



# Defined Benefit Program of the California State Teachers' Retirement System

June 30, 2025 Actuarial Valuation

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April 28, 2026

Teachers' Retirement Board  
California State Teachers' Retirement System

**Re: Defined Benefit Program Actuarial Valuation as of June 30, 2025**

Dear Members of the Board:

At your request, we have performed an actuarial valuation of the Defined Benefit (DB) Program of the State Teachers' Retirement Plan as of June 30, 2025. The major findings of the actuarial valuation are contained in the following report, which reflects the benefit provisions and contribution rates in effect as of the valuation date. This report satisfies all basic disclosure requirements under the Model Disclosure Elements for Actuarial Valuation Reports recommended by the California Actuarial Advisory Panel.

**Actuarial Certification**

To the best of our knowledge and belief, this report is complete and accurate and contains sufficient information to fairly disclose the funded condition of the DB Program as of June 30, 2025.

CalSTRS funding is based on complex legislation. This valuation contains analysis based on our understanding of the relevant law based on our experience working with CalSTRS and other large public retirement systems and has been augmented by consultation with CalSTRS staff.

In preparing this report, we relied, without audit, on information (oral and in writing) supplied by CalSTRS staff. This information includes, but is not limited to, statutory provisions, employee data, and financial information. In our examination of these data, we have found them to be reasonably consistent and comparable with data 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.

All costs, liabilities, rates of interest, and other factors for CalSTRS have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of CalSTRS and reasonable expectations) and which, in combination, offer a reasonable estimate of anticipated CalSTRS experience and are expected to have no significant bias. Further, in our opinion, each actuarial assumption used is reasonably related to the experience of CalSTRS and to reasonable expectations which, in combination, represent a reasonable estimate of anticipated experience.

The valuation results were developed using models employing 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. We have incorporated other sources of economic data in assessing the reasonableness of the assumptions. Reliance on other experts is reflected in Milliman's capital market assumptions, and in Milliman's expected return model maintained by Milliman investment consultants. We have also considered CalSTRS investment policy, capital market assumptions, and expected return model in our assessment of the investment return assumption.

This work product was prepared solely for CalSTRS for the purposes described herein and may not be appropriate to use for other purposes.

Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work.

Milliman recommends that third parties be aided by their own actuary or other qualified professional when reviewing the Milliman work product.

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 such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements. The Teachers' Retirement Board has sole authority to determine the actuarial assumptions and methods used for the valuation of the DB Program. The board adopted the actuarial methods and assumptions used in the 2025 valuation. There were no changes in plan provisions, assumptions, or methods that affected the 2025 DB Program valuation.

Actuarial computations presented in this report are for purposes of assessing the funding levels of CalSTRS and calculating contribution rates under CalSTRS valuation policy. The calculations in the enclosed report have been made on a basis consistent with our understanding of CalSTRS funding structure. Determinations for other purposes, such as for financial reporting in accordance with GASB standards, may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

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- (b) CalSTRS may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

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

This work product was prepared solely for CalSTRS for the purposes described herein and may not be appropriate to use for other purposes.

Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work.

Milliman recommends that third parties be aided by their own actuary or other qualified professional when reviewing the Milliman work product.

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 and 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 Standards for Actuaries Issuing Statements of Actuarial Opinion* in the United States promulgated by the American Academy of Actuaries. We are members of the American Academy of Actuaries and meet its Qualification Standards to render the actuarial opinion contained herein.


We would like to express our appreciation to the CalSTRS 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 cursive script, reading 'Nick Collier', positioned above a horizontal line.

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Consulting Actuary

A handwritten signature in cursive script, reading 'Scott Preppernau', positioned above a horizontal line.

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**1. Summary of the Findings**

The primary purpose of the actuarial valuation is to calculate the contribution rates for members, employers, and the state and to analyze the sufficiency of these future contributions to meet the current and future obligations of the Defined Benefit (DB) Program. By using the actuarial methods and assumptions adopted by the Teachers' Retirement Board (TRB), this actuarial valuation provides an estimate of the long-term financing of the DB Program. The assumptions and methods were adopted at the January 2024 board meeting, and there have been no changes to them since the last valuation.

Under the board's valuation policy (as described in the Board Governance Manual), a decrease to the state supplemental contribution rate and a decrease in the employer supplemental contribution rate beginning July 2026 have been calculated. The contribution rates calculated in this valuation are based on the relevant provisions of the Education Code and the board's valuation policy. Recent board practice has been to exercise its authority to keep the contribution rates at the current levels, which are higher than the calculated rates. This approach provides stronger funding and would be reasonable again this year given the significant amount of progress that still needs to be made for the DB Program to reach a 100% Funded Ratio.

The table below summarizes the principal results as of June 30, 2025 and June 30, 2024:

	2025 Valuation <sup>(1)</sup>		2024 Valuation
	(Calculated Under Valuation Policy)	(Board Practice: Keep State & ER at Current Level)	(Adopted)
<b>Funded Ratio</b>	79.3%	79.3%	76.7%
<b>Contribution Rates</b>	<b>Fiscal Year 2026-27 (Calculated)</b>	<b>Fiscal Year 2026-27 (Keep)</b>	<b>Fiscal Year 2025-26 (Adopted)</b>
Total State Contribution Rate <sup>(2)</sup>	7.828% <sup>(1)</sup>	8.328% <sup>(1)</sup>	8.328%
Total Employer Contribution Rate	18.100% <sup>(1)</sup>	19.100% <sup>(1)</sup>	19.100%
2% at 60 Member Contribution Rate	10.250%	10.250%	10.250%
2% at 62 Member Contribution Rate	10.205%	10.205%	10.205%

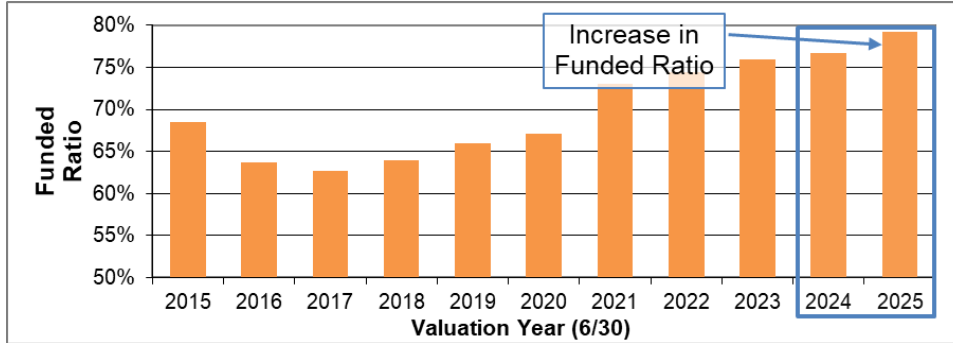
1. 2025 Valuation columns show both the calculated state and employer contribution rates under the valuation policy which are subject to adoption and possible change by the board and the rates currently being paid. Recent board practice would be to keep state and employer rates at the current levels.
2. Does not include the state contribution to fund the Supplemental Benefit Maintenance Account (SBMA).

The 1990 Unfunded Actuarial Obligation, which is allocated to the State for funding purposes, is projected to be fully amortized in the next valuation (as of June 30, 2026). It is our understanding that pursuant to §22955.1 of the Education Code, once the 1990 UAO is eliminated, the State's supplemental contribution rate—currently 6.311% of payroll—will decline to 0%. This would cause a significant decrease in contributions received by CalSTRS beginning with the 2027-28 fiscal year.

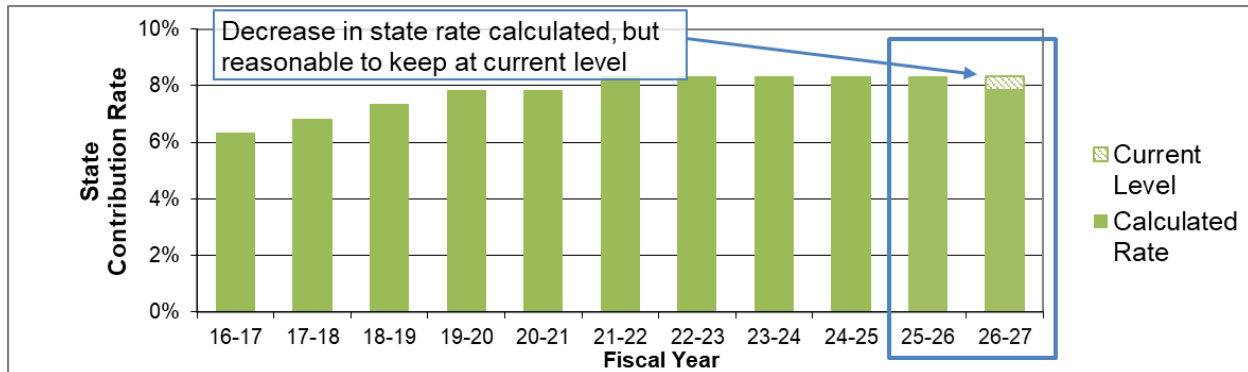
Despite this anticipated decrease, current projections indicate that CalSTRS will achieve a 100% Funded Ratio before June 30, 2046. It is important to recognize, however, that adverse future experience could re-establish a 1990 UAO. In such a scenario, annual increases to the State's supplemental rate would be capped at 0.5% (starting from a 0% supplemental rate), which could limit CalSTRS' ability to address any emerging UAO and achieve a 100% Funded Ratio by 2046.

Additional details on the key findings of this actuarial valuation are:

- The **Funded Ratio** increased from 76.7% to 79.3% primarily due to contributions made to pay down the Unfunded Actuarial Obligation in fiscal year 2024-25.

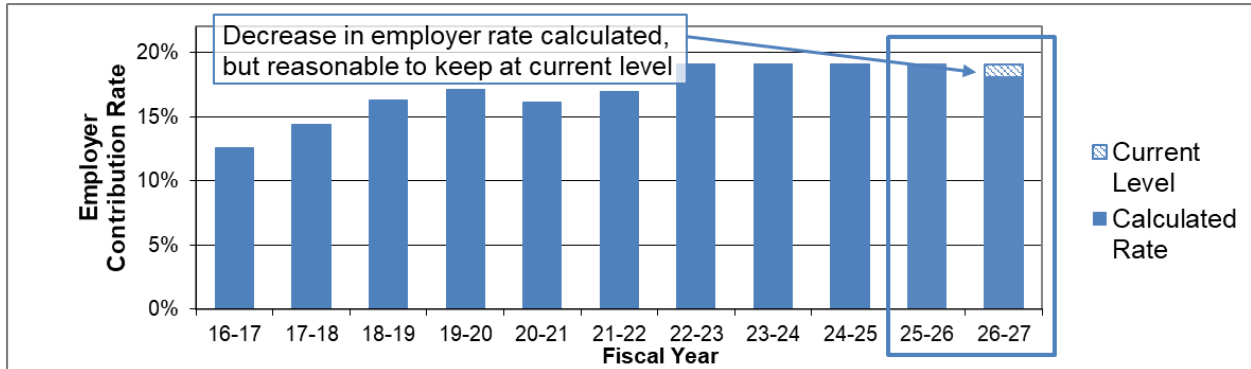


- A potential decrease in the **state supplemental contribution rate** of 0.500% of payroll from 6.311% to 5.811% of payroll (from 8.328% to 7.828% total state contribution rate excluding SBMA) has been calculated for the 2026-27 fiscal year under the board's valuation policy. This decrease is limited to 0.500% under the valuation policy. We believe it would be appropriate for the board to exercise its authority to keep the 2026-27 rate the same as the prior fiscal year (2025-26), which it has elected to do every year starting with the 2022-23 rate.



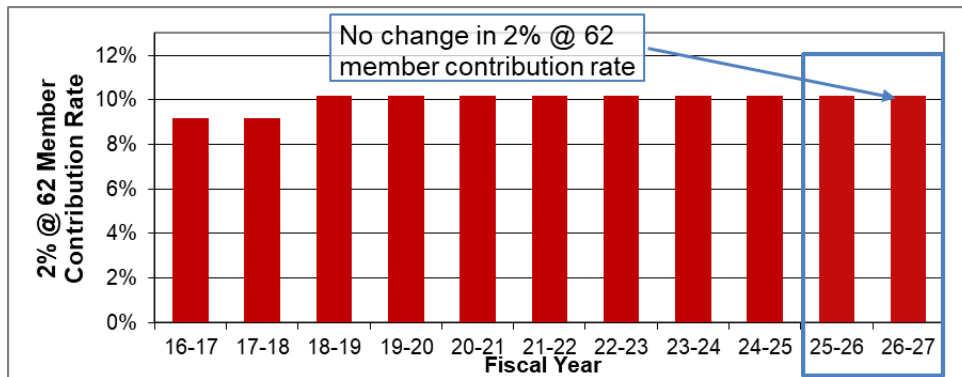
Note: The state contribution rate shown does not reflect SBMA contributions or additional lump sum contributions (if any) made in excess of the required rate. For the 2026-27 fiscal year, the rate shown in solid green bars is the calculated rate. In prior years, the actual rate contributed is shown.

- A decrease in the **employer supplemental contribution rate** from 10.850% to 9.850% of payroll has been calculated for the 2026-27 fiscal year pursuant to the board's valuation policy. Under the Education Code, the board has the discretion to adjust (or make no change to) the employer supplemental contribution rate up to 1.0% of payroll. We believe it would be appropriate for the board to exercise its authority to keep the 2026-27 rate at the same level as the prior fiscal year (2025-26), which it has elected to do every year starting with the 2021-22 rate. The total employer contribution rate is calculated to be 18.100% (19.100% if the board elects to make no change in the supplemental rate) and is comprised of the base rate, sick leave rate and supplemental rate as noted in the table in the Contribution Rates section which follows later.



Note: For the 2026-27 fiscal year, the rate shown in solid blue bars is the calculated rate. In prior years, the actual rate contributed by employers is shown.

- Based on this 2025 valuation, no change in the CalSTRS 2% at 62 **member contribution rate** is required for the 2026-27 fiscal year. The member contribution rate for 2% at 60 members is fixed in the Education Code, so no change is required for that group either.



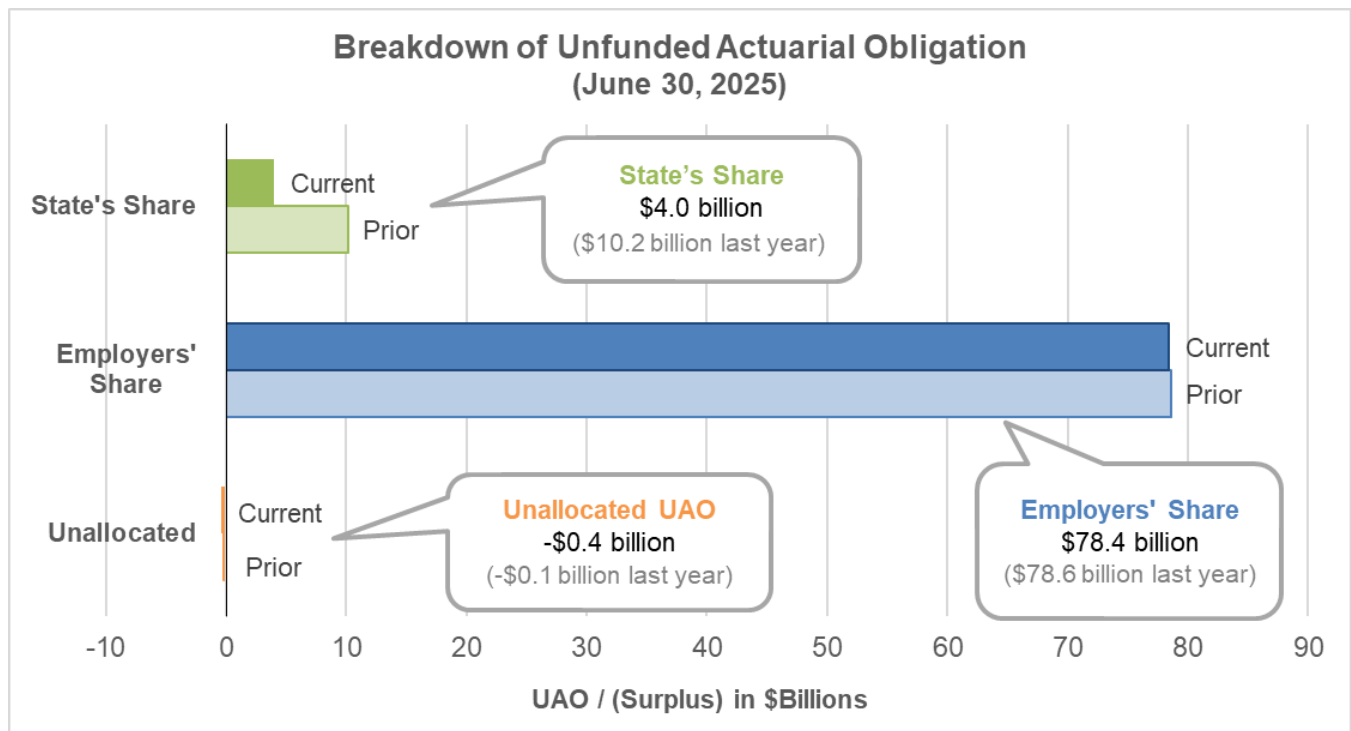
**Funding Progress**

The Unfunded Actuarial Obligation (UAO) is equal to the difference between the Actuarial Value of Assets and the Actuarial Obligation, where the Actuarial Obligation is the value of all projected future benefit payments based on service as of the valuation date under the actuarial cost method. The Funded Ratio is equal to the Actuarial Value of Assets divided by the Actuarial Obligation.

(\$ Millions)	2025 Valuation	2024 Valuation
<b>Actuarial Obligation</b>	\$ 395,525	\$ 380,507
<b>Actuarial Value of Assets</b>	<u>313,533</u>	<u>291,838</u>
<b>Unfunded Actuarial Obligation</b>	\$ 81,992	\$ 88,669
<b>Funded Ratio</b>	79.3%	76.7%

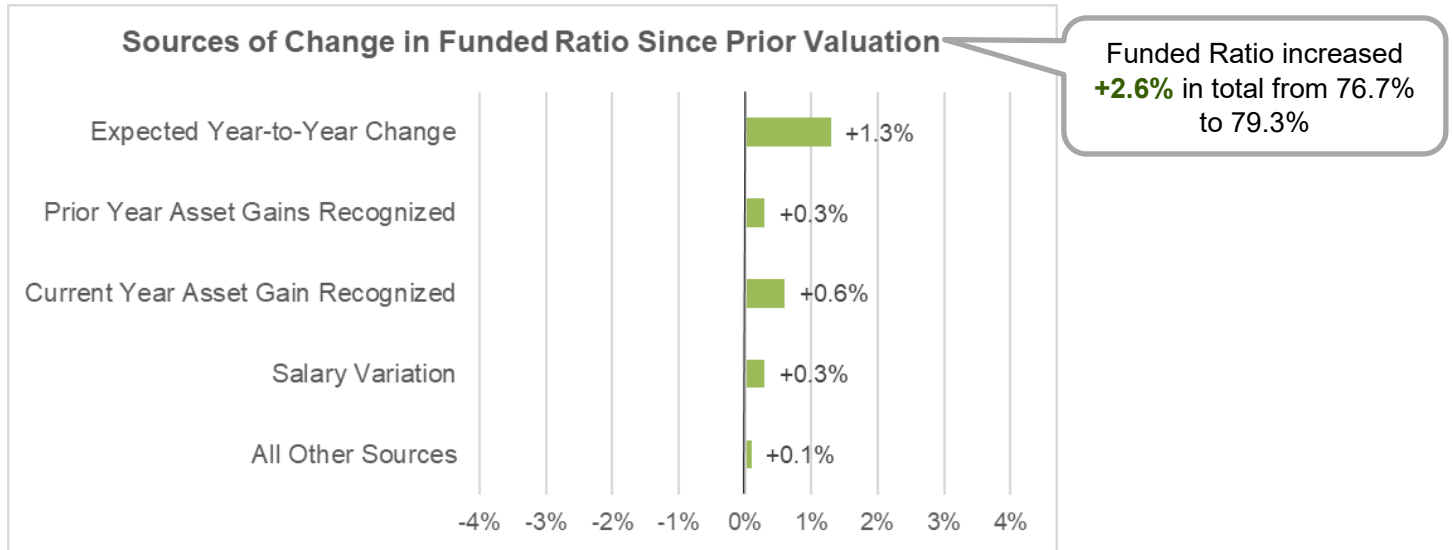
The UAO decreased from \$88.7 billion in the prior valuation to \$82.0 billion this year. A discussion of the contributing factors to the UAO change can be found in Section 5 under Actuarial Gains and Losses.

