Trust for Pension Benefits	\$ 32,638,737	\$ 30,162,004

* Includes Employer Supplemental Contribution receivable to be paid by the City of Minneapolis.

Plan Assets

Reconciliation of Plan Assets (*Dollars in Thousands*)

The following exhibits show the revenue, expenses and resulting assets of the Fund as reported by the Public Employees Retirement Association for the prior two fiscal years.

Change in Assets Year Ending	Market Value	
	June 30, 2025	June 30, 2024
1. Fund balance at market value at beginning of year	\$ 30,162,004	\$ 27,500,777
2. Contributions		
a. Member	\$ 558,735	\$ 521,198
b. Employer*	\$ 664,119	\$ 619,580
c. Other sources	\$ 16,000	\$ 186,093
d. Total contributions	\$ 1,238,854	\$ 1,326,871
3. Investment income		
a. Investment income/(loss)	\$ 3,380,304	\$ 3,431,678
b. Investment expenses	\$ (118,651)	\$ (112,900)
c. Net subtotal	\$ 3,261,653	\$ 3,318,778
4. Other	\$ 499	\$ (79)
5. Total income: (2.d.) + (3.c.) + (4.)	\$ 4,501,006	\$ 4,645,570
6. Benefits Paid		
a. Annuity benefits	\$ (1,933,807)	\$ (1,889,457)
b. Refunds	\$ (72,963)	\$ (74,307)
c. Total benefits paid	\$ (2,006,770)	\$ (1,963,764)
7. Expenses		
a. Other	\$ -	\$ -
b. Administrative	\$ (17,503)	\$ (20,579)
c. Total expenses	\$ (17,503)	\$ (20,579)
8. Total disbursements: (6.c.) + (7.c.)	\$ (2,024,273)	\$ (1,984,343)
9. Fund balance at market value at end of year	\$ 32,638,737	\$ 30,162,004
10. State Board of Investment calculated investment return [#]	11.0%	12.3%

* Includes Employer Supplemental Contribution receivable to be paid by the City of Minneapolis.

[#] Provided by PERA and calculated by the State Board of Investment.



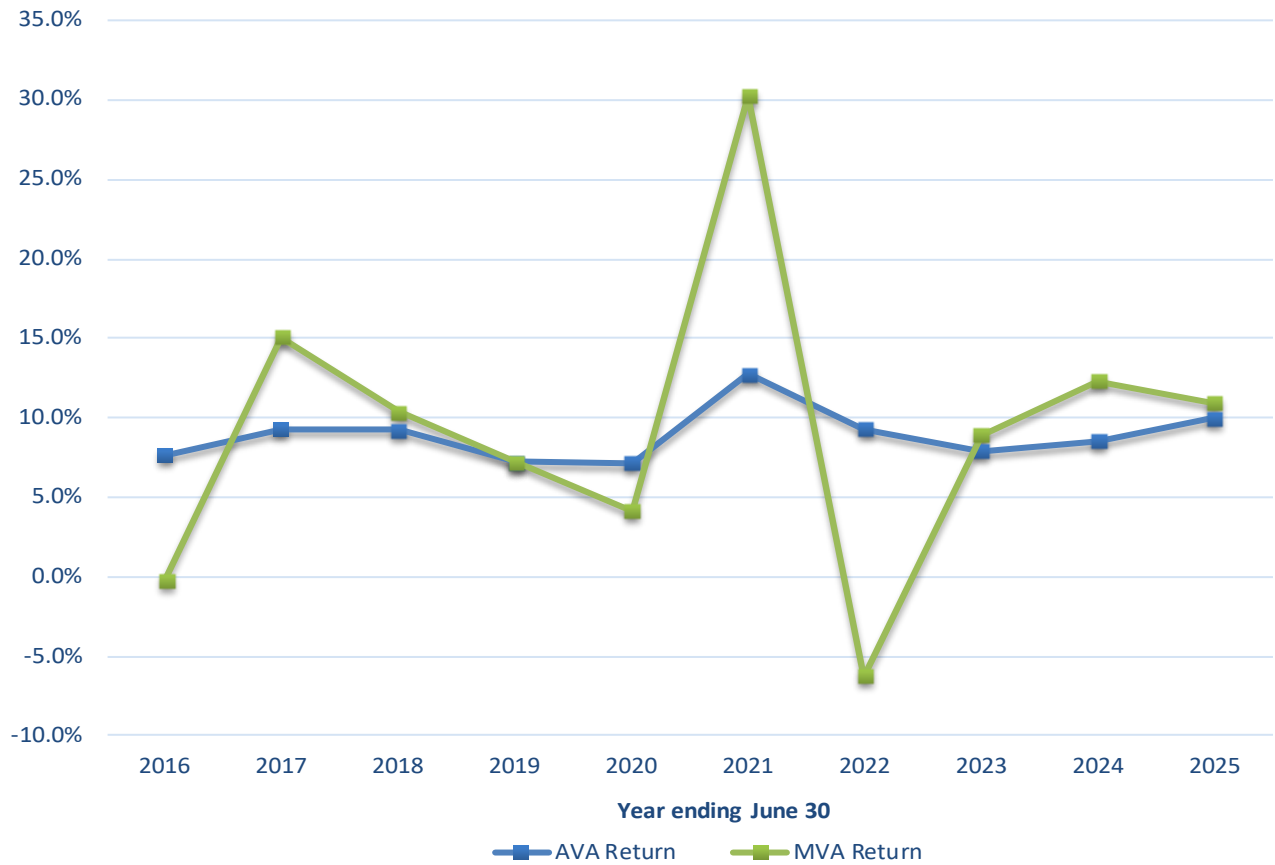
Plan Assets

Actuarial Asset Value *(Dollars in Thousands)*

		<u>June 30, 2025</u>	<u>June 30, 2024</u>
1. Market value of assets available for benefits		\$ 32,638,737	\$ 30,162,004
2. Determination of average balance			
a. Total assets available at beginning of year		\$ 30,162,004	\$ 27,500,777
b. Total assets available at end of year		\$ 32,638,737	\$ 30,162,004
c. Net investment income for fiscal year		\$ 3,261,653	\$ 3,318,778
d. Average balance $[a. + b. - c.] / 2$		\$ 29,769,544	\$ 27,172,002
3. Expected return $[7.0\% \times 2.d.]$		\$ 2,083,868	\$ 1,902,040
4. Actual return		\$ 3,261,653	\$ 3,318,778
5. Current year asset gain/(loss) $[4. - 3.]$		\$ 1,177,785	\$ 1,416,738
6. Unrecognized asset returns			
	Original Amount	Unrecognized Amount	
a. Year ended June 30, 2025	\$ 1,177,785	\$ 942,228	N/A
b. Year ended June 30, 2024	\$ 1,416,738	\$ 850,043	\$ 1,133,390
c. Year ended June 30, 2023	\$ 350,223	\$ 140,089	\$ 210,134
d. Year ended June 30, 2022	\$ (3,863,099)	\$ (772,620)	\$ (1,545,240)
e. Year ended June 30, 2021	\$ 5,043,720	N/A	\$ 1,008,744
f. Unrecognized return adjustment		\$ 1,159,740	\$ 807,028
7. Actuarial value at end of year $(1. - 6.f.)$		\$ 31,478,997	\$ 29,354,976
8. Approximate return on actuarial value of assets during fiscal year		10.0%	8.5%
9. Ratio of actuarial value of assets to market value of assets		0.96	0.97

Plan Assets

10-Year History of AVA and MVA Asset Returns



Membership Data

Distribution of Active Members[^]

Age	Years of Service as of June 30, 2025										Total
	<3*	3 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35+		
< 25	11,713	674	43								12,430
Avg. Earnings	\$ 20,286	\$ 33,499	\$ 47,650								\$ 21,097
25 - 29	10,190	2,667	1,456	20							14,333
Avg. Earnings	\$ 34,215	\$ 48,967	\$ 52,287	\$ 55,550							\$ 38,825
30 - 34	8,263	2,819	4,294	762	1						16,139
Avg. Earnings	\$ 38,241	\$ 54,716	\$ 62,805	\$ 67,543	\$ 65,263						\$ 49,039
35 - 39	8,686	2,745	5,085	2,902	515	10					19,943
Avg. Earnings	\$ 36,173	\$ 55,015	\$ 65,345	\$ 75,799	\$ 74,442	\$ 63,053					\$ 52,973
40 - 44	7,279	2,742	5,099	3,426	1,909	548	12				21,015
Avg. Earnings	\$ 36,020	\$ 51,170	\$ 61,633	\$ 77,632	\$ 85,172	\$ 80,279	\$ 93,089				\$ 56,647
45 - 49	5,539	2,148	4,548	3,104	1,950	1,674	555	4			19,522
Avg. Earnings	\$ 35,967	\$ 50,028	\$ 57,997	\$ 70,848	\$ 82,659	\$ 91,951	\$ 87,775	\$ 97,463			\$ 59,142
50 - 54	4,123	1,610	3,605	2,879	1,987	1,699	1,614	346	10		17,873
Avg. Earnings	\$ 36,279	\$ 49,136	\$ 55,440	\$ 61,567	\$ 72,207	\$ 86,592	\$ 93,964	\$ 88,049	\$ 70,866	\$	\$ 60,383
55 - 59	3,469	1,343	3,107	2,739	2,449	2,077	1,916	1,282	402		18,784
Avg. Earnings	\$ 34,973	\$ 48,075	\$ 53,720	\$ 57,296	\$ 62,138	\$ 72,631	\$ 86,370	\$ 91,669	\$ 87,491	\$	\$ 60,207
60 - 64	2,940	1,171	2,635	2,147	2,168	2,215	1,934	1,258	1,007		17,475
Avg. Earnings	\$ 27,989	\$ 40,891	\$ 48,475	\$ 54,043	\$ 55,498	\$ 60,625	\$ 69,446	\$ 82,480	\$ 88,575	\$	\$ 54,695
65 - 69	1,941	672	1,318	917	734	751	687	430	411		7,861
Avg. Earnings	\$ 18,993	\$ 29,182	\$ 39,596	\$ 48,345	\$ 49,949	\$ 55,772	\$ 61,021	\$ 70,713	\$ 85,248	\$	\$ 43,113
70+	1,533	483	775	450	243	176	163	103	126		4,052
Avg. Earnings	\$ 13,753	\$ 18,424	\$ 23,148	\$ 28,186	\$ 36,257	\$ 40,335	\$ 45,538	\$ 52,849	\$ 69,278	\$	\$ 24,213
Total	65,676	19,074	31,965	19,346	11,956	9,150	6,881	3,423	1,956		169,427
Avg. Earnings	\$ 31,807	\$ 48,562	\$ 57,025	\$ 65,422	\$ 68,888	\$ 74,294	\$ 80,021	\$ 84,132	\$ 86,320	\$	\$ 50,845

[^] As of June 30, 2025, there are no remaining Basic active members and one remaining MERF active member. See page 30 for MERF active member statistics.

* This exhibit does not reflect service earned in other PERA funds or service earned in a Combined Service Annuity arrangement. It should not be relied upon as an indicator of non-vested status.

In each cell, the top number is the count of active participants for the age/service combination and the bottom number is average valuation earnings for the fiscal year ending on the valuation date.



Membership Data

Distribution of Service Retirements (Total)

Age	Years Retired as of June 30, 2025														
	<1	1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25+	Total		
<50															
Avg. Benefit															
50 - 54															
Avg. Benefit															
55 - 59		302		783		12								1,097	
Avg. Benefit	\$	10,228	\$	11,181	\$	9,271								\$ 10,898	
60 - 64		1,400		4,012		1,846		35		1				7,294	
Avg. Benefit	\$	16,796	\$	16,754	\$	15,057	\$	12,716	\$	14,524				\$ 16,313	
65 - 69		2,906		12,743		6,994		2,270		70		11		24,994	
Avg. Benefit	\$	15,657	\$	15,673	\$	17,848	\$	15,543	\$	22,607	\$	41,782	\$	16,299	
70 - 74		423		5,554		13,892		7,531		2,263		175		10	29,848
Avg. Benefit	\$	14,545	\$	14,545	\$	16,266	\$	17,241	\$	14,729	\$	34,164	\$	37,650	\$ 16,163
75 - 79		95		908		4,014		10,384		5,292		2,288		155	23,136
Avg. Benefit	\$	9,044	\$	11,107	\$	14,551	\$	15,701	\$	16,384	\$	16,216	\$	46,233	\$ 15,705
80 - 84		20		222		565		2,448		4,792		3,489		1,693	13,229
Avg. Benefit	\$	4,935	\$	8,614	\$	10,966	\$	12,638	\$	13,835	\$	15,570	\$	17,004	\$ 14,253
85 - 89		4		47		186		440		956		2,762		3,066	7,461
Avg. Benefit	\$	2,505	\$	6,800	\$	6,319	\$	10,093	\$	11,036	\$	12,165	\$	17,865	\$ 14,056
90+		2		9		39		133		200		445		3,474	4,302
Avg. Benefit	\$	1,755	\$	20,569	\$	6,879	\$	7,526	\$	7,000	\$	9,344	\$	18,409	\$ 16,497
Total		5,152		24,278		27,548		23,241		13,574		9,170		8,398	111,361
Avg. Benefit	\$	15,378	\$	15,198	\$	16,144	\$	15,704	\$	14,725	\$	14,790	\$	18,464	\$ 15,701

