



Seattle City Employees' Retirement System

January 1, 2026 Actuarial Valuation

Prepared by:

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May 27, 2026

Retirement Board
Seattle City Employees' Retirement System
720 Third Avenue, Suite 900
Seattle, WA 98104

Dear Members of the Board:

As requested, we have prepared an actuarial valuation of the Seattle City Employees' Retirement System (SCERS or "the System") as of January 1, 2026. This report reflects the benefit provisions and contribution rates in effect as of January 1, 2026.

Purpose of the Valuation

The main purposes of this report are:

- to provide the employer actuarial contribution rate for the fiscal year ending December 31, 2027;
- to review the experience under the plan for the valuation year ending December 31, 2025; and
- to assess the funded position of the plan.

Actuarial computations presented in this report are for purposes of determining the recommended funding amounts for SCERS. Actuarial computations presented for financial reporting in a separate report under GASB Statements No. 67 and 68 are for purposes of assisting SCERS and participating employers in fulfilling their financial accounting requirements. The computations prepared for these two purposes may differ as disclosed in our report. The calculations in the enclosed report have been made on a basis consistent with our understanding of SCERS' funding requirements and goals. The calculations in this report have been made on a basis consistent with our understanding of the plan provision described in Appendix B of this report. Determinations for purposes other than meeting these requirements may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

Actuarial Assumptions

Actuarial assumptions, including discount rates, mortality tables, and others identified in this report, and actuarial cost methods are adopted by the Board. The Board is responsible for selecting the System'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 adopted and are described in this report. The System is solely responsible for communicating to Milliman any changes required thereto. All costs, liabilities, rates of interest, and other factors for the System have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the System and reasonable expectations), and which, in combination, offer a reasonable estimate of anticipated experience affecting the System and are expected to have no significant bias.

Further, in our opinion, each actuarial assumption used is reasonably related to the experience of the System and to reasonable expectations which, in combination, represent a reasonable estimate of anticipated experience under the System.

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Variability of Results

This valuation report is only an estimate of the System's financial condition as of a single date. It can neither predict the System's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of System benefits, only the timing of System contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, 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 future measurements. The Board has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Appendix A at the March 12, 2026 Board meeting.

Reliance

In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by SCERS staff. This information includes, but is not limited to, statutory provisions, member census data, and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different, and our calculations may need to be revised.

Reliance on experts is based on the System's investment policy, NEPC's capital market assumptions, and NEPC's expected return model.

Limited Distribution

Milliman's work is prepared solely for the internal business use of SCERS. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third-party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exception(s):

- a) SCERS may provide a copy of Milliman's work, in its entirety, to the System's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the System.
- b) SCERS may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

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Models

The valuation results were developed using models intended for valuations that use standard actuarial techniques. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice.

Qualifications and Certification

The consultants who worked on this assignment are actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

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

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized accepted actuarial principles and practices, which are consistent with the principles prescribed by the Actuarial Standards Board and the *Code of Professional Conduct and Qualification Standard for Actuaries Issuing Statements of Actuarial Opinion* in the United States, published by the American Academy of Actuaries. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

Conclusion

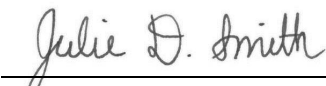
We would like to express our appreciation to the System staff who gave substantial assistance in supplying the data on which this report is based.

We respectfully submit the following report, and we look forward to discussing it with you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Collier', written over a horizontal line.

Nick J. Collier, ASA, EA, MAAA
Consulting Actuary

A handwritten signature in black ink, appearing to read 'Julie D. Smith', written over a horizontal line.

Julie D. Smith, FSA, EA, MAAA
Consulting Actuary

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1. Summary of the Findings

Overview

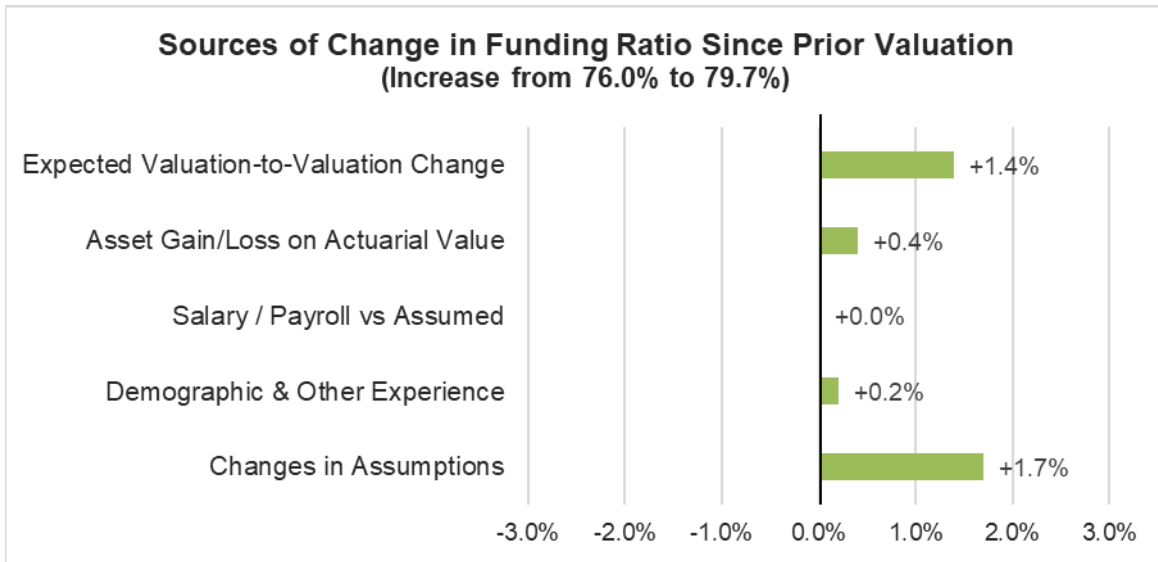
	January 1, 2026	January 1, 2025
Total Actuarial Contribution Rate	22.05%	23.78%
Employer Actuarial Contribution Rate	13.48%	15.06%
Funding Ratio	79.7%	76.0%

The January 1, 2026 Actuarial Valuation determines the minimum actuarially required employer contribution rate (referred to as the employer actuarial contribution rate) payable beginning January 1, 2027 based on the Board's funding policy. Several key points of the valuation are summarized as follows:

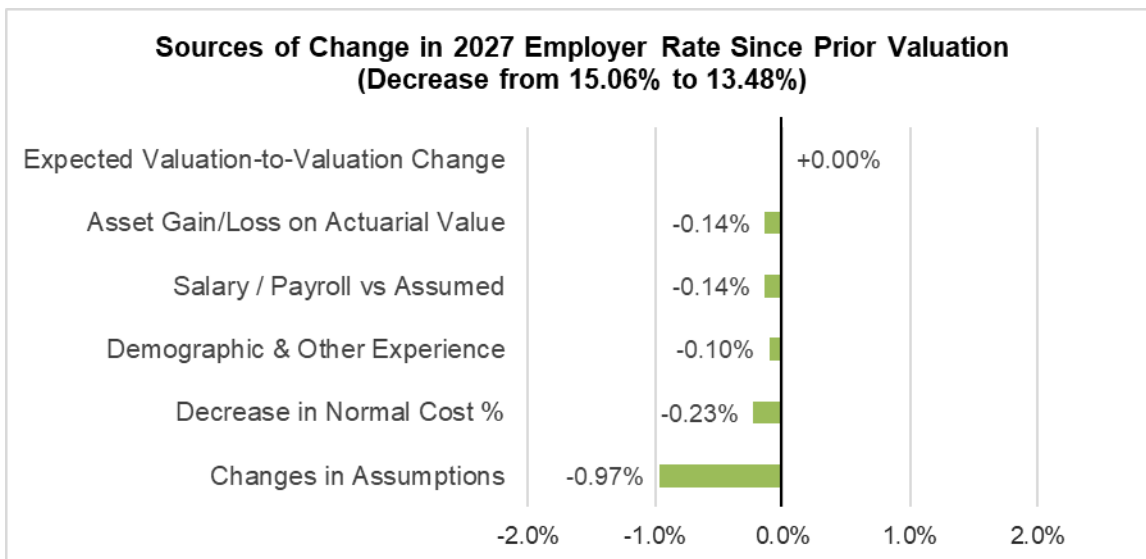
- **2026 Assumption Changes:** The Board adopted new assumptions and methods at its March 2026 meeting that are reflected in the January 1, 2026 funding valuation. The most significant change was to the retiree mortality assumption which resulted in an increase in the Funding Ratio. One change to the actuarial methods pertaining to the amortization of any unfunded liabilities was adopted; however, that change will only impact future valuations.
- **Investment Returns:** For the year ending December 31, 2025, the SCERS assets returned an estimated 15.1% on a market value basis (net of investment expenses), which was greater than the assumed rate of 6.75%. The result is an actuarial investment gain for the 2025 year. Note that only one-fifth of the current year gain is recognized in this year's Actuarial Value of Assets (AVA). Combined with prior years' asset gains and losses under the asset smoothing method, the return was a positive 7.2% on an actuarial value basis, which is used in the calculations of the Funding Ratio and employer actuarial contribution rate. See Section 3 of this report for additional details.
- **Employer Contribution Rate:** The calculated employer actuarial contribution rate has decreased from the prior valuation, from 15.06% to 13.48% of payroll. The primary factor causing this decrease was the implementation of new assumptions adopted with the 2026 Investigation of Experience. See the section following titled "Analysis of Change" for additional details on causes of the change.
- **Funding Progress:** The Funding Ratio (which is measured as the AVA divided by the Actuarial Accrued Liability) increased from 76.0% to 79.7%. Contributions made to pay down the Unfunded Actuarial Accrued Liability caused an expected year-to-year increase in the Funding Ratio. There was also an increase in the Funding Ratio due to the implementation of new assumptions adopted with the 2026 Investigation of Experience. Details of the changes in the Funding Ratio are shown in the following table. Note that the Funding Ratio is calculated using the AVA. Funding Ratio results based on the Market Value of Assets (MVA) are shown in Table 1 at the end of this section.

Analysis of Change

The table below shows the sources of change in the Funding Ratio between the prior and current actuarial valuations.



The following table shows the sources of change in the employer actuarial contribution rate between the prior and current actuarial valuations.



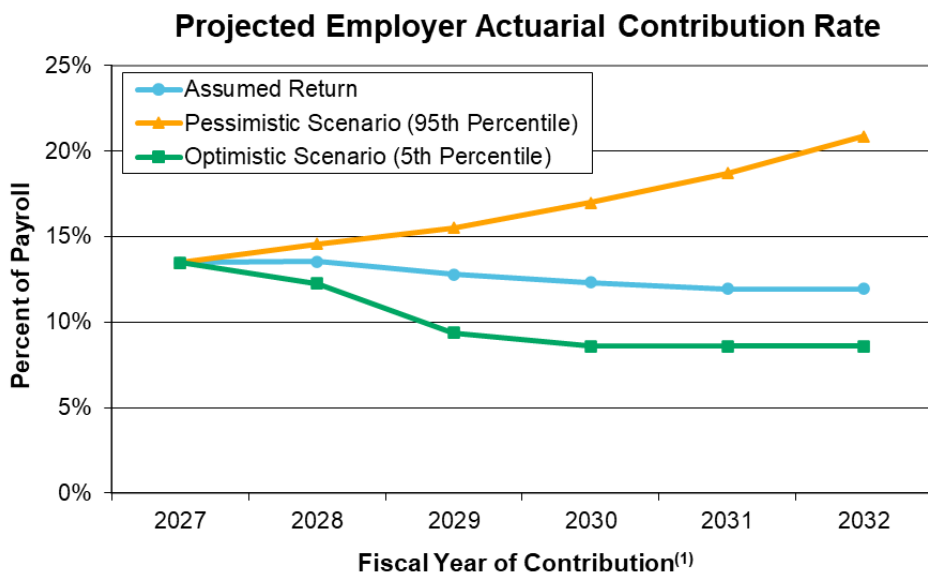
Employer Actuarial Contribution Rate

Based on the actuarial valuation as of January 1, 2026, the total actuarially required contribution rate decreased from 23.78% to 22.05% for the year beginning January 1, 2027. Reducing by the average 2026 member contribution rate of 8.57% (a blend of the 10.03% for Plan 1 members and 7.00% for Plan 2 members), the employer actuarial contribution rate is calculated to be 13.48% of pay effective January 1, 2027 under the funding policy, a decrease from the prior valuation's rate of 15.06%. This reflects the City's commitment to fund at least the actuarially determined contribution rate, which is based on a closed 17-year amortization of the Unfunded Actuarial Accrued Liability (UAAL) beginning January 1, 2026. Any unexpected changes in the UAAL (such as experience gains and losses and changes in assumptions) in future years will be amortized under new 20-year schedules. Each year a new amortization layer will be created that will be fully paid off 20 years from the date the layer is created.

The current contribution rates for the death benefit program are projected to be sufficient to finance the \$2,000 amount of death benefit.

We have performed a five-year projection of the employer actuarial contribution rates if a 6.75% return is earned on the Market Value of Assets in each future year (and assuming that no other actuarial gains or losses occur and there are no other changes to assumptions or benefit provisions). This projection shows the expected impact of recognizing the currently deferred asset gains and losses over time. The result is very little change in 2028 followed by decreases in the employer contribution rate over the following years.

It is likely that the Market Value of Assets will not return an annual average of exactly 6.75% in all future years. To show the potential impact of volatility in asset returns on the employer actuarial contribution rate, we have performed a projection of the contribution rates at the 5th and 95th percentile expected returns (thereby yielding a 90% asset-return-based confidence interval for the specified rates). These projections are shown in the graph and table on the following page. Note that it is assumed the employer contribution rate will not go below the member contribution rate (8.57%) in the optimistic scenario.



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Projected Employer Actuarial Contribution Rate		
Contribution Year ⁽¹⁾	Assuming 6.75% Future Returns	90% Asset Return Confidence Interval
2027	13.48%	13.48% - 13.48%
2028	13.52%	12.26% - 14.57%
2029	12.79%	9.38% - 15.52%
2030	12.32%	8.57% - 16.97%
2031	11.95%	8.57% - 18.68%
2032	11.95%	8.57% - 20.84%

1. Contribution year lags calculation by one year.
 For example: Contribution Year 2027 is based on the 2026 valuation results.