Under the valuation policy, the \$82.0 billion UAO is split into three pieces: 1) the employers' share; 2) the state's share; and 3) the unallocated piece, which has no dedicated funding source. This breakdown is shown in the following chart, with the employers' portion of the UAO being approximately 95% of the total and the state's share 5% of the total, with the small residual piece not being allocated to either the employers or the state. Note that the Unallocated UAO is a negative amount as of June 30, 2025, so it is effectively a small surplus (Actuarial Value of Assets exceed corresponding Actuarial Obligation) equal to less than 1% of the total DB Program UAO.



The chart below shows the factors that caused the 2.6% increase in the DB Program's Funded Ratio since the last valuation from 76.7% to 79.3%. The reason for the increase in the Funded Ratio was the expected year-to-year change due to contributions received under the Funding Plan to pay down the UAO along with other positive factors.

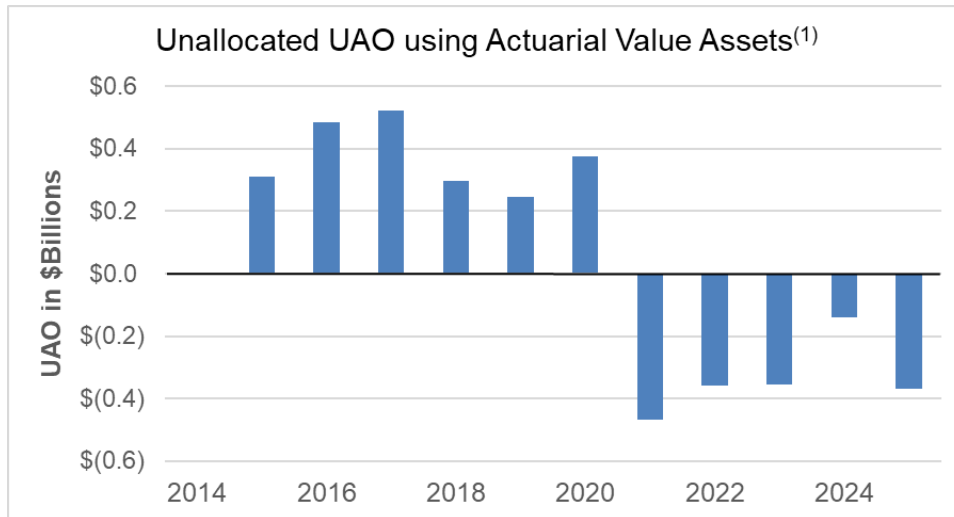
CalSTRS' funding progress has been helped over the last several years by contributions received that were above the calculated rates, and it will continue to be boosted in the 2025-26 fiscal year by actions taken by the board at the May 2025 meeting to maintain the state and employer contribution rates at levels higher than the rates calculated under the valuation policy.



**UAO for New Benefits, Post-2014 Service**

The Education Code includes actuarial funding (within certain constraints) for most of the benefits provided by CalSTRS. The one exception is that there is no provision for the state, employers, or members to fund any UAO arising for New Benefits (i.e., those not included in the 1990 Benefit Structure) attributable to service after June 30, 2014. This is referred to as the "Unallocated UAO." Under the valuation policy, a portion of each year's total contributions, equal to the Normal Cost of the New Benefits, is allocated to fund these benefits. Since the contribution is equal to the Normal Cost, there are no remaining contributions to pay down the Unallocated UAO, if any. Therefore, the Unallocated UAO will increase or decrease based on future experience.

The following table shows how the Unallocated UAO has evolved over time. The June 30, 2025 Unallocated UAO is a negative amount, so it is effectively a small surplus (actuarial assets exceeding the corresponding actuarial obligation).



1. The Unallocated UAO shown above is calculated using the Actuarial Value of Assets. It is currently a negative \$847 million based on the market value of assets.

There was an increase in the surplus (a negative UAO) for the Unallocated UAO from \$140 million as of June 30, 2024 to \$367 million as of June 30, 2025. As of June 30, 2025, the Unallocated UAO surplus is small relative to the total UAO, as it only reflects service accrued since June 30, 2014. However, as members continue to accrue benefits for service after June 30, 2014, there is the potential for the Unallocated UAO to increase (or decrease) significantly if actual experience differs materially from that assumed or if changes in assumptions occur. The primary cause of the change since last year is an asset gain due to the investment return being greater than assumed.

As previously discussed, there is currently no dedicated funding to pay off the Unallocated UAO. However, due to the strong return for the 2020-21 fiscal year, a small surplus materialized in the June 30, 2021 valuation, as the assets related to the Unallocated UAO exceeded the related Actuarial Obligation. As of this valuation, there continues to be a small surplus for the Unallocated UAO, so no additional funding is currently needed, although this could change in the future. It would be prudent from a funding policy perspective to have dedicated funding to pay down the Unallocated UAO in case it moves to a deficit position; however, it is our understanding no provision in the Education Code currently exists to address this.

**Contribution Rates**

The following table shows a summary of the contribution rates currently being paid (2025-26 fiscal year, reflecting the rates adopted by the board) and those calculated to be paid next year (2026-27 fiscal year) under the valuation policy. As previously noted, it would be reasonable for the board to maintain the current state and employer supplemental contribution rates given the significant Unfunded Actuarial Obligation that still exists.

Source of Revenue	2025 Valuation FY 26-27 Rate (Calculated)	2024 Valuation FY 25-26 Rate (Actual Rate)
Employers – Base Rate	8.000 %	8.000 %
Employers – Sick Leave	0.250	0.250
Employers – Supplemental Rate <sup>(1)</sup>	9.850	10.850
<b>Employers – Total Calculated Rate</b>	<b>18.100</b>	<b>19.100</b>
State – Base Rate	2.017 %	2.017 %
State – Supplemental Rate <sup>(1)</sup>	5.811	6.311
<b>State – Total DB Program</b>	<b>7.828</b>	<b>8.328</b>
State – SBMA Rate <sup>(2)</sup>	2.500	2.500
<b>State – Total Contribution to CalSTRS</b>	<b>10.328</b>	<b>10.828</b>
Members – 2% at 60	10.250 %	10.250 %
Members – 2% at 62	10.205	10.205

1. Fiscal year 2026-27 supplemental contribution rates are those calculated based on the valuation policy and subject to board adoption. Fiscal year 2025-26 supplemental contribution rates are those that were adopted by the board.
2. The state contribution to fund the Supplemental Benefit Maintenance Account (SBMA) is reduced by \$72 million each fiscal year.

The Education Code includes several subsections which provide for potential adjustments in contribution rates. EC §22955.1 addresses annual adjustments in the supplemental state contribution rates. The board has the authority to annually adjust the state contribution rate for years through June 30, 2046, so that the rate is sufficient to amortize the UAO attributable to the 1990 contribution and benefit structure. However, the maximum increase or decrease in a given year is limited to 0.5% of payroll under the valuation policy. In any year when there is no UAO for the 1990 contribution and benefit structure, the state supplemental contribution rate will be reduced to zero in the next fiscal year.

EC §22950.5 specifies the board has the authority to annually adjust the employer supplemental contribution rate based on the contribution rate necessary to amortize the UAO attributable to service prior to July 1, 2014 that is not funded by the state as part of the 1990 Benefit Structure. However, the maximum increase or decrease in a given year is limited to 1.0% of payroll and the total employer contribution rate cannot exceed 20.25% of payroll.

EC §22901 and EC §22901.7 address member contribution rate levels. The 2% at 60-member rate is fixed at 10.250% of pay. The 2% at 62-member rate, currently 10.205% of pay, can vary depending on the calculated Normal Cost Rate as discussed later in this section.

### Actuarially Determined Contribution

The actuarially determined contribution is the contribution (net of member contributions) to a defined benefit pension plan calculated based on the plan's funding policy. For CalSTRS, the actuarially determined contribution rate is the calculated level contribution rate to fully fund the DB Program over a closed period ending June 30, 2046. For GASB 67 and 68 reporting, the actuarially determined contribution is the combined employer and state portion of that contribution. For the 2026-27 fiscal year, the actuarially determined contribution rate (net of the member contribution rate) for the DB Program is the level rate calculated in the June 30, 2025 actuarial valuation and is equal to 21.271% of payroll. Assuming the board maintains the current state and employer contribution rates in the following year, the projected contribution rate for the 2026-27 fiscal year of 27.003% (combined state and employer) is about 127% of the actuarially determined contribution rate.

### Normal Cost Rate for CalSTRS 2% at 62 Members

As part of the annual valuation process, the Normal Cost Rate is calculated for CalSTRS 2% at 62 members, generally those first hired on or after January 1, 2013. The Normal Cost Rate is used as the basis for setting the base member contribution rate for this group for the following fiscal year, the 2026-27 fiscal year for this valuation. Generally, the base member contribution rate is one-half of the Normal Cost Rate, within certain parameters.

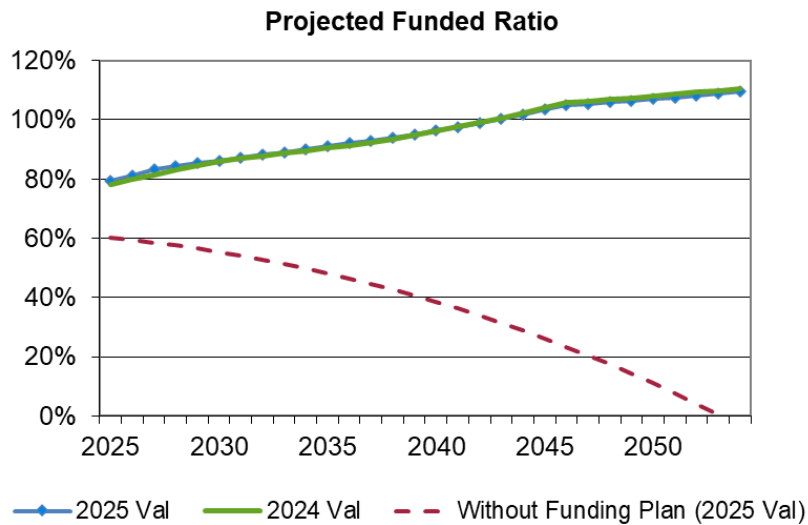
EC §22901(b)(1) requires the board to adopt the Normal Cost Rate that is used to determine the 2% at 62 member contribution rate. As of June 30, 2025, the Normal Cost Rate for the CalSTRS 2% at 62 members is 18.345%. We recommend the board adopt this rate. The Normal Cost Rate for the current valuation is an increase of 0.058% from the prior valuation Normal Cost Rate of 18.287%.

EC §22901(b)(2) specifies that the CalSTRS 2% at 62 base member contribution rate does not change if the increase or decrease in the Normal Cost Rate for members is less than 1% of creditable compensation since the last adjustment. This year, the cumulative change is an increase in the Normal Cost Rate of 0.452%, from 17.893% (the time of the last adjustment) to 18.345% for this group. The cumulative change is less than 1%, so the current base member contribution rate should remain at the current rate of 9.00% for 2% at 62 members based on the relevant section of the Education Code.

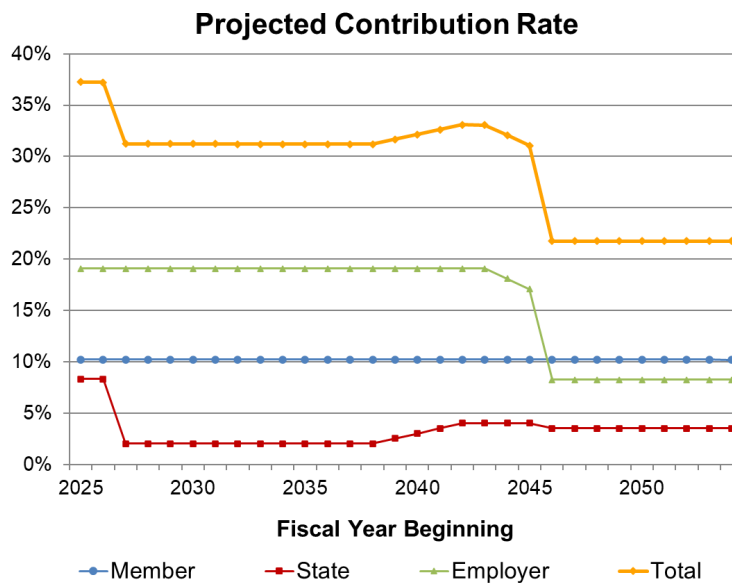
Note that under EC §22901.7(b) 1.205% of pay is added to the base member rate. Therefore, as of July 1, 2026, the total member contribution rate for 2% at 62 members continues to be 10.205% (9.00% plus the 1.205% additional contribution rate).

### Looking Ahead

The following projection shows the Funded Ratio if the DB Program assets at market value earn 7.00% in each future year, the board continues its practice of maintaining the current state and employer contributions until the associated UAO is paid off ("board practice"), and all other assumptions are met. As shown in the graph, the DB Program is projected to reach 100% funding prior to 2046 based on the 2025 valuation (blue line). Future Funded Ratios are projected to be very similar to those projected by the 2024 valuation (green line). Note that we have also shown a hypothetical projection of the funded status based on the 2025 valuation but without the 2014 funding legislation (red line). See the end of this subsection for a summary of the assumptions on which these projections are based.



The following graph shows the projected contribution rates for each of the stakeholder groups, and in total, assuming all valuation assumptions are met in the future and the board continues its practice of maintaining the state and employer contribution rates at the current level until the associated UAO is paid off. Note that the actual contribution rates paid in the future will likely vary based on how actual experience differs from the assumptions subsequent to the valuation date and decisions made by the board under their limited rate-setting authority. The contribution rates shown include both the base and supplemental contribution rates, but do not reflect the state contribution to the Supplemental Benefit Maintenance Account (SBMA).



The above graph shows that member contribution rates are projected to remain approximately level as the 2% at 60 members and the 2% at 62 members who are replacing them have roughly the same contribution rate. The employer contribution rate is projected to remain at the same level through fiscal year 2043-44. Starting in fiscal year 2044-45, the employer contribution rate is projected to decrease as the employer share of the UAO is expected to be eliminated by June 30, 2043. The state contribution rate is projected to have a big decrease around 2027 as the state supplemental contribution rate goes to 0.00% when the 1990 UAO is projected to be paid off. The state contribution rate is then projected to gradually increase several years later as the Normal Cost rate for the 1990 Benefit Structure exceeds the 1990 Contribution rate (without any supplemental contribution) causing a UAO to emerge. As described below, these projections are based on all assumptions being met in the future, which is virtually certain not to be the case, so actual results will vary from those shown.

Asset gains and losses will generally have the largest year-to-year impact on the total contribution rates needed, although assumption changes can cause a significant change in the years in which they occur. Under the statute, as reflected in the valuation policy, the impact of asset gains and losses will tend to have a much more significant impact on the state contribution rate than the employer contribution rate. Therefore, the state contribution rate will tend to be more volatile than the employer contribution rate, as shown in Section 10 subsection "Projections Under Alternate Return Scenarios." To the extent the board maintains current state and employer contribution levels, this should reduce or possibly eliminate potential year-to-year contribution rate volatility, at least in the short term, with the exception of the significant drop projected in the State rate in 2027.

The above projection calculations are based on the following assumptions:

- All experience subsequent to the valuation date is consistent with the valuation assumptions, as described in Appendix B.
- Future changes in the state and employer supplemental contribution rates will be consistent with prior board practice of maintaining the state and employer contribution rate at the current level until the associated UAO is paid off. Consistent with the board's valuation policy, the state supplemental rate is based on funding the UAO by 2046, a year which is not defined in statute.
- Current deferred asset gains and losses (currently a net deferred gain) are reflected in the future as they are expected to be recognized in the asset smoothing method.
- The projection assumes new members will have the same Normal Cost Rate as the current 2% at 62 members. The emerging Normal Cost Rate for the total plan will gradually decrease over time due to the lower benefits provided for 2% at 62 members.

### Future Variance

The results of any actuarial valuation are based on a set of assumptions. Although we believe the current DB Program assumptions provide a reasonable estimate of future expectations, it is almost certain that future experience will differ from the assumptions to some extent. We have provided a general discussion of the potential risks to CalSTRS funding in Section 10, as well as additional analysis on the potential impact of future investment returns on the Funded Ratio and contribution rates. A more comprehensive analysis of potential risks to future DB Program funding levels ("Review of Funding Level and Risks") is completed each fall by CalSTRS internal actuarial staff.

### Summary Results and Further Information

The exhibit on the following page presents a summary of key valuation elements as of June 30, 2025 and June 30, 2024 and shows the relative change over the past year.

Details of our findings are included in later sections of this report. The appendices include supporting documentation on the benefit and eligibility provisions used to project future benefits, the actuarial methods and assumptions used to value the projected benefits, and the underlying census data provided by CalSTRS for this valuation.

Summary of Key Valuation Results

	2025 Valuation	2024 Valuation	Percent Change
<b>1. Total Membership</b>			
A. Active Members	471,044	467,449	0.8 %
B. Inactive Members	244,419	239,442	2.1 %
C. Retired Members and Beneficiaries	338,712	333,410	1.6 %
D. Total Membership	1,054,175	1,040,301	1.3 %
<b>2. Payroll as of Valuation Date (All Members)</b>			
A. Annual Total (\$Millions)	\$ 43,591	\$ 42,234	3.2 %
B. Annual Average Earned Salary per Active Member	\$ 92,542	\$ 90,349	2.4 %
<b>3. Average Annual Allowance Payable</b>			
A. Service Retirement	\$ 59,400	\$ 57,864	2.7 %
<b>4. Actuarial Obligation (\$Millions)</b>			
A. Active Members	\$ 185,931	\$ 178,345	4.3 %
B. Inactive Members	10,637	10,098	5.3 %
C. Retired Members and Beneficiaries	198,772	191,865	3.6 %
D. Existing MPP Program Unfunded Obligation	185	199	(7.0) %
E. Total	\$ 395,525	\$ 380,507	3.9 %
<b>5. Value of System Assets (\$Millions)</b>			
A. Fair Market Value	\$ 349,525	\$ 321,910	8.6 %
B. Deferred Investment (Gains) or Losses	(6,954)	(3,137)	
C. Actuarial Value	\$ 342,571	\$ 318,773	7.5 %
D. Ratio of Actuarial Value to Fair Value	98%	99%	
E. Less SBMA Reserve	(29,038)	(26,935)	7.8 %
F. Net Actuarial Value	\$ 313,533	\$ 291,838	7.4 %
<b>6. Funded Status -- Actuarial Value Basis</b>			
A. Unfunded Actuarial Obligation (\$Millions)	\$ 81,992	\$ 88,669	(7.5) %
B. Funded Ratio ( 5F ÷ 4E )	79.3%	76.7%	
<b>7. Normal Cost Rates (percent of salaries)</b>			
A. CalSTRS 2% at 60 Members	20.982%	20.999%	(0.1) %
B. CalSTRS 2% at 62 Members	18.345%	18.287%	0.3 %
C. All Members	20.044%	20.112%	(0.3) %
<b>8. Next Fiscal Year Contribution Rates (percent of salaries)<sup>(1)</sup></b>			
A. 2% at 60 Members	10.250%	10.250%	- %
B. 2% at 62 Members	10.205%	10.205%	- %
C. State Supplemental Rate	5.811%	6.311%	(7.9) %
D. Employer Supplemental Rate	9.850%	10.850%	(9.2) %
<b>9. Funded Status -- Market Value Basis</b>			
A. Unfunded Actuarial Obligation (\$Millions) [4E - (5A + 5E)]	\$ 75,038	\$ 85,532	(12.3) %
B. Alternate Funded Ratio (Based on Market Value of Assets)	81.0%	77.5%	

1. Prior valuation rates are contribution rates actually being paid in fiscal year 2025-26, and current valuation rates are those calculated for fiscal year 2026-27 under the valuation policy which are subject to adoption and possible change by the board. Board practice would be to maintain state and employer rates at the current levels.

## 2. Scope of the Report

This report presents the actuarial valuation of the DB Program of the State Teachers' Retirement Plan as of June 30, 2025. A summary of the key results of this valuation is presented in the previous section. The remainder of this report is arranged as follows:

**Section 3** describes the benefit obligations of CalSTRS, including the development of the Normal Cost and the Actuarial Obligation.

**Section 4** outlines the Fair Market Value of Assets of the DB Program and the determination of the Actuarial Value of Assets as of June 30, 2025. All of the assets of the Program are available to finance future DB Program benefits and expenses, except those allocated for the Supplemental Benefit Maintenance Account (SBMA).

**Section 5** shows the relationship between the Actuarial Value of Assets and the Actuarial Obligation, also called the Funded Ratio.

**Section 6** discusses the calculations used to determine the state supplemental contribution rate in accordance with EC §22955.1(b). The key elements of this calculation pertain to an evaluation of the assets and obligations associated with the benefits in effect in 1990. A potential adjustment to the state supplemental rate is calculated based on this valuation and effective with the 2026-27 fiscal year.