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Service Retirements (Basic)

Age	Years Retired as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
<50								
Avg. Benefit								
50 - 54								
Avg. Benefit								
55 - 59								
Avg. Benefit								
60 - 64								
Avg. Benefit								
65 - 69								
Avg. Benefit								
70 - 74							1	1
Avg. Benefit							\$ 28,914	\$ 28,914
75 - 79	1		1	6	13	74	12	107
Avg. Benefit	\$ 81,521		\$ 61,564	\$ 18,082	\$ 29,606	\$ 47,120	\$ 30,205	\$ 41,923
80 - 84			2	12	42	140	209	405
Avg. Benefit			\$ 94,250	\$ 30,267	\$ 37,292	\$ 45,056	\$ 50,128	\$ 46,673
85 - 89				2	9	62	432	505
Avg. Benefit				\$ 81,735	\$ 19,738	\$ 34,045	\$ 51,783	\$ 49,153
90+		1		1	3	14	572	591
Avg. Benefit		\$ 60,531		\$ 122,096	\$ 28,654	\$ 36,838	\$ 43,005	\$ 42,950
Total	1	1	3	21	67	290	1,226	1,609
Avg. Benefit	\$ 81,521	\$ 60,531	\$ 83,355	\$ 36,060	\$ 33,056	\$ 42,832	\$ 47,176	\$ 45,757

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Service Retirements (Coordinated)

	Years Retired as of June 30, 2025														
Age	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25+		Total
<50															
Avg. Benefit															
50 - 54															
Avg. Benefit															
55 - 59	302		783		12										1,097
Avg. Benefit	\$	10,228	\$	11,181	\$	9,271									\$ 10,898
60 - 64	1,400		4,012		1,846		35		1						7,294
Avg. Benefit	\$	16,796	\$	16,754	\$	15,057	\$	12,716	\$	14,524					\$ 16,313
65 - 69	2,906		12,740		6,986		2,260		47						24,939
Avg. Benefit	\$	15,657	\$	15,670	\$	17,813	\$	15,392	\$	12,175					\$ 16,237
70 - 74	423		5,549		13,867		7,487		2,160		57		1		29,544
Avg. Benefit	\$	14,545	\$	14,513	\$	16,242	\$	17,082	\$	13,346	\$	11,957	\$	17,917	\$ 15,886
75 - 79	94		907		4,004		10,311		5,155		2,033		18		22,522
Avg. Benefit	\$	8,273	\$	11,112	\$	14,492	\$	15,605	\$	15,858	\$	12,238	\$	17,133	\$ 14,951
80 - 84	20		221		561		2,425		4,698		3,224		1,363		12,512
Avg. Benefit	\$	4,935	\$	8,284	\$	10,508	\$	12,439	\$	13,424	\$	13,440	\$	8,420	\$ 12,457
85 - 89	4		47		184		432		938		2,644		2,509		6,758
Avg. Benefit	\$	2,505	\$	6,800	\$	5,847	\$	9,184	\$	10,876	\$	11,306	\$	10,762	\$ 10,724
90+	2		8		39		132		193		422		2,739		3,535
Avg. Benefit	\$	1,755	\$	15,574	\$	6,879	\$	6,658	\$	6,340	\$	8,096	\$	12,025	\$ 10,991
Total	5,151		24,267		27,499		23,082		13,192		8,380		6,630		108,201
Avg. Benefit	\$	15,365	\$	15,185	\$	16,104	\$	15,555	\$	14,073	\$	12,196	\$	10,821	\$ 14,871

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Service Retirements (MERF)

Age	Years Retired as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
<50								
Avg. Benefit								
50 - 54								
Avg. Benefit								
55 - 59								
Avg. Benefit								
60 - 64								
Avg. Benefit								
65 - 69		3	8	10	23	11		55
Avg. Benefit	\$	28,348	\$ 48,262	\$ 49,713	\$ 43,925	\$ 41,782		\$ 44,330
70 - 74		5	25	44	103	118	8	303
Avg. Benefit	\$	50,251	\$ 29,697	\$ 44,282	\$ 43,744	\$ 44,891	\$ 41,209	\$ 43,150
75 - 79		1	9	67	124	181	125	507
Avg. Benefit	\$	6,779	\$ 35,237	\$ 30,261	\$ 36,854	\$ 48,265	\$ 51,962	\$ 43,693
80 - 84		1	2	11	52	125	121	312
Avg. Benefit	\$	81,606	\$ 55,951	\$ 37,292	\$ 32,015	\$ 37,495	\$ 56,494	\$ 44,202
85 - 89			2	6	9	56	125	198
Avg. Benefit			\$ 49,714	\$ 51,647	\$ 19,062	\$ 28,467	\$ 43,218	\$ 38,269
90+					4	9	163	176
Avg. Benefit					\$ 22,589	\$ 25,120	\$ 39,373	\$ 38,263
Total		10	46	138	315	500	542	1,551
Avg. Benefit	\$	42,469	\$ 36,021	\$ 37,632	\$ 38,135	\$ 42,000	\$ 47,013	\$ 42,404

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Survivors (Total)

Age	Years Since Death as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
<45	17	80	59	26	14	4	8	208
Avg. Benefit	\$ 7,747	\$ 6,090	\$ 6,193	\$ 4,251	\$ 5,495	\$ 6,783	\$ 5,130	\$ 5,961
45 - 49	9	30	29	16	3	3	4	94
Avg. Benefit	\$ 5,885	\$ 6,030	\$ 8,612	\$ 7,506	\$ 4,625	\$ 1,762	\$ 25,087	\$ 7,694
50 - 54	16	67	31	21	14	4	10	163
Avg. Benefit	\$ 7,085	\$ 11,049	\$ 9,445	\$ 9,033	\$ 6,535	\$ 4,330	\$ 12,521	\$ 9,633
55 - 59	28	88	75	39	23	10	13	276
Avg. Benefit	\$ 10,986	\$ 11,807	\$ 8,987	\$ 7,259	\$ 5,532	\$ 10,465	\$ 8,968	\$ 9,610
60 - 64	68	237	144	70	26	8	23	576
Avg. Benefit	\$ 13,199	\$ 14,014	\$ 11,652	\$ 8,331	\$ 8,465	\$ 5,602	\$ 13,996	\$ 12,269
65 - 69	106	378	281	170	65	32	32	1,064
Avg. Benefit	\$ 15,341	\$ 14,418	\$ 14,341	\$ 11,944	\$ 9,601	\$ 9,988	\$ 14,748	\$ 13,677
70 - 74	156	539	430	240	140	64	71	1,640
Avg. Benefit	\$ 15,621	\$ 13,391	\$ 13,802	\$ 12,360	\$ 13,996	\$ 13,768	\$ 20,731	\$ 13,944
75 - 79	167	584	452	302	172	102	82	1,861
Avg. Benefit	\$ 15,276	\$ 14,336	\$ 14,414	\$ 14,434	\$ 13,155	\$ 14,854	\$ 21,842	\$ 14,705
80 - 84	114	453	388	254	164	91	140	1,604
Avg. Benefit	\$ 14,590	\$ 14,665	\$ 15,577	\$ 14,173	\$ 14,234	\$ 14,047	\$ 20,174	\$ 15,204
85 - 89	73	311	321	232	113	103	180	1,333
Avg. Benefit	\$ 15,327	\$ 16,189	\$ 16,086	\$ 16,726	\$ 18,405	\$ 16,135	\$ 26,079	\$ 17,730
90+	47	207	231	212	144	124	284	1,249
Avg. Benefit	\$ 12,068	\$ 18,232	\$ 22,010	\$ 20,713	\$ 18,210	\$ 19,281	\$ 26,086	\$ 21,007
Total	801	2,974	2,441	1,582	878	545	847	10,068
Avg. Benefit	\$ 14,315	\$ 14,210	\$ 14,761	\$ 14,231	\$ 14,137	\$ 15,130	\$ 22,865	\$ 15,127

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Survivors (Basic)

Age	Years Since Death as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
<45			1					1
Avg. Benefit			\$ 1,087					\$ 1,087
45 - 49								
Avg. Benefit								
50 - 54				1			2	3
Avg. Benefit				\$ 57,617			\$ 31,065	\$ 39,916
55 - 59	1		1				2	4
Avg. Benefit	\$ 17,521		\$ 19,172				\$ 14,438	\$ 16,392
60 - 64		1	2	1		1	2	7
Avg. Benefit		\$ 61,381	\$ 13,003	\$ 33,176		\$ 2,637	\$ 23,348	\$ 24,271
65 - 69		1	3			2	3	9
Avg. Benefit		\$ 19,679	\$ 40,373			\$ 9,060	\$ 23,265	\$ 25,413
70 - 74		2	4	4	4	3	10	27
Avg. Benefit		\$ 20,647	\$ 33,861	\$ 16,486	\$ 10,757	\$ 12,128	\$ 33,185	\$ 24,220
75 - 79	6	22	20	17	6	10	15	96
Avg. Benefit	\$ 42,829	\$ 29,178	\$ 24,222	\$ 27,195	\$ 18,549	\$ 32,812	\$ 33,130	\$ 28,979
80 - 84	10	42	47	29	21	15	39	203
Avg. Benefit	\$ 38,858	\$ 26,927	\$ 34,918	\$ 29,027	\$ 28,555	\$ 33,972	\$ 31,167	\$ 31,168
85 - 89	9	66	54	45	32	17	58	281
Avg. Benefit	\$ 18,523	\$ 25,786	\$ 34,732	\$ 29,143	\$ 37,170	\$ 41,694	\$ 40,684	\$ 33,144
90+	4	57	63	74	47	47	107	399
Avg. Benefit	\$ 23,399	\$ 30,081	\$ 36,461	\$ 36,486	\$ 31,308	\$ 32,019	\$ 35,710	\$ 34,091
Total	30	191	195	171	110	95	238	1,030
Avg. Benefit	\$ 30,779	\$ 27,810	\$ 33,851	\$ 32,001	\$ 31,044	\$ 32,721	\$ 35,430	\$ 32,295

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Survivors (Coordinated)

Age	Years Since Death as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
<45	17	80	58	26	14	4	8	207
Avg. Benefit	\$ 7,747	\$ 6,090	\$ 6,281	\$ 4,251	\$ 5,495	\$ 6,783	\$ 5,130	\$ 5,985
45 - 49	9	30	27	16	3	3	4	92
Avg. Benefit	\$ 5,885	\$ 6,030	\$ 7,261	\$ 7,506	\$ 4,625	\$ 1,762	\$ 25,087	\$ 7,277
50 - 54	16	67	31	20	14	4	8	160
Avg. Benefit	\$ 7,085	\$ 11,049	\$ 9,445	\$ 6,604	\$ 6,535	\$ 4,330	\$ 7,885	\$ 9,065
55 - 59	27	88	74	37	23	10	11	270
Avg. Benefit	\$ 10,744	\$ 11,807	\$ 8,849	\$ 6,035	\$ 5,532	\$ 10,465	\$ 7,973	\$ 9,359
60 - 64	66	236	141	69	25	7	20	564
Avg. Benefit	\$ 12,747	\$ 13,813	\$ 11,419	\$ 7,971	\$ 7,337	\$ 6,026	\$ 12,025	\$ 11,928
65 - 69	104	370	271	166	65	28	25	1,029
Avg. Benefit	\$ 14,836	\$ 14,079	\$ 13,733	\$ 11,418	\$ 9,601	\$ 7,830	\$ 8,452	\$ 13,045
70 - 74	150	526	414	230	132	57	46	1,555
Avg. Benefit	\$ 14,284	\$ 12,868	\$ 13,318	\$ 11,695	\$ 12,971	\$ 13,139	\$ 13,262	\$ 12,981
75 - 79	151	533	406	269	165	82	51	1,657
Avg. Benefit	\$ 12,477	\$ 12,586	\$ 12,645	\$ 11,985	\$ 12,799	\$ 10,134	\$ 13,775	\$ 12,430
80 - 84	100	379	319	215	142	76	77	1,308
Avg. Benefit	\$ 10,276	\$ 10,930	\$ 11,097	\$ 11,082	\$ 12,084	\$ 10,114	\$ 10,904	\$ 11,022
85 - 89	56	228	243	172	81	82	88	950
Avg. Benefit	\$ 10,213	\$ 11,049	\$ 9,527	\$ 11,004	\$ 10,991	\$ 9,794	\$ 10,085	\$ 10,400
90+	41	137	150	127	97	76	122	750
Avg. Benefit	\$ 10,395	\$ 10,567	\$ 11,764	\$ 10,287	\$ 11,864	\$ 11,515	\$ 11,525	\$ 11,169
Total	737	2,674	2,134	1,347	761	429	460	8,542
Avg. Benefit	\$ 12,245	\$ 12,155	\$ 11,765	\$ 10,785	\$ 11,430	\$ 10,356	\$ 11,282	\$ 11,647

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Survivors (MERF)