	Compounded Average Return for Period	
	Percentile	
	95th	5th
1-Year Period	-13.0%	30.5%
2-Year Period	-7.7%	23.0%
3-Year Period	-5.2%	19.8%
4-Year Period	-3.7%	17.9%
5-Year Period	-2.7%	16.7%

The 90% confidence interval results are based on the 5th and 95th percentile compounded returns for one-, two-, three-, four-, and five-year periods. Since actuarial assets are used to calculate contribution rates, deferred gains or losses would continue to impact the actuarially required employer contribution rate after these dates.

See Section 8 of this report for a detailed discussion of the projected contribution rates.

Funding Valuation

This report provides information relevant to the funding of SCERS. Information for financial reporting purposes was provided in a separate GASB 67 and 68 Disclosure report earlier this year.

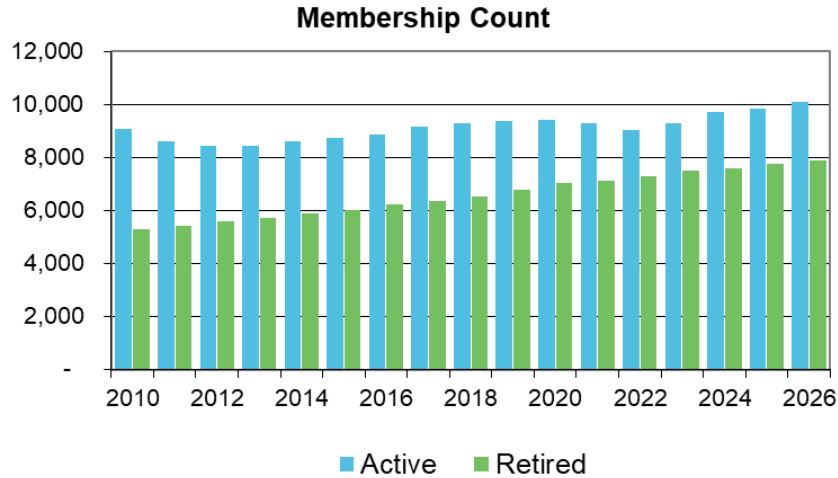
Contingent COLA Benefits

The Seattle Municipal Code allows for an increase in the cost-of-living adjustment (COLA) available to current and future retired members. Currently, the Floor COLA (also referred to as a Restoration of Purchasing Power COLA) is at the 65% level. The enhanced COLA benefit (70% Floor COLA) does not become effective until the System attains at least a 100% funding level.

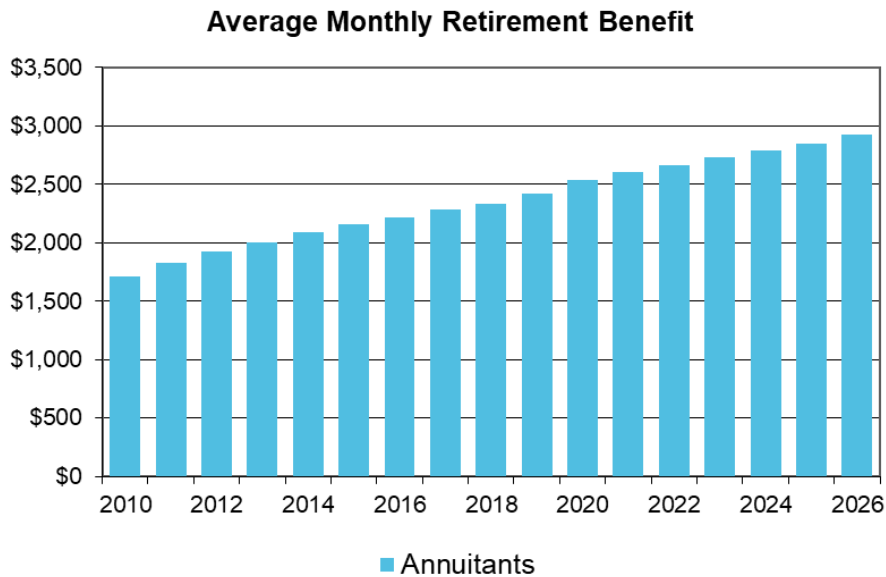
Since it is unknown when the 70% Floor COLA benefit will become effective and it will likely not be for a number of years given the current funded status of the System, we have not included this potential benefit change in the valuation. The valuation includes the value of the Floor COLA at the 65% level. See Appendix A of this report for further details.

Membership Information

Total valuation payroll has increased by 6.0% since the 2025 valuation, and active membership has increased by 2.4% during this same period. As of January 1, 2026, the annualized payroll is \$1.25 billion for 10,092 active members.



Retired member counts and average retirement benefit amounts continue to increase steadily. As of January 1, 2026, there were 7,894 retired members and beneficiaries with an average benefit of \$2,922 per month. This represents a 1.8% increase in the count and a 2.4% increase in the average benefit amount.



Analysis of Change in Member Population

The following table summarizes the year-to-year change in the member population.

	Actives	Deferred Members ⁽¹⁾	Retirees/ Beneficiaries
January 1, 2025 Valuation	9,855	3,763	7,751
Termination with Refund / Death	(81)	(175)	(231)
Termination without Refund	(306)	306	-
Service Retirement	(247)	(81)	328
Disability Retirement	(1)	(1)	2
Rehires	57	(57)	-
New Entrants / Beneficiaries	815	44	44
Data Corrections	-	-	-
January 1, 2026 Valuation	10,092	3,799	7,894

1. Counts include non-vested terminated members whose contributions are still on deposit with SCERS as of the valuation date. There are 2,033 non-vested terminated members as of January 1, 2026.

Summary Exhibit

A summary of the key results of this valuation, along with a comparison to the January 1, 2025 valuation, is shown in Table 1.

Note that the valuation measures are based on the Actuarial Value of Assets, which recognizes asset gains and losses over a five-year period; however, we have also shown key measures using the Market Value of Assets.

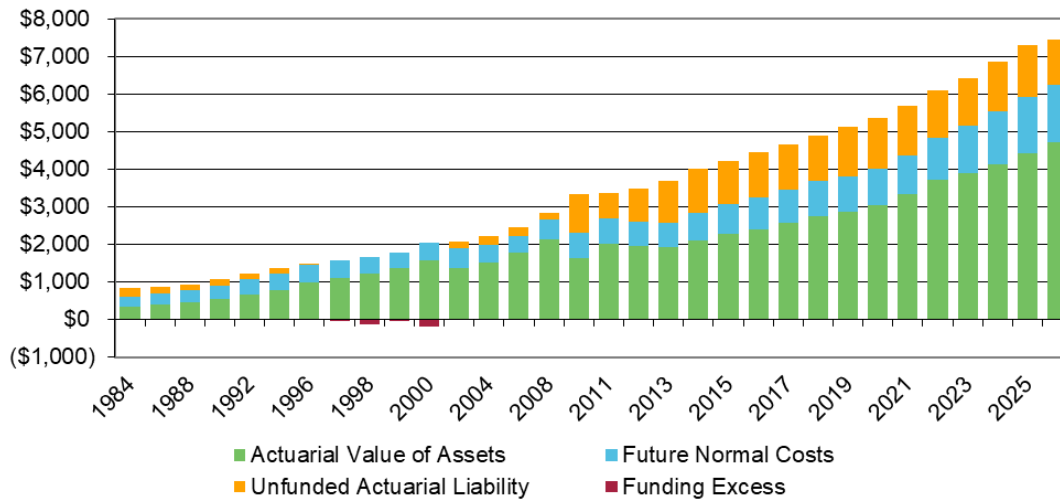
Graphs 1 and 2 and the associated data table on page 8 show historical asset and liability information, including the Present Value of Future Benefits (PVFB) and Present Value of Future Normal Costs (PVFNC), at previous valuation dates.

Table 1
Summary of Results

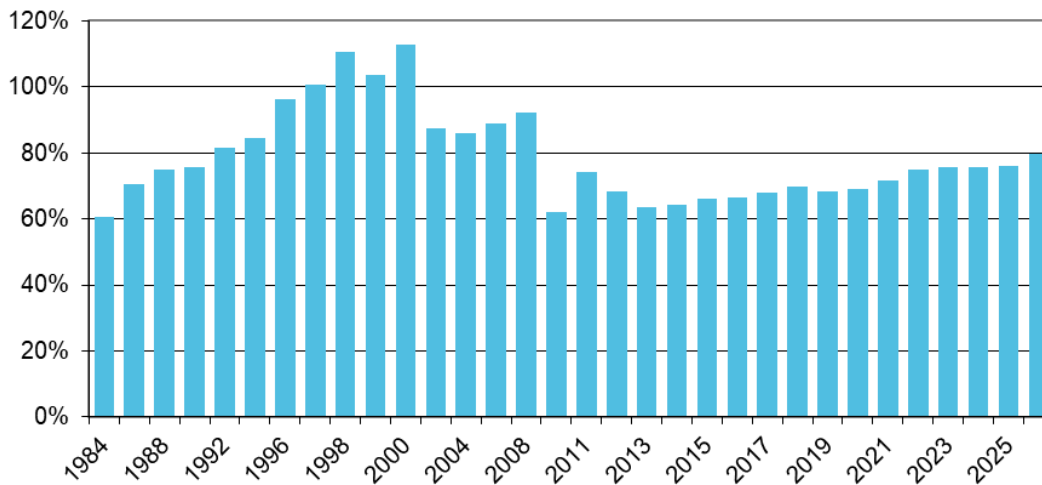
	Valuation January 1, 2026	Valuation January 1, 2025	Percentage Change
Total membership			
Active members	10,092	9,855	2.4%
Retired members & beneficiaries	7,894	7,751	1.8%
Vested terminated members ⁽¹⁾	3,799	3,763	1.0%
Total	21,785	21,369	1.9%
Pay as of Valuation Date			
Annual total (\$millions)	\$ 1,252.5	\$ 1,181.7	6.0%
Annual average	124,110	119,906	3.5%
Average monthly benefit paid to current retirees and beneficiaries			
Service retirement	3,032	2,966	2.2%
Disability retirement	1,765	1,667	5.9%
Surviving spouse and dependents	2,019	1,961	2.9%
Total	2,922	2,852	2.4%
Actuarial Accrued Liability (\$millions)			
Active members	2,613.2	2,551.6	2.4%
Retired members & beneficiaries	2,954.0	2,927.3	0.9%
Vested terminated members ⁽¹⁾	335.3	326.1	2.8%
Total	5,902.6	5,805.0	1.7%
Assets			
Actuarial Value of Assets (\$millions)	4,705.2	4,412.3	6.6%
Unfunded Actuarial Accrued Liability or Surplus Funding (\$millions)			
	1,197.4	1,392.7	(14.0)%
Contribution Rates			
Actuarially Required Contribution Rate	22.05%	23.78%	(7.3)%
Average Member Contribution Rate	8.57	8.72	(1.7)%
Employer Actuarial Contribution Rate	13.48%	15.06%	(10.5)%
Funding Ratio			
	79.7%	76.0%	4.9%
Normal Cost as a percent of salary			
	14.87%	15.25%	(2.5)%
Market Value of Assets (MVA) — for informational purposes only			
Assets based on MVA			
Market Value of Assets (\$millions)	\$ 4,958.2	\$ 4,332.6	14.4%
Contribution Rates based on MVA			
Actuarially Required Contribution Rate	20.32%	24.30%	(16.4)%
Average Member Rate	8.57	8.72	(1.7)%
Employer Actuarial Contribution Rate	11.75%	15.58%	(24.6)%
Funding Ratio based on MVA			
	84.0%	74.6%	12.5%

1. Includes non-vested terminated members whose contributions are still on deposit with SCERS as of the valuation date.

Graph 1 Historical Asset and Liability Comparison



Graph 2 Historical Funding Ratios



Year	(in \$Millions)				Funding Ratio
	PVFB	Assets	PVFC	UAAL	
2017	\$ 4,672.6	\$ 2,564.1	\$ 906.2	\$ 1,202.3	68.1%
2018	4,885.2	2,755.2	943.4	1,186.6	69.9%
2019	5,136.8	2,877.4	920.1	1,339.3	68.2%
2020	5,378.0	3,040.7	966.9	1,370.4	68.9%
2021	5,688.8	3,345.8	1,015.8	1,327.3	71.6%
2022	6,089.4	3,717.2	1,130.4	1,241.8	75.0%
2023	6,410.7	3,903.1	1,252.7	1,254.9	75.7%
2024	6,874.9	4,143.7	1,404.8	1,326.3	75.8%
2025	7,315.9	4,412.3	1,511.0	1,392.7	76.0%
2026	7,455.5	4,705.2	1,553.0	1,197.4	79.7%

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2. Scope of the Report

This report presents the actuarial valuation of the Seattle City Employees' Retirement System as of January 1, 2026.

A summary of the findings resulting from this valuation is presented in the previous section. Section 3 describes the assets of the System. A summary of the assets is set forth in Table 2. Sections 3, 4, and 5 describe how the obligations of the System are to be met under the actuarial cost method in use.

Section 6 discloses additional historical information.

Section 7 sets forth estimated actuarial gains or losses from various sources. Section 8 shows projections of the System's funding under both optimistic and pessimistic scenarios. Section 9 shows projections of SCERS benefit payments and dollar contributions over a 10-year period following the actuarial valuation. Section 10 provides a general discussion of potential risks to SCERS' future funding levels.

Appendix A is a summary of the actuarial procedures and assumptions used to compute the liabilities and contributions shown in this report.

The current benefit structure, as determined by the provisions of the governing law on January 1, 2026 is summarized in Appendix B. Schedules of valuation data classifying the data used in the valuation by various categories of contributing members, former contributing members, and beneficiaries make up Appendix C. Appendix D is a glossary of actuarial terms used in this report.

3. Assets

In many respects, an actuarial valuation can be regarded as an inventory process. The inventory is taken as of the actuarial valuation date, which for this valuation is January 1, 2026. On that date, the assets available for the payment of benefits are appraised. These assets are compared with the actuarial liabilities. The actuarial process thus leads to a method of determining what contributions by members and the employers, combined with the current assets, are needed to pay the expected benefits.

This section of the report deals with the asset determination. In the next section, the actuarial liabilities will be discussed. Section 5 will deal with the process for determining required contributions, based on the relationship between the assets and the actuarial liabilities.