**Section 7** discusses the calculations used to determine the employer supplemental contribution rate in accordance with EC §22950.5. The key elements of this calculation are parallel to the funding valuation, except the assets and obligations are those associated with the benefits earned prior to July 1, 2014. A potential adjustment to the employer supplemental rate is calculated based on this valuation and effective with the 2026-27 fiscal year.

**Section 8** discusses the calculation of the actuarially determined contribution.

**Section 9** shows the projected UAO payment schedule and a comparison of the projected contributions and benefit payments for the DB Program.

**Section 10** provides a general discussion of the potential risks to CalSTRS funding.

This report includes several appendices:

**Appendix A** is a summary of the current benefit structure, as determined by the provisions of governing law on June 30, 2025.

**Appendix B** is a summary of the actuarial methods and assumptions used to estimate actuarial obligations and the funding sufficiency. In our opinion, the assumptions used in the valuation are reasonably related to the past experience of the DB Program, are internally consistent, and represent a reasonable estimate of future conditions affecting the DB Program. Nevertheless, the emerging costs of the DB Program will vary from those presented in this report to the extent that actual experience differs from that projected by the actuarial assumptions.

**Appendix C** includes schedules of valuation data classified by various categories of plan members. We relied upon the membership and beneficiary data supplied by CalSTRS. We compared the data for this and the prior valuation and tested for reasonableness. Based on these tests, we believe the data to be sufficient for the purposes of our calculations.

**Appendix D** is a glossary of actuarial terms used in this report.

### 3. Actuarial Obligation

In this section, the discussion will focus on the commitments of CalSTRS for retirement benefits, which are referred to as its Actuarial Obligation.

#### Normal Cost

The **Normal Cost** represents the cost assigned to an average member for a given year such that it would meet the continuing costs of a particular benefit if contributed each year starting with the date of membership. The Entry Age Cost Method is designed to produce a Normal Cost that remains a level percentage of payroll (payroll is calculated as the sum of the expected creditable compensation for the active members) and is expressed as a rate of compensation. Normal Cost contributions are assumed to be contributed uniformly throughout the year.

The total DB Program Normal Cost Rate has decreased from 20.112% to 20.044% since the last valuation. This rate represents a blended average of the Normal Cost Rates for the 2% at 60 and 2% at 62 members. **Table 1** provides more details on the calculation of the Normal Cost and Normal Cost Rate.

In general, the Normal Cost Rate is expected to remain fairly stable as a percentage of payroll as long as the benefit provisions are not amended, the assumptions are not changed, membership experience emerges as assumed, and the demographic characteristics of the membership remain reasonably consistent. CalSTRS can expect modest decreases in the Normal Cost Rate as 2% at 60 members leave active employment and are replaced by new 2% at 62 members with lower benefit levels. The Normal Cost Rate decreased since last year mainly due to the increasing membership of CalSTRS 2% at 62 members who have a lower overall Normal Cost Rate than the 2% at 60 members. We expect small decreases in the overall Normal Cost Rate to emerge in future years if assumptions are unchanged.

Primarily because of different benefit formulas, the CalSTRS 2% at 62 members have lower Normal Cost Rates compared to the 2% at 60 members, as shown below for the 2025-26 fiscal year.

(\$ Millions)	2% at 60 Members	2% at 62 Members	Proportion 2% at 62
Projected Payroll	\$ 28,181	\$ 17,502	38.3%
Normal Cost <sup>(1)</sup>	5,913	3,211	35.1%
Normal Cost Rate	20.982%	18.345%	NA

*1. The Normal Cost dollar amount is based on the total projected payroll for the 2025-26 fiscal year including new entrants who will replace members who are expected to leave active employment during the year. This differs from the Normal Cost amounts shown in Table 1, which are based on projected payroll for current active members only.*

#### Normal Cost Rate for CalSTRS 2% at 62 Members

As part of the annual valuation process, we determine the Normal Cost Rate for CalSTRS 2% at 62 members, generally those first hired on or after January 1, 2013. The Normal Cost Rate is used as the basis for setting the base member contribution rate for this group for the following fiscal year, the 2026-27 fiscal year for this valuation. Generally, the base member contribution rate is one-half of the Normal Cost Rate within certain parameters.

EC §22901(b)(1) requires the board to adopt the Normal Cost Rate that is used to determine the 2% at 62-member contribution rate. As of June 30, 2025, the Normal Cost Rate for the CalSTRS 2% at 62 members is 18.345%. We recommend the board adopt the rate of 18.345%.

EC §22901(b)(2) specifies that the CalSTRS 2% at 62 base member contribution rate does not change if the increase or decrease in the Normal Cost Rate for members is less than 1% of creditable compensation since the last adjustment. This year, the cumulative change is an increase in the Normal Cost Rate of 0.452%, from 17.893% (the time of the last adjustment) to 18.345% for this group. The cumulative change is less than 1%, so the current base member contribution rate should remain at the current rate of 9.00% for 2% at 62 members based on the relevant section of the Education Code.

Note that increases under EC §22901.7(b) are added to the base member rate. Therefore, effective July 1, 2026, the calculated total member contribution rate for 2% at 62 members continues to be 10.205% (9.00% plus the 1.205% additional contribution rate).

### Actuarial Obligation

The next step in the actuarial valuation process is to project all future DB Program benefit payments for current members and retirees. The level of benefits currently being paid is known, but assumptions are needed to estimate how long they will be paid, and the amount and timing of the payment of future benefits for active and inactive members who are not currently receiving payments. The summation of the discounted values of all projected benefit payments for all current members at the assumed rate of return is called the **Actuarial Present Value of Projected Benefits**.

Details are shown in **Table 2** and summarized below.

(\$ Millions)	2025 Valuation	2024 Valuation
Benefits Being Paid	\$ 198,772	\$ 191,865
Inactive Deferred Benefits	10,637	10,098
Active Member Benefits	289,835	280,187
Existing MPPP Unfunded Obligation	185	199
Present Value of Projected Benefits	\$ 499,429	\$ 482,349
Present Value of Future Normal Costs	103,904	101,842
Actuarial Obligation	\$ 395,525	\$ 380,507

Note that the actuarial present value of projected benefits for the DB Program includes an additional amount equal to the existing unfunded obligation for the Medicare Premium Payment (MPP) Program. The Teachers' Retirement Board has established a policy of allocating funds for future costs associated with the Teachers' Health Benefits Fund (THBF). This policy was revised in April of 2009 to make a one-time credit to the THBF and "true up" the future MPP Program obligations (payable from the THBF) in the funding of the DB Program. As of June 30, 2025, only an amount to cover approximately a month of payments resides in the THBF, while the remaining unfunded obligation of \$185 million is added to the DB Program obligation.

The **Actuarial Present Value of Future Normal Costs** is the value of all remaining Normal Costs expected to be received over the future working lifetime of current active members. The **Actuarial Obligation** is the difference between the Actuarial Present Value of Projected Benefits and the Actuarial Present Value of Future Normal Costs. The assets would equal the Actuarial Obligation if the current Normal Cost Rate had been paid for all members since entry into the Program, and if all experience had emerged as assumed.

Over time, 2% at 62 members will account for a larger portion of the Actuarial Obligation; however, as of this valuation, only 9.5% of the Actuarial Obligation for active members is for the 2% at 62 members (up from 7.9% last year).

(\$ Millions)	2% at 60 Members	2% at 62 Members	Proportion 2% at 62
Active PVB	\$ 220,713	\$ 69,122	23.8%
Active PVFNC	52,373	51,531	49.6%
Active AO	\$ 168,340	\$ 17,591	9.5%

**Table 1**  
**Normal Cost**

(\$ Millions)	June 30, 2025 Valuation			2024 Val
	2% at 60	2% at 62	Total	Total
Estimated Annual Earned Salaries <sup>(1)</sup>	\$ 28,181	\$ 15,508	\$ 43,689	\$ 42,397
Present Value of Future Normal Costs for Current Active Members	\$ 52,373	\$ 51,531	\$ 103,904	\$ 101,842
Present Value of Future Earned Salaries for Current Active Members	\$ 250,760	\$ 288,751	\$ 539,511	\$ 526,287
<b>Normal Cost</b>				
Service Retirement	\$ 5,394	\$ 2,549	\$ 7,943	\$ 7,737
Deferred Retirement & Refund	298	163	461	447
Death	41	20	61	60
Disability	179	113	292	283
Total Normal Cost	\$ 5,912	\$ 2,845	\$ 8,757	\$ 8,527
<b>Normal Cost Rate</b>				
<b>Percent of Payroll</b>				
Service Retirement	19.141 %	16.436 %	18.181 %	18.248 %
Deferred Retirement & Refund	1.061	1.051	1.055	1.054
Death	0.145	0.129	0.140	0.142
Disability	0.635	0.729	0.668	0.668
<b>Total Normal Cost Rate</b>	<b>20.982 %</b>	<b>18.345 %</b>	<b>20.044 %</b>	<b>20.112 %</b>

1. Annual pay for current active members expected to be earned in the year following the valuation date, excluding active members over age 75 on the valuation date who are assumed to retire immediately and therefore do not generate a Normal Cost.

**Table 2**  
**Actuarial Obligation**

(\$ Millions)	June 30, 2025 Valuation			2024 Val
	2% at 60	2% at 62	Total	Total
Present Value of Projected Benefits to All Current Members				
Benefits Currently Being Paid				
Service Retirement	\$ 183,923	\$ 149	\$ 184,072	\$ 177,647
Disability	3,951	46	3,997	3,987
Survivors <sup>(1)</sup>	10,692	11	10,703	10,231
Total	\$ 198,566	\$ 206	\$ 198,772	\$ 191,865
Benefits to Inactive Members	9,772	865	10,637	10,098
Benefits to Active Members <sup>(1)</sup>				
Retirement	\$ 213,552	\$ 62,927	\$ 276,479	\$ 267,190
Disability	3,839	2,693	6,532	6,300
Death	922	456	1,378	1,347
Deferred Retirement & Refund	2,400	3,046	5,446	5,350
Total	\$ 220,713	\$ 69,122	\$ 289,835	\$ 280,187
Existing MPP Program				
Unfunded Obligation	185	-	185	199
Total Present Value of Projected Benefits	\$ 429,236	\$ 70,193	\$ 499,429	\$ 482,349
Present Value of Future Normal Costs				
	52,373	51,531	103,904	101,842
<b>Actuarial Obligation</b>	<b>\$ 376,863</b>	<b>\$ 18,662</b>	<b>\$ 395,525</b>	<b>\$ 380,507</b>

1. The post-retirement lump sum death benefit for current retirees is included with the survivor liability. For current active members, the value of the post-retirement lump sum death benefit is included with the cause of leaving active employment.

#### 4. Valuation Assets

In many respects, an actuarial valuation can be thought of as an inventory process. The inventory is taken as of the actuarial valuation date which, for this valuation, is June 30, 2025. On that date, the assets available for the payment of retirement benefits are appraised.

The next step in the valuation process is to calculate the **Actuarial Value of Assets** that will be used to determine the funding status of the Program. As shown in **Table 3**, the Fair Market Value (adjusted from the accounting value to account for pre-recognized GASB expenses) was reported as \$349,525 million as of June 30, 2025, up from \$321,910 million as of June 30, 2024. **Table 4** shows the asset changes for the period. **Table 5** summarizes the assets separated by funding group.

#### Valuation Assets

Because the underlying calculations in the actuarial valuation are long term in nature, it may be advantageous to use an asset smoothing method to lessen the impact of short-term fluctuations in the value of assets. This is particularly true given that the supplemental state and employer contribution rates are determined based on the applicable funded status.

The asset smoothing method uses a projection of the expected Actuarial Value of Assets from the Actuarial Value of Assets as of the previous year based on the assumed rate of investment return and the net cash flow during the year. The projection then recognizes one-third of the difference between the expected value and the Fair Market Value as of the valuation date to arrive at the Actuarial Value of Assets. The calculation of the Actuarial Value of Assets is shown in **Table 6** and the result is shown below.

(\$ Millions)	2025 Valuation	2024 Valuation
<b>Fair Market Value (FMV)</b>	\$ 349,525	\$ 321,910
<b>Actuarial Value of Assets (AVA)</b>	342,571	318,773
<b>Deferred Investment Gains or (Losses)</b>	\$ 6,954	\$ 3,137
Ratio of AVA to FMV	98.0%	99.0%

Due to the asset smoothing method, there are investment gains of \$6,954 million that have not yet been recognized (the difference between the Actuarial and Fair Market Value of Assets). Absent investment returns in future years less than the assumed rate to offset the deferred investment gains, the current deferred gains will gradually be reflected in the Actuarial Value of Assets.

If the future returns on the Fair Market Value of Assets are 7.00% each year, then as the current deferred gains flow through the smoothing method and are recognized, future valuations will show an actuarial gain. The result will be a gradual increase in the DB Program's funded status, ultimately decreasing the UAO by the \$6,954 million of currently deferred investment gains.

**Table 7** shows a history of the Actuarial Value of Assets compared to the Fair Market Value of Assets.

**Table 3**  
**Statement of Program Assets**

(\$ Millions)	June 30, 2025	June 30, 2024
<b>Invested Assets</b>		
Cash	\$ 1,091	\$ 1,029
Debt Securities	70,385	59,217
Equity Securities	140,079	130,283
Alternative Investments	143,557	135,864
Derivative Instruments	623	351
Bond Proceeds Investment	12	13
Total Investments	<u>\$ 355,747</u>	<u>\$ 326,757</u>
<b>Receivables</b>	12,316	11,978
<b>Liabilities Net of Securities Lending Collateral</b>	(19,139)	(17,419)
<b>Net Deferred (Inflows) and Outflows</b>	(84)	(149)
<b>Exclude Net Pension and OPEB Obligation</b>	685	743
<b>Fair Market Value of Net Assets</b>	<u>\$ 349,525</u>	<u>\$ 321,910</u>

**Table 4**  
**Statement of Changes in Program Assets**

(\$ Millions)	June 30, 2025	June 30, 2024
<b>Contributions</b>		
Members	\$ 4,590	\$ 4,515
Employers	8,504	8,366
State of California	4,264	3,946
Total Contributions	17,358	16,827
<b>Benefits and GASB Adjustments</b>		
Retirement, Death and Survivors	(18,415)	(17,750)
Refunds of Member Contributions	(117)	(115)
Purchasing Power Benefits	(696)	(636)
Change in GASB Adjustments	(58)	(66)
Total Benefits and GASB Adjustments	(19,286)	(18,567)
<b>Net Cash Flow</b>	<b>\$ (1,928)</b>	<b>\$ (1,740)</b>
<b>Investment Income</b>		
Realized Income	\$ 7,754	\$ 6,581
Net Appreciation	22,551	18,600
Net Securities Lending Income	(46)	(102)
Investment Expenses	(848)	(769)
Administrative & Other Expenses	(245)	(199)
Other (Expense) Income	377	391
Net Investment Return	29,543	24,502
<b>Net Increase (Decrease)</b>	<b>\$ 27,615</b>	<b>\$ 22,762</b>
<b>Fair Market Value of Net Assets</b>		
Beginning of Year	321,910	299,148
<b>End of Year</b>	<b>\$ 349,525</b>	<b>\$ 321,910</b>
Estimated Net Rate of Return <sup>(1)</sup>	9.2%	8.2%

1. Estimated return on a Fair-Market-Value basis on all DB Program assets (including SBMA), net of all investment expenses, gross of administrative expenses, and assuming uniform cash flow throughout the year. This number may differ from the money-weighted return reported by CalSTRS. The estimated return for the fiscal year 2024-25 excluding SBMA assets was 9.4%.

**Table 5**  
**Market Value of Assets by Funding Group**

(\$ Millions)	June 30, 2025					June 30, 2024
	SBMA	1990 Benefit Structure	Pre-2014 New Benefits	Post-2014 New Benefits	Total DB Program	Total DB Program
<b>Market Value, beginning of year</b>	\$ 26,935	\$ 308,216	\$ (32,790)	\$ 19,549	\$ 321,910	\$ 299,148
<b>Member Contributions<sup>(1)</sup></b>						
Regular at 8.000% (EC §22901(a))	-	3,561	-	-	3,561	3,503
Regular 2% at 62 Member Rate in Excess of 8.000% (EC §22901(b))	-	-	152	-	152	137
Supplemental at 2.250% (EC §22901.7) or 1.205% for 2% at 62	-	-	863	-	863	861
Other	-	12	2	-	14	14
<b>Total Member Contributions</b>	-	3,573	1,017	-	4,590	4,515
<b>Employer Contributions<sup>(1)</sup></b>						
Regular at 8.000%	-	3,561	-	-	3,561	3,503
Sick Leave at 0.250% (EC §22951)	-	-	111	-	111	109
Supplemental at 10.85% (EC §22950.5)	-	-	4,830	-	4,830	4,752
Other	-	-	2	-	2	2
<b>Total Employer Contributions</b>	-	3,561	4,943	-	8,504	8,366
<b>State Contributions<sup>(1)</sup></b>						
Appropriation at 2.017% (EC §22955)	-	-	807	-	807	747
Supplemental at 6.311% (EC §22955.1(b))	-	2,523	-	-	2,523	2,338
SBMA contribution at 2.500% less \$72M	934	-	-	-	934	861
Additional contributions	-	-	-	-	-	-
<b>Total State Contributions</b>	934	2,523	807	-	4,264	3,946
<b>Allocation to Post-2014 New Benefits<sup>(1)</sup></b>						
New Benefit Structure Normal Cost	-	-	(945)	945	-	-
<b>Investment Income</b>						
Net investment income	1,865	28,732	(2,946)	1,892	29,543	24,502
Net Pension/OPEB Obligation Adjustments	-	(58)	-	-	(58)	(66)
<b>Net Investment Earnings</b>	1,865	28,674	(2,946)	1,892	29,485	24,436
<b>Benefits</b>	(696)	(15,411)	(2,854)	(267)	(19,228)	(18,501)
<b>Market Value, end of year</b>	\$ 29,038	\$ 331,136	\$ (32,769)	\$ 22,120	\$ 349,525	\$ 321,910

1. The contributions for New Benefits have been allocated between the Pre-2014 and Post-2014 funding groups so that the total contributions allocated to each funding group are consistent with the valuation policy

**Table 6**  
**Actuarial Value of Assets**

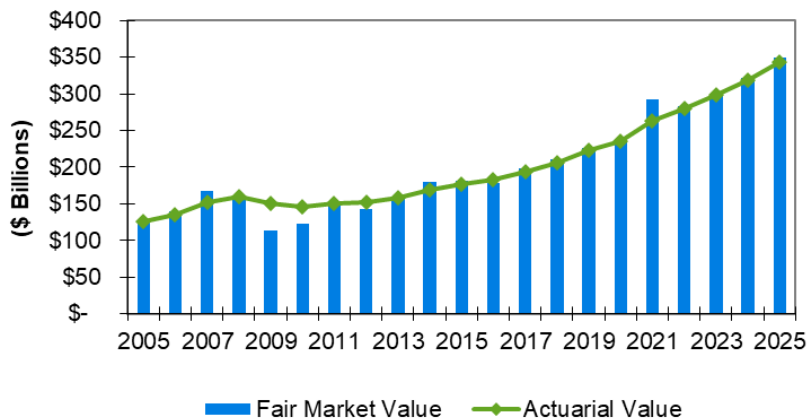
(\$ Millions)	June 30, 2025	June 30, 2024
<b>Actuarial Value at Beginning of Year</b>	\$ 318,773	\$ 298,133
Contributions	17,358	16,827
Benefits	(19,228)	(18,501)
Change in GASB Adjustments	(58)	(66)
Expected Return	22,249	20,811
<b>Expected Actuarial Value End of Year</b>	<u>\$ 339,094</u>	<u>\$ 317,204</u>
<b>Fair Market Value</b>	349,525	321,910
<b>Difference between Fair Market Value and Expected Actuarial Value</b>	\$ 10,431	\$ 4,706
Recognition Factor	One-third	One-third
Recognized Gain or Loss	\$ 3,477	\$ 1,569
<b>Actuarial Value at End of of Year</b>	<b>\$ 342,571</b>	<b>\$ 318,773</b>
<b>Deferred Investment Gains or (Losses)</b>	\$ 6,954	\$ 3,137
Estimated Net Rate of Return <sup>(1)</sup>	8.1%	7.5%
<b>Actuarial Value of Assets Excluding SBMA</b>		
Actuarial Value Including SBMA	\$ 342,571	\$ 318,773
Supplemental Benefit Maintenance Account	<u>29,038</u>	<u>26,935</u>
Actuarial Value Excluding SBMA	\$ 313,533	\$ 291,838
Market Value Excluding SBMA	\$ 320,487	\$ 294,975
Ratio of Actuarial Value of Assets to Fair Market Value of Assets	97.830%	98.937%
Estimated Net Rate of Return <sup>(1)</sup>	8.2%	7.6%

1. Estimated return on an Actuarial-Value basis, net of all investment expenses, gross of administrative expenses, and assuming uniform cash flow throughout the year.