Age	Years Since Death as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
<45								
Avg. Benefit								
45 - 49			2					2
Avg. Benefit			\$ 26,845					\$ 26,845
50 - 54								
Avg. Benefit								
55 - 59				2				2
Avg. Benefit				\$ 29,904				\$ 29,904
60 - 64	2		1		1		1	5
Avg. Benefit	\$ 28,143		\$ 41,895		\$ 36,667		\$ 34,700	\$ 33,909
65 - 69	2	7	7	4		2	4	26
Avg. Benefit	\$ 41,593	\$ 31,601	\$ 26,750	\$ 33,766		\$ 41,128	\$ 47,708	\$ 34,607
70 - 74	6	11	12	6	4	4	15	58
Avg. Benefit	\$ 49,031	\$ 37,096	\$ 23,802	\$ 35,078	\$ 51,088	\$ 23,950	\$ 35,335	\$ 34,974
75 - 79	10	29	26	16	1	10	16	108
Avg. Benefit	\$ 41,010	\$ 35,237	\$ 34,487	\$ 42,051	\$ 39,486	\$ 35,597	\$ 36,971	\$ 36,930
80 - 84	4	32	22	10	1		24	93
Avg. Benefit	\$ 61,774	\$ 42,818	\$ 39,211	\$ 37,564	\$ 18,940		\$ 32,051	\$ 39,180
85 - 89	8	17	24	15		4	34	102
Avg. Benefit	\$ 47,531	\$ 47,858	\$ 40,546	\$ 45,086		\$ 37,511	\$ 42,559	\$ 43,532
90+	2	13	18	11		1	55	100
Avg. Benefit	\$ 23,703	\$ 47,052	\$ 56,812	\$ 34,983		\$ 10,757	\$ 39,665	\$ 42,588
Total	34	109	112	64	7	21	149	496
Avg. Benefit	\$ 44,662	\$ 40,794	\$ 38,603	\$ 39,295	\$ 42,778	\$ 33,087	\$ 38,556	\$ 39,401

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Disability Retirements (Total)

Age	Years Disabled* as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
< 45		7	1					8
Avg. Benefit		\$ 7,010	\$ 10,366					\$ 7,430
45 - 49	3	8	8	7	3			29
Avg. Benefit	\$ 12,856	\$ 14,536	\$ 9,951	\$ 8,505	\$ 3,171			\$ 10,466
50 - 54	8	24	17	17	1	3		70
Avg. Benefit	\$ 20,781	\$ 12,573	\$ 12,858	\$ 11,025	\$ 13,555	\$ 3,724		\$ 12,839
55 - 59	18	54	53	24	15	9		173
Avg. Benefit	\$ 22,028	\$ 16,753	\$ 13,124	\$ 9,918	\$ 7,926	\$ 4,320		\$ 13,830
60 - 64	22	158	141	75	52	24	12	484
Avg. Benefit	\$ 22,590	\$ 20,843	\$ 17,225	\$ 12,584	\$ 10,045	\$ 7,637	\$ 7,057	\$ 16,432
65 - 69	134	291	52	34	21	10	9	551
Avg. Benefit	\$ 14,078	\$ 16,898	\$ 15,324	\$ 13,286	\$ 9,844	\$ 6,565	\$ 5,267	\$ 15,194
70 - 74		137	540	9	4			690
Avg. Benefit		\$ 14,004	\$ 15,809	\$ 20,921	\$ 10,231			\$ 15,485
75+			106	508	273	124	84	1,095
Avg. Benefit			\$ 11,587	\$ 14,472	\$ 14,937	\$ 17,590	\$ 25,401	\$ 15,500
Total	185	679	918	674	369	170	105	3,100
Avg. Benefit	\$ 16,134	\$ 16,938	\$ 15,245	\$ 13,977	\$ 13,522	\$ 14,589	\$ 21,579	\$ 15,367

* Based on effective date as provided by PERA; "Years Disabled" may reflect years since age 65 for members over age 65.

In each cell, the top number is the count of disabled participants for the age/years disabled combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Disability Retirements (Basic)

Age	Years Disabled* as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
< 45								
Avg. Benefit								
45 - 49								
Avg. Benefit								
50 - 54								
Avg. Benefit								
55 - 59								
Avg. Benefit								
60 - 64								
Avg. Benefit								
65 - 69								
Avg. Benefit								
70 - 74								
Avg. Benefit								
75+				3	10	8	9	30
Avg. Benefit				\$ 48,179	\$ 48,151	\$ 50,612	\$ 41,150	\$ 46,710
Total				3	10	8	9	30
Avg. Benefit				\$ 48,179	\$ 48,151	\$ 50,612	\$ 41,150	\$ 46,710

* Based on effective date as provided by PERA; "Years Disabled" may reflect years since age 65 for members over age 65.

In each cell, the top number is the count of disabled participants for the age/years disabled combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Disability Retirements (Coordinated)

Age	Years Disabled* as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
< 45		7	1					8
Avg. Benefit		\$ 7,010	\$ 10,366					\$ 7,430
45 - 49	3	8	8	7	3			29
Avg. Benefit	\$ 12,856	\$ 14,536	\$ 9,951	\$ 8,505	\$ 3,171			\$ 10,466
50 - 54	8	24	17	17	1	3		70
Avg. Benefit	\$ 20,781	\$ 12,573	\$ 12,858	\$ 11,025	\$ 13,555	\$ 3,724		\$ 12,839
55 - 59	18	54	53	24	15	9		173
Avg. Benefit	\$ 22,028	\$ 16,753	\$ 13,124	\$ 9,918	\$ 7,926	\$ 4,320		\$ 13,830
60 - 64	22	158	141	75	52	24	12	484
Avg. Benefit	\$ 22,590	\$ 20,843	\$ 17,225	\$ 12,584	\$ 10,045	\$ 7,637	\$ 7,057	\$ 16,432
65 - 69	134	291	52	34	21	10	9	551
Avg. Benefit	\$ 14,078	\$ 16,898	\$ 15,324	\$ 13,286	\$ 9,844	\$ 6,565	\$ 5,267	\$ 15,194
70 - 74		137	539	4	4			684
Avg. Benefit		\$ 14,004	\$ 15,830	\$ 10,882	\$ 10,231			\$ 15,402
75+			106	505	263	114	40	1,028
Avg. Benefit			\$ 11,587	\$ 14,272	\$ 13,674	\$ 14,877	\$ 14,617	\$ 13,923
Total	185	679	917	666	359	160	61	3,027
Avg. Benefit	\$ 16,134	\$ 16,938	\$ 15,256	\$ 13,711	\$ 12,558	\$ 12,469	\$ 11,750	\$ 14,809

* Based on effective date as provided by PERA; "Years Disabled" may reflect years since age 65 for members over age 65.

In each cell, the top number is the count of disabled participants for the age/years disabled combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Distribution of Disability Retirements (MERF)

Age	Years Disabled* as of June 30, 2025							Total
	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	
< 45								
Avg. Benefit								
45 - 49								
Avg. Benefit								
50 - 54								
Avg. Benefit								
55 - 59								
Avg. Benefit								
60 - 64								
Avg. Benefit								
65 - 69								
Avg. Benefit								
70 - 74			1	5				6
Avg. Benefit			\$ 4,463	\$ 28,952				\$ 24,870
75+						2	35	37
Avg. Benefit						\$ 40,154	\$ 33,676	\$ 34,026
Total			1	5		2	35	43
Avg. Benefit			\$ 4,463	\$ 28,952		\$ 40,154	\$ 33,676	\$ 32,748

* Based on effective date as provided by PERA; "Years Disabled" may reflect years since age 65 for members over age 65.

In each cell, the top number is the count of disabled participants for the age/years disabled combination and the bottom number is the average annual benefit amount as of the valuation date.



Membership Data

Reconciliation of Members

	Actives	Terminated		Recipients			Total
		Deferred Retirement	Other Non-Vested	Service Retirement	Disability Retirement	Survivor	
GERP Members on July 1, 2024	164,224	71,542	89,853	108,878	3,195	9,807	447,499
New members	22,573	0	0	0	0	0	22,573
Return to active	2,941	(1,171)	(1,770)	0	0	0	0
Terminated non-vested	(8,214)	0	8,214	0	0	0	0
Service retirements	(2,616)	(2,951)	0	5,567	0	0	0
Terminated deferred	(6,080)	6,080	0	0	0	0	0
Terminated refund/transfer	(3,122)	(1,406)	(10,018)	0	0	0	(14,546)
Deaths	(226)	(246)	(602)	(3,105)	(186)	(599)	(4,964)
New beneficiary	0	0	0	0	0	887	887
Disabled	(54)	0	0	0	54	0	0
Data adjustments	1	1,065	2,104	21	37	(27)	3,201
Net change	5,203	1,371	(2,072)	2,483	(95)	261	7,151
GERP Members on June 30, 2025	169,427	72,913	87,781	111,361	3,100	10,068	454,650

Summary of Membership

Active Member Statistics	Basic Members	Coordinated Members	MERF Members	Total
Number	-	169,426	1	169,427
Average age	N/A	44.9	67.8	44.9
Average service	N/A	8.3	48.5	8.3
Average salary	N/A	\$ 50,845	\$ 60,667	\$ 50,845

Deferred Retirement Terminated Member Statistics	Basic Members	Coordinated Members	MERF Members	Total
Number	7	72,903	3	72,913
Average age	73.6	50.8	70.7	50.8
Average service	3.1	6.6	5.6	6.6
Average annual benefit, with augmentation to				
December 31, 2018 and 19% CSA load	\$ 9,050	\$ 5,872	\$ 19,872	\$ 5,872
Average refund value, with 19% CSA load	\$ 50	\$ 15,104	\$ 34,007	\$ 15,103



Membership Data

Summary of Membership

Service Retiree Member Statistics	Basic Members	Coordinated Members	MERF Members	Total
Number	1,609	108,201	1,551	111,361
Average age	87.7	73.9	79.9	74.2
Average annual benefit	\$ 45,757	\$ 14,871	\$ 42,404	\$ 15,701

Disabled Retiree Member Statistics	Basic Members	Coordinated Members	MERF Members	Total
Number	30	3,027	43	3,100
Average age	86.4	70.6	79.3	70.9
Average annual benefit	\$ 46,710	\$ 14,809	\$ 32,748	\$ 15,367

Survivor Member Statistics	Basic Members	Coordinated Members	MERF Members	Total
Number	1,030	8,542	496	10,068
Average age	87.0	74.8	82.1	76.4
Average annual benefit	\$ 32,295	\$ 11,647	\$ 39,401	\$ 15,127

Development of Costs

Actuarial Valuation Balance Sheet (*Dollars in Thousands*)

The actuarial balance sheet is based on the principle that the long-term projected benefit obligations of the plan should be ideally equal to the long-term resources available to fund those obligations. A Projected Benefit Funding Ratio less than 100% indicates that contributions are insufficient. The resources available to meet projected obligations for current members consist of current fund assets plus the present value of anticipated future contributions intended to fund benefits for current members. In the exhibit below, B.2 is the estimated present value of contributions to fund the normal cost rate for current members until their respective termination dates. Per the LCPR Standards for Actuarial Work, Item B.1 is the present value of the total 14.41% (includes an annual \$21 million and \$16 million Employer (MERF) and State contribution, respectively) statutory contribution net of normal cost and anticipated plan expenses during the period from the valuation date to the statutory amortization date. Item D. Current Benefit Obligation, is the liability based on current service and projected compensation (the Entry Age Normal cost method is used to determine liabilities and contributions elsewhere in the report).

The contributions made in excess of amounts required for current benefit payments are accumulated as a reserve to help meet benefit payments in later years. It is this reserve system which permits the establishment of a level rate of contribution each year.

	June 30, 2025		
A. Actuarial Value of Assets	\$ 31,478,997		
B. Expected Future Assets			
1. Present value of expected future statutory supplemental contributions	\$ 7,441,055		
2. Present value of future normal cost contributions	\$ 6,089,734		
3. Total expected future assets: (1.) + (2.)	\$ 13,530,789		
C. Total Current and Expected Future Assets (A. + B.3)	\$ 45,009,786		
D. Current Benefit Obligations*			
1. Benefit recipients	Non-Vested	Vested	Total
a. Service retirements	\$ -	\$ 18,513,363	\$ 18,513,363
b. Disability retirements	\$ -	\$ 482,764	\$ 482,764
c. Survivors	\$ -	\$ 1,223,589	\$ 1,223,589
2. Deferred retirements with augmentation	\$ -	\$ 2,735,217	\$ 2,735,217
3. Former members without vested rights	\$ 50,997	\$ -	\$ 50,997
4. Active members	\$ 245,006	\$ 10,836,739	\$ 11,081,745
5. Total Current Benefit Obligations	\$ 296,003	\$ 33,791,672	\$ 34,087,675
E. Expected Future Benefit Obligations	\$ 7,954,705		
F. Total Current and Expected Future Benefit Obligations**	\$ 42,042,380		
G. Unfunded Current Benefit Obligations: (D.5.) - (A.)	\$ 2,608,678		
H. Unfunded Current and Future Benefit Obligations: (F.) - (C.)	\$ (2,967,406)		
I. Accrued Benefit Funding Ratio: (A.)/(D.)	92.35%		
J. Projected Benefit Funding Ratio: (C.)/(F.)	107.06%		

* Present value of credited projected benefits (projected compensation, current service).