Financial Exhibits

Table 2 shows the calculation of the Actuarial Value of Assets as of January 1, 2026. Note that a net gain is currently being deferred. This means that, if the System earns 6.75% in 2026 and beyond, the AVA will experience an actuarial gain over upcoming years as the remaining portions of deferred asset gains are recognized. In both the Executive Summary and Section 8 of this report, we discuss projections of the minimum actuarially required contribution rates resulting from this projected actuarial gain on the AVA.

Tables 3 and 4 summarize the financial resources of the System as of January 1, 2026 on a market-value basis. Table 3 shows the Market Value of Assets as of January 1, 2026 and January 1, 2025. Table 4 shows the changes in the Market Value of Assets during the year ending January 1, 2025 and the year ending January 1, 2026.

Tables 3 and 4 are taken directly from data furnished to us by SCERS staff. We have accepted these tables for use in this report without audit, but we have reviewed them for reasonableness and consistency with previous reports.

Actuarial Asset Method

SCERS uses five-year asset smoothing, which recognizes the asset gain or loss occurring in each year evenly over a five-year period. The following graph shows a historical comparison of the actuarial and market assets used for valuation purposes.

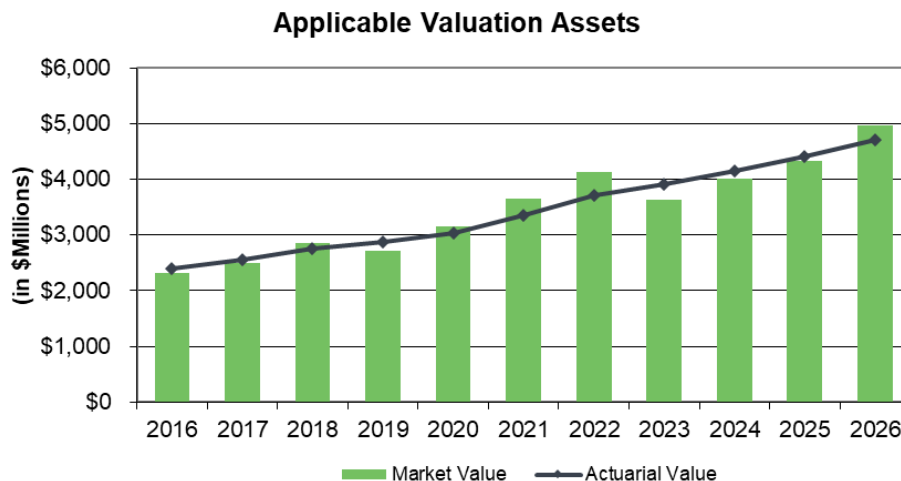


Table 2
Calculation of Actuarial Value of Assets as of January 1, 2026

(All dollar amounts in millions)

Five-Year Asset Smoothing												
Year Ended	Market Value at Beginning of Year	Total Contributions	Benefit Payments Plus Admin. Expenses	Expected Investment Return	Market Value of Assets		Asset Gain/(Loss)	Current Phase Out	Deferred Amount			
					Expected ⁽¹⁾	Actual						
December 31, 2021	\$ 3,641.5	\$ 221.3	\$ 250.9	\$ 263.0	\$ 3,874.9	\$ 4,134.8	\$ 259.9	0%	\$ -			
December 31, 2022	4,134.8	228.3	271.3	277.7	4,369.5	3,638.9	(730.6)	20%	(146.1)			
December 31, 2023	3,638.9	235.6	290.3	243.8	3,828.0	4,010.6	182.6	40%	73.0			
December 31, 2024	4,010.6	280.4	292.4	270.3	4,268.9	4,332.6	63.7	60%	38.2			
December 31, 2025	4,332.6	281.2	307.0	291.6	4,598.4	4,958.2	359.8	80%	287.8			
									Total Deferred at Jan. 1, 2026:	253.0		
									Market Value of Assets at Jan. 1, 2026:	4,958.2		
									Less Total Deferred at Jan. 1, 2026:	253.0		
									Actuarial Value of Assets at Jan. 1, 2026:	<u>\$ 4,705.2</u>		

1. *Expected Market Value of Assets based on the actuarial investment return assumption for the prior year, taking into account actual cash flows during the year.*

Table 3
Summary of Plan Net Assets (at Market Value)

	January 1, 2026		January 1, 2025	
	Market Value	Distribution	Market Value	Distribution
Assets				
Cash and cash equivalents	\$ 216,856,615	4.4%	\$ 199,823,638	4.6%
Receivables:				
Members	5,328,859	0.1%	4,477,614	0.1%
Employer	7,638,491	0.2%	6,241,253	0.1%
Interest and dividends	10,645,207	0.2%	9,210,128	0.2%
Sales proceeds receivable	<u>196,488,291</u>	4.0%	<u>156,521,754</u>	3.6%
Total receivables	220,100,848	4.4%	176,450,749	4.1%
Investments at fair value:				
Fixed Income	1,258,438,930	25.4%	1,130,904,203	26.1%
Infrastructure	156,223,701	3.2%	123,360,047	2.8%
Private Equity	562,439,830	11.3%	523,078,999	12.1%
Public Equity	2,360,605,818	47.6%	2,000,765,282	46.2%
Real Estate	<u>450,708,241</u>	9.1%	<u>421,792,881</u>	9.7%
Total investments	4,788,416,520	96.6%	4,199,901,412	96.9%
Securities lending collateral	3,392,658	0.1%	6,619,943	0.2%
Prepaid Expenses	119,095	0.0%	141,652	0.0%
Total assets	5,228,885,736	105.5%	4,582,937,394	105.8%
Liabilities				
Pensions payable and other	6,094,518	-0.1%	5,080,948	-0.1%
Obligations under securities lending	3,381,999	-0.1%	6,585,880	-0.2%
Investment commitments payable	<u>261,195,228</u>	-5.3%	<u>238,638,384</u>	-5.5%
Total liabilities	270,671,745	-5.5%	250,305,212	-5.8%
Fiduciary net position restricted for pension benefits	\$ 4,958,213,991	100.0%	\$ 4,332,632,182	100.0%

Note: Numbers shown may not sum to totals due to rounding.

Table 4
Summary of Changes in Plan Net Assets (at Market Value)

	January 1, 2026 Market Value	January 1, 2025 Market Value
Additions		
Contributions:		
Employer	\$ 178,804,266	\$ 177,128,113
Member	102,418,307	103,298,388
Total contributions	281,222,573	280,426,501
Investment activities:		
Net investment income (loss)		
Net change in fair value of investments	589,448,462	277,358,672
Interest	45,511,833	43,013,467
Dividends	18,103,018	17,734,102
Other investment income	18,883,714	15,575,600
Investment activity expenses	(20,601,109)	(19,726,583)
Net investment income (loss)	651,345,918	333,955,258
Securities lending activities:		
Securities lending income	285,019	404,028
Borrowing rebates	(208,426)	(318,054)
Total securities lending income	76,593	85,974
Securities lending management fees	(19,137)	(21,483)
Net income from securities lending	57,456	64,491
Net income (loss) from investment activities	651,403,374	334,019,749
Total additions	932,625,947	614,446,250
Deductions		
Benefits	268,994,839	258,768,672
Refunds of contributions	27,714,864	25,620,930
Administrative expenses	10,334,435	7,983,047
Total deductions	307,044,138	292,372,649
Net increase/(decrease)	625,581,809	322,073,601
Fiduciary net position restricted for pension benefits		
Beginning of year	4,332,632,182	4,010,558,581
End of year	\$ 4,958,213,991	\$ 4,332,632,182

Note: Numbers shown may not sum to totals due to rounding.

4. Actuarial Liabilities

Actuarial Present Value of Future Benefits

In the previous section, an actuarial valuation was related to an inventory process, and an analysis was given of the inventory of assets of the System as of the valuation date, January 1, 2026. In this section, the discussion will focus on the commitments of the System, which will be referred to as its actuarial liabilities (or actuarial value of future benefits).

In an active system, the present value of future actuarial liabilities will generally exceed the actuarial assets. This shortfall has to be provided for by future contributions. The funding method for the System sets out a schedule of future contributions that will deal with any deficiency in an orderly fashion. The determination of the level of future contributions needed is discussed in the next section (Section 5) of this report.

Table 5 contains an analysis of the actuarial present value of all future benefits for contributing members, former contributing members, and beneficiaries. The analysis is given by the type of benefit.

The actuarial liabilities summarized in Table 5 include the actuarial present value of all future benefits expected to be paid with respect to each member. For an active member, this value includes a measure of both benefits already earned and future benefits to be earned. Thus, for all current members, active and retired, the value extends over benefits earnable and payable for the rest of their lives and, if an optional benefit is chosen, for the lives of their surviving beneficiaries.

The actuarial assumptions and methods used to determine the liabilities for the January 1, 2026 funding valuation are based on the results of the 2026 Investigation of Experience Report. These assumptions and methods were adopted by the Board effective with the January 1, 2026 Actuarial Valuation. See Appendix A of this report for details.

Actuarial Cost Method

The method used to determine how the actuarial cost for an individual (or for the System as a whole) is allocated to past and future years is referred to as the actuarial cost method. For this valuation, the individual entry age normal cost (EANC) method has been used.

Under this method, the actuarial liabilities discussed above are allocated into two primary calculation components:

1. A normal cost
2. An actuarial accrued liability

The normal cost under the EANC method is developed so that benefits are allocated as a level percentage of payroll for each member, from the member's membership date to the member's termination date. One key feature of the EANC method is that normal cost rates for a plan tend to be stable from year to year (assuming no change in assumptions or benefit provisions) because most members' entry age cost percentages do not change materially from year to year, and because the population typically does not change considerably from year to year.

In the case of SCERS, we project the normal cost rate for the System to gradually decrease over time, if the assumptions do not change, as Plan 2 members with lower benefit levels than Plan 1 members (and therefore lower normal cost rates) become a greater portion of the population. The normal cost rates as a percentage of payroll for the current and prior valuation are shown by benefit type and SCERS plan in Table 6. These normal cost contribution rates are intended to be contributed in each year in order to fund the ongoing cost of benefit accruals.

The annual normal cost rate may be considered the ongoing cost of benefit accruals for any given plan year. When the present value of all future normal costs is subtracted from the present value of total benefits, the result is the actuarial accrued liability (AAL). This can be thought of as the current value of all past normal costs, or the amount that would be in the fund if all prior actuarial assumptions had been exactly met. The AAL represents the portion of the present value of total benefits that the cost method allocates to past service.

To the extent that this AAL exceeds plan assets, an Unfunded Actuarial Accrued Liability (UAAL) exists. If the assets exceed the AAL, the difference can be referred to as a Funding Reserve. Table 7 calculates the UAAL, if any, for the current and prior valuations. Note that currently, a UAAL exists for SCERS. The payoff of this UAAL is discussed in more detail in Section 5 (Employer Contributions) of this report.

Table 5
Actuarial Present Value of Future Benefits (PVFB)

(All dollar amounts in millions)

	January 1, 2026			January 1, 2025
	Plan 1	Plan 2	Total	Total
A. Active Members				
Service Retirement	\$ 2,952.1	\$ 991.9	\$ 3,944.0	\$ 3,858.8
Vested Retirement	55.2	63.0	118.2	108.6
Disability Retirement	3.1	4.2	7.3	6.6
Survivor Benefits	38.7	12.6	51.3	40.7
Refund of Member Contributions	11.5	33.9	45.4	47.7
Total	3,060.7	1,105.5	4,166.2	4,062.5
B. Inactive Members and Annuitants				
Service Retirement	2,766.1	4.8	2,770.9	2,743.0
Disability Retirement	12.1	-	12.1	11.2
Beneficiaries	171.0	-	171.0	173.2
Inactive Members	316.2	19.1	335.3	326.1
Total	3,265.4	23.9	3,289.3	3,253.4
C. Grand Total PVFB	6,326.1	1,129.4	7,455.5	7,315.9

Table 6
Normal Cost Contribution Rates as Percentages of Salary

	January 1, 2026			January 1, 2025
	Plan 1	Plan 2	Total	Total
Service Retirement	12.62	10.68	11.69 %	12.18 %
Vested Retirement	1.70	0.73	1.23	1.21
Disability Retirement	0.04	0.04	0.04	0.04
Survivor Benefits	0.25	0.14	0.20	0.17
Refund of Member Contributions	0.95	0.65	0.81	0.85
Administrative Expenses	0.90	0.90	0.90	0.80
Total	16.46	13.14	14.87 %	15.25 %

Table 7
Unfunded Actuarial Accrued Liability (UAAL)

(All dollar amounts in millions)

	January 1, 2026	January 1, 2025
A. Actuarial present value of all future benefits for present and former members and their survivors (Table 5)	\$ 7,455.5	\$ 7,315.9
B. Less actuarial present value of total future normal costs for present members	1,553.0	1,511.0
C. Actuarial accrued liability ⁽¹⁾ [A - B]	5,902.6	5,805.0
D. Less actuarial value of assets available for benefits (Table 2)	<u>4,705.2</u>	<u>4,412.3</u>
E. Unfunded actuarial accrued liability (Funding Excess, if negative) [C - D]	\$ 1,197.4	\$ 1,392.7
F. Funding Ratio [D ÷ C]	79.7%	76.0%

1. The actuarial accrued liability as of January 1, 2027 is projected to be \$6,159.9 million.

5. Employer Contributions

As shown in Table 7 in the previous section of this report, the AAL exceeds the current Actuarial Value of Assets. In other words, as of the January 1, 2026 valuation, a UAAL exists for SCERS.

Because a UAAL exists, the total (member + employer) actuarially required contribution rate will consist of two components:

1. The normal cost contribution rate as of January 1, 2026
2. An amortization payment intended to pay off the UAAL in accordance with the SCERS funding policy

Funding

The current SCERS funding policy was updated by a Seattle City Council resolution in August 2013. The funding policy specifies that the UAAL will be amortized as a level percentage of payroll over a closed 30-year period as of the January 1, 2013 Actuarial Valuation. This means that, for the January 1, 2026 valuation, the amortization contribution rate must be projected to pay off the current UAAL over a 17-year period.