**Table 7**  
**History of Actuarial Value of Assets**

June 30	Value Including SBMA			Ratio of Actuarial to Market
	Fair Market Value	Estimated Return <sup>(1)</sup>	Actuarial Value	
2005	\$ 126,447	12.3 %	\$ 125,665	99 %
2006	140,192	12.5	135,832	97
2007	166,903	20.9	151,827	91
2008	155,763	-5.5	159,785	103
2009	113,192	-25.4	150,445	133
2010	123,242	12.9	146,404	119
2011	147,140	23.6	151,030	103
2012	143,118	0.6	152,515	107
2013	157,176	13.9	157,883	100
2014	179,479	18.6	168,838	94
2015	180,633	3.9	177,059	98
2016	177,914	1.3	182,772	103
2017	197,718	13.4	193,925	98
2018	211,367	9.0	206,207	98
2019	225,466	6.6	222,399	99
2020	233,253	4.1	235,377	101
2021	292,980	27.1	263,397	90
2022	283,340	-2.4	280,591	99
2023	299,148	6.5	298,133	100
2024	321,910	8.2	318,773	99
2025	349,525	9.2	342,571	98

1. Estimated return on a Fair-Value basis on all DB Program assets (including SBMA), net of all investment expenses, gross of administrative expenses, and assuming uniform cash flow throughout the year, reported on a dollar-weighted basis. This number may differ from the money-weighted return reported by CalSTRS. The estimated return for the 2024-25 fiscal year excluding SBMA assets was 9.4%.



## 5. Funded Status

The **Unfunded Actuarial Obligation (UAO)** is the excess of the Actuarial Obligation over the Actuarial Value of Assets, which represents a liability that must be funded over time. Contributions in excess of the Normal Cost are used to amortize the UAO. An **Actuarial Surplus** exists if the Actuarial Value of Assets exceeds the Actuarial Obligation.

The **Funded Ratio** is equal to the Actuarial Value of Assets divided by the Actuarial Obligation. A Funded Ratio of 100% means the Value of Assets equals the Actuarial Obligation, and the DB Program could be financed by contributions equal to the Normal Cost if all future experience emerged as assumed. The Funded Ratio is shown below and in **Table 8**.

(\$ Millions)	2025 Valuation	2024 Valuation
Actuarial Obligation	\$ 395,525	\$ 380,507
Actuarial Value of Assets (AVA)		
From Table 6	\$ 342,571	\$ 318,773
Less SBMA Reserve	<u>(29,038)</u>	<u>(26,935)</u>
Net for Funding	313,533	291,838
Unfunded Actuarial Obligation	\$ 81,992	\$ 88,669
<b>Funded Ratio (on AVA)</b>	<b>79.3%</b>	<b>76.7%</b>
Fair Market Value net of SBMA	\$ 320,487	\$ 294,975
<i>Alternate Funded Ratio (based on Fair Market Value)</i>	<i>81.0%</i>	<i>77.5%</i>

The Funded Ratio increased by 2.6% during the past year, primarily due to the expected year-to-year change as a result of contributions to pay down the UAO and the return on the Actuarial Valuation of Assets (8.2%) exceeding the assumed return (7.0%). The Alternate Funded Ratio using the Fair Market Value of Assets has increased since the last valuation as a result of contributions to pay down the UAO and market returns for the 2024-25 fiscal year being greater than the assumed investment return of 7.0%.

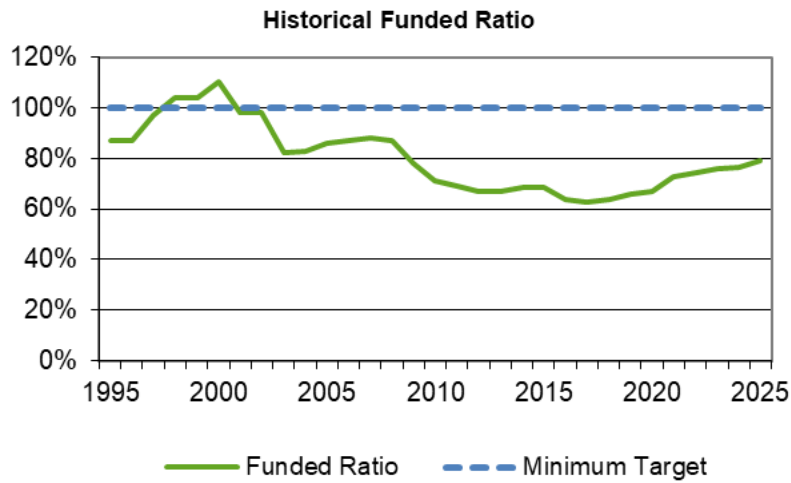
The Funded Ratio provides a measure of CalSTRS' funded status on an ongoing basis. By itself, it is not an appropriate measure for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's obligations. The Funded Ratio is currently less than 100% indicating the need for contributions in addition to the on-going normal cost contributions. CalSTRS' funding plan provides for these additional contributions.

Future benefits provided through the Supplemental Benefits Maintenance Account (SBMA) are not part of the projected benefits included in this valuation. Therefore, the SBMA Reserve is subtracted from the DB Program assets to arrive at the value available to support the benefits included in this valuation.

The table below shows a history of the Funded Status of the DB Program.

(\$ Millions)				
Year	Actuarial Obligation	Actuarial Value of Assets	Unfunded Actuarial Obligation	Funded Ratio
1975	\$ 12,834	\$ 3,775	\$ 9,059	29.4%
1977	15,203	5,019	10,184	33.0%
1979	17,971	6,488	11,483	36.1%
1981	22,545	9,345	13,200	41.5%
1983	26,553	15,023	11,530	56.6%
1985	<b>28,401</b>	<b>17,457</b>	<b>10,944</b>	<b>61.5%</b>
1987	34,637	24,401	10,236	70.4%
1989	40,266	29,327	10,939	72.8%
1991	47,100	36,001	11,099	76.4%
1993	53,581	45,212	8,369	84.4%
1995	<b>63,391</b>	<b>55,207</b>	<b>8,184</b>	<b>87.1%</b>
1997	69,852	67,980	1,872	97.3%
1998	74,234	77,290	(3,056)	104.1%
1999	86,349	90,001	(3,652)	104.2%
2000	93,124	102,225	(9,101)	109.8%
2001	109,881	107,654	2,227	98.0%
2003	131,777	108,667	23,110	82.5%
2004	138,254	114,094	24,160	82.5%
2005	<b>142,193</b>	<b>121,882</b>	<b>20,311</b>	<b>85.7%</b>
2006	150,872	131,237	19,635	87.0%
2007	167,129	146,419	20,710	87.6%
2008	177,734	155,215	22,519	87.3%
2009	185,683	145,142	40,541	78.2%
2010	196,315	140,291	56,024	71.5%
2011	208,405	143,930	64,475	69.1%
2012	215,189	144,232	70,957	67.0%
2013	222,281	148,614	73,667	66.9%
2014	231,213	158,495	72,718	68.5%
2015	<b>241,753</b>	<b>165,553</b>	<b>76,200</b>	<b>68.5%</b>
2016	266,704	169,976	96,728	63.7%
2017	286,950	179,689	107,261	62.6%
2018	297,603	190,451	107,152	64.0%
2019	310,719	205,016	105,703	66.0%
2020	322,127	216,252	105,875	67.1%
2021	332,082	242,363	89,719	73.0%
2022	346,089	257,537	88,552	74.4%
2023	359,741	273,155	86,586	75.9%
2024	380,507	291,838	88,669	76.7%
2025	<b>395,525</b>	<b>313,533</b>	<b>81,992</b>	<b>79.3%</b>

The historical Funded Ratios are shown on the following graph. In years in which a valuation was not performed, the Funded Ratio from the previous year is used.



### Actuarial Gains and Losses

Comparing the UAO as of two valuation dates does not provide enough information to determine whether there were actuarial gains or losses. The correct comparison is between the UAO on the valuation date and the expected UAO projected from the prior valuation date using the actuarial assumptions in effect since the previous valuation.

The actuarial gains and losses since the last report are summarized in the following tables and shown in **Table 9**.

(\$ Millions)	Expected Results	Actual Results	(Gain) or Loss	Percent of AO / AVA
Actuarial Obligation	\$ 397,156	\$ 395,525	\$ (1,631)	
Act. Value of Assets	309,987	313,533	(3,546)	
Unfunded Act. Oblig.	\$ 87,169	\$ 81,992	\$ (5,177)	
<b>Actuarial (Gains) or Losses by Source</b>				
Changes in assumptions & methods (Actuarial Obligation)			\$ 0	0.0%
Salaries increased less than assumed			(1,542)	(0.4%)
All other demographic sources			(89)	(0.0%)
(Gain) on the Actuarial Obligation			\$ (1,631)	(0.4%)
Investment Return on Actuarial Value of Assets			(3,448)	(1.1%)
Changes in assumptions & methods (Actuarial Assets)			0	0.0%
(Contributions in excess of valuation policy rate)			(665)	(0.2%)
Other Contributions (in excess of) or less than assumed			567	0.2%
(Gain) on the Actuarial Value of Assets			\$ (3,546)	(1.1%)
Total Actuarial (Gain)			\$ (5,177)	

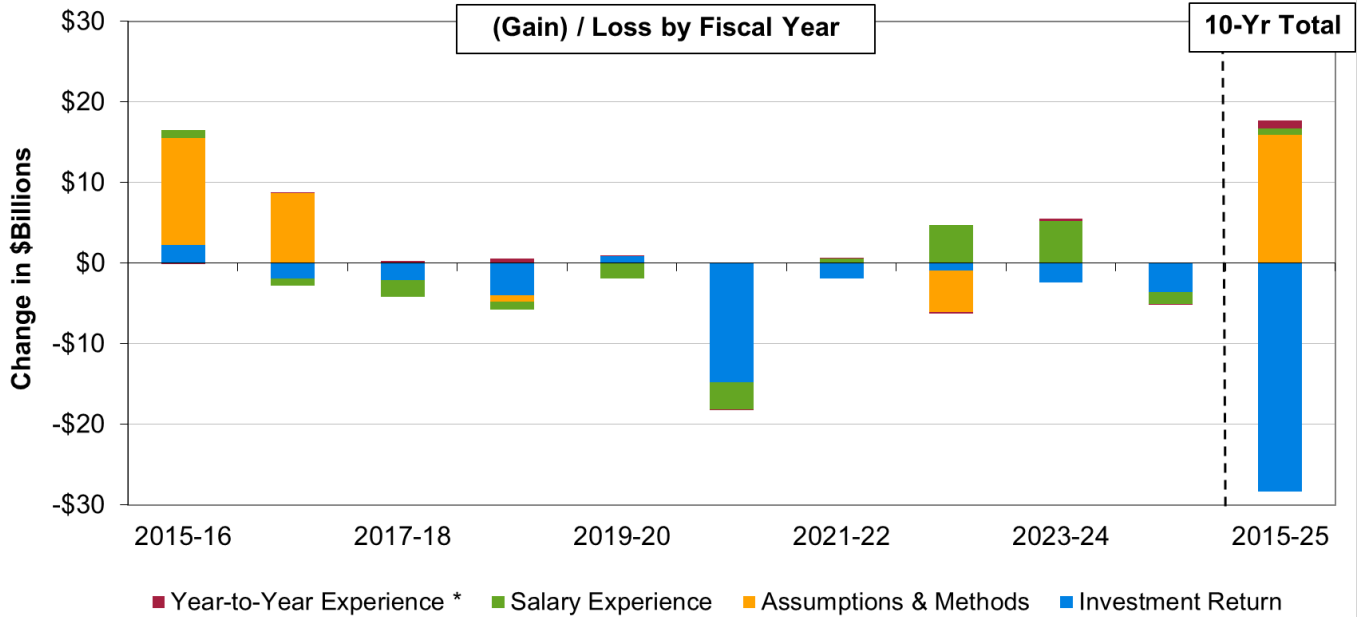
Based on the 2024 Actuarial Valuation, the UAO was expected to decrease slightly from \$88,669 million to \$87,169 million. The actual UAO of \$81,992 million represents a net actuarial gain of \$5,177 million.

- Salaries increased less than projected by the current actuarial assumptions, causing the Actuarial Obligation to decrease by \$1,542 million from the expected amount.
- All other demographic experience caused the Actuarial Obligation to decrease by \$89 million. This represents only a relatively small portion of the expected Actuarial Obligation. These relatively minor net gains and losses indicate that the census is reasonably consistent from the prior period and that the actual experience tracked closely overall with actuarial assumptions (exclusive of the salary increases).
- On the asset side, there was an actuarial asset gain based on the Actuarial Value of Assets as well as an actuarial gain on the Market Value of Assets. The return on market value (including the SBMA) was estimated at 9.2%, which is greater than the assumed 7.0% return from the prior valuation. The return on the Actuarial Value of Assets was greater (estimated at 8.2%) than assumed due to the recognition of a portion of the current year actuarial investment gain and the prior year deferred gains.

These net gains and losses are within a reasonable range for variances in a single year.

**Actuarial Gain and Loss History**

The following graph displays the actuarial gains and losses over a 10-year period beginning with the 2015-16 fiscal year.



\* Year-to-Year Experience includes changes due to Termination, Retirement, Mortality, and Other Experience.

Over the last ten years, recognition of investment returns that generally exceeded the return assumption resulted in a decrease in the UAO of about \$28 billion. This was partially offset by changes in assumptions and methods which caused an increase in the UAO of about \$16 billion. During that period, all other experience combined caused an increase in the UAO of about \$1 billion.

Note that the UAO has increased by approximately \$6 billion over the last 10 years. This compares to the net effect of actuarial gains and losses (including assumption changes) described above which account for approximately an \$11 billion decrease in the UAO. The reason for the increase in the UAO was a \$17 billion increase in the UAO resulting from contributions received by CalSTRS that were less than the interest on the UAO over the period. As the contributions under the Funding Plan have ramped up, contributions now exceed interest (and have done so beginning with fiscal year 2022-23).

**Table 8**  
**Funded Status**

(\$ Millions)	2025	2024
<b>Actuarial Obligation</b> (Table 2)	\$ 395,525	\$ 380,507
<b>Actuarial Value of Assets</b>		
Calculated (Table 6)	\$ 342,571	\$ 318,773
Less SBMA Reserve	(29,038)	(26,935)
Program Assets	\$ 313,533	\$ 291,838
<b>Unfunded Actuarial Obligation</b>	<b>\$ 81,992</b>	<b>\$ 88,669</b>
<b>Funded Ratio</b>	<b>79.3%</b>	<b>76.7%</b>

**Table 9**  
**Actuarial Gains and Losses**

(\$ Millions)	Expected	Actual	(Gain) / Loss
<b>Actuarial Obligation</b>			
Actuarial Obligation June 30, 2024	\$ 380,507		
Normal Cost for 2024-25	8,878		
Benefits Paid (Excludes Purchasing Power)	(18,532)		
Expected Interest at 7.00%	<u>26,303</u>		
<b>Actuarial Obligation June 30, 2025</b>	<b>\$ 397,156</b>	<b>\$ 395,525</b>	<b>\$ (1,631)</b>
<i>By Source:</i>			
<i>Change in actuarial assumptions</i>			0
<i>Salary increases more / (less) than assumed</i>			(1,542)
<i>Retiree Mortality</i>			(188)
<i>Service Retirements</i>			78
<i>Other Terminations of Employment</i>			(200)
<i>Active Member Mortality</i>			111
<i>Disability Retirements</i>			1
<i>All Other Non-Investment Sources</i>			<u>109</u>
<i>Total (Gain) Loss on the Actuarial Obligation</i>			\$ (1,631)
<b>Actuarial Value of Assets</b>			
Actuarial Value of Assets June 30, 2024	\$ 291,838		
Expected Contributions for 2024-25	16,329		
Benefits Paid (Excludes Purchasing Power)	(18,532)		
Expected Interest at 7.00% on AVA	<u>20,352</u>		
<b>Actuarial Value of Assets June 30, 2025</b>	<b>\$ 309,987</b>	<b>\$ 313,533</b>	<b>\$ (3,546)</b>
<i>By Source:</i>			
<i>Investment Return on Actuarial Value of Assets (including the recognition of prior deferred investment gains and losses)</i>			(3,448)
<i>Change in actuarial asset method</i>			0
<i>Contributions (in excess of) or less than assumed (including service purchases)</i>			<u>(98)</u>
<i>Total (Gain) Loss on the Actuarial Value of Assets</i>			\$ (3,546)
<b>Unfunded Actuarial Obligation</b>	<b>\$ 87,169</b>	<b>\$ 81,992</b>	<b>\$ (5,177)</b>

## 6. State Supplemental Contribution Rate

Under EC §22955.1(b), calculated adjustments to the state supplemental contribution rate are based on actuarial funding. We will refer to this contribution as the state supplemental contribution. Note that for the state, the payroll is the second prior fiscal year payroll, so contributions made in fiscal year 2026-27 will be based on the covered member compensation for fiscal year 2024-25. The state supplemental rate is in addition to the base state contribution under EC §22955.1(a) of 2.017% of payroll and contributions to fund the SBMA under EC §22954.

The board may increase or decrease the state supplemental contribution rate (within certain parameters) to reflect the contribution required to eliminate the UAO associated with the 1990 benefit and contribution rate structure. This will be referred to as the 1990 UAO. State supplemental contributions are included as part of the assets used in determining the 1990 UAO. Although not specified in the law, the board's valuation policy calls for the state supplemental contribution rate to be calculated to amortize the UAO by June 30, 2046.

The board has the authority to make changes in the state supplemental contribution rate which are calculated annually and subject to the following conditions, either specified in statute or the board valuation policy:

- The state supplemental contribution rate cannot increase or decrease by more than 0.5% of payroll over the prior year supplemental rate.
- The state supplemental contribution rate shall not be reduced below 4.311% until the UAO for the 1990 Benefit Structure is paid off.
- In any year when there is no UAO for the 1990 Benefit Structure, the supplemental contribution shall be reduced to zero in the following fiscal year.

The state is contributing a supplemental rate of 6.311% of pay for the current 2025-26 fiscal year which reflects the board's decision in May of 2025 to keep the rate at the same level as the prior fiscal year. Under the valuation policy, the calculated rate is a decrease to 5.811% for the next fiscal year as discussed in this section. The board has the authority to make no change in the rate, which would be reasonable given the significant amount of progress that still needs to be made for the DB Program to reach a 100% Funded Ratio.

As discussed in the Summary of Findings, the UAO for the 1990 Benefit Structure is projected to be fully amortized in the next valuation (as of June 30, 2026). It is our understanding that pursuant to §22955.1 of the Education Code, once the 1990 UAO is eliminated, the State's supplemental contribution rate will decline to 0%. It should be noted that adverse future experience could re-establish a 1990 UAO. In such a scenario, annual increases to the State's supplemental rate would be capped at 0.5% (starting from a 0% supplemental rate), which could limit CalSTRS' ability to address any emerging UAO and achieve a 100% Funded Ratio by 2046.

### 1990 Unfunded Actuarial Obligation

The 1990 Actuarial Obligation for the DB Program is calculated using the benefit provisions in place as of 1990. CalSTRS provides supplementary information on the census data for this determination. The process has limitations since we do not know, for example, whether members would have retired earlier or later if the post 1990 benefit enhancements had not been enacted. However, we believe it is a reasonable process to estimate what the Actuarial Obligation would be if only the 1990 benefits were currently in place.

There were no benefit improvements enacted between 1990 and 1998 that had a material cost. All benefit enhancements enacted with effective dates from July 1, 1990 to December 31, 1998 have been presumed to be cost-neutral. Due to the enhanced retirement benefits enacted since 1990, a separate set of retirement probabilities is used to evaluate the 1990 Benefit Structure.

The Actuarial Obligation related to the 1990 Benefit Structure is \$327.9 billion. This compares to the Actuarial Obligation for the current DB Program benefit structure of \$395.5 billion.

(\$ Millions)	2025 Valuation	2024 Valuation
<b>Actuarial Obligation — 1990 Benefit Structure</b>		
Value of Projected Benefits	\$ 422,942	\$ 407,755
Value of Future Normal Costs	95,007	92,648
Actuarial Obligation	\$ 327,935	\$ 315,107

The Market Value of Assets associated with the 1990 Actuarial Obligation is calculated each year by 1) increasing the prior year value (excluding the SBMA) by contributions based on the contribution rates in effect prior to September 30, 1998 (16.00% of earned salaries, excluding sick leave); 2) adding state supplemental contributions under 22955.1(b)); 3) adding additional state contributions in excess of the statutory requirements that are designated to pay down the 1990 UAO, if any; 4) reducing by benefit payments attributable to the 1990 Benefit Structure; and 5) adjusting for the actual rate of investment return for the DB Program (excluding the SBMA). Limitations exist with this approach since precise data regarding the portion or the timing of benefit payments that would be attributable to only the 1990 Benefit Structure is unknown.