** Present value of projected benefits (projected compensation, projected service).



Development of Costs

Determination of Unfunded Actuarial Accrued Liability (*Dollars in Thousands*)

	Actuarial Present Value of Projected Benefits	Actuarial Present Value of Future Normal Costs	Actuarial Accrued Liability
A. Determination of Actuarial Accrued Liability (AAL)			
1. Active members			
a. Retirement annuities	\$ 17,093,273	\$ 4,308,445	\$ 12,784,828
b. Disability benefits	\$ 309,722	\$ 122,008	\$ 187,714
c. Survivor's benefits	\$ 198,639	\$ 64,142	\$ 134,497
d. Deferred retirements	\$ 1,373,385	\$ 1,347,838	\$ 25,547
e. Refunds*	<u>\$ 61,431</u>	<u>\$ 247,301</u>	<u>\$ (185,870)</u>
f. Total	\$ 19,036,450	\$ 6,089,734	\$ 12,946,716
2. Deferred retirements with future augmentation	\$ 2,735,217	\$ -	\$ 2,735,217
3. Former members without vested rights	\$ 50,997	\$ -	\$ 50,997
4. Annuitants	<u>\$ 20,219,716</u>	<u>\$ -</u>	<u>\$ 20,219,716</u>
5. Total	\$ 42,042,380	\$ 6,089,734	\$ 35,952,646
B. Determination of Unfunded Actuarial Accrued Liability (UAAL)			
1. Actuarial accrued liability			\$ 35,952,646
2. Current assets (AVA)			<u>\$ 31,478,997</u>
3. Unfunded actuarial accrued liability			\$ 4,473,649

* Includes non-vested refunds and non-married survivor benefits only.



Development of Costs

Changes in Unfunded Actuarial Accrued Liability (UAAL) (Dollars in Thousands)

	Year Ending June 30, 2025		
	Actuarial Accrued Liability	Current Assets	Unfunded Actuarial Accrued Liability
A. Values at beginning of year	\$ 33,858,933	\$ 29,354,976	\$ 4,503,957
B. Changes due to interest requirements and current rate of funding			
1. Normal cost, including expenses	\$ 724,046	\$ (17,503)	\$ 741,549
2. Benefit payments	\$ (2,006,770)	\$ (2,006,770)	\$ -
3. Contributions	\$ -	\$ 1,238,854	\$ (1,238,854)
4. Interest on A., B.1., B.2., and B.3.	\$ 2,321,489	\$ 2,025,068	\$ 296,421
5. Total (B.1. + B.2. + B.3. + B.4.)	\$ 1,038,765	\$ 1,239,649	\$ (200,884)
C. Expected values at end of year (A. + B.5.)	\$ 34,897,698	\$ 30,594,625	\$ 4,303,073
D. Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected			
1. Age and service retirements			\$ 38,602
2. Disability retirements			\$ (359)
3. Death-in-service benefits			\$ (1,985)
4. Withdrawals			\$ (28,773)
5. Salary increases			\$ 135,663
6. Investment income			\$ (884,372)
7. Mortality of annuitants			\$ (1,045)
8. January 1, 2025 COLA (gain)/loss*			\$ -
9. Other items			\$ 13,917
10.Total			\$ (728,352)
E. Unfunded actuarial accrued liability at end of year before plan amendments and changes in actuarial assumptions (C. + D.9.)			\$ 3,574,721
F. Change in unfunded actuarial accrued liability due to changes in plan provisions			\$ 792,467
G. Change in unfunded actuarial accrued liability due to changes in actuarial assumptions			\$ 106,461
H. Change in unfunded actuarial accrued liability due to changes in methodology			\$ -
I. Unfunded actuarial accrued liability at end of year (E. + F. + G. + H.)**			\$ 4,473,649

* January 1, 2025 benefits increased 1.25% and were expected to increase 1.25%.

** The unfunded actuarial accrued liability on a market value of assets basis is \$3,313,909.



Development of Costs

Determination of Supplemental Contribution Rate (*Dollars in Thousands*)

Source of Unfunded Liability	Unfunded Actuarial Accrued Liability				Remaining Period 6/30/2025	Contribution (% of Payroll)
	Date Established	Initial Amount	Initial Period	Current Amount		
Initial unfunded actuarial accrued liability	6/30/2024	\$ 4,503,957	24 yrs.	\$ 4,518,590	23 yrs.	3.32%
Experience (Gain)/Loss	6/30/2025	156,020	15 yrs.	156,020	15 yrs.	0.15%
Asset (Gain)/Loss	6/30/2025	(884,372)	15 yrs.	(884,372)	15 yrs.	(0.87)%
Assumption or Method Change	6/30/2025	106,461	20 yrs.	106,461	20 yrs.	0.09%
Benefit Changes - Active	6/30/2025	323,090	15 yrs.	323,090	15 yrs.	0.32%
Benefit Changes - Inactive, Long Term	6/30/2025	469,377	15 yrs.	469,377	15 yrs.	0.46%
Benefit Changes - Inactive, Short Term	6/30/2025	-	1 yr.	-	1 yr.	0.00%
Contribution (Sufficiency)/Deficiency	6/30/2025	(215,517)	15 yrs.	(215,517)	15 yrs.	(0.21)%
Total				\$ 4,473,649		3.26%

The amortization of the Unfunded Actuarial Accrued Liability (UAAL) using the current amortization method results in initial payments less than the "interest only" payment on the UAAL. Payments less than the interest only amount will result in the UAAL increasing for an initial period of time and is often referred to as "negative amortization".

Development of Costs

Determination of Contribution Sufficiency/(Deficiency) – Total (*Dollars in Thousands*)

The required contribution is defined in Minnesota statutes as the sum of normal cost, a supplemental contribution to amortize the UAAL, and an allowance for expenses. The dollar amounts shown are for illustration purposes and equal percent-of-payroll multiplied by projected annual payroll. The exhibit below is a compilation of the results for Coordinated and MERF members, presented on subsequent pages.

	Percent-of- Payroll	Dollar Amount
A. Statutory Contributions - Chapter 353		
1. Employee contributions	6.50%	\$ 587,473
2. Employer contributions	7.50%	\$ 677,852
3. Employer supplemental contributions	0.23%	\$ 21,000
4. State contributions	0.18%	\$ 16,000
5. Total	14.41%	\$ 1,302,325
B. Required Contributions - Chapter 356		
1. Normal cost		
a. Retirement benefits	6.45%	\$ 582,951
b. Disability benefits	0.16%	\$ 14,463
c. Survivors	0.09%	\$ 8,134
d. Deferred retirement benefits	1.68%	\$ 151,840
e. Refunds*	0.35%	\$ 31,634
f. Total	8.73%	\$ 789,022
2. Supplemental Contribution Amortization of Unfunded Actuarial Accrued Liability	3.26%	\$ 294,639
3. Allowance for Expenses	0.21%	\$ 18,980
4. Total	12.20% **	\$ 1,102,641
C. Contribution Sufficiency/(Deficiency) (A.5. - B.4.)	2.21 %	\$ 199,684

* Includes non-vested refunds and non-married survivor benefits only.

** The required contribution on a market value of assets basis is 11.06% of payroll.

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$9,038,014 (determined by increasing reported pay for each member by one full year's assumed pay increase according to the actuarial salary scale, as prescribed by the LCPR Standards for Actuarial Work).



Development of Costs

Determination of Normal Cost – Coordinated[^] (*Dollars in Thousands*)

This exhibit compares statutory contributions to normal cost for the group of Coordinated Plan active members.

	Percent-of-Payroll	Dollar Amount
A. Statutory contributions - Chapter 353		
1. Employee contributions	6.50%	\$ 587,467
2. Employer contributions	7.50%	\$ 677,846
3. Total	14.00%	\$ 1,265,313
B. Required contributions - Chapter 356		
1. Normal cost		
a. Retirement benefits	6.45%	\$ 582,948
b. Disability benefits	0.16%	\$ 14,461
c. Survivors	0.09%	\$ 8,134
d. Deferred retirement benefits	1.68%	\$ 151,838
e. Refunds*	0.35%	\$ 31,633
f. Total	8.73%	\$ 789,014

[^]As of the June 30, 2025 valuation, there are no remaining Basic members.

* Includes non-vested refunds and non-married survivor benefits only.

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$9,037,952.



Development of Costs

Determination of Normal Cost – MERF (*Dollars in Thousands*)

This exhibit compares statutory contributions to normal cost for the MERF Plan active members.

	Percent-of-Payroll	Dollar Amount
A. Statutory contributions - Chapter 353		
1. Employee contributions	9.75%	\$ 6
2. Employer contributions	9.75%	\$ 6
3. Employer supplemental contributions	33870.97%	\$ 21,000
4. State contributions	25806.45%	\$ 16,000
5. Total	59696.92%	\$ 37,012
B. Required contributions - Chapter 356		
1. Normal cost		
a. Retirement benefits	4.83%	\$ 3
b. Disability benefits	3.23%	\$ 2
c. Survivors	0.00%	\$ -
d. Deferred retirement benefits	3.23%	\$ 2
e. Refunds*	1.61%	\$ 1
f. Total	12.90%	\$ 8

* Includes non-vested refunds and non-married survivor benefits only.

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$62.



Actuarial Basis

Actuarial Methods

All actuarial methods are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement, or the Board of Trustees. Different methodologies may also be reasonable and results based on other methodologies would be different.

Actuarial Cost Method

Actuarial Accrued Liability and required contributions in this report are computed using the Entry Age Normal Cost Method. This method is prescribed by Minnesota Statute. Under this method, a normal cost is developed by amortizing the actuarial value of benefits expected to be received by each active participant (as a level percentage-of-pay) over the total working lifetime of that participant, from hire to termination. Age as of the valuation date was calculated based on the dates of birth provided by the Fund. Entry age for valuation purposes was calculated as the age on the valuation date minus the provided years of service on the valuation date.

To the extent that current assets and future normal costs do not support participants' expected future benefits, an Unfunded Actuarial Accrued Liability ("UAAL") develops. The UAAL is amortized over the statutory amortization period using level percent-of-payroll. The total contribution developed under this method is the sum of normal cost, expenses, and the payment toward the UAAL.

Valuation of Future Post-Retirement Benefit Increases

Benefit increases after retirement will equal 100% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50%. Stochastic modeling was used to determine the assumption that benefit increases will equal 1.50% per year. This is only an assumption; actual increases will depend on actual experience.

Funding Objective

The fundamental financing objective of the Fund is to establish contribution rates which, when expressed as a percentage of active member payroll, will remain approximately level from generation to generation and meet the required deadline for full funding.

Actuarial Basis

Actuarial Methods (Continued)

Asset Valuation Method

The assets are valued based on a five-year moving average of expected and market values (five-year average actuarial value) and determined as follows:

- At the end of each plan year, an average asset value is calculated as the average of the market asset value at the beginning and end of the fiscal year net of investment income for the fiscal year;
- The investment gain or (loss) is taken as the excess of actual investment income over the expected investment income based on the average asset value as calculated above;
- The investment gain or (loss) so determined is recognized over five years at 20% per year; and
- The asset value is the sum of the market asset value plus the scheduled recognition of investment gains or (losses) during the current and the preceding four fiscal years.

Payment on the Unfunded Actuarial Accrued Liability

Payments on the Unfunded Actuarial Accrued Liability (UAAL) are determined by source as a level percentage of payroll each year assuming payroll increases of 3.00% per annum, and amortized according to the following closed statutory amortization periods, beginning in the valuation year in which they arise:

Source of UAAL	Closed Period
Legacy UAAL as of July 1, 2024	Period ending June 30, 2048
Experience gain or loss	15 years
Assumption or method changes	20 years
Active member benefit changes	15 years
Long-term inactive member benefit changes	15 years
Short-term inactive member benefit changes	Period during which benefit change is in effect
Statutory Contributions (per Chapter 353) that are more or less than the Total Required Contribution (per Chapter 356)	15 years

As required by the Standards for Actuarial Work, projected payroll is 1) determined by increasing reported payroll for each member by one full year's assumed pay increase according to the actuarial salary scale and 2) multiplied by 0.964 in the determination of the present value of future payroll to account for timing differences. This statutory method produces a required contribution that is similar to, but slightly below, the contribution that would be produced by more common actuarial methods.

PERA may consider synchronizing or accelerating bases with fewer than three years remaining in order to minimize potential volatility.



Actuarial Basis

Actuarial Methods (Concluded)

Changes in Methods Since Prior Valuation

Layered amortization was implemented, effective with the July 1, 2025 valuation, with the amortization periods as defined on the prior page.

Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated

The following assumptions were used in valuing the liabilities and benefits under the plan. All actuarial assumptions are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement (LCPR), or the Board of Trustees. These parties are responsible for selecting the assumptions used for this valuation. Unless noted otherwise, the assumptions prescribed are based on the latest adopted experience study dated June 29, 2023. The Allowance for Combined Service Annuity assumptions are based on an analysis completed by the LCPR actuary and documented in a report dated February 2025.