As a result of the 2026 Investigation of Experience, effective January 1, 2026 the existing UAAL will continue to be funded as it currently is with a fixed schedule that has the UAAL going to \$0 as of January 1, 2043. Any unexpected changes in the UAAL (such as experience gains and losses and changes in assumptions) in future years will be amortized over new 20-year schedules. Each year a new amortization layer will be created that will be fully paid off 20 years from the date the layer is created.

Actuarial Gains and Losses

When experience is different from actuarial expectation, an actuarial gain or loss occurs. Ongoing actuarial gains and losses decrease and increase the UAAL. Section 7 of this report illustrates the historical actuarial gains and losses on the UAAL by source.

Amortization of UAAL

Table 8 details the components of the total actuarially required contribution rate of 22.05% by breaking it into the necessary funding components: normal cost and amortization of UAAL. It then illustrates the split between member and employer contribution rates, assuming that member contributions are allocated entirely toward paying the ongoing normal cost of benefits. As shown in Table 8, the calculated employer actuarial contribution rate decreases to 13.48% beginning January 1, 2027.

Table 9 details the components of the total actuarially required contribution rate by Plan. Table 10 shows details of the calculation of the UAAL amortization rate. Table 11 details the projected amortization of the UAAL through the end of 2042.

Because the actuarially required contribution rate is based on an Actuarial Value of Assets that is currently deferring a net gain, the 22.05% rate is projected to decrease over the next few years if no other actuarial asset gains or losses after January 1, 2026 were to occur, and no assumptions changes are made.

In Section 8 of this report, we have included a five-year projection of the actuarially required contribution, including optimistic and pessimistic investment return scenarios.

Table 8
Contribution Rates as Percentages of Salary

	Actuarially Required Contribution Beginning	
	January 1, 2027	January 1, 2026
A. Total normal cost rate	14.87 %	15.25 %
B. UAAL amortization rate ⁽¹⁾	<u>7.18</u>	<u>8.53</u>
C. Actuarially required contribution rate	22.05 %	23.78 %
D. Member contribution rate	<u>8.57</u>	<u>8.72</u>
E. Allocation of employer contribution rate ⁽²⁾		
Normal cost	6.30 %	6.53 %
Amortization payment ⁽¹⁾	<u>7.18</u>	<u>8.53</u>
Total employer contribution rate	13.48 %	15.06 %

1. See Table 10 for additional details.

2. If member contributions are all allocated to paying the normal cost.

Table 9
Contribution Rates as Percentages of Salary by Plan

	Actuarially Required Contribution January 1, 2027		
	SCERS 1	SCERS 2	Total %
Total normal cost rate	16.46 %	13.14 %	14.87 %
UAAL amortization rate	7.18	7.18	7.18
Actuarially required contribution rate	23.64	20.32	22.05
Member contribution rate	10.03	7.00	8.57
Total employer contribution rate	13.61 %	13.32 %	13.48 %

Table 10
Calculation of UAAL Contribution Rate

(All dollar amounts in millions)

Unfunded Actuarial Accrued Liability - Amortization Detail							
Date Established	Description	Balance as of January 1, 2026	Interest on Balance	Amortization Payment on Dec. 31, 2026 ⁽¹⁾	Balance as of Jan 1, 2027 ⁽²⁾	Remaining Period as of Jan 1, 2027 ⁽³⁾	Jan 1, 2027 Amortization Payment
January 1, 2026	Initial UAAL	\$ 1,197.4	\$ 80.8	\$ 115.4	\$ 1,164.8	16 Years	\$ 93.2
Total Amortization Payment Jan 1, 2027:							\$ 93.2
Projected Payroll Jan 1, 2027:							\$ 1,297.7
UAAL as of January 1, 2026:		<u>\$ 1,197.4</u>	UAAL Contribution Rate (as a % of Payroll) 2027:				<u>7.18%</u>

Explanatory Notes:

1. Amortization Payments are based on a fixed schedule that increases by the payroll assumption each year.
2. The assets and liabilities used in the calculation of the UAAL are as of January 1, 2026, whereas the employer contribution rate is not effective until January 1, 2027. Therefore, the UAAL is projected to January 1, 2027 based on the actual contribution rate for the period, with the projected UAAL as of January 1, 2027 equaling \$1,164.8 million.
3. Effective with the January 1, 2027 valuation, all new UAAL layers are amortized over a 20-year period, beginning with the date the contribution is first expected to be made.

Table 11
Amortization of Unfunded Actuarial Accrued Liability (UAAL) ⁽¹⁾⁽²⁾

(All dollar amounts in millions)

Year	Payroll	Total Contribution Rate ⁽³⁾	Normal Cost Rate	UAAL Rate	UAAL			Ending Balance
					Beginning Balance	Amortization Payment	Interest	
2026	\$ 1,253	23.63%	14.87%	8.76%	\$ 1,197.4	\$ 109.8	\$ 77.2	\$ 1,164.8
2027	1,298	22.05%	14.87%	7.18%	1,164.8	93.2	75.5	1,147.1
2028	1,345	22.05%	14.87%	7.18%	1,147.1	96.6	74.2	1,124.8
2029	1,393	22.05%	14.87%	7.18%	1,124.8	100.1	72.6	1,097.3
2030	1,443	22.05%	14.87%	7.18%	1,097.3	103.7	70.6	1,064.2
2031	1,495	22.05%	14.87%	7.18%	1,064.2	107.4	68.3	1,025.1
2032	1,549	22.05%	14.87%	7.18%	1,025.1	111.3	65.5	979.3
2033	1,605	22.05%	14.87%	7.18%	979.3	115.3	62.3	926.3
2034	1,663	22.05%	14.87%	7.18%	926.3	119.5	58.6	865.3
2035	1,723	22.05%	14.87%	7.18%	865.3	123.8	54.3	795.9
2036	1,785	22.05%	14.87%	7.18%	795.9	128.3	49.5	717.1
2037	1,850	22.05%	14.87%	7.18%	717.1	132.9	44.0	628.2
2038	1,917	22.05%	14.87%	7.18%	628.2	137.7	37.8	528.3
2039	1,986	22.05%	14.87%	7.18%	528.3	142.6	30.9	416.6
2040	2,057	22.05%	14.87%	7.18%	416.6	147.8	23.2	292.1
2041	2,132	22.05%	14.87%	7.18%	292.1	153.1	14.6	153.6
2042	2,208	22.05%	14.87%	7.18%	153.6	158.6	5.1	0.0

1. Amortization shown does not include the projected impact of currently deferred asset gains and losses.
2. Does not reflect the projected impact on normal cost and contribution rate of future Plan 2 members.
3. The total contribution rate in 2026 represents the actual 2026 employer contribution rate of 15.06% plus the estimated 2026 member contribution rate of 8.57% (blended rate based on proportion in Plan 1 and Plan 2). In years 2027 and later, the total contribution rate is equal to the actuarially required contribution rate.

6. Additional Actuarial Information

The schedule of funding progress is shown in Table 12 and compares assets and liabilities over the years. Primarily due to the poor investment returns of 2000 through 2003, as well as the extreme market downturn of 2008, the Plan is not fully funded. Another material factor is the increase in liabilities from the benefit enhancements triggered in 2007 (i.e., 65% Floor COLA and the 1.5% COLA for all current and future retirees and beneficiaries).

The Funding Ratio shown in the schedule of funding progress is one measure of the funding adequacy of the System and is appropriate for assessing the future contributions needed. Other calculations may be necessary for other purposes, such as assessing the sufficiency of current system assets to satisfy the estimated cost of settling the System's accrued benefit obligations.

Table 13 compares the Actuarial Value of Assets to the types of Actuarial Accrued Liabilities, applying them first to active member contributions, then to retirees and beneficiaries, and then the remaining amount to the active members' benefits. This is referred to as the Solvency Test. Although not required under GASB, this test is part of the Annual Comprehensive Financial Report guidelines specified by the Government Finance Officers Association (GFOA).

Table 12
Schedule of Funding Progress

(All dollar amounts in millions)

Actuarial Valuation Date January 1	Actuarial Value of Assets	Actuarial Accrued Liabilities (AAL)	Unfunded Actuarial Accrued Liabilities (UAAL)	Funding Ratio	Covered Payroll ⁽¹⁾	UAAL as a Percentage of Covered Payroll
1997	\$ 1,094.8	\$ 1,087.3	(\$ 7.5)	100.7 %	\$ 316.9	(2.4) %
1998 ⁽²⁾	1,224.6	1,266.7	42.1	96.7	341.5	12.3
1999	1,375.0	1,326.6	(48.4)	103.6	370.4	(13.1)
2000	1,582.7	1,403.1	(179.6)	112.8	383.6	(46.5)
2002	1,383.7	1,581.4	197.7	87.5	405.1	48.8
2004	1,527.5	1,778.9	251.4	85.9	424.7	59.2
2006	1,791.8	2,017.5	225.8	88.8	447.0	50.5
2008	2,119.4	2,294.6	175.2	92.4	501.9	34.9
2010	1,645.3	2,653.8	1,008.5	62.0	580.9	173.6
2011	2,013.7	2,709.0	695.4	74.3	563.2	123.5
2012	1,954.3	2,859.3	905.0	68.3	557.0	162.5
2013	1,920.1	3,025.3	1,105.2	63.5	567.8	194.6
2014	2,094.3	3,260.1	1,165.8	64.2	597.9	195.0
2015	2,266.7	3,432.6	1,165.9	66.0	630.9	184.8
2016	2,397.1	3,605.1	1,208.0	66.5	641.7	188.3
2017	2,564.1	3,766.4	1,202.3	68.1	708.6	169.7
2018	2,755.2	3,941.8	1,186.6	69.9	733.3	161.8
2019	2,877.4	4,216.7	1,339.3	68.2	779.1	171.9
2020	3,040.7	4,411.1	1,370.4	68.9	785.6	174.4
2021	3,345.8	4,673.1	1,327.3	71.6	876.9	151.4
2022	3,717.2	4,959.0	1,241.8	75.0	865.1	143.5
2023	3,903.1	5,158.0	1,254.9	75.7	901.5	139.2
2024	4,143.7	5,470.0	1,326.3	75.8	946.2	140.2
2025	4,412.3	5,805.0	1,392.7	76.0	1,165.5	119.5
2026	4,705.2	5,902.6	1,197.4	79.7	1,175.1	101.9

1. Covered Payroll includes prior year compensation paid to all active employees on which contributions are calculated. Covered Payroll differs from the Active Member Valuation Payroll shown in Table 1, which is an annualized compensation of only those members who were active on the actuarial valuation date.

2. Reflects increased COLA benefits adopted by the City Council after the valuation was completed.

Table 13
Solvency Test

(All dollar amounts in millions)

Actuarial Valuation Date January 1	Actuarial Value of Valuation Assets	Actuarial Accrued Liabilities for				Portion of Actuarial Accrued Liabilities Covered by Assets			
		(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)
		Active Member Contributions	Inactives, Retirees and Beneficiaries	Active Members (Employer Financed Portion)	Total				
1997	\$ 1,094.8	\$ 313.1	\$ 449.8	\$ 324.4	\$ 1,087.3	100.0%	100.0%	100.0%	100.7%
1998 ⁽¹⁾	1,224.6	337.3	551.8	377.6	1,266.7	100.0	100.0	88.9	96.7
1999	1,375.0	358.4	577.6	390.6	1,326.6	100.0	100.0	100.0	103.6
2000	1,582.7	385.2	599.4	418.5	1,403.1	100.0	100.0	100.0	112.8
2002	1,383.7	434.3	675.6	471.5	1,581.4	100.0	100.0	58.1	87.5
2004	1,527.5	482.5	758.9	537.5	1,778.9	100.0	100.0	53.2	85.9
2006	1,791.8	539.7	902.2	575.6	2,017.5	100.0	100.0	60.8	88.8
2008	2,119.4	590.1	1,084.9	619.6	2,294.6	100.0	100.0	71.7	92.4
2010	1,645.3	684.7	1,176.4	792.7	2,653.8	100.0	81.7	0.0	62.0
2011	2,013.7	683.7	1,290.9	734.4	2,709.0	100.0	100.0	5.3	74.3
2012	1,954.3	730.9	1,393.7	734.7	2,859.3	100.0	87.8	0.0	68.3
2013	1,920.1	757.3	1,513.4	754.6	3,025.3	100.0	76.8	0.0	63.5
2014	2,094.3	792.4	1,657.0	810.7	3,260.1	100.0	78.6	0.0	64.2
2015	2,266.7	829.7	1,753.5	849.4	3,432.6	100.0	82.0	0.0	66.0
2016	2,397.1	851.2	1,875.1	878.8	3,605.1	100.0	82.4	0.0	66.5
2017	2,564.1	888.1	1,975.1	903.2	3,766.4	100.0	84.9	0.0	68.1
2018	2,755.2	911.0	2,106.4	924.4	3,941.8	100.0	87.6	0.0	69.9
2019	2,877.4	929.0	2,349.3	938.4	4,216.7	100.0	82.9	0.0	68.2
2020	3,040.7	939.9	2,554.6	916.6	4,411.1	100.0	82.2	0.0	68.9
2021	3,345.8	995.9	2,649.0	1,028.2	4,673.1	100.0	88.7	0.0	71.6
2022	3,717.2	1,006.7	2,880.8	1,071.5	4,959.0	100.0	94.1	0.0	75.0
2023	3,903.1	992.0	3,051.0	1,115.0	5,158.0	100.0	95.4	0.0	75.7
2024	4,143.7	1,031.3	3,146.2	1,292.5	5,470.0	100.0	98.9	0.0	75.8
2025	4,412.3	1,096.5	3,253.4	1,455.1	5,805.0	100.0	100.0	4.3	76.0
2026	4,705.2	1,161.2	3,289.3	1,452.1	5,902.6	100.0	100.0	17.5	79.7

1. Reflects increased COLA benefits adopted by the City Council after the valuation was completed.

7. Actuarial Gains or Losses

An analysis of actuarial gains or losses is performed in conjunction with the actuarial valuation. The results of our analysis of the financial experience of the System in the three most recent actuarial valuations are presented in Table 14. Each gain or loss shown represents our estimate of how much the given type of experience caused the UAAL to change in the period since the previous actuarial valuation.