The Actuarial Value of Assets under the 1990 Benefit Structure equals the Market Value of Assets under the 1990 Benefit Structure multiplied by the same ratio (Actuarial Value of Assets divided by Market Value of Assets) as the DB Program.

See **Table 10** for the details of the 1990 asset calculation.

(\$ Millions)	2025 Valuation	2024 Valuation
<b>Assets — 1990 Benefit Structure</b>		
Market Value of Assets	\$ 331,136	\$ 308,216
Ratio for DB Program	97.830%	98.937%
Actuarial Value of Assets	\$ 323,951	\$ 304,938

For purposes of testing the funding sufficiency of the 1990 Benefit Structure, note that we did not reserve the board's allocation of assets for future THBF costs, because it was established subsequent to 1990.

The following table summarizes the Funded Status of the 1990 Benefit Structure as detailed in **Table 11**. The 1990 Benefit Structure has an actuarial deficit equal to the UAO of \$4.0 billion.

(\$ Millions)	2025 Valuation	2024 Valuation
<b>Funded Status — 1990 Benefit Structure</b>		
Actuarial Obligation	\$ 327,935	\$ 315,107
Actuarial Value of Assets	323,951	304,938
Unfunded Actuarial Obligation	\$ 3,984	\$ 10,169
Funded Ratio	98.8%	96.8%

**State Supplemental Contributions**

The statute allows for an annual adjustment to the state supplemental contribution rate to amortize the 1990 UAO. Based on the June 30, 2025 valuation, a potential decrease in the state supplemental contribution rate effective July 1, 2026 is calculated under the valuation policy.

As shown in **Table 11**, a supplemental contribution rate of 2.485% of payroll is needed to amortize the 1990 UAO by June 30, 2046 based on the board's current valuation policy. This is based on an unconstrained decrease of about 3.826% of payroll from the current supplemental rate of 6.311%. However, decreases in the state contribution rate are limited to 0.5%. Therefore, the state supplemental contribution rate for the fiscal year beginning July 1, 2026 is calculated to be 5.811% under EC §22955.1(b). Note that the 2.485% is based on the Actuarial Value of Assets, so it does not reflect the future recognition of currently deferred asset gains and losses and therefore differs from the projection shown in the "Looking Ahead" subsection of Section 1.

The following table shows a numerical breakdown of each of the factors that caused the increase or decrease in the unconstrained (i.e., prior to the application of the minimum supplemental rate and the maximum decrease) state supplemental contribution rate. The actual calculated rate is limited to a 0.5% decrease over the prior year under the valuation policy and cannot be less than 4.311% until the 1990 UAO has been fully paid off.

Sources of Change	Calculated State Supp. Rate (Unconstrained) <sup>(1)</sup>
<b>June 30, 2024 Actuarial Valuation Fiscal Year 2025-26</b>	<b>3.57%</b>
Expected Year-to-Year Change	-0.18%
Recognized Asset (Gain) / Loss	
• From Prior Years	-0.21%
• From Current Year	-0.44%
Salary / Payroll Variation	
• Salary Increase < Assumed	-0.21%
• Payroll Increase < Assumed	0.00%
All Other Sources	-0.04%
<b>Total Change</b>	<b>-1.08%</b>
<b>June 30, 2025 Actuarial Valuation Fiscal Year 2026-27</b>	<b>2.49%</b>

1. Unconstrained calculated rate is before application of maximum increase or decrease. The board adopted a 6.311% rate for the fiscal year 2025-26. The calculated rate for fiscal year 2026-27 is 5.811% under the valuation policy.

Table 14 (in the next section) shows the amounts to be contributed to fund the pre-2014 "New" benefits.

**Actuarial Gains and Losses**

Similar to the total DB Program, we perform a comparison for the 1990 Benefit Structure between the UAO on the valuation date and the Expected UAO projected from the prior valuation date using the actuarial assumptions in effect since the previous valuation.

The actuarial gains and losses since the last report for the 1990 Benefit Structure are summarized in the following table.

(\$ Millions)	Expected Results	Actual Results	(Gain) or Loss
Actuarial Obligation	\$ 329,360	\$ 327,935	\$ (1,425)
Act. Value of Assets	<u>320,283</u>	<u>323,951</u>	<u>(3,668)</u>
Unfunded Act. Oblig.	\$ 9,077	\$ 3,984	\$ (5,093)
<b>Actuarial (Gains) or Losses by Source</b>			
Changes in assumptions & methods (Actuarial Obligation)			\$ 0
Salaries increased less than assumed			(1,317)
All other demographic sources			(108)
(Gain) on the Actuarial Obligation			<u>\$ (1,425)</u>
Investment Return on Actuarial Value of Assets			(3,637)
Changes in assumptions & methods (Actuarial Assets)			0
Contributions (in excess of) or less than assumed			(31)
(Gain) on the Actuarial Value of Assets			<u>\$ (3,668)</u>
Total Actuarial (Gain)			\$ (5,093)

**Table 10**  
**Assets for 1990 Benefit Structure**

(\$ Millions)	2025	2024
<b>Assets Allocated to 1990 Structure<sup>(1)</sup></b>		
Allocated Market Value at Beginning of Year	\$ 308,216	\$ 289,898
Contributions During the Year		
Member: EC §22901(a) at 8.00% of Earned Salaries	3,561	3,503
Employer: EC §22950 at 8.00% of Earned Salaries	3,561	3,503
State: EC §22955.1(b) Contribution at 6.311% / 6.311% of second preceding fiscal year Earned Salaries	2,523	2,338
Member Redeposits	12	12
Total 1990 Structure Contributions	9,657	9,356
Benefits Paid During the Year		
Total Benefits Paid During the Year	(18,532)	(17,865)
Post-1990 Benefits Paid During the Year	3,107	2,969
Post-1990 Refunds of supplemental member contributions	17	15
Prior 2% DBS redirection contributions refunded	(3)	(4)
Total 1990 Benefits Paid <sup>(1)</sup>	(15,411)	(14,885)
Estimated Investment Earnings for the Year <sup>(2)</sup>	28,732	23,913
Change in GASB Adjustments	(58)	(66)
Allocated 1990 Assets due to Assumption Changes	-	-
<b>Total Allocated 1990 Structure Market Value at End of Year</b>	<b>\$ 331,136</b>	<b>\$ 308,216</b>
Ratio of Actuarial Value to Market Value <sup>(3)</sup>	97.830%	98.936%
<b>Assets Allocated to 1990 Structure (Actuarial Value of Assets)</b>	<b>\$ 323,951</b>	<b>\$ 304,938</b>

1. May not sum exactly, due to rounding.

2. Based on Fair Market Value and uniform cash flow for contributions, benefits, and expenses. The rates of return used in these calculations were 8.33% for fiscal year 2023-24 and 9.41% for fiscal year 2024-25.

3. Developed from Table 6.

**Table 11**  
**Funded Status and Supplemental Contribution Rate for 1990 Benefit Structure**

(\$ Millions)	2025 Val FY 2026-27	2024 Val FY 2025-26
<b>Actuarial Obligation</b>		
Present Value of Projected Benefits		
Benefits Currently Being Paid	\$ 164,991	\$ 159,315
Benefits to Inactive Members	10,412	9,843
Benefits to Active Members	247,539	238,597
Total	<u>\$ 422,942</u>	<u>\$ 407,755</u>
Present Value of Future Normal Costs	(95,007)	(92,648)
Actuarial Obligation	<u>\$ 327,935</u>	<u>\$ 315,107</u>
<b>Funded Status</b>		
Actuarial Obligation	\$ 327,935	\$ 315,107
Actuarial Value of Assets (Table 10)	323,951	304,938
Unfunded Actuarial Obligation (Surplus)	<u>\$ 3,984</u>	<u>\$ 10,169</u>
Funded Ratio	98.8%	96.8%
<b>Amortization Sufficiency Under Current Contribution Schedule</b>		
Revenue for 1990 Benefits	16.000%	16.000%
Normal Cost Rate for 1990 Benefits	(17.990)	(17.988)
Equivalent Normal Cost Surplus / (Deficit) as % of Employer Payroll	(1.990%)	(1.988%)
Equivalent Normal Cost Surplus / (Deficit) as % of State Payroll (Adjusted to account for state contributions paid on payroll from two years prior)	(2.120%)	(2.118%)
Level Equivalent Additional Revenue Under EC 22955.1(b)	6.311	6.311
Revenue Available for Amortization	4.191%	4.193%
Revenue Needed for Amortization of UAO by 2046 (based on UAO for 1990 Structure projected forward one year)	0.365	1.455
Revenue Surplus / (Deficit)	3.826%	2.738%
Amortization Status under current contribution rate	Projected to Fund 1990 UAO by 2046	Projected to Fund 1990 UAO by 2046
<b>Contribution Rate for Amortization of 1990 UAO without Statutory Limits</b>		
Current EC 22955.1(b) Contribution Rate	6.311%	6.311%
Increase / (Decrease) in State Contribution Rate	(3.826)	(2.738)
Unconstrained Contribution Rate	2.485%	3.573%
<b>Contribution Rate for Amortization of 1990 UAO with Statutory Limits</b>		
Current EC 22955.1(b) Contribution Rate	6.311%	6.311%
Increase / (Decrease) in State Contribution Rate (capped at 0.5%)	(0.500)	(0.500)
<b>EC 22955.1(b) Calculated Contribution Rate<sup>(1)</sup></b>	<b>5.811%</b>	<b>5.811%</b>

1. The rates shown are the calculated rates under the valuation policy. For fiscal year 2025-26, the board adopted a 6.311% supplemental contribution rate.

## 7. Employer Supplemental Contribution Rate

The base employer contribution rate under EC §22950 and §22951 is 8.25% of payroll. In addition to the base employer rate, an employer supplemental contribution rate is calculated annually under EC §22950.5.

The board has the authority to increase or decrease the employer supplemental contribution rate (within certain parameters) to reflect the contribution required to eliminate the remaining UAO associated with service earned prior to July 1, 2014. This will be referred to as the pre-2014 UAO. Note that although the language in the Education Code refers to the UAO for all benefits earned prior to July 1, 2014, the basic calculation in the board's valuation policy only allocates the funding of the pre-2014 UAO for "new" benefits (i.e., those adopted after 1990) to the employers, as the state is responsible for the funding of all 1990 benefits.

The calculated employer supplemental contribution rate for the fiscal year beginning July 1, 2026 decreases to 9.850% of payroll pursuant to the board's valuation policy and assumes the board exercises its limited rate-setting authority. The effective supplemental contribution rate paid by the employers is calculated to decrease by 1.000% from 10.850% of pay (19.100% in total) to 9.850% of pay (18.100% in total) for the fiscal year beginning July 1, 2026. Note that the board elected to keep the employer supplemental contribution rate at the 10.85% rate for fiscal year 2025-26. Given the significant amount of progress that still needs to be made for the DB Program to reach a 100% Funded Ratio, it would be reasonable for the board to maintain the current 10.850% supplemental contribution rate.

There is an additional complexity in that the pre-2014 UAO that the employers are responsible for funding overlaps with the 1990 UAO that the state is responsible for funding. Under the board's valuation policy, the pre-2014 UAO is split into two separate pieces: 1) the pre-2014 UAO for the 1990 Benefit Structure; and 2) the pre-2014 UAO for "new" benefits (i.e., those adopted after 1990). The employers are responsible for funding the New Benefit UAO. However, a provision of the valuation policy limits the employer supplemental contribution rate to the amount that is calculated to be sufficient to pay down the total Pre-2014 UAO when combined with the base employer rate, the state, and member contribution rates. This is referred to as the "pre-2014 limit." The pre-2014 limit only applies if the pre-2014 UAO for the 1990 Benefit Structure is in a surplus position. As shown in Table 14, the 1990 UAO (Pre-2014 Service) is greater than \$0 and therefore not in a surplus position, so the pre-2014 limit is not applied.

The board has authority to change the employer supplemental contribution rate annually, subject to the following conditions:

- The employer supplemental contribution rate cannot increase or decrease by more than 1.0% of payroll over the prior year supplemental rate.
- The employer supplemental contribution rate cannot exceed 12.00%.

The pre-2014 UAO for New Benefits equals the total UAO for pre-2014 service less the 1990 UAO for pre-2014 service.

**Pre-2014 Unfunded Actuarial Obligation**

The pre-2014 Actuarial Obligation for the DB Program is calculated using service through June 30, 2014 and projected salaries. Since there are no future service accruals for this portion of the Actuarial Obligation, the Projected Unit Credit actuarial cost method is used, per the board's valuation policy.

To determine the pre-2014 assets to be used in the 2025 valuation, a theoretical pre-2014 asset value is maintained based on the prior year value adjusted as follows:

- Add total contributions (excluding SBMA),
- Subtract total Normal Costs for prior year,
- Subtract benefit payments attributable to pre-2014 service, and
- Adjust for actual investment return.

See **Table 12** for the details of the asset adjustment.

**Pre-2014 Unfunded Actuarial Obligation for 1990 Benefit Structure**

A second calculation is done to isolate the portion of the pre-2014 UAO that is allocated to the 1990 Benefit Structure and therefore is subject to state funding. The Actuarial Obligation for this portion is calculated using the 1990 Benefit Structure, service through June 30, 2014 and projected salaries. Since there are no future service accruals, the Projected Unit Credit actuarial cost method is used.

To determine the pre-2014 assets allocated to the 1990 Structure that are to be used in the 2025 valuation, a theoretical pre-2014 asset value for the 1990 Structure is maintained based on the prior year value adjusted as follows:

- Add contributions equal to 16.00% of prior year payroll,
- Add state supplemental contributions under EC §22955.1(b),
- Subtract total Normal Costs for prior year attributable to 1990 Benefit Structure,
- Subtract benefit payments attributable to pre-2014 service and the 1990 Benefit Structure, and
- Adjust for actual investment return.

See **Table 13** for the details of the asset adjustment.

**Pre-2014 Unfunded Actuarial Obligation for New Benefits**

The following table shows the calculation of the UAO for Pre-2014 Service attributable to New Benefits.

(\$ Millions)	Pre-2014 Service		
	Total	1990 Benefits	New Benefits
<b>Funded Status — Pre-2014 Service</b>			
Actuarial Obligation	\$ 262,871	\$ 216,554	\$ 46,317
Actuarial Value of Assets	179,716	211,774	(32,058)
Unfunded Actuarial Obligation	\$ 83,155	\$ 4,780	\$ <b>78,375</b>

**Employer Supplemental Contributions**

The Education Code allows for an annual adjustment to the employer supplemental contribution rate to amortize the pre-2014 UAO. As shown in **Table 14**, a potential decrease from the current employer supplemental contribution rate of 10.850% is calculated. Effective July 1, 2026, an employer supplemental contribution rate of 8.832% of pay would be needed to amortize the pre-2014 UAO for New Benefits by June 30, 2046, a decrease of 2.018%. This is based on an unconstrained decrease. However, decreases in the employer supplemental contribution rate are limited to 1.000% so the calculated rate for fiscal year 2026-27 is 9.850%. Combining this amount with the base employer contribution rate of 8.250%, the calculated total employer contribution rate for the fiscal year beginning July 1, 2026 is 18.100%.

The following table shows a numerical breakdown of each of the factors that caused the increase or decrease in the unconstrained (i.e., prior to the application of the maximum increase or decrease) employer supplemental contribution rate.

Sources of Change	Calculated Employer Supp. Rate (Unconstrained) <sup>(1)</sup>
<b>June 30, 2024 Actuarial Valuation Fiscal Year 2025-26</b>	<b>8.91%</b>
Expected Year-to-Year Change	-0.14%
Recognized Asset (Gain) / Loss	
• From Prior Years	0.03%
• From Current Year	0.04%
Salary / Payroll Variation	
• Salary Increase < Assumed	-0.02%
• Payroll Increase < Assumed	0.03%
All Other Sources	-0.02%
<b>Total Change</b>	<b>-0.08%</b>
<b>June 30, 2025 Actuarial Valuation Fiscal Year 2026-27</b>	<b>8.83%</b>

1. The unconstrained calculated rate is before the application of the maximum increase or decrease. The board adopted a 10.85% rate for the fiscal year 2025-26. The calculated rate for fiscal year 2026-27 is 9.85% under the valuation policy.

**Allocation of Contribution Rates**

As previously discussed, the state is responsible for the UAO associated with 1990 benefits, and the employers are responsible for UAO associated with New Benefits. The table below shows a breakdown of the calculated contribution rates between 1990 benefits and New Benefits (split between pre- and post-2014) on a percentage of payroll basis.

	Allocation of Contribution Rates for the DB Program				2024 Valuation	
	2025 Valuation: FY 2026-27 Rate (Calculated Based on Policy)				FY 2025-26 Rate	
	1990 Benefits	New Bft - Pre	New Bft - Post	Total	Total	
Employers – Base Rate	8.000 %	0.000 %	0.000 %	8.000 %	8.000 %	
Employers – Sick Leave	0.000	0.250	0.000	0.250	0.250	
Employers – Supplemental Rate <sup>(1)</sup>	0.000	9.850	0.000	9.850	10.850	
<b>Employers – Total Calculated Rate</b>	<b>8.000</b>	<b>10.100</b>	<b>0.000</b>	<b>18.100</b>	<b>19.100</b>	
State – Base Rate <sup>(2)</sup>	0.000 %	1.894 %	0.000 %	1.894 %	1.893 %	
State – Supplemental Rate <sup>(1)</sup>	5.811	0.000	0.000	5.811	6.311	
<b>State – Total DB Program<sup>(3)</sup></b>	<b>5.811</b>	<b>1.894</b>	<b>0.000</b>	<b>7.705</b>	<b>8.204</b>	
Members – 2% at 60	8.000 %	2.250	0.000	10.250	10.250	
Members – 2% at 62	8.000	2.205	0.000	10.205	10.205	
Blended Members	8.000 %	2.221 %	0.000 %	10.221 %	10.222 %	
Allocation of New Benefit NC%	0.000 %	-1.490 %	1.490 %	0.000 %	0.000 %	
<b>Total Revenue</b>	<b>21.811 %</b>	<b>12.725 %</b>	<b>1.490 %</b>	<b>36.026 %</b>	<b>37.526 %</b>	
Normal Cost (Avg thru 2046)	17.990 %	0.000 %	1.490 %	19.480 %	19.509 %	
<b>Revenue Available for Amortization</b>	<b>3.821 %</b>	<b>12.725 %</b>	<b>0.000 %</b>	<b>16.546 %</b>	<b>18.017 %</b>	
Supplemental Rate <sup>(1)</sup>	5.811 %	9.850 %	0.000 %	15.661 %	17.161 %	
Surplus/(Deficit) Over NC% w/o Supp	-1.990 %	2.875 %	0.000 %	0.885 %	0.856 %	

1. For the current valuation, the supplemental contribution rates for fiscal year 2026-27 are those calculated based on valuation policy and subject to board adoption. For the prior valuation, the supplemental contribution rates are those that were adopted by the board for fiscal year 2025-26.

2. New Bft - Pre column reflects that 2.017% state contribution is converted from state payroll (which is two years prior) to employer payroll using the ratio of the present value of state payroll through June 30, 2046 to employer payroll through June 30, 2046.

3. The state also contributes 2.5% (less \$72 million) to the Supplemental Benefit Maintenance Account (SBMA).

**Table 12**  
**Total Assets Allocated for Pre-2014 Service<sup>(1)</sup>**

(\$ Millions)	2025	2024
<b>Asset Value for Pre-2014 Service (excludes SBMA)</b>		
Allocated Market Value at Beginning of Year	\$ 176,983	\$ 172,512
Contributions During the Year		
Total Contributions (excluding SBMA)	16,424	15,966
Less Normal Costs for Year with Expenses	<u>(8,953)</u>	<u>(8,866)</u>
Total Adjusted Contributions	\$ 7,471	\$ 7,100
Benefits and Expenses Paid for Pre-2014 Service	(16,958)	(16,600)
Estimated Investment Earnings for the Year <sup>(2)</sup>	<u>16,207</u>	<u>13,971</u>
<b>Total Allocated Market Value at End of Year</b>	<b>\$ 183,703</b>	<b>\$ 176,983</b>
Ratio of Actuarial Value to Market Value <sup>(3)</sup>	97.830%	98.937%
<b>Actuarial Value of Assets for Pre-2014 Service</b>	<b>\$ 179,716</b>	<b>\$ 175,100</b>

1. May not sum exactly, due to rounding.

2. Based on Fair Market Value excluding SBMA and uniform cash flow for contributions, benefits, and expenses. The rates of return used in these calculations were 8.33% for 2023-24 and 9.41% for 2024-25.