Investment return	7.00% per annum (prescribed by Minnesota Statutes).
Benefit increases after retirement	1.50% per annum.
Salary increases	Reported salary at valuation date increased according to the rate table, to current fiscal year and annually for each future year. Prior fiscal year salary is annualized for members with less than one year of service earned during the year.
Inflation	2.25% per year.
Payroll growth	3.00% per year.
Mortality rates	
Healthy pre-retirement	Pub-2010 General Employee Mortality Table adjusted for mortality improvements using projection scale MP-2021. Female rates are multiplied by a factor of 0.94.
Healthy post-retirement	Pub-2010 General Healthy Retiree Mortality Table adjusted for mortality improvements using projection scale MP-2021. Male rates are multiplied by a factor of 1.09.
Disabled retirees	Pub-2010 General/Teacher Disabled Retiree Mortality Table, adjusted for mortality improvements using projection scale MP-2021. Rates are multiplied by a factor of 1.12 for males and 1.23 for females.
Notes	The Pub-2010 Employee Mortality Table as published by the Society of Actuaries (SOA) contains mortality rates for ages 18 to 80 and the annuitant mortality table contains mortality rates for ages 50 to 120. We have extended the annuitant mortality table as needed for members and beneficiaries younger than age 50 who are receiving a benefit by deriving rates based on the employee table and the juvenile table. Similarly, we have extended the employee table as needed for members older than age 80 by deriving rates based on the annuitant table.
Retirement	Members retiring from active status are assumed to retire according to the age-related rates shown in the tables. Members who have attained the highest assumed retirement age are assumed to retire in one year.



Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated (Continued)

Withdrawal	Service-related rates based on experience; see table of sample rates.
Disability	Age-related rates based on experience; see table of sample rates.
Allowance for combined service annuity	Liabilities for former members are increased by 19% for vested members and 44% for non-vested members to account for the effect of some participants having eligibility for a Combined Service Annuity.
Administrative expenses	Prior year administrative expenses expressed as a percentage of prior year projected payroll.
Refund of contributions	For non-vested members, account balances accumulate interest until the assumed commencement date and are discounted back to the valuation date. Active members decrementing after becoming eligible for a deferred benefit are assumed to take the contributions accumulated with interest if larger than the value of the benefit.
Commencement of deferred benefits	Members receiving deferred annuities (including current terminated deferred members) are assumed to begin receiving benefits at Normal Retirement.
Percentage married	80% of male and 70% of female active members are assumed to be married. Actual marital status is used for members in payment status.
Age of spouse	Males are assumed to have a beneficiary three years younger, while females are assumed to have a beneficiary one year older. For members in payment status, actual spouse date of birth is used, if provided.
Eligible children	Retiring members are assumed to have no dependent children.
Form of payment	Married members retiring from active status are assumed to elect the subsidized joint and survivor form of annuity as follows: Males: 5% elect 25% Joint & Survivor option 10% elect 50% Joint & Survivor option 10% elect 75% Joint & Survivor option 60% elect 100% Joint & Survivor option Females: 10% elect 25% Joint & Survivor option 10% elect 50% Joint & Survivor option 5% elect 75% Joint & Survivor option 40% elect 100% Joint & Survivor option Remaining married members and unmarried members are assumed to elect the Straight Life option. Members receiving deferred annuities (including current terminated deferred members) are assumed to elect a straight life annuity.
Eligibility testing	Eligibility for benefits is determined based upon the age nearest birthday and service on the date the decrement is assumed to occur.
Decrement operation	Withdrawal decrements do not operate during retirement eligibility. Decrement are assumed to occur mid-fiscal year.
Service credit accruals	It is assumed that members accrue one year of service credit per year.



Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated (Continued)

Benefit service	Exact fractional service is used to determine the amount of benefit payable.
Pay increases	Pay increases are assumed to happen at the beginning of the fiscal year. This is equivalent to assuming that reported earnings are pensionable earnings for the year ending on the valuation date.
Final average salary	For present value of future benefit purposes, final average salary was calculated in accordance with pay increase assumptions, but was not permitted to fall below the average salary reported in the data.
Unknown data for certain members	To prepare this report, GRS has used and relied on participant data supplied by the Fund. Although GRS has reviewed the data in accordance with Actuarial Standards of Practice No. 23, GRS has not verified or audited any of the data or information provided. In cases where submitted data was missing or incomplete, the following assumptions, based on average results for applicable members at the time of the last experience study, were applied: <u>Data for active members:</u> There were 9,492 members reported with a salary less than \$100 after annualization. We used prior year salary (6,025 members), if available; otherwise high five salary with a 10% load to account for salary increases (2,304 members). If neither prior year salary nor high five salary was available, we assumed a value of \$39,500 (1,163 members). There were also 6,755 members reported without a gender. We assumed female gender. There were 488 members reported without a date of birth. We assumed these members were hired at age 37. <u>Data for terminated members:</u> We calculated benefits for these members using the reported Average Salary and credited service. If credited service was not reported (179 members), we used elapsed time from hire date to termination date (127 members); if elapsed time was not available, we assumed seven years of service. If termination date was invalid or not reported (177 members), we assumed the termination date was equal to the hire date plus credited service, otherwise the valuation date. If Average Salary was not reported (102 members), we assumed a value of \$36,000. If the reported termination date occurs prior to the reported hire date, the two dates were swapped. There were 4,333 members reported without a gender; female was assumed. There were 2,348 members reported without a date of birth, we assume the member was age 48 at the valuation date.

Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated (Continued)

Unknown data for certain members (Concluded)	<u>Data for retired members:</u> There were 290 members reported without a gender. We assumed retirees are female and beneficiaries are male. There were no members reported with an invalid date of birth. Because PERA reclassifies disabled members as retirees once the member reaches Normal Retirement Age, we compare the members that PERA reports as retirees to our disabled group from the last valuation. If a member was disabled in the prior valuation, we reclassify that member as a disabled retiree in this year's valuation. We reclassified 2,154 retirees as disabled retirees in this valuation.
Changes in actuarial assumptions since the prior valuation	The combined service annuity loading factors were changed from 15% to 19% for Vested Terminated members and from 3% to 44% for Non-Vested Terminated members. The post-retirement benefit increase assumption changed from 1.25% to 1.50%.

Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated (Continued)

Age in 2025	Percentage of Members Dying Each Year*					
	Healthy Post- Retirement Mortality**		Healthy Pre- Retirement Mortality**		Disability Mortality**	
	Male	Female	Male	Female	Male	Female
20	0.04%	0.01%	0.04%	0.01%	0.47%	0.31%
25	0.04	0.01	0.03	0.01	0.37	0.25
30	0.06	0.02	0.05	0.02	0.56	0.44
35	0.08	0.03	0.07	0.03	0.79	0.70
40	0.10	0.04	0.09	0.04	1.00	0.94
45	0.13	0.06	0.11	0.05	1.25	1.18
50	0.31	0.20	0.14	0.07	1.70	1.64
55	0.44	0.28	0.21	0.11	2.22	2.06
60	0.67	0.39	0.32	0.18	2.82	2.44
65	0.99	0.58	0.46	0.26	3.38	2.61
70	1.52	0.92	0.64	0.40	3.99	3.03
75	2.54	1.61	0.96	0.65	5.07	4.22
80	4.55	2.99	1.51	1.11	7.20	6.58
85	8.42	5.73	6.50	4.63	10.90	10.61
90	14.77	10.83	13.55	10.18	16.81	15.85

* Generally, mortality rates are expected to increase as age increases (with the exception of young ages, where expected mortality may decrease as age increases). In cases where the application of the projection scale would reverse the nature of this trend, standard mortality rates have been adjusted slightly. This adjustment has no material effect on results.

** Rates are adjusted for mortality improvements using Scale MP-2021, from a base year of 2010.

Age	Rates of Disability Retirement	
	Male	Female
20	0.01%	0.01%
25	0.01	0.01
30	0.01	0.01
35	0.02	0.01
40	0.03	0.03
45	0.04	0.04
50	0.08	0.07
55	0.18	0.10
60	0.37	0.15
65	0.00	0.00
70	0.00	0.00



Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated (Continued)

Age	Rates of Service Retirement		
	Rule of 90 Eligible	Tier 1	Tier 2
55	20.0%	4.0%	4.0%
56	18.0%	5.0%	4.0%
57	16.0%	6.0%	4.0%
58	15.0%	7.0%	4.0%
59	15.0%	8.0%	5.0%
60	15.0%	8.0%	6.0%
61	16.0%	8.0%	8.0%
62	27.0%	16.0%	15.0%
63	23.0%	20.0%	15.0%
64	25.0%	20.0%	17.0%
65	45.0%	45.0%	30.0%
66	40.0%	40.0%	40.0%
67	30.0%	30.0%	30.0%
68	30.0%	30.0%	30.0%
69	30.0%	30.0%	30.0%
70	30.0%	30.0%	30.0%
71+	100.0%	100.0%	100.0%

Actuarial Basis

Summary of Actuarial Assumptions – Basic and Coordinated (Concluded)

Salary Scale		Year	Rates of Termination	
Year	Increase		Male	Female
1	11.50%	1	22.00%	23.50%
2	6.75	2	16.00	17.25
3	6.00	3	11.00	13.00
4	5.50	4	9.00	11.00
5	5.25	5	7.50	9.50
6	5.00	6	6.50	8.50
7	4.75	7	6.00	7.50
8	4.50	8	5.00	7.00
9	4.40	9	5.00	6.80
10	4.40	10	5.00	6.40
11	4.20	11	4.75	6.20
12	4.10	12	4.25	5.50
13	4.00	13	3.75	4.50
14	3.90	14	3.50	4.35
15	3.80	15	3.25	4.25
16	3.70	16	3.25	4.00
17	3.60	17	3.25	3.75
18	3.50	18	2.75	3.40
19	3.50	19	2.50	3.20
20	3.40	20	2.25	2.80
21	3.30	21	2.00	2.60
22	3.30	22	1.75	2.60
23	3.20	23	1.75	2.60
24	3.20	24	1.70	2.60
25	3.10	25	1.65	2.30
26	3.10	26	1.60	2.10
27	3.10	27	1.55	2.00
28	3.00	28	1.50	2.00
29	3.00	29	1.50	2.00
30+	3.00	30	1.50	2.00

Actuarial Basis

Summary of Actuarial Assumptions – MERF

The following assumptions were used in valuing the liabilities and benefits under the plan for MERF members only. Assumptions regarding investment return, mortality, benefit increases, and Combined Service Annuity (CSA) are the same as shown in the Basic and Coordinated Plan assumption summary.

Salary increases	Total reported pay for prior calendar year increased 1.86% (half year of 3.75%, compounded) to prior fiscal year and 3.75% annually for each future year.
Retirement	Active members are assumed to retire at age 61, or immediately if currently age 61 or older.
Withdrawal	Rates are shown in rate table.
Disability	Age-related rates based on experience; see table of sample rates.
Commencement of deferred benefits	Members receiving deferred annuities (including current terminated deferred members) are assumed to begin receiving benefits at age 60.
Percentage married	66.67% of active members are assumed to be married. Actual marital status is used for members in payment status.
Age of spouse	Females are assumed to be three years younger than their male spouses. For members in payment status, actual spouse date of birth is used, if provided.
Eligible children	Retiring members are assumed to have no dependent children.
Form of payment	Members are assumed to elect a life annuity.
Unknown data for certain members	To prepare this report, GRS has used and relied on participant data supplied by the Fund. Although GRS has reviewed the data in accordance with Actuarial Standards of Practice No. 23, GRS has not verified or audited any of the data or information provided. In cases where submitted data was missing or incomplete, the following assumptions were applied: <u>Data for active members:</u> There was one active member with missing salary and service. We used expected salary and service based on the prior valuation for this member. <u>Data for terminated members:</u> Benefits were provided by PERA for all members in 2022 and adjustments were made for retirements since 2022. <u>Data for retired members:</u> There was one member reported without a gender. We assumed male gender. Because PERA reclassifies disabled members as retirees once the member reaches Normal Retirement Age, we compare the members that PERA reports as retirees to our disabled group from the last valuation. If a member was disabled in the prior valuation, we reclassify that member as a disabled retiree in this year's valuation. We reclassified 43 retirees as disabled retirees in this valuation.

Actuarial Basis

Summary of Actuarial Assumptions – MERF (Concluded)

Age	Rates of Termination		Rates of Disability Retirement	
	Male	Female	Male	Female
20	21.00%	21.00%	0.21%	0.21%
25	11.00	11.00	0.21	0.21
30	5.00	5.00	0.23	0.23
35	1.50	1.50	0.30	0.30
40	1.00	1.00	0.41	0.41
45	1.00	1.00	0.61	0.61
50	1.00	1.00	0.93	0.93
55	1.00	1.00	1.60	1.60
60	1.00	1.00	0.00	0.00
65	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00

Actuarial Basis

Summary of Plan Provisions – Basic

Following is a summary of the major plan provisions used in the valuation of this report. PERA is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report. Many of the plan provisions described below are no longer relevant due to the age and/or service of remaining Basic active members.