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

Table 14
Analysis of Actuarial Gains or Losses ⁽¹⁾

(All dollar amounts in millions)

	Gain/(Loss) For Period		
	2025	2024	2023
Investment Income			
Investment income on AVA was greater (less) than assumed.	\$ 21.8	\$ 1.3	\$ 33.6
Pay Increases			
Pay increases were less (greater) than expected.	4.6	(120.0)	(113.3)
Age and Service Retirements			
Members retired at older (younger) ages or with less (greater) final average pay than expected.	2.6	(7.4)	(5.0)
Disability Retirements			
Disability claims were less (greater) than expected.	0.4	0.1	(0.1)
Death-in-Service Benefits			
Survivor claims were less (greater) than expected.	2.2	8.0	2.8
Withdrawal from Employment			
More (less) reserves were released by withdrawals than expected.	8.2	9.8	(15.2)
Death after Retirement			
Retirees died younger (lived longer) than expected.	<u>3.3</u>	<u>(2.0)</u>	<u>4.4</u>
Total Gain or (Loss) during Period from Financial Experience	\$ 43.1	\$ (110.2)	\$ (92.8)
Non-Recurring Items:			
Changes in actuarial assumptions and plan amendments caused a gain (loss).	125.0	-	-
Data revisions	<u>-</u>	<u>-</u>	<u>-</u>
Composite Gain (Loss) During Period	\$ 168.1	\$ (110.2)	\$ (92.8)

1. Effects related to losses are shown in parentheses. Numerical results are expressed as a decrease (increase) in the UAAL.

8. Contribution Rate Projections

This section of the January 1, 2026 Actuarial Valuation is devoted to a detailed discussion of the contribution rates currently needed, and projected to be needed, in order to effectively fund the System.

This section illustrates two key points:

1. As mentioned throughout this report, the current AVA is deferring a net gain. As a result, if no actuarial asset gains or losses were to occur over the next several years (i.e., the market return equals the return assumption of 6.75%), the employer actuarial contribution rate would be projected to decrease as the remaining deferred gains are fully phased in.
2. Based on this valuation, the total (member and employer) actuarial contribution rate is calculated to be 22.05% of payroll beginning January 1, 2027. Of this, 13.48% is the employer portion. The actual contribution rate needed will vary in the future. We have shown projections to roughly quantify the potential impact of good and bad investment experience.

Projection of Actuarially Required Contribution Rate

We have performed a five-year projection of the employer actuarially required contribution rate under three different scenarios:

1. Assuming that the investment return assumption of 6.75% is met in each future year.
2. Assuming that the assets return at the 5th percentile.
3. Assuming that the assets return at the 95th percentile.

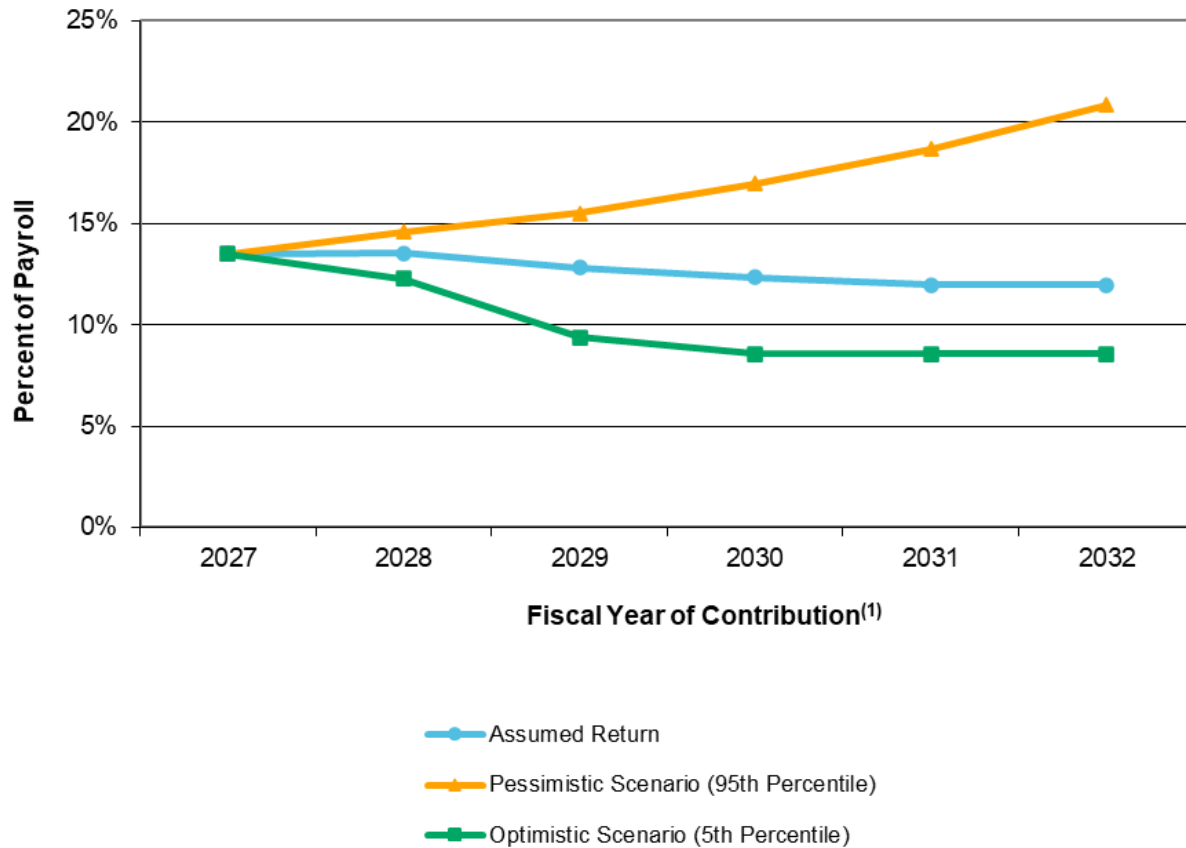
The result is effectively a 90% confidence interval (based on asset returns) of the projected employer contribution rates in these years. Note that in each scenario, all other actuarial assumptions are assumed to be met.

The projections assume the employer contributes its portion of the actuarially required contribution rate each year in the future. This rate is based on a closed amortization period ending December 31, 2042 for the UAAL as of January 1, 2026 and includes a 3.35% general wage assumption and 0.25% population growth assumption. Changes in the UAAL that occur January 1, 2027 or later are amortized over new 20-year periods. Future returns at the 5th and 95th percentile are based on Milliman's capital market assumptions and SCERS' target asset allocation as of January 1, 2026.

Table 15 provides the results of these projections.

Table 15
Projected Total Contribution Rates

Projected Employer Actuarial Contribution Rate



Projected Employer Actuarial Contribution Rate			
Contribution Year⁽¹⁾	If Asset Return at 95th Percentile	Assuming 6.75% Future Returns	If Asset Return at 5th Percentile
2027	13.48%	13.48%	13.48%
2028	14.57%	13.52%	12.26%
2029	15.52%	12.79%	9.38%
2030	16.97%	12.32%	8.57%
2031	18.68%	11.95%	8.57%
2032	20.84%	11.95%	8.57%

1. Contribution year lags calculation year by one year. For example: Contribution Year 2027 is based on the 2026 valuation results.

Assumed Returns for Projection

The projection in Table 15 uses the 5th and 95th percentile returns based on SCERS' target asset allocation and Milliman's January 1, 2026 capital market assumptions. These percentile returns vary by year. The one-year return is the return for 2026 and is at the 5th or 95th percentile rates. The two-year return is calculated such that combining the 2026 and 2027 returns results in an average equal to the two-year return at the 5th or 95th percentile rate. For example, the 5th percentile return for the two-year period of 23.0% is based on a 2026 return of 30.5% (the one-year 5th percentile return) and a 2027 return of 15.9%, which average to a 23.0% annual return.

The percentile rates assumed for this analysis are shown in the table below:

	Compounded Average Return for Period	
	<i>Percentile</i>	
	<i>95th</i>	<i>5th</i>
<i>1-Year Period</i>	-13.0%	30.5%
<i>2-Year Period</i>	-7.7%	23.0%
<i>3-Year Period</i>	-5.2%	19.8%
<i>4-Year Period</i>	-3.7%	17.9%
<i>5-Year Period</i>	-2.7%	16.7%

9. Projection of Benefit Payments and Contribution Dollars

Projection of Benefit Payments and Contribution Dollars

This section of the January 1, 2026 Actuarial Valuation illustrates projected SCERS benefit payments and dollar contributions over a 10-year period following the actuarial valuation.

These projections assume all actuarial assumptions, including 6.75% investment returns (on a market basis) in each future year, are met in the future.

The projection of contribution dollars makes the following three additional key assumptions:

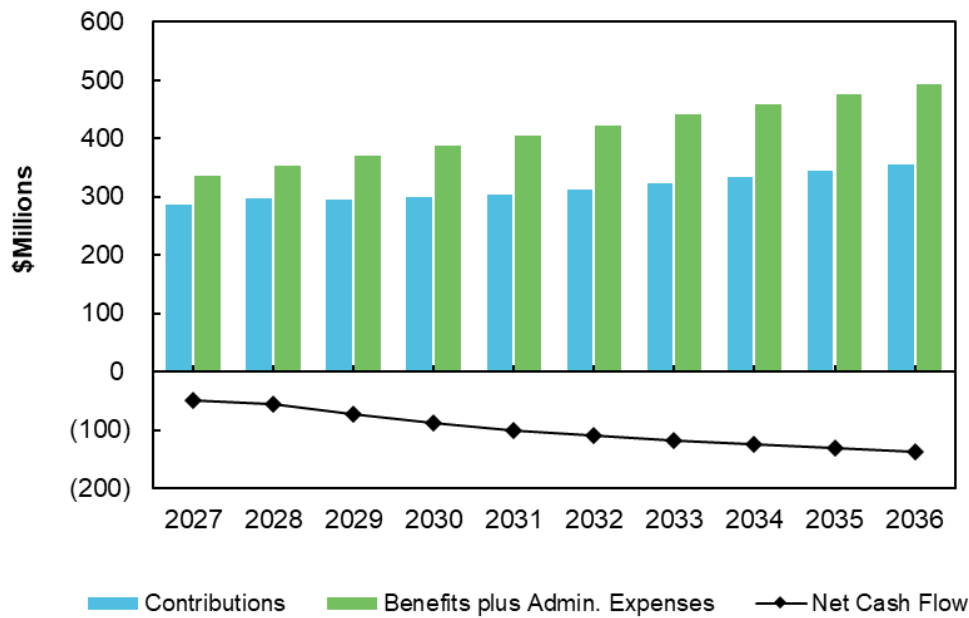
1. Valuation payroll is assumed to grow with both wage inflation of 3.35% and annual population growth of 0.25% (per current SCERS assumptions).
2. The City is assumed to make the employer actuarially required contribution rate calculated in each projection year.
3. Future recognition of currently deferred asset gains or losses is reflected in the projection.

Table 16 shows the results of these projections.

Table 16
10-Year Projection of Benefit Payments and Contributions ⁽¹⁾

Year	Projected Payroll	Projected Admin. Expenses	Projected Benefit Payments	Projected Total Cash Outflow	Projected Total Contributions	Projected Net Cash Flow
2027	\$ 1,297.7	\$ 11.7	\$ 324.0	\$ 335.7	\$ 286.1	\$ (49.5)
2028	1,344.5	12.1	340.6	352.7	296.2	(56.5)
2029	1,393.0	12.5	357.3	369.8	295.9	(74.0)
2030	1,443.3	13.0	374.2	387.2	298.8	(88.4)
2031	1,495.4	13.5	391.5	405.0	303.0	(102.0)
2032	1,549.3	13.9	408.8	422.7	313.0	(109.8)
2033	1,605.2	14.4	426.3	440.7	323.3	(117.5)
2034	1,663.2	15.0	443.8	458.8	334.0	(124.8)
2035	1,723.2	15.5	460.5	476.0	344.8	(131.2)
2036	1,785.4	16.1	477.7	493.8	356.2	(137.6)

Cash Flow Projections



1. Benefit payments do not include administrative expenses. Contributions include employer and member contributions.

10. Risk Disclosure

The purpose of this section is to identify, assess, and provide illustrations of risks that are significant to the System, and in some cases to the System's participants.

As plans mature, they accumulate larger pools of assets and liabilities. This increases the potential risk to plan funding and the finances of those who are responsible for plan funding. As shown by the Asset Volatility Ratio discussed later in this section, the System's assets are now much larger compared to payroll than in the past. The Asset Volatility Ratio example shows that because of this a 10% investment loss on assets today costs almost twice as much, when measured as a percent of payroll, as a 10% investment loss would have cost in 1986. Since pension plans make long-term promises and rely on long-term funding, it is important to consider how mature the plan is today, and how mature it may become in the future.

The results of any actuarial valuation are based on one set of assumptions. Although we believe the current assumptions for the System provide a reasonable estimate of future expectations, it is almost certain that future experience will differ from the assumptions to some extent. It is therefore important to consider the potential impacts of these potential differences between assumptions and experience when making decisions that may affect the future financial health of the System or the System's participants.

Actuarial Standard of Practice No. 51 (ASOP 51) addresses these issues by providing actuaries with guidance for assessing and disclosing the risk associated with measuring pension liabilities and the determination of pension plan contributions. Specifically, it directs the actuary to:

- Identify risks that may be significant to the plan.
- Assess the risks identified as significant to the plan. The assessment does not need to include numerical calculations.
- Disclose plan maturity measures and historical information that are significant to understanding the plan's risks.

This section uses the framework of ASOP 51 to communicate important information about significant risks to the System, the System's maturity, and relevant historical plan data.

Identification of Risks

There are a number of factors that affect future valuation results. To the extent actual experience for these factors varies from the assumptions, this will likely cause either increases or decreases in the plan's future funding level and calculated contribution rates. Examples of factors that can have a significant impact on valuation results are:

- Investment return, as this will impact the level of assets available to pay benefits
- Payroll variation, as this will impact the ability to finance unfunded amounts as a percent of future pay
- Salary variation, as this will impact the size of benefits members receive as a percent of final earnings
- Mortality, as this will impact how long retirees receive benefits
- Service retirement, as this will impact how long retirees receive benefits, the size of retiree benefits, the amount of time to receive employer and employee contributions, and the amount of time for investment earnings to accumulate on those contributions
- Termination (members leaving active employment for reasons other than death, disability, or service retirement), as this will impact the size of those members' benefits

Investment Return

Of the factors listed, we believe the factor with the greatest potential risk is future investment returns. For this reason, we studied this assumption in several scenarios in Section 8 of this report.