3. Developed from Table 6.

**Table 13**  
**1990 Assets Allocated for Pre-2014 Service<sup>(1)</sup>**

(\$ Millions)	2025	2024
<b>1990 Asset Value for Pre-2014 Service (excludes SBMA)</b>		
Allocated Market Value at Beginning of Year	\$ 209,773	\$ 205,523
Contributions During the Year for 1990 Structure		
Total Contributions (excluding SBMA)	9,658	9,357
Less 1990 Normal Costs for Year with Expenses	<u>(8,008)</u>	<u>(7,874)</u>
Total Adjusted Contributions	\$ 1,650	\$ 1,483
Benefits and Expenses Paid for Pre-2014 Service	(14,104)	(13,834)
Estimated Investment Earnings for the Year <sup>(2)</sup>	<u>19,153</u>	<u>16,601</u>
<b>Total 1990 Allocated Market Value at End of Year</b>	<b>\$ 216,472</b>	<b>\$ 209,773</b>
Ratio of Actuarial Value to Market Value <sup>(3)</sup>	97.830%	98.937%
<b>1990 Actuarial Value of Assets for Pre-2014 Service</b>	<b>\$ 211,775</b>	<b>\$ 207,543</b>

1. May not sum exactly, due to rounding.

2. Based on Fair Market Value excluding SBMA and uniform cash flow for contributions, benefits, and expenses. The rates of return used in these calculations were 8.33% for 2023-24 and 9.41% for 2024-25.

3. Developed from Table 6.

**Table 14**  
**Funded Status and Employer Supplemental Contribution Rate for Pre-2014 Service**

(\$ Millions)	2025 Val FY 2026-27	2024 Val FY 2025-26
<b>Funded Status</b>		
Total Unfunded Actuarial Obligation (Pre-2014 Service)		
Total Actuarial Obligation for Pre-2014 Service	\$ 262,871	\$ 262,957
Total AVA for Pre-2014 Service	179,716	175,100
Total UAO (Pre-2014 Service)	\$ 83,155	\$ 87,857
1990 Unfunded Actuarial Obligation (Pre-2014 Service)		
1990 Actuarial Obligation for Pre-2014 Service	\$ 216,554	\$ 216,758
1990 AVA for Pre-2014 Service	211,774	207,541
1990 UAO (Pre-2014 Service)	\$ 4,780	\$ 9,217
Post-1990 UAO (Pre-2014 Service)	\$ 78,375	\$ 78,640
<b>Amortization Sufficiency for Post-1990, Pre-2014 UAO Under Current Contribution Schedule</b>		
Post-1990 Normal Cost Rate (Surplus)/Deficit (from Allocation of Contribution Rates table)	2.875%	2.844%
Current Supplemental Contribution Rate Under EC 22950.5	10.850	10.850
Revenue Available for Amortization	13.725%	13.694%
Revenue Needed for Amortization of UAO by 2046 (based on Pre-2014 UAO projected forward one year)	11.706	11.756
Revenue Surplus / (Deficit)	2.019%	1.938%
Supplemental Contribution Rate (Unconstrained)	8.831%	8.912%
<b>Contribution Rate for Amortization of UAO for pre-2014 Service and New Benefits</b>		
Current EC 22950.5 Contribution Rate	10.850%	10.850%
Adjustment in Employer Contribution Rate	(1.000)	(1.000)
<b>EC 22950.5 Contribution Rate<sup>(1)</sup></b>	<b>9.850%</b>	<b>9.850%</b>
EC 22950 & EC22951 Base Contribution Rate	8.250	8.250
<b>Total Employer Contribution Rate<sup>(1)</sup></b>	<b>18.100%</b>	<b>18.100%</b>

1. Calculated based on valuation policy and subject to board adoption. For fiscal year 2025-26, the board adopted a 10.85% supplemental contribution rate resulting in a total employer contribution rate of 19.10%.

## 8. Actuarially Determined Contribution

The actuarially determined contribution is the contribution to a defined benefit pension plan calculated based on the plan's funding policy. For CalSTRS, the actuarially determined contribution rate is the calculated level contribution rate to fully fund the DB Program over a closed period ending June 30, 2046. We believe this a reasonable contribution rate and balances the need for benefit security, intergenerational equity, and stability of contributions. For GASB 67 and 68 reporting, the actuarially determined contribution is the combined employer and state portion of that contribution (net of member contributions). For the 2024-25 fiscal year, the actuarially determined contribution for the DB Program is the level rate calculated in the June 30, 2023 actuarial valuation applied to the actual DB Program payroll for the fiscal year ended June 30, 2025.

The actual contribution rates are set in statute, with the board having limited rate-setting authority to adjust contribution rates annually within the parameters of the Education Code. The current projections show CalSTRS DB Program is projected to be 100% funded by June 30, 2046, the target date of the funding plan to achieve a 100% Funded Ratio. This projection assumes the board continues its practice of maintaining the state and employer contribution rates at the current level until the associated UAO is paid off.

The contribution rates under board practice are sufficient to pay for on-going normal costs and reduce the UAO. If the board elected to reduce the contribution rates consistent with board policy, this would still be true and the DB Program would still be projected to be 100% funded by June 30, 2046, although the progress would be slower. Contributions under either board practice or board policy are consistent with accumulating sufficient assets to pay benefits when due.

As shown in the following table, the actual employer contribution made for all programs (including those contributions made by the state) to the State Teachers' Retirement Plan was 114% of the actuarially determined contribution for the fiscal year ended June 30, 2025. Note that contributions to the State Teachers' Retirement Plan include contributions to the Defined Benefit, Defined Benefit Supplement, Cash Balance Benefit, and Supplemental Benefit Maintenance Account programs.

(\$ Millions)	Fiscal Year 2024-25	Fiscal Year 2023-24
<b>Actuarially Determined Contribution</b>		
ADC percentage for DB Program (a)	22.963%	23.598%
Covered Payroll (b)	\$ 44,480	\$ 43,756
ADC for DB Program (a x b) = (c)	<u>10,214</u>	<u>10,326</u>
ADC for other programs <sup>(1)</sup> (d)	<u>1,182</u>	<u>1,073</u>
Total ADC for STRP (c + d) = (e)	11,396	11,399
Actual employer contribution <sup>(2)</sup> (f)	13,015	12,523
Percentage of Actual to ADC (f / e)	114.21%	109.86%

1. For the SBMA, CBB, and DBS programs, the actuarially determined contribution is equal to the actual contributions.

2. Includes actual contributions from non-employer contributing entities (which for CalSTRS is the state).

Based on the 2025 valuation, the projected 2026-27 contribution rate based on prior board practice is greater than the calculated level contribution rate needed to fully fund the DB Program over a closed period ending June 30, 2046. The theoretical contributions made based under the level contribution rate (net of member contributions) are analogous to the actuarially determined contributions included in CalSTRS GASB 67 and 68 reporting. This means the contribution rate projected to be paid for fiscal year 2026-27 is greater than the actuarially determined contribution rate. This higher level of funding is due to the board adopting contribution rates above the calculated rates and limitations on decreases in contribution rates.

The following table shows the estimated actuarially determined contribution rate for the DB Program for the upcoming year. The 2025 valuation results are used to calculate the actuarially determined contribution rate for the fiscal year 2026-27.

(Percent of Earned Salaries)	2025 Valuation FY 2026-27	2024 Valuation FY 2025-26
<b>Actuarially Determined Contribution for DB Program</b>		
Normal Cost Rate	19.514 %	19.544 %
Amortization Rate Needed	11.989	13.100
Total Level Rate for DB Program	31.503	32.644
Estimated Member Contribution Rate	(10.232)	(10.233)
ADC for DB Program	21.271	22.411
Estimated State Rate for DB Program <sup>(1)</sup>	7.903	7.894
Estimated Employer Rate for DB Program	19.100	19.100
Estimated Employer+State Contribution Rate <sup>(2)</sup>	27.003	26.994
Percentage of Actuarially Determined Contribution expected to be received	126.9 %	120.5 %

1. Note that the state contribution is based on the second prior fiscal year payroll. For example, state contributions made in the 2025-26 fiscal year are a percent of the covered member compensation for the 2023-24 fiscal year; however, the percentage shown in the FY 2025-26 column of 7.894% is expressed as a percent of the 2025-26 fiscal year payroll. The state contribution rate based on the 2023-24 fiscal year payroll was 8.328% (2.017% + 6.311%).

2. Assumes the board continues its prior practice and maintains current contribution levels and includes expected contributions from both employers and non-employer contributing entities (which, for CalSTRS, is the state). The FY 2026-27 contribution rate is based on the rates remaining the same as the prior fiscal year. For FY 2025-26, the actual contribution rates adopted by the board are used.

**Table 15** shows the details of how the estimated actuarially determined contribution rate is calculated for the upcoming year as well as the actual actuarially determined contribution for the current fiscal year.

**Table 15**  
**Actuarially Determined Contribution Rate for DB Program**

(\$ Millions)	2025 Valuation FY 2026-27	2024 Valuation FY 2025-26
<b>Unfunded Actuarial Obligation</b>		
Beginning of Year	\$ 81,992	\$ 88,669
Normal Cost	9,124	8,878
Contributions	(17,018)	(16,329)
Benefit Payments	-	-
Interest	5,468	5,951
Projected to End of Year (a)	79,566	87,169
<b>Present Value of Future Payroll</b>		
Starting One Year After Valuation Date (b)	\$ 663,657	\$ 665,435
<b>UAO Rate Needed</b>		
End of Year UAO / PV Payroll [(a) / (b)]	11.989%	13.100%
<b>Actuarially Determined Contribution Rate</b>		
Normal Cost Rate	19.514%	19.544%
Amortization Rate Needed	11.989%	13.100%
Total Level Rate for DB Program	31.503%	32.644%
Member Contribution Rate	(10.232%)	(10.233%)
Actuarially Determined Contribution (for DB Program only)	21.271%	22.411%
<b>Estimated Contribution Rate</b>		
Estimated Contributions		
Member 22901 & 22901.7	\$ 4,826	\$ 4,682
Employer 22950 & 22951	3,891	3,775
Employer 22950.5	5,118	4,964
State 22955.2	-	-
State 22955(a)	903	875
State 22955.1(b)	2,825	2,737
Additional State Contributions	-	-
Total Estimated Contributions	17,563	17,033
Projected Salaries	47,168	45,754
Total Contribution Rate	37.235%	37.227%
Member Contribution Rate	(10.232%)	(10.233%)
Estimated Employer+State Contribution Rate <sup>(1)</sup>	27.003%	26.994%

1. Assumes the board continues its prior practice and maintains current contribution levels and includes expected contributions from both employers and non-employer contributing entities (which, for CalSTRS, is the state). The FY 2026-27 contribution rate is based on the rates remaining the same as the prior fiscal year. For FY 2025-26, the actual contribution rates adopted by the board are used.

## 9. Projected Amortization and Cash Flows

We have previously shown graphical projections of contribution rates, the Funded Ratio, and the UAO. In this section, we show the numerical details behind those projections.

**Table 16** shows the amortization of the UAO for the total DB Program on a year-by-year basis, based on 7.00% future returns, the future recognition of the currently deferred asset gains, and assumes the board continues its practice of maintaining the state and employer contribution rates at the current level until the associated UAO is paid off. Assuming all other future experience emerges as assumed, the UAO is projected to be amortized by June 30, 2043, three years ahead of the end of the funding plan in 2046. In total, the Funded Ratio as of June 30, 2046 is projected to be 104.9% under the assumptions described in the "Looking Ahead" subsection of Section 1.

In Table 16, we show the contributions projected to be paid into the DB Program to fund ongoing benefits and amortize the UAO. **Table 17** shows a comparison of these inflows into the DB Program with the outflows from the DB Program, which consist of benefit payments and expenses. The difference between these two values is the net cash flow. A negative value indicates CalSTRS is paying out more in benefits and expenses than it is receiving in contributions. Note that this projection does not account for cash received internally, such as interest and dividends on investments.

The net cash flow is currently negative, and this is projected to become increasingly negative over the next several years. This is a typical pattern for a mature retirement system where it is expected that contributions will ultimately be less than benefits and that the system will begin drawing on the fund that has been built up over prior years.

**Table 16**  
**Amortization of Unfunded Actuarial Obligation<sup>(1)</sup>**  
**(Reflecting Projected Contribution Adjustments)<sup>(2)</sup>**

(\$Millions)												
Year	FYE	Beginning Unfunded Act. Oblig.	Amortization Payment				Normal Cost	Available Amtzn.	Interest Charge at 7.00%	Ending Unfunded Act. Oblig.	Ending Funded Ratio	
			Member	Employer	State	Total						
1	2026	\$ 81,992	\$ 4,675	\$ 8,725	\$ 3,618	\$ 17,018	\$ 9,124	\$ 7,894	\$ 5,468	\$ 77,086	81.3%	
2	2027	77,086	4,826	9,009	3,729	17,564	9,400	8,164	5,115	72,268	83.2%	
3	2028	72,268	4,982	9,302	922	15,206	9,685	5,521	4,869	70,353	84.2%	
4	2029	70,353	5,144	9,604	951	15,699	9,977	5,722	4,728	68,458	85.3%	
5	2030	68,458	5,310	9,916	983	16,209	10,275	5,934	4,588	66,470	86.3%	
6	2031	66,470	5,482	10,239	1,014	16,735	10,580	6,155	4,441	64,299	87.2%	
7	2032	64,299	5,659	10,571	1,048	17,278	10,892	6,386	4,281	61,867	88.1%	
8	2033	61,867	5,843	10,915	1,081	17,839	11,211	6,628	4,103	59,108	89.1%	
9	2034	59,108	6,032	11,270	1,116	18,418	11,538	6,880	3,901	55,963	90.0%	
10	2035	55,963	6,227	11,636	1,152	19,015	11,875	7,140	3,672	52,377	91.0%	
11	2036	52,377	6,428	12,014	1,190	19,632	12,222	7,410	3,411	48,294	92.0%	
12	2037	48,294	6,636	12,404	1,229	20,269	12,580	7,689	3,116	43,659	93.0%	
13	2038	43,659	6,851	12,808	1,268	20,927	12,948	7,979	2,782	38,419	94.0%	
14	2039	38,419	7,073	13,224	1,309	21,606	13,328	8,278	2,405	32,514	95.1%	
15	2040	32,514	7,302	13,654	1,687	22,643	13,722	8,921	1,969	25,541	96.3%	
16	2041	25,541	7,538	14,097	2,089	23,724	14,130	9,594	1,458	17,388	97.5%	
17	2042	17,388	7,782	14,556	2,514	24,852	14,553	10,299	863	7,941	98.9%	
18	2043	7,941	8,034	15,029	2,965	26,028	14,992	11,036	176	(2,927)	100.4%	
19	2044	(2,927)	8,294	15,517	3,062	26,873	15,448	11,425	(598)	(14,955)	101.9%	
20	2045	(14,955)	8,563	15,183	3,160	26,906	15,923	10,983	(1,425)	(27,367)	103.4%	
21	2046	(27,367)	8,841	14,810	3,263	26,914	16,418	10,496	(2,277)	(40,143)	104.9%	

1. Based on the Actuarial Value of Assets with projected recognition of known deferred asset gains and losses.
2. Assumes the board continues its prior practice and maintains current contribution levels until the associated UAO is paid off.

**Table 17**  
**Projected Cash Flow**  
 (Reflecting Projected Contribution Adjustments)<sup>(1)</sup>

(\$Millions)		Contributions <sup>(1)</sup>				Benefit	Net Program	Cash Flow as a Percentage of		Ending
Year	FYE	Member	Employer	State	Total	Payments <sup>(2)</sup>	Cash Flow	Payroll	Market Value of Assets	Funded Ratio
1	2026	\$ 4,675	\$ 8,725	\$ 3,618	\$ 17,018	\$ 20,416	\$ (3,398)	(7.4%)	(1.0%)	81.3%
2	2027	4,826	9,009	3,729	17,564	21,056	(3,492)	(7.4%)	(1.0%)	83.2%
3	2028	4,982	9,302	922	15,206	22,007	(6,801)	(14.0%)	(1.8%)	84.2%
4	2029	5,144	9,604	951	15,699	23,016	(7,317)	(14.6%)	(1.9%)	85.3%
5	2030	5,310	9,916	983	16,209	24,106	(7,897)	(15.2%)	(1.9%)	86.3%
6	2031	5,482	10,239	1,014	16,735	25,291	(8,556)	(16.0%)	(2.0%)	87.2%
7	2032	5,659	10,571	1,048	17,278	26,570	(9,292)	(16.8%)	(2.1%)	88.1%
8	2033	5,843	10,915	1,081	17,839	27,913	(10,074)	(17.6%)	(2.1%)	89.1%
9	2034	6,032	11,270	1,116	18,418	29,297	(10,879)	(18.4%)	(2.2%)	90.0%
10	2035	6,227	11,636	1,152	19,015	30,728	(11,713)	(19.2%)	(2.3%)	91.0%
11	2036	6,428	12,014	1,190	19,632	32,265	(12,633)	(20.1%)	(2.3%)	92.0%
12	2037	6,636	12,404	1,229	20,269	33,844	(13,575)	(20.9%)	(2.4%)	93.0%
13	2038	6,851	12,808	1,268	20,927	35,449	(14,522)	(21.7%)	(2.4%)	94.0%
14	2039	7,073	13,224	1,309	21,606	37,071	(15,465)	(22.3%)	(2.5%)	95.1%
15	2040	7,302	13,654	1,687	22,643	38,698	(16,055)	(22.5%)	(2.5%)	96.3%
16	2041	7,538	14,097	2,089	23,724	40,329	(16,605)	(22.5%)	(2.5%)	97.5%
17	2042	7,782	14,556	2,514	24,852	41,956	(17,104)	(22.4%)	(2.4%)	98.9%
18	2043	8,034	15,029	2,965	26,028	43,572	(17,544)	(22.3%)	(2.4%)	100.4%
19	2044	8,294	15,517	3,062	26,873	45,165	(18,292)	(22.5%)	(2.4%)	101.9%
20	2045	8,563	15,183	3,160	26,906	46,720	(19,814)	(23.6%)	(2.4%)	103.4%
21	2046	8,841	14,810	3,263	26,914	48,307	(21,393)	(24.7%)	(2.5%)	104.9%

1. Assumes the board continues its prior practice and maintains current contribution levels until the associated UAO is paid off.

2. Projected benefit payments include estimated administrative expenses.

## 10. Risk Disclosures

The results of any actuarial valuation are based on a set of assumptions. Although we believe the current DB Program assumptions provide a reasonable estimate of future expectations, it is almost certain that future experience will differ from the assumptions to some extent.

The following is a general discussion of the potential risks to CalSTRS funding. A more comprehensive analysis of potential risks to future DB Program funding levels ("Review of Funding Level and Risks") is completed each fall by CalSTRS internal actuarial staff.

### Factors Affecting Future Results

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 supplemental contribution rates. Examples of factors that can have a significant impact on valuation results are:

- Investment return
- Payroll variation
- Salary variation
- Mortality (how long retirees live)
- Service retirement
- Termination (members leaving active employment for reasons other than death, disability, or service retirement)
- Contribution limitations. The board has limited rate-setting authority. If significant contribution increases are needed in the future, CalSTRS may receive insufficient funding due to the limitations on the board's ability to increase contribution rates under the current law. Projections based on the valuation assumptions indicate this is not currently an issue.

Of these factors, we believe the factor with the greatest potential risk is future investment returns. Payroll variation could also have a significant impact if there was a significant decline in the active teacher population, which, for example, could occur if there was a large increase in the number of new charter schools not participating in CalSTRS.

As an example of these risks, if actual investment returns fall short of the current assumption of 7% per year, this will cause an increase in the total supplemental contribution rate and a decrease in the Funded Ratio for the DB Program, all other things being equal. Conversely, if returns exceed 7%, this will decrease the total supplemental contribution rate and increase the Funded Ratio.