Plan year	July 1 through June 30				
Eligibility	A public employee who is not covered under the Social Security Act. General exceptions are employees covered by other public funds, certain part-time employees and full-time students under age 23.				
Contributions	Shown as a percent of salary: <table> <tr> <td><u>Member</u></td><td>9.10% of salary</td></tr> <tr> <td><u>Employer</u></td><td>11.78% of salary</td></tr> </table> Member contributions are “picked up” according to the provisions of Internal Revenue Code 414(h).	<u>Member</u>	9.10% of salary	<u>Employer</u>	11.78% of salary
<u>Member</u>	9.10% of salary				
<u>Employer</u>	11.78% of salary				
Allowable service	Service during which member contributions were made. May also include certain leaves of absence and military service.				
Salary	Includes amounts deducted for deferred compensation or supplemental retirement plans, net income from fees and sick leave payments funded by the employer. Excludes unused annual leaves and sick leave payments, severance payments, Workers’ Compensation benefits and employer-paid flexible spending accounts and employer-paid deferred compensation deposits, cafeteria plans, healthcare expense accounts, day-care expenses, fringe benefits and the cost of insurance coverage.				
Average salary	Average of the five highest successive years of annual salary. Average salary is based on all Allowable Service if less than five years.				
Vesting	100% vested after 3 years of Allowable Service.				
Retirement					
<u>Normal retirement benefit</u>					
Age/service requirement	Age 65 and vested. Proportionate retirement annuity is available at age 65 and one year of Allowable Service.				
Amount	2.70% of Average Salary for each year of Allowable Service.				
<u>Early retirement benefit</u>					
Age/service requirement	(a.) Age 55 and vested. (b.) Any age with 30 years of Allowable Service. (c.) Rule of 90: Age plus Allowable Service totals 90.				



Actuarial Basis

Summary of Plan Provisions – Basic (Continued)

Retirement (Concluded)

Early retirement benefit

(Continued)

Amount

The greater of (a) and (b):

- (a.) 2.20% of Average Salary for each of the first ten years of Allowable Service and 2.70% of Average Salary for each subsequent year with reduction of 0.25% for each month if the Member is under age 65 at time of retirement and has less than 30 years of Allowable Service or if the Member is under age 62 and has 30 or more years of Allowable Service. No reduction if age plus years of Allowable Service totals 90.
- (b.) 2.70% of Average Salary for each year of Allowable Service, actuarially reduced for each month the Member is under age 65. Prior to July 1, 2024, the early retirement adjustment included either full or partial augmentation. This augmentation adjustment was completely phased out by July 1, 2024.

Form of payment

Life annuity with return on death of any balance of contributions over aggregate monthly payments. Actuarially equivalent options are:

25%, 50%, 75% or 100% Joint and Survivor. If a Joint and Survivor benefit is elected and the beneficiary predeceases the annuitant, the annuitant's benefit increases to the Life Annuity amount. This "bounce back" is subsidized by the plan.

Benefit increases

Benefit increases after retirement will equal 100% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50%.

A benefit recipient who has been receiving a benefit for at least 12 full months as of June 30 will receive a full increase. Members receiving benefits for at least one month but less than 12 full months as of June 30 will receive a pro rata increase. Members retired under laws in effect before July 1, 1973 receive an additional lump sum payment each year. In 1989, this lump sum payment is the greater of \$25 times each full year of Allowable Service or the difference between \$400 times each full year of Allowable Service and the sum of benefits paid from any Minnesota public pension plan plus cash payments from the Social Security Administration for the preceding fiscal year July 1, 1988 through June 30, 1989. In each following year, the lump sum payment will increase by the same percentage increase that is applied to regular annuities paid from the fund. Effective January 1, 2002, annual lump sum payment is divided by 12 and paid as a monthly life annuity in the annuity form elected.

Actuarial Basis

Summary of Plan Provisions – Basic (Continued)

Disability	
<u>Disability benefit</u>	
Age/service requirement	Total and permanent disability before normal retirement age if vested. Since all remaining active Basic members are over normal retirement age, none are eligible for disability benefits.
Amount	Normal Retirement benefit based on Allowable Service and Average Salary at disability without reduction for commencement before Normal Retirement Age. Supplemental benefit of \$25 per month payable to the later of the normal retirement age or the five-year anniversary of commencement of disability. If a member became disabled prior to July 1, 1997 but did not commence his or her benefit before July 1, 1997, the benefit payable is calculated under the laws in effect at the time the Member became disabled and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%. Payments stop earlier if disability ceases. If death occurs prior to age 65, or within five years of disability, the surviving spouse can receive a refund or a survivor benefit. Dependent children are entitled to dependent child benefits subject to the 70.00% family maximum. Payments revert to a retirement annuity at normal retirement age. Benefits may be reduced on resumption of partial employment.
Form of payment	Same as for retirement.
Benefit increases	Same as for retirement.
<u>Retirement after disability</u>	
Age/service requirement	Normal retirement age.
Amount	Any optional annuity continues. Otherwise, the larger of the disability benefit paid before normal retirement age or the normal retirement benefit available at normal retirement age, or an actuarially equivalent optional annuity.
Benefit increases	Same as for retirement.

Actuarial Basis

Summary of Plan Provisions – Basic (Continued)

Death

Surviving spouse benefit

Age/service
requirement

Active Member with 18 months of Allowable Service or while Member is receiving a disability benefit.

Amount

50.00% of salary averaged over last six months. Family benefit is maximum of 70.00% and minimum of 50.00% of average salary. Benefit paid until spouse's death but no payments while spouse is remarried prior to July 1, 1991.

If a member died prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefit as of July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.

Surviving spouse optional annuity may be elected in lieu of this benefit.

Benefit increases

Same as for retirement.

Surviving dependent children's benefit

Age/service
requirement

Active Member with 18 months of Allowable Service or while Member is receiving a disability benefit.

Amount

10.00% of salary averaged over last six months for each child. Family benefit minimum (including spouse's benefit) of 50.00% of salary and maximum of 70.00% of average salary. Benefits paid until child marries, dies, or attains age 18 (age 22 if full-time student).

If a member died prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefit before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.

Benefit increases

Same as for retirement.

Actuarial Basis

Summary of Plan Provisions – Basic (Continued)

Death (Concluded)

Surviving spouse optional annuity

Age/service requirement

Member or former Member who dies before retirement benefits commence and other survivor annuity is waived by spouse.

Amount

Survivor's payment of the 100% joint and survivor benefit the Member could have elected if terminated or an actuarial equivalent term certain annuity. If commencement is prior to age 65 (age 62 if 30 years of service), the benefit is reduced the same as early retirement with half the applicable reduction factor used from age 55 to the actual commencement age. If no surviving spouse, then an actuarial equivalent dependent child benefit is paid to age 23 or for five years if longer.

If a member died prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefit as of July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.

Benefit increases

Same as for retirement.

Refund of contributions with interest

Age/service requirement

Member dies before receiving any retirement benefits and survivor benefits are not payable.

Amount

The excess of the Member's contributions with 6.00% interest until June 30, 2011; 4.00% through June 30, 2018; 3.00% thereafter over any disability or survivor benefits paid.

Termination

Refund of contributions

Age/service requirement

Termination of public service.

Amount

Member's contributions with 6.00% interest through June 30, 2011. Beginning July 1, 2011, a member's contributions increase at 4.00% interest. Beginning July 1, 2018, a member's contributions increase at 3.00% interest. If a member is vested, a deferred annuity may be elected in lieu of a refund.

Deferred benefit

Age/service requirement

Fully vested.



Actuarial Basis

Summary of Plan Provisions – Basic (Continued)

Termination (Concluded)

Deferred benefit
(Concluded)
Amount

Benefit computed under law in effect at termination and increased by the following “augmentation” percentage compounded annually for terminations prior to 2012:

- (a.) 0.00% before July 1, 1971;
- (b.) 5.00% from July 1, 1971 to January 1, 1981;
- (c.) 3.00% thereafter until the earlier of January 1 of the year following attainment of age 55 and January 1, 2012;
- (d.) 5.00% thereafter until the earlier of the date the annuity begins and January 1, 2012;
- (e.) 1.00% from January 1, 2012 through December 31, 2018; and
- (f.) 0.00% from January 1, 2019, thereafter.

Members who terminate after 2011 will receive no future augmentation.

Members active with a public employer the day prior to the privatization of the employer become vested immediately.

Members who are privatized after June 30, 2020 will receive no future augmentation.

Members who are privatized before July 1, 2020 receive enhanced augmentation (unless the enhancement results in a net loss to the Plan). Amount is payable at normal or early retirement. Augmentation is compounded annually through benefit commencement, equal to:

Date of Privatization	Augmentation prior to July 1, 2020	July 1, 2020 through December 31, 2023	After December 31, 2023
Prior to January 1, 2007 (or January 1, 2008 for Hutchinson Area Health Care)	5.5% prior to age 55, 7.5% after	2.0%	0.0%
After December 31, 2006 (2007 for Hutchinson Area Health Care) and prior to January 1, 2011	4.0% prior to age 55, 6.0% after	2.0%	0.0%
After December 31, 2010 and prior to July 1, 2020	2.0%*	2.0%*	0.0%

* Reduced to 1% if 2% augmentation resulted in a net loss to the Plan.

If a member terminated employment prior to July 1, 1997, but was not eligible to commence their pension before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997 and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%

Benefit increases

Same as for retirement.



Actuarial Basis

Summary of Plan Provisions – Basic (Concluded)

Actuarial equivalent factors	Effective July 1, 2024, actuarially equivalent factors based on the Pub-2010 mortality table for healthy annuitants for a member turning age 62 in 2026, reflecting projected mortality improvements using Scale MP-2021, male rates multiplied by a factor of 1.09, blended 40% males, 5.68% post-retirement interest, and 7.00% pre-retirement interest. Reflecting statutory requirements, joint and survivor factors are based on an interest assumption of 6.50%.
Combined service annuity	Members are eligible for combined service benefits if they: (a.) Meet minimum retirement age for each plan participated in and total public service meets the vesting requirements of each plan; or (b.) Have three or more years of service under PERA and the covered fund(s) (if hired prior to July 1, 2010). Other requirements for combined service include: (a.) Member must have at least six months of allowable service credit in each plan worked under; and (b.) Member may not be in receipt of a benefit from another plan. Members who meet the above requirements must have their benefits based on the following: (a.) Allowable service in all covered plans is combined in order to determine eligibility for early retirement. (b.) Average salary is based on the high consecutive years during their entire service in all covered plans.
Changes in plan provisions	The post-retirement benefit increase was changed to 100% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50%. Previously, the benefit increase was 50% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.50%.

Actuarial Basis

Summary of Plan Provisions – Coordinated

Following is a summary of the major plan provisions used in the valuation of this report. PERA is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report.

Plan year	July 1 through June 30		
Eligibility	A public employee who is covered under the Social Security Act. General exceptions are employees covered by other public funds, certain part-time employees and full-time students under age 23. City managers and persons holding certain elective office positions may choose to become Members.		
Contributions	Shown as a percent of salary:		
<u>Effective date</u>	<u>Member</u>	<u>Employer</u>	<u>Additional Employer</u>
January 1, 2015	6.50%	6.50%	1.00%
	Additional Employer Contribution remains in effect until the plan is 98% funded on an actuarial value of assets basis (contribution is repealed the following March 31).		
	Member contributions are “picked up” according to the provisions of Internal Revenue Code 414(h).		
Allowable service	Service during which member contributions are deducted. May also include certain leaves of absence and military service.		
Salary	Includes amounts deducted for deferred compensation or supplemental retirement plans, net income from fees and sick leave payments funded by the employer. Excludes unused annual leave and sick leave payments, severance payments, Workers’ Compensation benefits and employer-paid flexible spending accounts and employer-paid deferred compensation deposits, cafeteria plans, healthcare expense accounts, day-care expenses, fringe benefits and the cost of insurance coverage.		
Average salary	Average of the five highest successive years of annual salary. Average salary is based on all Allowable Service if less than five years.		
Vesting	100% vested after three years of Allowable Service.		



Actuarial Basis

Summary of Plan Provisions – Coordinated (Continued)

Retirement

Normal retirement benefit

Age/service
requirement

First hired before July 1, 1989:

- (a.) Age 65 and vested.
- (b.) Proportionate Retirement Annuity is available at age 65 and one year of Allowable Service.

First hired after June 30, 1989:

- (a.) The greater of age 65 or the age eligible for full Social Security retirement benefits but no later than age 66 and vested.
- (b.) Proportionate Retirement Annuity is available at normal retirement age and one year of Allowable Service.

Amount

1.70% of Average Salary for each year of Allowable Service.

Early retirement benefit

Age/service
requirement

First hired before July 1, 1989:

- (a.) Age 55 and vested.
- (b.) Any age with 30 years of Allowable Service.
- (c.) Rule of 90: Age plus Allowable Service totals 90.

First hired after June 30, 1989:

- (a.) Age 55 and vested.

Amount

First hired before July 1, 1989:

The greater of (a) or (b):

- (a.) 1.20% of Average Salary for each of the first ten years of Allowable Service and 1.70% of Average Salary for each subsequent year with reduction of 0.25% for each month the Member is under age 65 at time of retirement or under age 62 if 30 years of Allowable Service. No reduction if age plus years of Allowable Service totals 90.
- (b.) 1.70% of Average Salary for each year of Allowable Service, actuarially reduced for each month the Member is under age 65.

First hired after June 30, 1989:

1.70% of Average Salary for each year of Allowable Service, actuarially reduced for each month the member is under the normal retirement age.

Prior to July 1, 2024, the early retirement adjustment included either full or partial augmentation. This augmentation adjustment was completely phased out by July 1, 2024.