In Table 15, we performed a five-year projection of the employer actuarially required contribution rate under three different scenarios:

1. Assuming that the investment return assumption of 6.75% is met in each future year.
2. Assuming that the assets return at the 5th percentile.
3. Assuming that the assets return at the 95th percentile.

Low-Default-Risk Obligation Measure (LDRM)

The Plan's target asset allocation reflects a balance of risk and return. Investing in asset classes with a low-default-risk is expected to reduce future investment returns and therefore increase future contributions. However, the lower risk levels would be expected to result in lower year-to-year volatility in the Actuarially Determined Total Contribution (ADC) rate and Funding Ratio. A portfolio with a lower default risk might provide more benefit security for members. Conversely, investing in asset classes with higher expected returns and volatility is expected to decrease future contributions, but would increase the year-to-year volatility of the ADC and Funding Ratio and could provide less benefit security for members.

Effective for measurement dates February 15, 2023 or later, Actuarial Standard of Practice No. 4 (ASOP 4) states that when performing a funding valuation, the actuary should calculate and disclose a low-default-risk obligation measure (LDRM) of the benefits earned or accrued under the actuarial cost method used as of the measurement date. The actuary should select a discount rate derived from low-default-risk fixed income securities. We have used 30-year U.S. Treasury Bonds. Based on Section 3.11.a. of ASOP 4, we believe this meets the requirements for a discount rate for the LDRM. The 30-Year U.S. Treasury Rate was 4.84% as of December 31, 2025.

The following is a summary of the results comparing the LDRM to the Plan's current assumption.

	30-Year U.S. Treasury Rate ⁽¹⁾	Plan's Current Assumption
Discount Rate	4.84%	6.75%
Actuarial Accrued Liability as of December 31, 2025	\$7,453.0M	\$5,902.6M
Funding Ratio – Market Value of Assets	66.5%	84.0%

1. Calculated using the same actuarial assumptions and methods that were used for this valuation, except for the discount rate.

Demographic Experience

While future investment returns will likely cause the greatest deviation from expected experience, there are many other assumptions made in an actuarial valuation. For these assumptions, differences between actual and assumed experience will also result in actuarial gains and losses. Table 14 in Section 7 of this report provides a look at the impact in recent years of actual experience deviating from assumed.

Maturity Measures and Historical Information

The remainder of this section contains historical information concerning the System's Asset Volatility Ratio and Liability Volatility Ratio. Additional historical information can be found in Section 6 (Additional Actuarial Information). Some of the historical information in Section 6 also provides measures of the System's maturity including breakdowns of the System's liability and membership between active and inactive members.

Asset Volatility Ratios and Liability Volatility Ratios

The magnitude of any contribution rate increase or decrease is affected by the System's maturity level. As systems mature, they accumulate larger pools of assets. Gains and losses on these larger pools of assets create more volatility in the contributions needed to fund the System.

One indicator of this potential volatility is the Asset Volatility Ratio (AVR), which is equal to the Market Value of Assets divided by the total payroll. As assets grow compared to payroll, any percentage gain or loss on those assets will be larger compared to payroll. This causes any resulting changes in required contributions from those gains or losses to also be larger when measured as a percent of payroll. Therefore, plans with a high AVR will be subject to a greater level of volatility in required contributions. The AVR is a current measure since it is based on the current level of assets and will vary from year to year.

The current AVR for SCERS is 4.2. The AVR grew from 2.2 in 1986 to a high of 4.8 in 2022. The AVR has somewhat leveled off recently although there was a large decrease as of January 1, 2023 due to a decrease in the market value of assets in 2022. We expect the AVR will grow in the future as contributions are made to pay off the UAAL that will increase asset growth. The following table provides an illustration of how increases in the AVR increase the volatility of contributions from asset gains and losses.

A return of negative 3.25% is a 10% loss for SCERS because it is 10% below the 6.75% investment return assumption. As shown in the table, if a return of negative 3.25% is not offset by future gains and the AVR is 2.2, the loss is expected to increase contributions by 1.5% of pay if amortized over 20 years, the amortization period to be used for future gains and losses. However, with the current AVR of 4.2, the same return is expected to increase contributions by 2.9% of payroll if amortized over 20 years.

Approximate eventual increases in contributions for an asset return 10% below the assumption if not offset by future gains	
Asset Volatility Ratio = <u>Assets / Payroll</u>	20-Year <u>Amortization</u>
2.2 (1986)	1.5% of payroll
4.2 (current)	2.9% of payroll

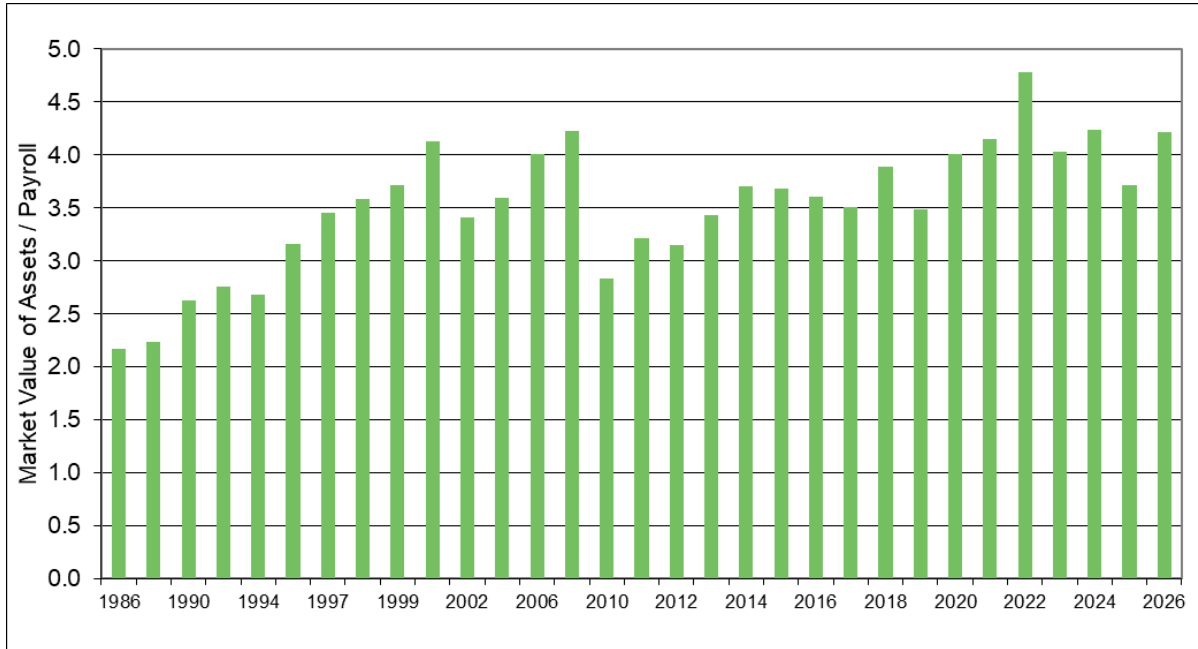
The graph at the top of Table 17 shows how the System matured during the last 30 years, as represented by the increasing AVR.

Another measure of a system's maturity is the Liability Volatility Ratio (LVR), which is equal to the AAL divided by the total payroll. This ratio provides an indication of the longer-term potential for contribution volatility for any given level of investment volatility. In addition, this ratio indicates the potential contribution volatility due to liability experience (gains and losses) and liability re-measurements (assumption changes). For SCERS, the current LVR is 5.0.

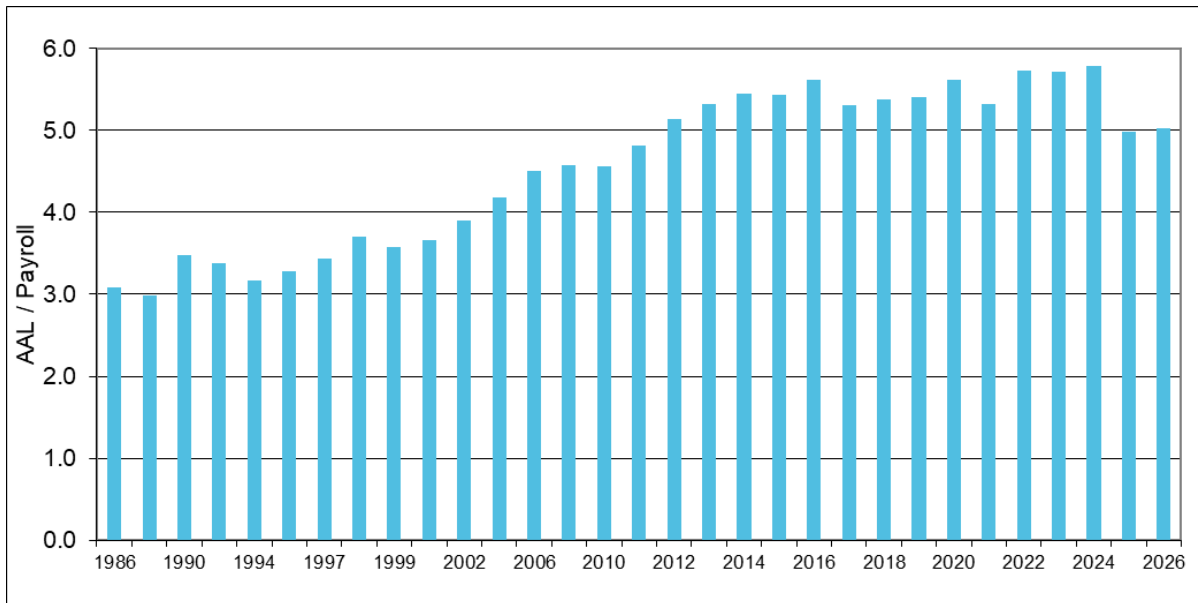
The graph at the bottom of Table 17 shows the historical LVR since 1986. It is a similar pattern to the Asset Volatility Ratio, except the increase is more gradual and the year-to-year variance is significantly less.

Table 17
Asset and Liability Volatility Ratios

Asset Volatility Ratios (Market Value of Assets / Payroll)



Liability Volatility Ratios (Actuarial Accrued Liability / Payroll)



Appendix A Actuarial Procedures and Assumptions

This section of the report describes the actuarial procedures and assumptions used in this valuation. The assumptions used in this valuation were adopted by the SCERS Board at its March 2026 meeting. They are based on Milliman's Investigation of Experience for the period January 1, 2022 through December 31, 2025. The assumptions are reviewed annually for continued compliance with relevant actuarial standards of practice. In particular, we have relied on the expected return determined by NEPC, SCERS' investment consultant, in assessing the compliance of the investment return assumption. Further discussion and the rationale for the assumptions are shown in that report.

The actuarial assumptions used in the valuation are intended to estimate the future experience of the members of the System and of the System itself in areas that affect the projected benefit flow and anticipated investment earnings. Any variations in future experience from that expected from these assumptions will result in corresponding changes in the estimated costs of the System's benefits. Table A-1 summarizes the actuarial assumptions.

Table A-2 presents expected annual salary increases for various years of service. Tables A-3 through A-6 show rates of decrement for service retirement, disability, mortality, and other terminations of employment. Table A-7 shows the probabilities of refund upon termination.

Actuarial Cost Method

The actuarial valuation was prepared using the entry age actuarial cost method. Under this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit. The portion of this actuarial present value allocated to a valuation year is called the normal cost. The portion of this actuarial present value not provided for at a valuation date by the sum of (a) the actuarial value of the assets, and (b) the actuarial present value of future normal costs is called the unfunded actuarial accrued liability or UAAL. The UAAL is amortized as a level percentage of the projected salaries of present and future members of the System.

Records and Data

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

Replacement of Terminated Members

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

Employer Contributions

The Employer Actuarial Contribution Rate is determined as of the prior year's valuation such that the combined member and employer contribution rate is sufficient to amortize the UAAL as of January 1, 2026 over a closed 30-year period beginning January 1, 2013. The amortization payment is based on a level percent of pay. Effective January 1, 2027, layered amortization will apply with new 20-year payments on any future gains or losses.

Administrative Expense

The annual contribution assumed to be necessary to meet general administrative expenses of the System, excluding investment expenses, is 0.90% of members' salaries. This figure is included in the calculation of the normal cost rate.

Valuation of Assets

The assets are valued using a five-year smoothing method based on the difference between the expected market value and the actual market value of the assets in each year. The expected market value is the prior year's market value increased with the net increase in the cash flow, all increased with interest during the past fiscal year at the expected investment return rate assumption.

Investment Earnings

The annual rate of investment earnings of the assets of the System is assumed to be 6.75%. This rate is compounded annually and is net of investment expenses.

Postretirement Benefit Increases

Postretirement benefit increases include:

- Automatic 1.5% Annual COLA – This benefit applies to all members.
- 65% Restoration of Purchasing Power (ROPP) – The member's benefit is the greater of 65% of the annual initial benefit adjusted for CPI or their applicable benefit. This minimum benefit is available to all retirees and beneficiaries. The financial impact of the ROPP benefit is valued assuming an annual price inflation rate of 2.60%. To account for uncertainty in the value of this benefit, the benefit is assumed to begin 31 years after retirement, which is earlier than it is projected to begin based on 2.60% inflation and a 1.5% annual COLA.

Additional contingent COLA increases that were adopted in 2001, but not effective until the System reaches at least a 100% Funding Ratio, are not included in the valuation results.

Valuation Salary

The salary for the year immediately preceding the valuation year is equal to the member's earnings for that year with the following adjustments:

- Annualized pay for members who entered in the year preceding the valuation year.
- For members on leave, the salary is calculated as the hourly pay rate multiplied by 2,088 hours.

Future Salaries

Table A-2 illustrates the rates of future salary increases assumed for the purpose of the valuation. Increases are assumed to occur at the beginning of the year. In addition to increases in salary due to promotions and longevity, this scale includes an assumed 3.35% per annum rate of increase in the general wage level of the membership.

Service Retirement

Table A-3 shows the annual assumed rates of retirement among members eligible for unreduced service retirement or reduced service retirement.

Disability

The rates of disability used in this valuation are illustrated in Table A-4. It is assumed that one-third of all disabilities are duty-related and two-thirds occur while off duty. Only the duty-related assumption is used prior to 10 years of service.