### Maturity Risk

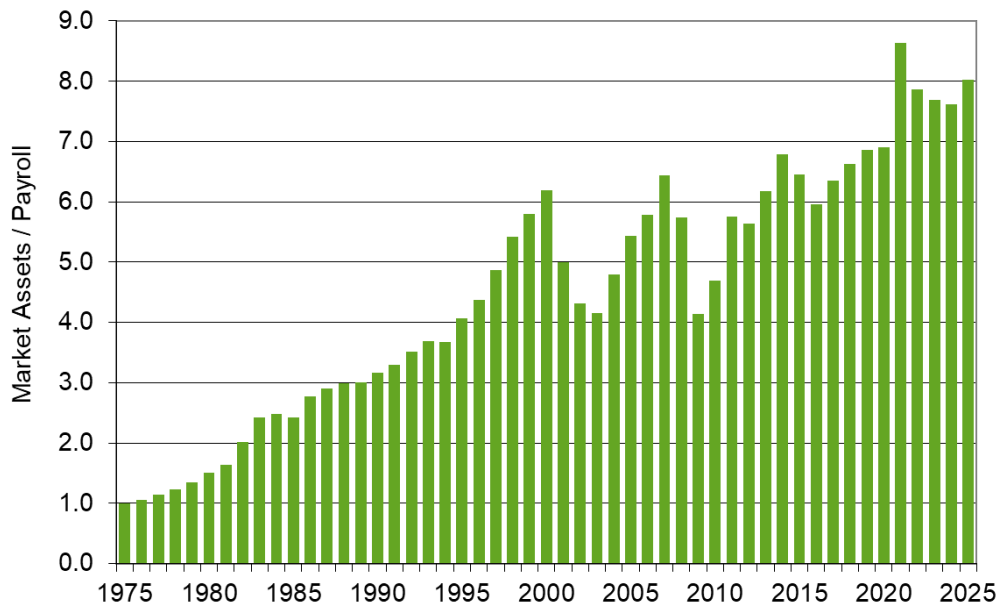
The magnitude of any contribution rate increase or decrease is affected by the Program's maturity level. As the DB Program becomes more mature (i.e., the number of retirees grows compared to the number of actives, and the accumulated assets grow compared to payroll), it tends to be subjected to increased volatility in the contribution rates needed. Specifically, for CalSTRS there may be significant fluctuations in the state supplemental contribution rates (and to a lesser extent the employer contribution rates) from year to year due to the actual investment return. One way to measure maturity risk is volatility ratios.

One indicator of this potential volatility is the Asset Volatility Ratio (AVR), which is equal to the Fair Market Value of Assets divided by total payroll. Note that for purposes of the AVR calculation, the assets include the SBMA. Plans with a high Asset Volatility Ratio will be subjected to a greater level of contribution rate volatility. The AVR is a current measure since it is based on the current level of assets and will vary from year to year.

For CalSTRS, the current AVR is equal to 8.0, which is typical for a mature system. This means that for each 1% asset loss (in relation to the assumed investment return), there will need to be an increase in contributions equivalent to 8.0% of one-year's payroll. Since CalSTRS is currently targeting a funding period of 20 years (the years from the next valuation date to June 30, 2046), the increase (or decrease) in the state and employer contribution rates will be spread out over 20 years, resulting in approximately a 0.56% of payroll increase (or decrease) in the total contribution rate needed for each 1% asset loss (or gain). An asset loss (or gain) will primarily cause a contribution rate increase (or decrease) for the state and have a much smaller impact on the employer contribution rate.

The following graph shows how the System matured during the last 25 years of the 20<sup>th</sup> Century, as represented by the increasing AVR. Since 2010, there has generally been a slow gradual increase in the AVR, although there was a large increase in the 2021 valuation due to the significant increase in the market value of assets.

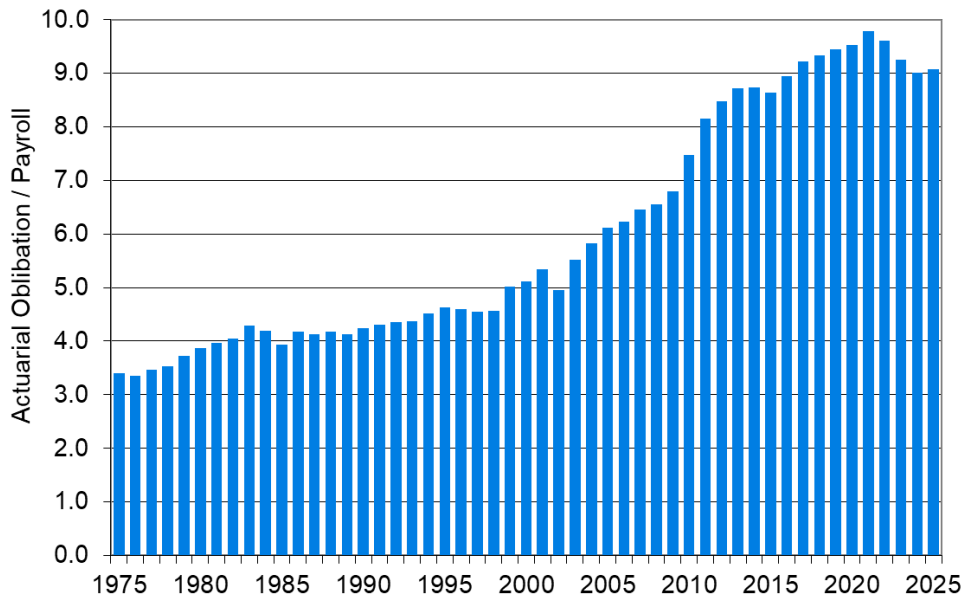
**Historical Asset Volatility Ratio**



Another measure of a system's maturity is the Liability Volatility Ratio (LVR), which is equal to the Actuarial Obligation divided by the total payroll. This ratio provides an indication of the longer-term potential for contribution rate volatility if CalSTRS becomes fully funded. In addition, this ratio provides an indication of the potential contribution rate volatility due to liability experience (gains and losses) and liability re-measurements (assumption changes). For CalSTRS, the current LVR is 9.1.

The following graph shows the historical LVR. 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, although there have been larger changes in years where assumptions changes have occurred.

**Historical Liability Volatility Ratio**



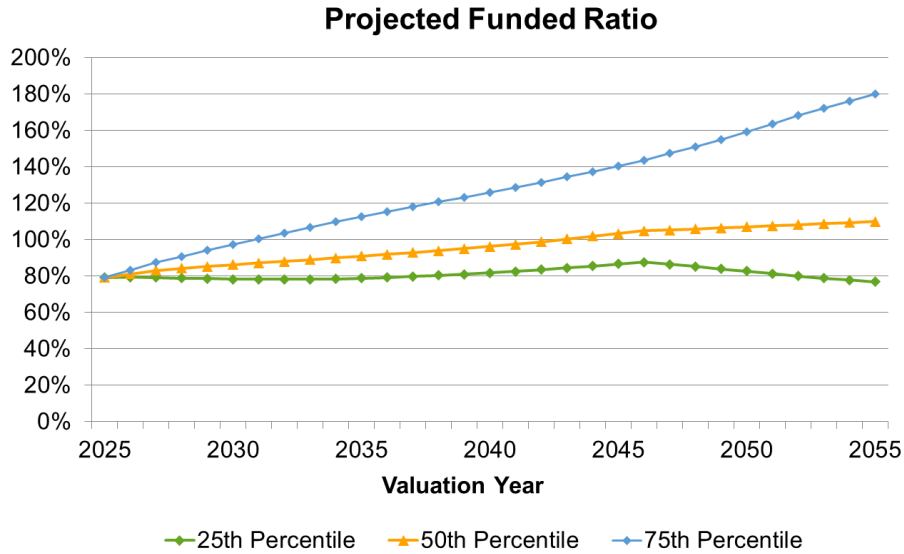
**Projections Under Alternate Return Scenarios**

Actuarial valuations are based on a certain set of assumptions. The reality is that these assumptions will not be exactly met and that this will affect future valuation results. Investment returns will likely have the biggest impact on the future funding of CalSTRS. In the following graphs, we show some simple examples of the future variation that may occur on key funding metrics. This is not intended to be a comprehensive analysis of the potential risks to CalSTRS funding, but it will provide the board a general sense of the sensitivity of funding levels and contribution rates caused by returns that are above or below the assumption over a long period.

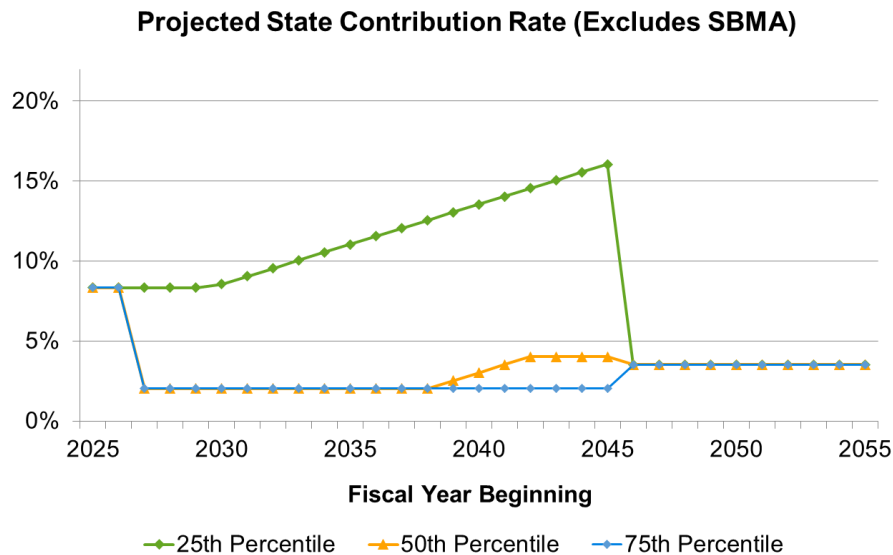
To show potential variability of future returns, we have assumed CalSTRS earns the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> percentile returns over the next 30 years. This assumes a median (50<sup>th</sup> percentile) geometric return of 7.0% and a standard deviation of 10.2% (before adjusting for the impact of guaranteed SBMA crediting). The average 30-year returns shown for the 30-year period are approximately 5.6% for the 25<sup>th</sup> percentile and 8.4% for the 75<sup>th</sup> percentile. We have assumed that the board would continue its prior practice of maintaining the current contribution levels unless an increase was calculated under the valuation policy or the associated UAO was paid off.

Note that the 25<sup>th</sup> percentile indicates there is a 25% probability of earning a return lower than 5.6%. This may be different than the way investment professionals use percentiles, but we have used this approach for consistency with the way CalSTRS actuarial staff reports percentiles in their risk report.

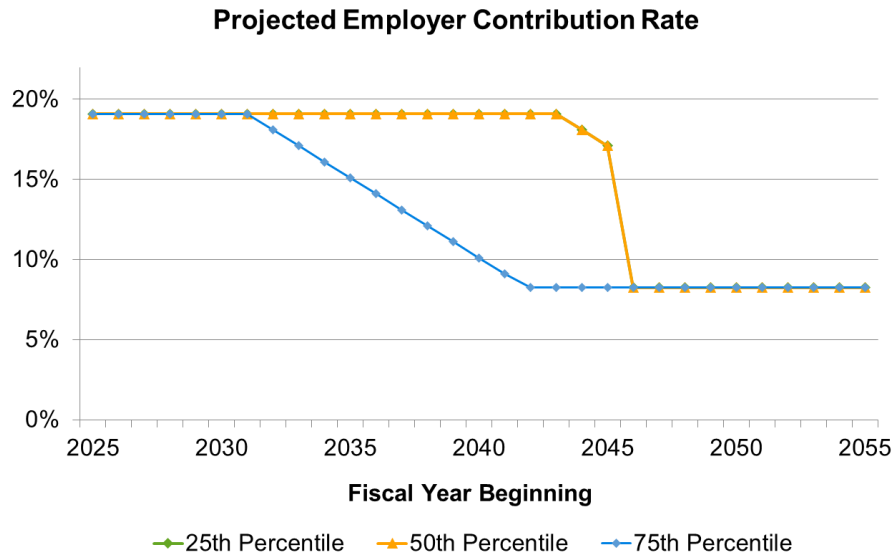
The graph below shows the potential impact of alternate returns on CalSTRS Funded Ratio. The green line (below-average returns) illustrates how the caps on contribution rate increases restrict CalSTRS ability to make significant progress toward its funding goal following sustained below-average returns.



The following graph shows the potential impact of alternate returns on the state contribution rate (excluding contributions to the SBMA). The state's contribution rate is quite sensitive to future returns, although the 0.5% cap on increases prevents large year-over-year increases. It should be noted that minimizing the year-over-year increases defers these costs and ultimately results in a higher ultimate contribution level than if the full increase needed was implemented in the following fiscal year.



The graph below shows the potential impact of varying returns on the employer contribution rate.



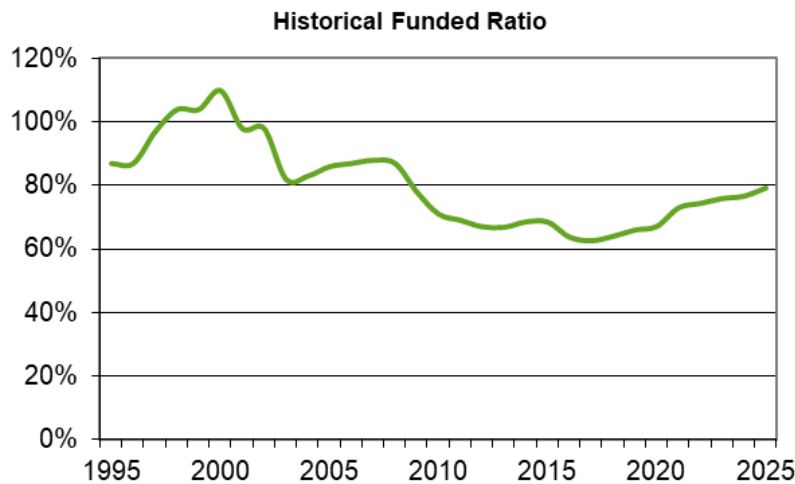
Member rates are not affected by future returns; however, the 2% at 62 member contributions may be affected by future changes in the investment return assumption or other assumption changes.

**Sensitivity to Payroll Growth**

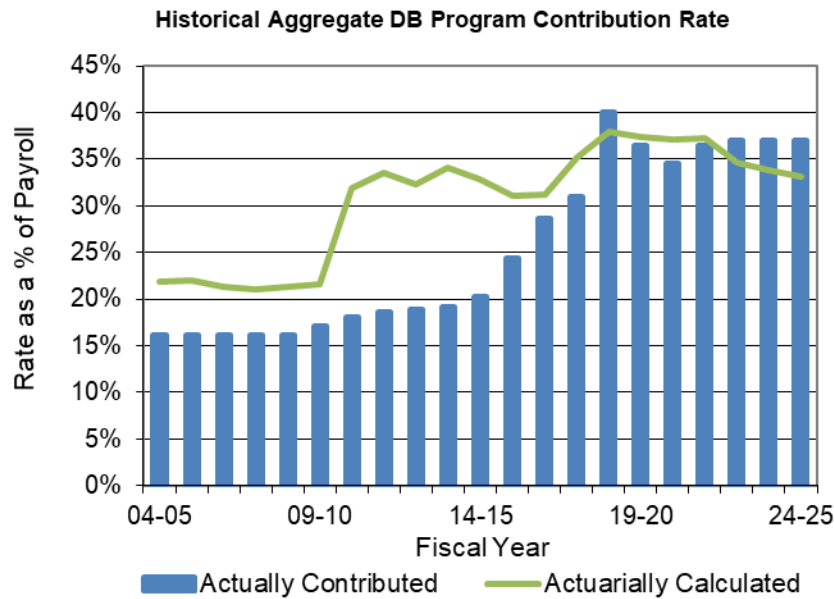
As discussed in this report, we believe future investment returns are likely to have the greatest impact on future CalSTRS funding and contribution rates. We believe a secondary factor could be variance in the total payroll for CalSTRS members. For example, if there was a 10% decline in the payroll next year, the projected Funded Ratio in 2046 would decrease to 99.6% (from 104.9%), and the total contribution rate from all stakeholders would be projected to ultimately increase by about 2.6% of pay by the end of the funding plan in 2046. Note that this assumes that the decrease in payroll is due only to a decline in the active population (as opposed to decreases or less-than-assumed increases in members' compensation).

### Historical Measures

One way to assess future risks is to look at historical measurements. The graph below shows how the DB Program Funded Ratio has varied over the last 30 years. In particular, it reflects the significant impact that investment returns can have. The strong returns of the 1990's caused a large increase in the Funded Ratio. Since 2000, actual returns have lagged the assumption causing a drag on the asset growth, and the investment return assumption has decreased causing an increase in the actuarial obligation. Additionally, benefit levels were increased in 2001 (although they have been subsequently decreased under PEPRA for post-2012 new hires), and the actual contribution rate has been less than the actuarially determined rate during most of the period. These factors, along with the financial crisis in 2007-2008 and the large negative asset return the system experienced in fiscal year 2008-09, have been the primary causes of the decline in the Funded Ratio since 2000.



The graph below shows the history of the actual contributions made (blue bar) as a percentage of payroll. The green line shows the actuarially calculated contribution rate based on amortizing the UAO by June 30, 2046 (for years before 2014, a 30-year amortization was used). There has been variance in both rates. As previously noted, as the DB Program continues to mature, year-to-year variance is projected to increase. Year-to-year changes in the actual contribution rate will likely be less than for the actuarially calculated rate due to the restrictions on changes in the state and employer supplemental contribution rates. Note that for purposes of this graph, the contribution rates include member, employer and state contributions to the DB Program and excludes contributions to the SBMA and other programs.



Note: For the 2018-19 fiscal year, the amount actually contributed exceeded the actuarially calculated amount due to additional state contributions made.

As shown in the graph, the amount actually contributed generally fell short of the actuarially calculated amount for most of the period. Since the implementation of the funding plan, this gap gradually closed, and there is no longer a shortfall. Actual contributions for fiscal years 2022-23 and later have exceeded the actuarially calculated amount. For the 2025-26 fiscal year, the actual contributions are also projected to exceed the actuarially calculated amount.

**Low-Default Risk Obligation Measure (LDRM)**

Effective for measurement dates February 15, 2023 or later, Actuarial Standard of Practice 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 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 the Bond Buyer General Obligation 20-Bond Municipal Bond Index. The index is a 20-year high quality AA municipal bond rate. Based on Section 3.11.c. of ASOP 4, we believe this index meets the requirements for a discount rate for the LDRM, and the 20-year period is a reasonable approximation for the duration of the plan liabilities. The index was 5.20% as of June 30, 2025. Based on a discount rate of 5.20%, the Actuarial Obligation as of June 30, 2025 would be \$495 billion compared to \$396 billion using the investment return assumption of 7.0%.

The LDRM provides the plan sponsors and other interested parties with an additional funding metric for the DB Program for informational purposes, but does not impact the funding of the DB Program which is based on the valuation assumptions. The difference between the DB Program Actuarial Obligation and the LDRM can be viewed as the additional cost to significantly lower risk by investing in low-default-risk securities. Alternatively, this difference could be viewed as representing the estimated expected (but not guaranteed) long-term savings gained by investing in a diversified portfolio compared to investing only in low-default-risk securities.

CalSTRS's investment policy and its target asset allocation reflect a balance of risk and return. CalSTRS analyzes the merits of different asset allocations every four years as part of the asset-liability-modeling process. The board has determined that investing in a diversified portfolio best serves its members and other stakeholders. The expected return based on CalSTRS's target allocation, and consequently the investment return assumption, is significantly higher than the discount rate based on the Bond Buyer Index.

Investing in asset classes with a low default risk would be expected to reduce future investment returns and therefore increase future contributions needed (from the state, employers, and 2% at 62 members) and lower the current Funded Ratio. However, the lower investment risk levels would be expected to result in lower year-to-year volatility in the state and employer contribution rates, and a portfolio with a lower default risk might provide more benefit security for members if the associated liabilities could be adequately funded. Conversely, investing in asset classes with higher expected returns and volatility would be expected to decrease future contributions and increase the current Funded Ratio, but it would increase the year-to-year volatility of the state and employer contribution rates.

## Appendix A Provisions of Governing Law

The actuarial calculations contained in this report are based upon our understanding of the CalSTRS DB Program as contained in Part 13 of the California Education Code and augmented by consultation with CalSTRS staff. The provisions used in this valuation are summarized below for reference purposes.

### Membership

2% at 60 Members: Members first hired on or before December 31, 2012 and certain other members who participated in select retirement systems prior to 2013. Coverage B consists of members hired on or after October 16, 1992 or Coverage A members who elected Coverage B before April 1993.

2% at 62 Members: Members first hired on or after January 1, 2013 and not eligible for 2% at 60 membership. All 2% at 62 members are Coverage B.

### Member Contributions

Base Contribution Rate:

2% at 60 Members: 8.0% of creditable compensation. 25% of this contribution was redirected to the member's Defined Benefit Supplement account from January 1, 2001 through December 31, 2010.

The redirection of member contributions does not apply to the 1990 Benefit Structure.

2% at 62 Members: Equal to one-half of the Normal Cost Rate determined in the valuation rounded to the nearest quarter percent. Member rates only change when the Normal Cost Rate changes by 1.0% of payroll as compared to the initial Normal Cost Rate (or at the time of the last adjustment). Currently, the base member contribution rate is equal to 9.0% of creditable compensation.