Actuarial Basis

Summary of Plan Provisions – Coordinated (Continued)

Retirement (Concluded)	
<u>Form of payment</u>	Life annuity with return on death of any balance of contributions over aggregate monthly payments. Actuarially equivalent options are: 25%, 50%, 75% or 100% Joint and Survivor. If a Joint and Survivor benefit is elected and the beneficiary predeceases the annuitant, the annuitant's benefit increases to the Life Annuity amount. This "bounce back" is subsidized by the plan.
<u>Benefit increases</u>	Benefit increases after retirement will equal 100% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50% A benefit recipient who has been receiving a benefit for at least 12 full months as of June 30 will receive a full increase. Members receiving benefits for at least one month but less than 12 full months as of June 30 will receive a pro rata increase. Members retired under laws in effect before July 1, 1973 will receive an additional lump sum payment each year. In 1989, this lump sum payment is \$25 times each full year of Allowable Service. In each following year, the lump sum payment will increase by the same percentage increase that is applied to regular annuities paid from the fund.

Disability	
<u>Disability benefit</u>	
Age/service requirement	Total and permanent disability before normal retirement age if vested.
Amount	Normal Retirement benefit based on Allowable Service and Average Salary at disability without reduction for commencement before normal retirement age. If a Member became disabled prior to July 1, 1997 but did not commence his or her benefit before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%. Payments stop if disability ceases or death occurs. Payments change to a retirement annuity at normal retirement age. Benefits may be reduced on resumption of partial employment.

Actuarial Basis

Summary of Plan Provisions – Coordinated (Continued)

Disability (Concluded)	
<u>Disability benefit (Concluded)</u>	
Form of payment	Same as for retirement.
Benefit increases	Same as for retirement.
<u>Retirement after disability</u>	
Age/service requirement	Normal retirement age.
Amount	Any optional annuity continues. Otherwise, the larger of the disability benefit paid before normal retirement age or the normal retirement benefit available at normal retirement age, or an actuarially equivalent optional annuity.
Benefit increases	Same as for retirement.
Death	
<u>Surviving spouse optional annuity</u>	
Age/service requirement	Member or former Member who dies before retirement or disability benefits commence.
Amount	Survivor's payment of the 100% joint and survivor benefit the Member could have elected if terminated or an actuarial equivalent term certain annuity. If commencement is prior to age 65 (age 62 if 30 years of service), the benefit is reduced the same as early retirement with half the applicable reduction factor used from age 55 to the actual commencement age. If no surviving spouse, then an actuarial equivalent dependent child benefit is paid to age 23 or for five years if longer. If a member died prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefit before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Same as for retirement.
<u>Refund of contributions</u>	
Age/service requirement	Member dies before receiving any retirement benefits and survivor benefits are not payable.
Amount	The excess of the Member's contributions with 6.00% interest until June 30, 2011; 4.00% through June 30, 2018; 3.00% thereafter over any disability or survivor benefits paid.



Actuarial Basis

Summary of Plan Provisions – Coordinated (Continued)

Termination

Refund of contributions

Age/service requirement

Termination of public service.

Amount

Member's contributions with 6.00% interest through June 30, 2011. Beginning July 1, 2011, a member's contributions increase at 4.00% interest. Beginning July 1, 2018, a member's contributions increase at 3.00% interest. If a member is vested, a deferred annuity may be elected in lieu of a refund.

Deferred benefit

Age/service requirement

Fully vested.

Amount

Benefit computed under law in effect at termination and increased by the following percentage (augmentation) compounded annually for terminations prior to 2012:

- (a.) 0.00% before July 1, 1971;
- (b.) 5.00% from July 1, 1971 to January 1, 1981;
- (c.) 3.00% (2.50% if hired after June 30, 2006) thereafter until the earlier of January 1 of the year following attainment of age 55 and January 1, 2012;
- (d.) 5.00% (2.50% if hired after June 30, 2006) thereafter until the earlier of the date the annuity begins and January 1, 2012; or
- (e.) 1.00% from January 1, 2012 through December 31, 2018; and
- (f.) 0.00% from January 1, 2019, thereafter.

Members who terminate after 2011 will receive no future augmentation.

Members active with a public employer the day prior to the privatization of the employer become vested immediately.

Members who are privatized after June 30, 2020 will receive no future augmentation.

Members who are privatized before July 1, 2020 receive enhanced augmentation (unless the enhancement results in a net loss to the Plan). Amount is payable at normal or early retirement. Augmentation is compounded annually through benefit commencement, equal to:

Date of Privatization	Augmentation prior to July 1, 2020	July 1, 2020 through December 31, 2023	After December 31, 2023
Prior to January 1, 2007 (or January 1, 2008 for Hutchinson Area Health Care)	5.5% prior to age 55, 7.5% after	2.0%	0.0%
After December 31, 2006 (2007 for Hutchinson Area Health Care) and prior to January 1, 2011	4.0% prior to age 55, 6.0% after	2.0%	0.0%
After December 31, 2010 and prior to July 1, 2020	2.0%*	2.0%*	0.0%

* Reduced to 1% if 2% augmentation resulted in a net loss to the Plan.



Actuarial Basis

Summary of Plan Provisions – Coordinated (Concluded)

Termination (concluded)	
<u>Deferred benefit (Concluded)</u>	
Amount (Concluded)	If a member terminated employment prior to July 1, 1997 but was not eligible to commence their pension before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997 and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Form of payment	Same as for retirement.
Actuarial equivalent factors	Effective July 1, 2024, actuarially equivalent factors based on the Pub-2010 mortality table for healthy annuitants for a member turning age 62 in 2026, reflecting projected mortality improvements using Scale MP-2021, male rates multiplied by a factor of 1.09, blended 40% males, 5.68% post-retirement interest, and 7.00% pre-retirement interest. Reflecting statutory requirements, joint and survivor factors are based on an interest assumption of 6.50%.
Combined service annuity	Members are eligible for combined service benefits if they: (a.) Meet minimum retirement age for each plan participated in and total public service meets the vesting requirements of each plan; or (b.) Have three or more years of service under PERA and the covered fund(s) (if hired prior to July 1, 2010). Other requirements for combined service include: (a.) Member must have at least six months of allowable service credit in each plan worked under; and (b.) Member may not be in receipt of a benefit from another plan. Members who meet the above requirements must have their benefit based on the following: (a.) Allowable service in all covered plans is combined in order to determine eligibility for early retirement. (b.) Average salary is based on the high five consecutive years during their entire service in all covered plans.
Changes in plan provisions	The post-retirement benefit increase was changed to 100% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50%. Previously, the benefit increase was 50% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.50%. The 1% additional employer contribution is eliminated when the plan reaches 98% funded status (on an Actuarial Value of Assets basis); this contribution was previously scheduled to stop when the plan reached 100% funded status.



Actuarial Basis

Summary of Plan Provisions of Minneapolis Employees Retirement Fund (MERF)

Following is a summary of the major plan provisions used in the valuation of this report. PERA is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report.

Plan year	July 1 through June 30																				
Eligibility/employee rule	An employee of the City of Minneapolis, the Metropolitan Airports Commission, the Met Council/Environmental Services, the Municipal Employees Retirement Fund, and Special School District No. 1 if covered prior to July 1, 1978. Employees covered July 1, 1978 or later are covered by the Public Employees Retirement Association (PERA) Plan. Effective July 1, 1992, licensed peace officers and firefighters who are employed by the Metropolitan Airports Commission and covered by the Minneapolis Employees Retirement Fund will receive the greater of retirement, disability, or survivor benefits under: a) The Minneapolis Employees Retirement Fund; or b) The Public Employees Retirement Association (PERA) Police & Fire Plan.																				
Full consolidation	The MERF Division fully merged with PERA's General Employees Retirement Plan, effective January 1, 2015. Upon consolidation, state and employer contributions were revised as shown herein.																				
Contributions																					
Member	9.75% of salary																				
Employer	9.75% of salary (Employer Regular Contributions) Employer Regular and Additional Contributions will be paid as long as there are active members. Employer Supplemental Contributions equal \$21,000,000 per year through September 2031.																				
Contribution allocation	Employer Supplemental Contributions are allocated to the employers in proportion to their share of the actuarial accrued liability of MERF on July 1, 2009, as follows: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Employer</th><th>Allocation</th></tr> </thead> <tbody> <tr> <td>City of Minneapolis</td><td>54.78%</td></tr> <tr> <td>Minneapolis Park Board</td><td>10.33%</td></tr> <tr> <td>Met Council</td><td>1.74%</td></tr> <tr> <td>Metropolitan Airport Commission</td><td>5.76%</td></tr> <tr> <td>Municipal Building Commission</td><td>1.08%</td></tr> <tr> <td>Minneapolis School District No. 1</td><td>23.04%</td></tr> <tr> <td>Hennepin County</td><td>3.17%</td></tr> <tr> <td>MnSCU</td><td>0.10%</td></tr> <tr> <td>Total</td><td>100.00%</td></tr> </tbody> </table>	Employer	Allocation	City of Minneapolis	54.78%	Minneapolis Park Board	10.33%	Met Council	1.74%	Metropolitan Airport Commission	5.76%	Municipal Building Commission	1.08%	Minneapolis School District No. 1	23.04%	Hennepin County	3.17%	MnSCU	0.10%	Total	100.00%
Employer	Allocation																				
City of Minneapolis	54.78%																				
Minneapolis Park Board	10.33%																				
Met Council	1.74%																				
Metropolitan Airport Commission	5.76%																				
Municipal Building Commission	1.08%																				
Minneapolis School District No. 1	23.04%																				
Hennepin County	3.17%																				
MnSCU	0.10%																				
Total	100.00%																				



Actuarial Basis

Summary of Plan Provisions of Minneapolis Employees Retirement Fund (MERF) (Continued)

State contributions	The State's contributions equal \$16,000,000 and are payable by September 30 each year through September 15, 2031.
Allowable service	Service during which member contributions were made. Allowable Service may also include certain leaves of absence, military service and service prior to becoming a member. Allowable service also includes time on duty disability provided that the member returns to active service if the disability ceases.
Salary	All amounts of salary, wages or compensation.
Average salary	Average of the five highest calendar years of salary out of the last ten calendar years.
Retirement	
<u>Normal retirement benefit</u>	
Age/service requirement	Age 60 and 10 years of employment. Any age with 30 years of employment. Proportionate retirement annuity is available at age 65 and one-year allowable service.
Amount	2.00% of average salary for the first 10 years of allowable service plus 2.50% of average salary for each subsequent year of allowable service.



Actuarial Basis

Summary of Plan Provisions of Minneapolis Employees Retirement Fund (MERF) (Continued)

Disability	
<u>Disability benefit</u>	
Age/service requirement	Total and permanent disability before age 60 with five years of allowable service, or no allowable service if a work-related disability.
Amount	2.00% of average salary for the first 10 years of disability service plus 2.50% of average salary for each subsequent year of disability service. Disability service is the greater of (a) or (b) where: (a.) Equals allowable service plus service projected to age 60, subject to a maximum of 22 years; and (b.) Equals allowable service. Benefit is reduced by Workers' Compensation benefits. Payments stop at age 60 or earlier if disability ceases or death occurs. Benefits may be reduced on resumption of partial employment.
<u>Disability after separation</u>	
Age/service requirement	Total and permanent disability after electing to receive a retirement benefit but before age 60.
Amount	Actuarial equivalent of total credit to member's account.
<u>Retirement after disability</u>	
Age/service requirement	Total and permanent disability after electing to receive a retirement benefit but before age 60. Employee is still disabled after age 60.
Amount	Benefit continues according to the option selected.

Actuarial Basis

Summary of Plan Provisions of Minneapolis Employees Retirement Fund (MERF) (Continued)

Death

Pre-retirement survivor's

spouse benefit

Age/service requirement Active member with 18 months of allowable service.

Amount 30% of salary averaged over the last six months to the surviving spouse plus 10% of salary averaged over the last six months to each surviving child. Maximum benefit is \$900 per month.

Pre-retirement survivor's

spouse annuity

Age/service requirement Active member or former member who dies before retirement with 20 years of allowable service.

Amount Actuarial equivalent of a single life annuity which would have been paid as a retirement benefit on the date of death without regard to eligibility age for retirement benefit. If there is no surviving spouse, the designated beneficiary may be a dependent child or dependent parent.

Refund of accumulated city contributions

Age/service requirement Active member or former member dies after 10 years of allowable service and prior to retirement.

Amount Present value of the City's annual installments of \$60 or, in the case of a former member, the net accumulation of City deposits. This benefit is not payable if survivor's benefits are paid.

Lump sum

Age/service requirement Death prior to service or disability retirement without an eligible surviving beneficiary.

Amount \$750 with less than 10 years allowable service, or \$1,500 with 10 or more years of allowable service.

Refund of member contributions at death

Age/service requirement Active member or former member dies before retirement.

Amount The excess of the member's contributions (exclusive of the contributions to the survivor's account) plus interest to the date of death.