Mortality

The mortality rates used in this valuation are illustrated in Table A-5. A written description of each table used is included in Table A-1.

Other Terminations of Employment

The rates of assumed future withdrawal from active service for reasons other than death, disability, or retirement are shown for representative ages in Table A-6. Note that this assumption only applies to members who terminate and are not yet eligible for retirement.

Probability of Refund

Terminating members may forfeit a vested right to a deferred benefit if they elect a refund of their accumulated contributions. Table A-7 gives the assumed probability, at selected ages, that a terminating member will elect to receive a refund of accumulated contributions instead of a deferred benefit.

If a member terminates with more than 20 years of service, there is assumed to be a 10% probability that the member will elect a refund.

Note that the probability of refund assumption only applies to members who terminate with a vested benefit and are not yet eligible for retirement.

Interest on Member Contributions

For member contributions made on or after January 1, 2012, an annual interest credit is determined which may vary from year to year. This rate is based on the prior 12 months' average yield on 30-year U.S. Treasury Bonds, with a maximum credit interest rate equal to 5.75%. Note that, for member contributions made prior to this date, a flat 5.75% annual interest credit applies (which is the rate that was previously adopted by the Board). The current assumption for interest crediting for member contributions made on or after January 1, 2012 is 3.85%, compounded annually.

Portability

The cost of portability with other public retirement systems is reflected in this valuation by increasing the compensation used to value current and future deferred vested members by 6.0% to reflect an assumed 1.5 years of additional wage growth plus merit at 1.5 years of service (6.00%) due to portability service.

Probability of Marriage

60% of active members are assumed to be married or have a registered domestic partner.

Commencement for Terminated Vested Members

Vested members who terminate but elect to leave their contributions in the System are assumed to commence receiving benefits at age 62.

Changes from Prior Valuation

The administrative expense assumption and the demographic assumptions were updated to reflect the results of Milliman's Investigation of Experience for the period January 1, 2022 through December 31, 2025.

Table A-1
Summary of Valuation Assumptions

January 1, 2026

Economic Assumptions

Price inflation	2.60 %
General wage increases	3.35
Investment return	6.75
Increase in membership	0.25
Interest on member accounts	5.75/3.85 ⁽¹⁾

Demographic Assumptions

Salary increases due to promotion and longevity	Table A-2
Retirement	Table A-3
Disability	Table A-4
Mortality ⁽²⁾ among contributing members	Table A-5
Males: PubG-2016 Employee Table for Males	
Females: PubG-2016 Employee Table for Females	
Mortality ⁽²⁾ among inactive members, service retired members and beneficiaries	Table A-5
Males: PubG-2016 Retired Mortality Table for Males	
Females: PubG-2016 Retired Mortality Table for Females	
Mortality ⁽²⁾ among disabled members	Table A-5
Males: PubG-2016 Disabled Mortality Table for Males	
Females: PubG-2016 Disabled Mortality Table for Females	
Other terminations of employment	Table A-6
Probabilities of refund on termination	Table A-7

1. Member contributions made prior to January 1, 2012 are assumed to accrue interest at 5.75%; contributions made on or after that date are assumed to accrue at 3.85%.

2. All mortality tables are generational using the MP-2021 Ultimate projection scale to reflect future mortality improvement.

Table A-2
Future Salaries – Plans 1 and 2

Years of Service	Annual Rate of Increase	
	Promotion and Longevity	Total ⁽¹⁾
0 to 1	4.25%	7.74%
1 to 2	3.25	6.71
2 to 3	2.50	5.93
3 to 4	1.75	5.16
4 to 5	1.25	4.64
5 to 6	1.00	4.38
6 to 7	0.90	4.28
7 to 8	0.80	4.18
8 to 9	0.72	4.09
9 to 10	0.65	4.02
10 to 11	0.60	3.97
11 to 12	0.55	3.92
12 to 13	0.50	3.87
13 to 14	0.45	3.82
14 to 15	0.40	3.76
15 to 16	0.35	3.71
16 to 17	0.33	3.69
17 to 18	0.31	3.67
18 to 19	0.29	3.65
19 to 20	0.27	3.63
20 to 21	0.25	3.61
21 to 22	0.25	3.61
22 to 23	0.25	3.61
23 to 24	0.25	3.61
24 to 25	0.25	3.61
25 and over	0.25	3.61

1. Total rate shown reflects compounded effect of merit increase and assumed wage growth of 3.35%.

Note: To reflect negotiated increases and market adjustments, salary increases are assumed to be 1.3% higher for the 2026 year.

Table A-3a
Retirement ⁽¹⁾

Annual Probability – Plan 1 Males						
Age	Eligible for Reduced Benefits	Eligible for Full Benefits				
	Years of Credited Service					
	All years	Less than 10 years	10-19 years	20-29 years	30 or more years	
Less than 50	0.0%	n/a	n/a	n/a	9.2%	
50	3.0	n/a	n/a	n/a	11.5	
51	3.0	n/a	n/a	n/a	11.5	
52	3.0	n/a	n/a	9.0%	11.5	
53	3.0	n/a	n/a	7.2	9.2	
54	3.0	n/a	n/a	7.2	9.2	
55	4.0	n/a	n/a	8.1	10.4	
56	4.0	n/a	n/a	8.1	10.4	
57	5.0	n/a	n/a	8.1	10.4	
58	5.0	n/a	n/a	8.1	10.4	
59	5.0	n/a	n/a	8.1	10.4	
60	5.0	n/a	n/a	9.0	11.5	
61	7.5	n/a	n/a	10.8	13.8	
62	10.0	n/a	n/a	13.5	17.3	
63	10.0	n/a	n/a	13.5	17.3	
64	10.0	n/a	n/a	16.2	20.7	
65	n/a	22.4%	25.2%	28.0	30.8	
66	n/a	22.4	25.2	28.0	30.8	
67	n/a	22.4	25.2	28.0	30.8	
68	n/a	22.4	25.2	28.0	30.8	
69	n/a	22.4	25.2	28.0	30.8	
70	n/a	22.4	25.2	28.0	30.8	
71	n/a	22.4	25.2	28.0	30.8	
72	n/a	22.4	25.2	28.0	30.8	
73	n/a	22.4	25.2	28.0	30.8	
74	n/a	22.4	25.2	28.0	30.8	
75	n/a	(2)	(2)	(2)	(2)	

1. For Plan 2, 80% of the Plan 1 retirement rates are assumed at ages less than 62. The same retirement rates for ages 62 and later are assumed for Plan 1 and 2.
2. Immediate retirement is assumed for every person age 75 or over.

Table A-3b
Retirement ⁽¹⁾

Annual Probability – Plan 1 Females						
Age	Eligible for Reduced Benefits	Eligible for Full Benefits				
	Years of Credited Service					
	All years	Less than 10 years	10-19 years	20-29 years	30 or more years	
Less than 50	0.0%	n/a	n/a	n/a	9.2%	
50	4.0	n/a	n/a	n/a	11.5	
51	4.0	n/a	n/a	n/a	11.5	
52	4.0	n/a	n/a	9.0%	11.5	
53	4.0	n/a	n/a	7.2	9.2	
54	4.0	n/a	n/a	7.2	9.2	
55	4.0	n/a	n/a	7.2	9.2	
56	4.0	n/a	n/a	7.2	9.2	
57	5.0	n/a	n/a	7.2	9.2	
58	5.0	n/a	n/a	9.0	11.5	
59	7.0	n/a	n/a	9.0	11.5	
60	7.0	n/a	n/a	9.9	12.7	
61	10.0	n/a	n/a	11.7	15.0	
62	12.0	n/a	n/a	13.5	17.3	
63	12.0	n/a	n/a	13.5	17.3	
64	12.0	n/a	n/a	16.2	20.7	
65	n/a	24.0%	27.0%	30.0	33.0	
66	n/a	24.0	27.0	30.0	33.0	
67	n/a	24.0	27.0	30.0	33.0	
68	n/a	24.0	27.0	30.0	33.0	
69	n/a	24.0	27.0	30.0	33.0	
70	n/a	24.0	27.0	30.0	33.0	
71	n/a	24.0	27.0	30.0	33.0	
72	n/a	24.0	27.0	30.0	33.0	
73	n/a	24.0	27.0	30.0	33.0	
74	n/a	24.0	27.0	30.0	33.0	
75	n/a	(2)	(2)	(2)	(2)	

1. For Plan 2, 80% of the Plan 1 retirement rates are assumed at ages less than 62. The same retirement rates for ages 62 and later are assumed for Plan 1 and 2.
2. Immediate retirement is assumed for every person age 75 or over.

Table A-4
Disability – Plans 1 and 2 ⁽¹⁾

Annual Rates		
Age	Male	Female
20	0.00%	0.00%
25	0.00	0.00
30	0.00	0.00
35	0.00	0.00
40	0.03	0.03
45	0.03	0.03
50	0.04	0.04
55	0.05	0.05
60	0.06	0.06
65	0.00	0.00

*1. It is assumed that one-third of all disabilities are duty-related and two-thirds are non-duty related.
 Only the duty-related assumption is used prior to 10 years of service.*

Table A-5
Mortality – Plans 1 and 2

Age	Annual Probability ⁽¹⁾					
	Contributing Members		Inactive Members, Members Retired for Service and Beneficiaries of Members		Disabled Members	
	Males	Females	Males	Females	Males	Females
22	0.03 %	0.01 %	0.03 %	0.01 %	0.29 %	0.08 %
27	0.05	0.02	0.05	0.02	0.32	0.11
32	0.05	0.02	0.05	0.02	0.29	0.17
37	0.06	0.03	0.06	0.03	0.32	0.26
42	0.08	0.05	0.08	0.05	0.45	0.37
47	0.12	0.07	0.12	0.07	0.67	0.57
52	0.17	0.11	0.33	0.27	1.02	0.87
57	0.27	0.16	0.50	0.33	1.56	1.32
62	0.40	0.24	0.72	0.44	2.20	1.77
67	0.57	0.37	1.04	0.67	2.53	1.98
72	N/A	N/A	1.71	1.21	3.20	2.60
77	N/A	N/A	3.12	2.27	4.91	4.24
82	N/A	N/A	5.76	4.36	7.61	6.80
87	N/A	N/A	10.54	8.23	12.06	10.35
92	N/A	N/A	18.61	14.43	19.75	15.41

Annual Projected Mortality Improvement

Age	All Groups
62 & Less	1.35 %
67	1.28
72	1.21
77	1.14
82	1.01
87	0.77
92	0.54
97	0.36
102	0.26
107	0.16
112	0.06
115	-

1. Mortality rates are those applicable for the fiscal year beginning in 2016. Annual projected improvements are assumed in the following years under the schedule shown. For example, the annual mortality rate for an 82-year-old male in the fiscal year beginning in 2026 is 5.2031% calculated as follows:

Age 82 rate in 2026 = Age 82 rate in 2016 with 10 years improvement

$$= 5.7590\% \times [(100.0\% - 1.01\%)^{10}] = 5.2031\%$$

Table A-6
Other Terminations of Employment Among Members Not Eligible to Retire – Plans 1 and 2

Years of Service	Annual Rates	
	Males	Females
0 to 1	9.0%	10.0%
1 to 2	8.0	9.0
2 to 3	7.0	8.5
3 to 4	6.0	8.0
4 to 5	5.0	7.5
5 to 6	4.5	7.0
6 to 7	4.0	6.3
7 to 8	3.7	5.7
8 to 9	3.4	5.1
9 to 10	3.1	4.5
10 to 11	2.9	4.1
11 to 12	2.7	3.8
12 to 13	2.5	3.4
13 to 14	2.3	3.1
14 to 15	2.1	2.7
15 to 16	1.9	2.4
16 to 17	1.7	2.0
17 to 18	1.5	1.7
18 to 19	1.3	1.4
19 to 20	1.1	1.2
20 to 21	0.9	1.1
21 to 22	0.8	1.0
22 to 23	0.8	0.9
23 to 24	0.7	0.8
24 to 25	0.7	0.8
25 to 26	0.6	0.7
26 to 27	0.6	0.7
27 to 28	0.5	0.6
28 to 29	0.5	0.6
30 or more	0.5	0.5

Table A-7
Probability of Refund – Plans 1 and 2

Age	Probabilities of Refund upon Termination ⁽¹⁾
25	35.0%
30	35.0
35	30.0
40	25.0
45	25.0
50	25.0
55	20.0
60	15.0

1. If service is 20 or more years at termination, probability of refund is equal to 10%.

Appendix B Provisions of Governing Law

All actuarial calculations are based upon our understanding of the provisions governing the Seattle City Employees' Retirement System, Chapter 4.36 of the Seattle City Code. The benefit and contribution provisions are summarized briefly below, along with corresponding references to the City code. This summary encompasses the major provisions of the System; it does not attempt to cover all of the detailed provisions.

Effective Date	The effective date of the retirement system was July 1, 1929. (Section 4.36.080)
Membership	
Plan 1	Employees whose membership date is prior to January 1, 2017. (Section 4.36.060)
Plan 2	Employees whose membership date is on or after January 1, 2017. (Section 4.36.060)
Members' Contribution Rate	
Plan 1	The members' contribution rate is 10.03% of salary as of January 2012. Certain members who were contributing at a lower rate on June 23, 1972 continue to contribute at a lower rate. (Section 4.36.540A)
Plan 2	The members' contribution rate is 7.00% of salary as of January 2017. (Section 4.36.540B)
Employer Contribution Rate	The employer contribution rate is the amount that is actuarially determined to be necessary to fund that portion of the retirement allowances not covered by the members' contributions. This amount shall be at least the members' contribution rate. (Section 4.36.545)
Final Compensation	
Plan 1	Final compensation is based on highest average compensation (excluding overtime) during any consecutive 52 biweekly pay periods. (Sections 4.36.040 and 4.36.050)
Plan 2	Final compensation is based on highest average compensation (excluding overtime) during any consecutive 130 biweekly pay periods. (Sections 4.36.040 and 4.36.050)
Service Retirement	
Plan 1	<i>Eligibility</i> 30 years of service; Age 52 and 20 years of service; Age 57 and 10 years of service; or Age 62 and 5 years of service. <i>Normal Form</i> Straight life benefit. <i>Optional Forms</i> Actuarial equivalent according to the mortality and interest basis adopted by the Retirement Board for such purposes.

Service Retirement
Plan 1 (continued)

Amount of Allowance

The total monthly allowance is generally 2% times final compensation times total years of creditable service.

However, if the member does not qualify in one of the following ways, the 2% factor is reduced by 0.1% for each year that retirement precedes the earliest date the member would be:

- (a) Any age with 30 years of service.
- (b) Age 52-59, providing the member's age and years of service total 80 or more.
- (c) Age 60 or older with 20 years of service.
- (d) Age 65 or older with five years of service.

The reduction is somewhat less than 0.1% for members with less than 20 years of service.

For those hired on or after January 1, 1988, creditable service excludes the first six months of service.

Maximum Allowance

The formula-based retirement allowance (as described above) of any member shall be limited to 60% of final compensation, except where the minimum allowance described below applies.

Minimum Allowance

A monthly benefit based on twice the actuarial value of accumulated member contributions. This is not subject to the 60% of final compensation maximum. (Sections 4.36.600, 4.36.605, 4.36.610, and 4.36.640)

Note: Effective January 1, 2027, the conversion of the contributions to an annuity benefit in the minimum allowance reflects option factors that use the new mortality rates adopted at the March 2026 Board meeting.

Service Retirement
Plan 2

Eligibility

Age 55 and 20 years of service;
Age 57 and 10 years of service; or
Age 60 and 5 years of service.

Normal Form

Straight life benefit

Optional Forms

Actuarial equivalent according to the mortality and interest basis adopted by the Retirement Board for such purposes.

Amount of Allowance

The total monthly allowance is generally 1.75% times final compensation times total years of creditable service.

However, if the member does not qualify in one of the following ways, the 1.75% factor is reduced by 0.07% for each year that retirement precedes the earliest date the member would be:

- (a) 55-64, providing the member's age and years of service total 85 or more.
- (b) Age 55 or older with 30 years of service.
- (c) Age 65 or older with five years of service.

The reduction is somewhat more than 0.07% for members with less than 20 years of service.

(Sections 4.36.607, 4.36.608, 4.36.610, and 4.36.640)

Disability Retirement

Plans 1 and 2

Eligibility

Ten years of service credited within the 15 years preceding disability retirement. If disability occurs in the course of City employment, there is no service requirement.

Normal Form

Modified cash refund annuity. An optional survivor's benefit is available if the spouse is the beneficiary.

Amount of Allowance

The total monthly disability allowance is the greater of:

- (a) 1.5% times final compensation times completed years of creditable service.
- (b) 1.5% times final compensation times total years of creditable service that could have been earned to age 62, but not to exceed one-third of final compensation.

Maximum Allowance

The maximum disability allowance is 60% of final compensation.

Minimum Allowance

The minimum disability allowance is \$140 per month.
(Sections 4.36.645 and 4.36.650)

Death Benefits

Plans 1 and 2

Retired Members

Death benefits to retired members are payable according to the form of retirement allowance elected.

Active Members

- (a) Payment to the beneficiary of accumulated contributions, including interest; or
- (b) If the member had completed 10 years of service at the time of death, a surviving spouse or a registered domestic partner may elect to receive, in place of (a) above, either:
 - (1) A monthly allowance for life equal to the benefit the spouse would have received had the member just retired with a 100% contingent annuitant option in force: or
 - (2) A cash payment of no more than one-half of the member's accumulated contributions, along with a correspondingly reduced retirement allowance.

(Section 4.36.680)

Withdrawal Benefits

Plans 1 and 2

Form of Payment

Payment of accumulated contributions, with interest.
(Section 4.36.665A)

**Vested Withdrawal
Benefits**

Plans 1 and 2

Eligibility
Five years of service.

Amount of Allowance
Same as service retirement benefit.

Plan 1

Benefits Commence
Age 52, if 20 or more years of service;
Age 57, if 10-19 years of service; or
Age 62, regardless of years of service.
(Section 4.36.665)

Plan 2

Benefits Commence
Age 55, if 20 or more years of service;
Age 57, if 10-19 years of service; or
Age 60, regardless of years of service.
(Section 4.36.665)

**Postretirement Benefit
Increases**

Plans 1 and 2

Provisions
Effective January 1, 2007, the City Council adopted a 65% Restoration of Purchasing Power benefit and an automatic 1.5% annual COLA to all members. If the System reaches a 100% Funding Ratio, the restoration amount increases to 70%.
(Section 4.36.615)

Death Benefit System

Plans 1 and 2

Eligibility
Mandatory for all active members; optional for retired members.

Benefits
\$2,000 upon the death of an active member or a participating retired member.

Assessment
Members pay an assessment of \$12 per year; the City pays a matching amount. If these assessments are not adequate, additional amounts may be transferred from the interest earnings in the retirement fund.
(Sections 4.36.690 and 4.36.695)

**Additional
Contributions**

Plan 1 and 2

Provisions
Members may voluntarily make contributions in excess of the regular rate; these are make-up contributions that apply only in specific situations.

Retirement Benefit
A monthly annuity which is the actuarial equivalent of accumulated additional contributions with interest.

Other Benefits
Accumulated additional contributions, with interest, generally become payable upon termination other than retirement.
(Sections 4.36.030 and 4.36.540A)

Appendix C Valuation Data

This valuation is based upon the membership of the System as of January 1, 2026. Membership data were supplied by the System and accepted for valuation purposes without audit. However, extensive tests were performed to ensure that the data are sufficiently accurate for valuation purposes.

The data for all contributing members, former contributing members, and their survivors are summarized in Table C-1.

Tables C-2 through C-4 present distributions of members receiving service retirement benefits, members receiving disability retirement benefits, and survivors receiving benefits. Shown in the tables are the numbers of persons receiving benefits, the total annual benefits received (including payments for the annual bonus), and the average annual benefit per recipient.

Table C-5 contains summaries of the data for contributing members. Values shown in the tables are the numbers of members and their total and average annual salaries.

The valuation also includes liabilities attributable to members who have terminated employment but have neither retired nor withdrawn their contributions.

Table C-1
Summary of Membership Data

	Contributing Members			Annuitants		
	Number	Annual Salaries (\$1,000)	Average Annual Salaries	Number	Annual Benefits (\$1,000)	Average Annual Benefits
January 1, 2026	10,092	\$ 1,252,516	\$ 124,110	7,894	\$ 276,766	\$ 35,060
January 1, 2025	9,855	1,181,677	119,906	7,751	265,266	34,223
January 1, 2024	9,740	1,074,451	110,313	7,616	255,157	33,503
January 1, 2023	9,309	972,622	104,480	7,513	246,224	32,773
January 1, 2022	9,045	876,375	96,893	7,317	233,448	31,905
January 1, 2021	9,287	878,168	94,562	7,123	222,649	31,258
January 1, 2020	9,440	819,738	86,833	7,029	214,193	30,473
January 1, 2019	9,388	777,619	82,831	6,792	197,256	29,042
January 1, 2018	9,284	760,987	81,968	6,534	182,794	27,976
January 1, 2017	9,151	725,580	79,288	6,382	174,933	27,411
January 1, 2016	8,882	686,748	77,317	6,223	165,836	26,650
January 1, 2015	8,746	647,800	74,068	6,019	155,597	25,852
January 1, 2014	8,603	606,888	70,548	5,880	147,145	25,026
January 1, 2013	8,465	579,396	68,449	5,742	137,836	24,006
January 1, 2012	8,430	560,412	66,476	5,580	128,645	23,056
January 1, 2011	8,599	569,472	66,225	5,428	118,920	21,909
January 1, 2010	9,071	596,892	65,802	5,304	108,886	20,529

Table C-2
Members Receiving Service Retirement Benefits as of January 1, 2026 – Inactive Lives

	<50	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+	Totals
Number of Persons	0	17	150	570	1,402	1,790	1,662	902	364	188	7,045
Annual Benefits in Thousands	\$ 0	855	7,282	24,541	53,546	66,286	59,342	28,854	10,725	4,903	256,334
Average Annual Benefits	\$ 0	50,292	48,549	43,054	38,192	37,031	35,705	31,989	29,464	26,078	36,385

Table C-3
Members Receiving Disability Retirement Benefits as of January 1, 2026 – Inactive Lives

	<50	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+	Totals
Number of Persons	2	2	3	8	14	7	3	4	1	0	44
Annual Benefits in Thousands	\$ 50	93	67	171	284	114	69	67	*	0	932
Average Annual Benefits	\$ 25,177	46,372	22,222	21,384	20,252	16,316	22,987	16,790	*	0	21,184

* Benefit amounts for groups with only one member not shown.

Table C-4
Survivors Receiving Retirement Benefits as of January 1, 2026 – Inactive Lives

	<u><50</u>	<u>50-54</u>	<u>55-59</u>	<u>60-64</u>	<u>65-69</u>	<u>70-74</u>	<u>75-79</u>	<u>80-84</u>	<u>85-89</u>	<u>90+</u>	<u>Totals</u>
Number of Persons	5	12	21	44	84	120	132	117	88	91	714
Annual Benefits in Thousands	\$ 67	251	407	1,133	2,039	3,244	3,449	3,200	2,271	2,091	18,152
Average Annual Benefits	\$ 13,342	20,897	19,358	25,753	24,275	27,035	26,125	27,350	25,809	22,983	25,422

Note: In addition, 91 survivors are receiving \$1,348,180 in Option B or Option C benefits for a certain period only.

Table C-5
Distribution of Employees and Salaries as of January 1, 2026 – Active Lives

Number of Employees - By Age Group													
Nearest Year of Service	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Totals
0	5	28	77	72	66	63	37	34	28	12	5		427
1	1	49	144	150	167	113	70	67	53	27	15	3	859
2		27	120	174	147	108	66	65	50	20	12	7	796
3-4		24	181	318	291	209	177	129	118	62	22	10	1,541
5-9		2	55	272	429	432	290	262	239	157	63	19	2,220
10-14			1	42	185	298	288	225	198	137	79	27	1,480
15-19				1	32	152	222	215	195	143	64	21	1,045
20-24						36	140	177	177	140	58	21	749
25-29						1	35	116	198	135	75	16	576
30-34								17	65	84	37	12	215
35-39									15	63	33	12	123
40+										12	28	21	61
Totals	6	130	578	1,029	1,317	1,412	1,325	1,307	1,336	992	491	169	10,092

Monthly Salaries in Thousands - By Age Group													
Nearest Year of Service	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Totals
0	\$ 17	\$ 167	\$ 574	\$ 583	\$ 624	\$ 598	\$ 340	\$ 286	\$ 218	\$ 84	\$ 46		\$ 3,536
1	*	285	1,203	1,271	1,508	1,085	637	532	396	211	27	4	7,164
2		188	1,012	1,539	1,319	1,023	613	554	450	217	98	18	7,030
3-4		181	1,480	2,887	3,006	2,049	1,818	1,342	1,137	584	198	58	14,740
5-9		16	511	2,657	4,605	4,722	3,157	2,875	2,438	1,615	541	131	23,269
10-14			*	453	2,008	3,527	3,408	2,626	2,218	1,517	877	240	16,890
15-19				*	367	1,726	2,661	2,552	2,116	1,536	682	189	11,840
20-24						415	1,645	2,043	2,059	1,512	624	181	8,477
25-29						*	391	1,489	2,346	1,530	901	162	6,838
30-34								224	816	934	416	117	2,508
35-39									193	687	351	151	1,381
40+										145	347	212	704
Totals	17	837	4,797	9,399	13,437	15,164	14,670	14,524	14,386	10,569	5,106	1,462	104,376

* If there is only one participant in a cell, the monthly salary is not reported.

Table C-5
Distribution of Employees and Salaries as of January 1, 2026 – Active Lives (continued)

Average Monthly Salaries - By Age Group

Nearest Year of Service	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Totals
0	\$ 3,373	\$ 5,954	\$ 7,451	\$ 8,091	\$ 9,450	\$ 9,497	\$ 9,188	\$ 8,419	\$ 7,798	\$ 6,968	\$ 9,153		\$ 8,280
1	*	5,820	8,353	8,470	9,028	9,604	9,107	7,936	7,464	7,798	1,772	1,198	8,340
2		6,981	8,432	8,843	8,972	9,471	9,284	8,520	8,991	10,843	8,126	2,608	8,831
3-4		7,537	8,177	9,079	10,331	9,805	10,270	10,405	9,632	9,412	8,992	5,825	9,565
5-9		8,034	9,293	9,767	10,735	10,931	10,887	10,974	10,202	10,285	8,588	6,888	10,481
10-14			*	10,792	10,853	11,834	11,833	11,672	11,201	11,070	11,100	8,875	11,412
15-19				*	11,471	11,355	11,984	11,872	10,851	10,742	10,658	9,017	11,330
20-24						11,518	11,749	11,541	11,633	10,798	10,751	8,621	11,318
25-29						*	11,184	12,839	11,849	11,332	12,011	10,110	11,872
30-34								13,196	12,560	11,125	11,233	9,747	11,664
35-39									12,859	10,898	10,629	12,556	11,226
40+										12,062	12,396	10,086	11,535
Totals	2,811	6,441	8,299	9,134	10,203	10,739	11,072	11,113	10,768	10,655	10,398	8,652	10,342

* If there is only one participant in a cell, the average monthly salary is not reported

Appendix D Glossary

The following definitions are those generally used by major actuarial organizations in the United States. In some cases, the definitions have been modified for specific applicability to the Seattle City Employees' Retirement System. Defined terms are capitalized throughout this Appendix.

Accrued Benefit

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

Actuarial Accrued Liability

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

Actuarial Assumptions

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

Actuarial Cost Method

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

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

Actuarial Present Value

The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.

Actuarial Value of Assets

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

Actuarially Equivalent

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

Amortization Payment

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

Entry Age Actuarial Cost Method

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

Funding Ratio

The Actuarial Value of Assets divided by the Actuarial Accrued Liability. May also be calculated as the Market Value of Assets divided by the Actuarial Accrued Liability, in which case it is indicated that the Funding Ratio is shown on a Market Value basis.

Funding Reserve

The excess, if any, of the Actuarial Value of Assets over the Actuarial Accrued Liability.

Normal Cost

That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

Projected Benefits

Those pension plan benefit amounts which are expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and past and anticipated future compensation and service credits.

Unfunded Actuarial Accrued Liability

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