Actuarial Basis

Summary of Plan Provisions of Minneapolis Employees Retirement Fund (MERF) (Concluded)

Termination	
<u>Deferred benefit</u>	
Age/service requirement	Three years of allowable service.
Amount	Benefit computed under law in effect at termination and increased by the following percentage (augmentation), compounded annually: (a.) 0.00% prior to July 1, 1971; (b.) 5.00% from July 1, 1971 to January 1, 1981; and (c.) 3.00% thereafter until the annuity begins. Amount is payable at or after age 60.
<u>Refund of member contributions upon termination</u>	
Age/service requirement	Termination of public service.
Amount	Member's contributions with interest. A deferred annuity may be elected in lieu of a refund if vested.
Form of payment	▪ Life annuity. ▪ Life annuity with 3, 5, 10 or 15 years guaranteed. ▪ Life annuity with lump sum death benefit. ▪ Joint & Survivor (with or without bounce back feature).
Optional form conversion factors	1986 PET mortality table with a one-year setback, blended 50% male and 50% female, and 5% interest.
Two dollar bill and annuity	Optional Two Dollar Bill money purchase annuity available at age 55 with 20 years of service if member had service prior to June 28, 1973. According to PERA, this option is rarely utilized. We have assumed that remaining active members will not elect this optional benefit.
Benefit increases	Benefit recipients receive increases each year in January based upon 100% of the current Social Security increase, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50%.
Changes in plan provisions	The post-retirement benefit increase was changed to 100% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.75%, beginning January 1, 2026. If the funded ratio (on a market value of assets basis) is less than 85% for the prior two consecutive annual valuations, or is less than 80% in the most recent actuarial valuation, the maximum is reduced to 1.50%. Previously, the benefit increase was 50% of the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 1.50%.

Additional Schedules

Schedule of Funding Progress¹ (*Dollars in Thousands*)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded (Overfunded) AAL (UAAL) (b) - (a)	Funded Ratio (a)/(b)	Actual Covered Payroll (Previous FY) (c)	UAAL as a Percentage of Covered Payroll [(b)-(a)]/(c)
7-1-2000	\$ 9,609,367	\$ 11,133,682	\$ 1,524,315	86.31 %	\$ 3,437,954	44.34 %
7-1-2001	\$ 10,527,270	\$ 12,105,337	\$ 1,578,067	86.96	\$ 3,466,587	45.52
7-1-2002	\$ 11,017,414	\$ 12,958,105	\$ 1,940,691	85.02	\$ 3,809,864	50.94
7-1-2003	\$ 11,195,902	\$ 13,776,198	\$ 2,580,296	81.27	\$ 4,387,649	58.81
7-1-2004	\$ 11,477,961	\$ 14,959,465	\$ 3,481,504	76.73	\$ 3,968,034	87.74
7-1-2005	\$ 11,843,936	\$ 15,892,555	\$ 4,048,619	74.53	\$ 4,096,138	98.84
7-1-2006	\$ 12,495,207	\$ 16,737,757	\$ 4,242,550	74.65	\$ 4,247,109	99.89
7-1-2007	\$ 12,985,324	\$ 17,705,627	\$ 4,720,303	73.34	\$ 4,448,954	106.10
7-1-2008	\$ 13,048,970	\$ 17,729,847	\$ 4,680,877	73.60	\$ 4,722,432	99.12
7-1-2009	\$ 13,158,490	\$ 18,799,416	\$ 5,640,926	69.99	\$ 4,778,708	118.04
7-1-2010	\$ 13,126,993	\$ 17,180,956	\$ 4,053,963	76.40	\$ 4,804,627	84.38
7-1-2011	\$ 13,455,753	\$ 17,898,849	\$ 4,443,096	75.18	\$ 5,079,429 ²	87.47
7-1-2012	\$ 13,661,682	\$ 18,598,897	\$ 4,937,215	73.45	\$ 5,142,592 ³	96.01
7-1-2013	\$ 14,113,295	\$ 19,379,769	\$ 5,266,474	72.82	\$ 5,246,928 ³	100.37
7-1-2014	\$ 15,644,540	\$ 21,282,504	\$ 5,637,964	73.51	\$ 5,351,920 ³	105.34
7-1-2015	\$ 17,974,439	\$ 23,560,951	\$ 5,586,512	76.29	\$ 5,549,255 ⁴	100.67
7-1-2016	\$ 18,765,863	\$ 24,848,409	\$ 6,082,546	75.52	\$ 5,773,708 ⁵	105.35
7-1-2017	\$ 19,916,322	\$ 25,615,722	\$ 5,699,400	77.75	\$ 6,156,985 ⁵	92.57
7-1-2018	\$ 21,129,746	\$ 27,101,067	\$ 5,971,321	77.97	\$ 6,298,815 ⁵	94.80
7-1-2019	\$ 21,979,022	\$ 27,969,744	\$ 5,990,722	78.58	\$ 6,523,754 ⁵	91.83
7-1-2020	\$ 22,792,333	\$ 28,626,916	\$ 5,834,583	79.62	\$ 6,698,754 ⁵	87.10
7-1-2021	\$ 24,909,060	\$ 29,215,560	\$ 4,306,500	85.26	\$ 6,761,354 ⁵	63.69
7-1-2022	\$ 26,397,045	\$ 30,189,649	\$ 3,792,604	87.44	\$ 7,042,154 ⁵	53.86
7-1-2023	\$ 27,665,822	\$ 33,092,665	\$ 5,426,843	83.60	\$ 7,493,954 ⁵	72.42
7-1-2024	\$ 29,354,976	\$ 33,858,933	\$ 4,503,957	86.70	\$ 8,018,431 ⁵	56.17
7-1-2025	\$ 31,478,997	\$ 35,952,646	\$ 4,473,649	87.56	\$ 8,595,923 ⁵	52.04

¹ Information prior to 2012 provided by prior actuaries. See prior reports for additional detail.

² Assumed equal to actual member contributions divided by 6.125%.

³ Assumed equal to actual member contributions divided by 6.250%.

⁴ Assumed equal to actual member contributions divided by 6.375%.

⁵ Assumed equal to actual member contributions divided by 6.500%.



Additional Schedules

Schedule of Contributions from the Employer and Other Contributing Entities¹ (Dollars in Thousands)

Plan Year Ended June 30	Actuarially Required Contribution Rate (a)	Actual Covered Payroll (b)	Actual Member Contributions (c)	Annual Required Contributions [(a)x(b)] - (c) = (d)	Actual Employer Contributions ² (e)	Percentage Contributed (e)/(d)
2000	9.22%	\$ 3,437,954	\$ 171,073	\$ 145,906	\$ 186,637	127.92%
2001	11.84	\$ 3,466,587	\$ 173,380	\$ 237,064	\$ 188,208	79.39
2002	11.85	\$ 3,809,864	\$ 191,422	\$ 260,047	\$ 206,982	79.59
2003	11.52	\$ 4,387,649	\$ 205,963	\$ 299,494	\$ 221,689	74.02
2004	12.25	\$ 3,968,034	\$ 215,697	\$ 270,387	\$ 225,745	83.49
2005	12.72	\$ 4,096,138	\$ 216,701	\$ 304,328	\$ 232,963	76.55
2006	13.26	\$ 4,247,109	\$ 235,901	\$ 327,266	\$ 255,531	78.08
2007	13.41	\$ 4,448,954	\$ 260,907	\$ 335,698	\$ 283,419	84.43
2008	13.86	\$ 4,722,432	\$ 280,007	\$ 374,522	\$ 303,304	80.98
2009	14.22	\$ 4,778,708	\$ 298,381	\$ 381,151	\$ 328,603	86.21
2010	15.55	\$ 4,804,627	\$ 303,571	\$ 443,548	\$ 342,678	77.26
2011	12.46	\$ 5,079,429	³ \$ 311,115	\$ 321,782	\$ 357,596	111.13
2012	13.47	\$ 5,142,592	⁴ \$ 321,412	\$ 371,295	\$ 368,037	99.12
2013	14.46	\$ 5,246,928	⁴ \$ 327,933	\$ 430,773	\$ 372,652	86.51
2014	15.15	\$ 5,351,920	⁴ \$ 334,495	\$ 476,321	\$ 382,251	80.25
2015	15.80	\$ 5,549,255	⁵ \$ 353,765	\$ 523,017	\$ 435,115	83.19
2016	15.89	\$ 5,773,708	⁶ \$ 375,291	\$ 542,151	\$ 465,978	85.95
2017	16.49	\$ 6,156,985	⁶ \$ 400,204	\$ 615,083	\$ 483,888	78.67
2018	16.18	\$ 6,298,815	⁶ \$ 409,423	\$ 609,725	\$ 504,819	82.79
2019	13.45	\$ 6,523,754	⁶ \$ 424,044	\$ 453,401	\$ 531,444	117.21
2020	13.30	\$ 6,698,754	⁶ \$ 435,419	\$ 455,515	\$ 525,821	115.43
2021	13.13	\$ 6,761,354	⁶ \$ 439,488	\$ 448,278	\$ 540,685	120.61
2022	11.73	\$ 7,042,154	⁶ \$ 457,740	\$ 368,305	\$ 562,291	152.67
2023	11.25	\$ 7,493,954	⁶ \$ 487,107	\$ 355,963	\$ 597,044	167.73
2024	13.19	\$ 8,018,431	⁶ \$ 521,198	\$ 536,433	\$ 805,673	150.19
2025	12.29	\$ 8,595,923	⁶ \$ 558,735	\$ 497,704	\$ 680,119	136.65
2026	12.20					

¹ Information prior to 2012 provided by prior actuary. See prior reports for additional detail.

² Includes contributions from other sources (if applicable).

³ Assumed equal to actual member contributions divided by 6.125%.

⁴ Assumed equal to actual member contributions divided by 6.25%.

⁵ Assumed equal to actual member contributions divided by 6.375%.

⁶ Assumed equal to actual member contributions divided by 6.500%.



Glossary of Terms

Actual Covered Payroll (GASB)	The payroll of covered employees, which is typically only the pensionable pay (meets the statutory salary definition) and does not include pay above any pay cap.
Actuarial Accrued Liability (AAL)	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
Accrued Benefit Funding Ratio	The ratio of assets to Current Benefit Obligations.
Accrued Liability Funding Ratio	The ratio of assets to Actuarial Accrued Liability.
Actuarial Assumptions	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.
Actuarial Cost Method	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of future Normal Costs and the Actuarial Accrued Liability.
Actuarial Equivalent	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
Actuarial Present Value (APV)	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
Actuarial Present Value of Projected Benefits	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
Actuarial Valuation	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for developing and monitoring a retirement system's funding policy, such as the Funded Ratio and the Annual Required Contribution (ARC).
Actuarial Value of Assets	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the Funded Ratio and the Annual Required Contribution (ARC).

Glossary of Terms (Continued)

Amortization Method	A method for determining the Amortization Payment. Under the Level Percentage of Pay method, the Amortization payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. The stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
Amortization Payment	That portion of the plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
Amortization Period	The period used in calculating the Amortization Payment.
Annual Required Contribution (ARC)	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ARC consists of the Employer Normal Cost and Amortization Payment.
Annual Valuation Earnings	Reported salary at valuation date. annualized for members with less than one year of service earned during the year.
Augmentation	Annual increases to deferred benefits.
Closed Amortization Period	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example, if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
Current Benefit Obligations	The present value of benefits earned to the valuation date, based on current service and including future salary increases to retirement (comparable to a Projected Unit Credit measurement).
Employer Normal Cost	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
Expected Assets	The present value of anticipated future contributions intended to fund benefits for current members.
Experience Gain/Loss	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience; e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience; i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.
GASB	Governmental Accounting Standards Board.

Glossary of Terms (Concluded)

GASB Statements No. 25 and No. 27	These are the governmental accounting standards that previously set the accounting and financial reporting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 27 sets the accounting and financial reporting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 25 sets the rules for the systems themselves. These statements remain in effect only for pension plans that are not administered as trusts or equivalent arrangements. Please refer to the definition of GASB Statements No. 67 and No. 68 on the following page.
GASB Statement No. 50	The accounting standard governing a state or local governmental employer's accounting for pensions. This statement remains in effect only for pension plans that are not administered as trusts. Please refer to the definition of GASB Statements No. 67 and No. 68.
GASB Statements No. 67 and No. 68	Statements No. 67 and No. 68, issued in June 2012, replace the requirements of Statements No. 25, No. 27 and No. 50, respectively, for pension plans administered as trusts. Statement No. 68, effective for the fiscal year beginning July 1, 2014, sets the accounting and financial reporting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67, effective for the fiscal year beginning July 1, 2013, sets the rules for the systems themselves. Accounting and financial reporting information prepared according to Statements No. 67 and No. 68 is provided in a separate report beginning with the June 30, 2014 actuarial valuation.
GASB Statement No. 82	Statement No. 82, issued in March 2016, is an amendment to Statements No. 67, No. 68, and No. 73, and is intended to improve consistency in the application of the accounting statements.
Normal Cost	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
Projected Annual Earnings	Projected annual payroll for fiscal year beginning on the valuation date, determined by increasing reported pay for each member by one full year's assumed pay increase according to the actuarial salary scale, as prescribed by the LCPR Standards for Actuarial Work.
Projected Benefit Funding Ratio	The ratio of the sum of Actuarial Value of Assets and Expected Assets to the Actuarial Present Value of Projected Benefits. A ratio less than 100% indicates that contributions are insufficient.
Unfunded Actuarial Accrued Liability	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
Valuation Date	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.