Supplemental Contribution Rates:

In addition to the base contribution rates, members make additional contributions for fiscal years beginning July 1, 2016 and later:

2% at 60 Members: 2.250% of creditable compensation

2% at 62 Members: 1.205% of creditable compensation

Interest Rate:

Interest is credited at the end of each fiscal year based on rates adopted by the Teachers' Retirement Board. Currently, rates are approximately equal to two-year Treasury notes.

### Normal Retirement

Eligibility Requirement:

2% at 60 Members: Age 60 with five years of credited service.

2% at 62 Members: Age 62 with five years of credited service.

Allowance:

Two percent of final compensation for each year of credited service.

Final Compensation:

2% at 60 Members: Average annualized pay rate for the highest three consecutive years of credited service for one position. For members with 25 years of service, the calculation is based on the highest average annualized pay rate in a consecutive 12-month period.

Twelve-month highest average compensation does not apply to the 1990 Benefit Structure.

2% at 62 Members: Final compensation is based on the highest three consecutive years of annualized pay rate. Compensation is limited to 120% of the 2013 Social Security Wage Base with adjustments. The limit effective July 1, 2025 is \$187,369 (after applying the 120% factor) and is adjusted annually based on changes to the Consumer Price Index for All Urban Consumers. The 2% at 62 members are not eligible for the one-year final compensation benefit enhancement.

Credited Service:

For each year of membership, credited service is granted based on the ratio of salary earned to full-time annualized pay rate for one position.

Sick Leave Service Credit:

Credited service is granted for unused sick leave at the time of retirement. Sick Leave Service Credit up to 0.2 years of Credited Service may be used for eligibility for One-Year Final Compensation or to attain the Career Factor or the Longevity Bonus.

Unused sick leave service credit does not apply to the 1990 Benefit Structure for members hired after June 30, 1980.

Career Factor:

If a member has 30 years of credited service, the age factor is increased by 0.2%. However, the maximum age factor is 2.4%.

Career factor does not apply to 2% at 62 members or the 1990 Benefit Structure.

Longevity Bonus:

For members attaining 30 years of service by January 1, 2011, a longevity bonus of \$200 per month is added to the unmodified allowance. The bonus is increased to \$300 per month with 31 years of service, and \$400 per month with 32 or more years of service.

Longevity Bonus does not apply to 2% at 62 members or the 1990 Benefit Structure.

IRC Section 415:

Benefits are subject to limits imposed under Internal Revenue Code (IRC) Section 415. However, no limits are imposed in the valuation of the DB Program until they actually occur, in order to address the potential pay-as-you-go funding needs of the Teachers' Replacement Benefits Program Fund.

IRC Section 401(a)(17):

Compensation is limited under IRC Section 401(a)(17) and assumed to increase at the rate of inflation for valuation purposes. Current 401(a)(17) limits do not apply to members hired before July 1, 1996.

## Early Retirement

Eligibility Requirement:

2% at 60 Members: Age 55 with five years of credited service, or age 50 with 30 years of credited service.

2% at 62 Members: Age 55 with five years of credited service.

Benefit Reduction:

2% at 60 Members: A half-percent reduction in the normal retirement allowance for each full month or partial month the member is younger than age 60, plus a reduction of a quarter percent for each full month or partial month the member is younger than age 55.

2% at 62 Members: A half-percent reduction in the normal retirement allowance for each full month or partial month the member is younger than age 62.

### Late Retirement

Allowance:

2% at 60 Members: Members continue to earn additional service credit after age 60. The 2% age factor increases by 0.033% for each quarter year of age that the member is over age 60, up to a maximum of 2.4%.

2% at 62 Members: Members continue to earn additional service credit after age 62. The 2% age factor increases by 0.033% for each quarter year of age that the member is over age 62, up to a maximum of 2.4%.

The late retirement adjustment does not apply to the 1990 Benefit Structure.

### Deferred Retirement

Allowance:

Any time after satisfying the minimum service requirement, a member may cease active service, leave the accumulated contributions on deposit, and later retire upon attaining the minimum age requirement.

### Post-Retirement Benefit Adjustment

Benefit Improvement:

2% simple increase on September 1 following the first anniversary of the effective date of the allowance, applied to all continuing allowances.

### Coverage for Disability and Survivor Benefits

Coverage A: CalSTRS member on or before October 15, 1992 and did not elect Coverage B before April 1993.

Coverage B: Not a Coverage A member.

### Disability Allowance - Coverage A

Eligibility Requirement Allowance:\*

Member has five years of credited California service and has not attained age 60.

- 50% of final earned compensation or
- 5% of final earned compensation for each year of service credit if over age 45 with less than 10 years of service credit.

*\*Note that, for valuation purposes, the greater of the service retirement allowance and the disability allowance is valued if the member is eligible for service retirement.*

Children's Benefit:

10% for each eligible dependent child, up to a maximum of 40% of final earned compensation. The increment for each eligible child continues until the child marries or attains age 22.

Offsets:

Allowance, including children's increment, is reduced by disability benefits payable under Social Security, Workers' Compensation, and employer-paid income protection plan.

**Disability Allowance - Coverage B (including 2% at 62 members)**

Eligibility Requirement:

Member has five years of credited California service.

Allowance:\*

50% of final compensation, regardless of age and service credit.

*\* Note that, for valuation purposes, the greater of the service retirement allowance and the disability allowance is valued if the member is eligible for service retirement.*

Children's Benefit:

10% for each eligible child up to four children, for a maximum of 40% of final compensation. The increment for each child continues until the child attains age 21, regardless of student, marital, or employment status.

Offsets:

The member's allowance is reduced by disability benefits payable under Workers' Compensation.

**Death Before Retirement - Coverage A**

Eligibility Requirement:

One or more years of service credit for active members or members receiving a disability allowance. Ineligible members may receive a lump sum payment of their contributions with interest.

Lump Sum Payment:

\$7,288 lump sum to the designated beneficiary. If there is no surviving spouse, domestic partner, or eligible children, the contributions and interest are paid to the designated beneficiary.

Allowance:

The surviving spouse or domestic partner with eligible children will receive a family benefit of 40% of final compensation for as long as there is at least one eligible child. An additional 10% of final compensation is payable for each eligible child up to a maximum benefit of 90%.

If there is no surviving spouse or domestic partner, an allowance of 10% of final compensation is payable to eligible children up to a maximum benefit of 50%.

When there are no eligible children, the spouse or domestic partner may elect to receive one-half of a 50% joint and survivor allowance projected to the member's age 60, or take a lump sum payment of the remaining contributions and interest.

### **Death Before Retirement - Coverage B (including 2% at 62 members)**

#### Eligibility Requirement:

One or more years of service credit for active members. Ineligible members may receive a lump sum payment of their contributions with interest.

#### Lump Sum Payment:

\$29,152 lump sum to the designated beneficiary. If there is no surviving spouse or domestic partner, the contributions and interest are paid to the designated beneficiary.

#### Allowance:

A lump sum payment of the contributions and interest. Or, one-half of a 50% joint and survivor allowance, beginning on the member's 60th birthday, or immediately with a reduction based on the member's and spouse's (or domestic partner's) ages at the time the benefit begins.

If the surviving spouse or domestic partner elects a monthly allowance, each eligible child would receive 10% of the member's final compensation, with a maximum benefit of 50%.

### **Death After Retirement**

#### Lump Sum Payment:

\$7,288 lump sum to the designated beneficiary.

#### Annuity Form:

If the retiree had elected one of the joint and survivor options, the retirement allowance would be modified in accordance with the option selected.

If no annuity option had been elected, payment of the unpaid contributions and interest, if any, remaining in the retiree's account will be made.

### **Termination from the Program**

#### Refund:

Refund of contributions with interest as credited to the member's account to date of withdrawal. A refund terminates membership and all rights to future benefits from the System.

#### Re-entry After Refund:

Former members who re-enter the System may redeposit all amounts previously refunded plus regular interest. The member must earn one year of credited service after re-entry before becoming eligible for System benefits.

### **Changes from Prior Valuation**

#### Changes in plan provisions reflected in this valuation:

- PEPRA compensation limits have been updated to reflect the current year.
- Lump sum death benefits have been increased to reflect board action.

## Appendix B Actuarial Methods and Assumptions

This section of the report discloses the actuarial methods and assumptions used in this Actuarial Valuation. These methods and assumptions have been chosen on the basis of recent experience of the DB Program and on current expectations as to future economic conditions. The assumptions were adopted by the board in January 2024 as a result of the 2024 Experience Analysis. The assumptions were first implemented in the June 30, 2023 actuarial valuation which was completed and presented to the board in May 2024. The assumptions were reviewed for continued reasonableness with the June 30, 2025 valuation; no changes were made. Please refer to the Experience Analysis report dated December 22, 2023 for the data and rationale used in the recommendation of each assumption.

The assumptions are intended to estimate the future experience of the members of the DB Program and of the DB Program 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 estimated costs of the DB Program's benefits.

### Actuarial Cost Method

#### Entry Age Cost Method:

The accruing costs of all benefits with future accruals are measured by the Entry Age Cost Method. For measurements where no future service is earned (i.e., those with service fixed as of June 30, 2014), the Actuarial Obligation uses the Projected Unit Credit Cost Method. The projected revenue in excess of the Normal Cost Rate is tested for sufficiency to amortize the total Unfunded Actuarial Obligation calculated under the applicable cost method. Additional details of the amortization of the Unfunded Actuarial Obligation are shown in the Amortization Method subsection following.

The actuarial present value of projected benefits for each individual member included in the 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 Normal Cost is based on the respective benefit structures. For projection purposes, the Normal Cost Rate is assumed to increase by a relative 0.12% per year to reflect an assumed gradual increase in life expectancies due to generational mortality. 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 Obligation. The excess of the Actuarial Obligation over the Actuarial Value of Assets is called the Unfunded Actuarial Obligation. If the Actuarial Value of Assets exceeds the Actuarial Obligation, the difference is called the Actuarial Surplus.

#### Entry Age:

The ages at entry of future active members are assumed to average the same as the entry ages of the present active members they replace. If the number of active members should increase (or decrease), it is further assumed that the average entry age of the larger (or smaller) group will be the same, from an actuarial standpoint, as that of the present active group. Under these assumptions, the Normal Cost Rate will not vary significantly due to the termination of the present active membership, or with an expansion or contraction of the active membership.

Entry age is determined as the age at membership date.

#### Projected Unit Credit (PUC) Cost Method:

This cost method is used for calculations of the Actuarial Obligation where there are no future service accruals after 2014. Under the PUC method, the actuarial present value of projected benefits for each individual member included in the valuation is determined based on the current service and salary projected to the age the member leaves active employment. The Normal Cost is \$0 since no benefits are being earned.

## Asset Valuation Method

The assets are valued using a method that delays recognition of investment gains or losses. The expected actuarial value is the prior year's actuarial value increased with net cash flow of funds, and all increased with interest during the past year at the expected investment return assumption. One-third of the difference between the expected Actuarial Value of Assets and the Fair Market Value of Assets is added to the expected Actuarial Value of Assets to arrive at the Actuarial Value of Assets. The smoothing is applied on the total DB Program assets and then the SBMA is deducted to determine the net actuarial value for funding purposes. The Fair Market Value excludes the liability for "Net Pension and OPEB Obligation," which are pre-recognized administrative expenses, from the Fiduciary Net Position reported for accounting purposes.

## Amortization Method

Under the board's valuation policy, the Unfunded Actuarial Obligation (or Surplus Funding) is amortized as a percentage of the projected future payroll using the payroll growth assumption. The Unfunded Actuarial Obligation is divided into three pieces under the policy and funded as follows:

1. For the Unfunded Actuarial Obligation attributable to the 1990 Benefit Structure, the state funds this piece over a closed amortization period ending June 30, 2046. The state makes a supplemental contribution rate which is described at the beginning of Section 6. A portion of the supplemental contribution rate is used to fund the 1990 Normal Cost deficit, which is the shortfall between the basic 16% contribution rate (8.00% state and 8.00% employer) under the 1990 Contribution Structure and the Normal Cost Rate associated with the 1990 Benefit Structure. The remaining portion of the state supplemental contribution rate is used to fund the 1990 UAO. Note that for the state, the payroll is the second prior fiscal year payroll, so state contributions made in fiscal year 2025-2026 will be based on the covered member compensation for fiscal year 2023-2024.
2. For the Unfunded Actuarial Obligation attributable to benefit changes after 1990 for service as of June 30, 2014, the employers fund the majority of this piece as an employer supplemental contribution over a closed amortization period ending June 30, 2046. This portion of the UAO is funded through the 0.25% employer sick leave contribution under EC 22951, the 2.017% state contribution rate under EC 22955, and an actuarially calculated employer supplemental contribution rate under EC 22950.5 which is described at the beginning of Section 7.
3. The Unfunded Actuarial Obligation not included in the other two pieces is referred to as the "Unallocated UAO." Under the valuation policy, a portion of each year's total contributions, equal to the Normal Cost of the New Benefits (those not a part of the 1990 Benefit Structure), is allocated to fund these benefits. Since the contribution is equal to the Normal Cost, there are no remaining contributions to pay down the Unallocated UAO, if any. Therefore, the Unallocated UAO will increase or decrease based on future experience.

## Actuarial Assumptions

The Actuarial Standards Board has adopted Actuarial Standard of Practice No. 27, *Selection of Assumptions for Measuring Pension Obligations*. This Standard provides guidance on selecting assumptions under defined benefit retirement programs such as CalSTRS. In our opinion, the assumptions have been developed in accordance with the Standard.

The assumptions are intended to estimate the future experience of the members of the DB Program 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 estimated costs of the Program's benefits.

The demographic assumptions are listed in Table B.1 and illustrated at selected ages and duration combinations in Tables B.2 – B.7. Members are assumed to leave active employment mid-year, except that when there is a 100% probability of retirement, then members are assumed to leave active employment at the beginning of the year.

Active members are assumed to earn service at a rate based on the current service credit amount provided by CalSTRS.

### Payroll Growth Assumption

The DB Program payroll is assumed to increase at a rate of 3.25% each year, which is 0.25% less than the general wage growth assumption. As discussed in the 2024 Experience Study, the board's adoption of a lower payroll growth assumption reflects the potential downward pressure on total CalSTRS payroll in the future due to several factors, including projected decreases in the California student population.

Note that when projecting payroll used to calculate contribution rates, an additional payroll increase of 1.00% is assumed in the first year. This adjustment reflects that teachers tend to exit employment in May or June and their replacements may not be hired by the valuation date of June 30, so the active member data may understate the payroll. The additional 1.00% increase in the first year is assumed to account for this.

### Records and Data

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

#### Assumption for 1990 Benefits for Beneficiaries of 2% at 60 Members

Note that for retirees with an initial retirement date (generally the member's date of retirement) after 1998, information is not available to calculate the 1990 benefit for beneficiaries. Therefore the 1990 benefit is estimated as a percentage of the total benefit for beneficiaries. The percentage adjustment was based on an analysis of actual 2% at 60 service retirees by year and the proportion of their total benefit that was attributable to the 1990 formula. Based on this analysis, the 1990 benefit is assumed to be X% of the total benefit as follows for beneficiaries of 2% at 60 members:

- Initial Retirement Date is between 1/1/1999 and 12/31/2000: 1990 Benefit = 85% of the Total Benefit
- Initial Retirement Date is between 1/1/2001 and 12/31/2009: 1990 Benefit = 80% of the Total Benefit
- Initial Retirement Date is on or after 1/1/2010: 1990 Benefit = 82% of the Total Benefit

#### Assumption for 1990 Benefits for Beneficiaries of 2% at 62 Members

The benefit attributable to the 1990 Structure is assumed to be 96.5% of the total benefit for all beneficiaries of 2% at 62 members. This assumption is based on the ratio of the 1990 normal cost rate to the current 2% at 62 normal cost rate.

### Changes from Prior Valuation

None.

**Table B.1**  
**List of Major Valuation Assumptions**

**Economic Assumptions**

	<u>Annual Increase</u>
Investment Return (net of investment and administrative expenses)	7.00%
Interest on Member Accounts	3.00%
Wage Growth	3.50%
Payroll Growth	3.25%
Inflation	2.75%
Lump-sum Death Benefit Amount Increases	0.00%

**Demographic Assumptions**

Mortality <sup>(1)</sup>		
Active - Male	2023 CalSTRS Active Member Male	Table B-2
Active - Female	2023 CalSTRS Active Member Female	Table B-2
Retired & Beneficiary - Male	2023 CalSTRS Service Retired Male	Table B-2
Retired & Beneficiary - Female	2023 CalSTRS Service Retired Female	Table B-2
Disabled - Male	2023 CalSTRS Disabled Retiree Male	Table B-2
Disabled - Female	2023 CalSTRS Disabled Retiree Female (select rates in first three years for both Males and Females)	Table B-2
Service Retirement		Table B-3a-f
Disability Retirement		Table B-4
Withdrawal		Table B-5
Probability of Refund		Table B-6
Merit Salary Increases		Table B-7
Supplemental Assumptions		Table B-8

*1. The mortality assumption uses a generational mortality approach with a base year of 2023. Projected improvement is based on the MP-2021 Ultimate Projection Scale. The combined base tables and projection scale specified contain a margin for expected future mortality improvement.*

**Table B.2  
 Mortality**

Age	Active Members <sup>(1)</sup>		Projection
	Male	Female	Scale
25	0.014%	0.008%	1.350%
30	0.023	0.014	1.350
35	0.033	0.022	1.350
40	0.044	0.031	1.350
45	0.063	0.042	1.350
50	0.106	0.065	1.350
55	0.184	0.099	1.350
60	0.279	0.146	1.350
65	0.400	0.211	1.310

Age	Retired Members and Beneficiaries <sup>(1)</sup>		Disabled Members (After Year 3) <sup>(1)</sup>		Projection
	Male	Female	Male	Female	Scale
50	0.195%	0.141%	1.446%	0.929%	1.350%
55	0.312	0.226	1.971	1.187	1.350
60	0.445	0.289	2.447	1.397	1.350
65	0.575	0.369	2.720	1.577	1.310
70	0.903	0.602	3.573	2.016	1.240
75	1.754	1.195	4.981	3.206	1.170
80	3.482	2.416	7.139	5.421	1.100
85	6.893	5.007	10.794	9.021	0.870
90	12.924	9.999	16.596	14.059	0.630
95	22.529	17.907	24.286	20.081	0.400

**Select minimum rates for disability:**

First year of disability	4.0%	4.0%
Second year of disability	3.5	3.0
Third year of disability	3.0	2.0

*1. The mortality assumption uses a generational mortality approach with a base year of 2023 for the mortality rates. Projected improvement is based on the MP-2021 Ultimate Projection Scale. The rates shown reflect mortality improvement through June 30, 2023. The projection scale does not apply to the select minimum rates.*

**Table B.3a**  
**Service Retirement – 2% at 60 Males**

DB Program - 2% at 60 Members - Males							
Age	Years of Credited Service						
	5-9 years	10-14 years	15-19 years	20-24 years	25 years	26-29 years	30 or More Years
50	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%
51	0.0	0.0	0.0	0.0	0.0	0.0	3.0
52	0.0	0.0	0.0	0.0	0.0	0.0	3.0
53	0.0	0.0	0.0	0.0	0.0	0.0	3.0
54	0.0	0.0	0.0	0.0	0.0	0.0	3.0
55	1.5	2.0	2.5	3.0	3.5	3.0	5.0
56	1.5	1.5	2.0	2.5	3.5	3.0	5.0
57	1.5	1.5	2.0	2.5	5.0	4.0	7.5
58	2.0	2.5	3.0	3.5	6.0	5.0	11.0
59	2.5	3.0	4.0	5.0	9.5	8.0	17.0
60	4.0	5.0	6.5	8.0	13.0	11.0	25.0
61	6.0	7.0	9.0	11.0	18.0	18.0	50.0
62	8.0	9.0	12.0	14.5	24.0	24.0	42.0
63	9.0	10.5	14.0	17.0	28.0	28.0	33.0
64	11.0	13.0	17.0	20.5	25.0	25.0	33.0
65	13.0	15.0	20.0	24.0	25.0	25.0	32.5
66	13.0	15.0	20.0	24.0	25.0	25.0	30.0
67	11.5	13.5	18.0	21.5	25.0	25.0	27.0
68	11.5	13.5	18.0	21.5	25.0	25.0	27.0
69	11.5	13.5	18.0	21.5	25.0	25.0	25.0
70	11.5	13.5	18.0	21.5	25.0	25.0	25.0
71	11.5	13.5	18.0	21.5	25.0	25.0	25.0
72	11.5	13.5	18.0	21.5	25.0	25.0	25.0
73	11.5	13.5	18.0	21.5	25.0	25.0	25.0
74	11.5	13.5	18.0	21.5	25.0	25.0	25.0
75+	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*The assumptions shown above are for retirement from active status. It is assumed that all vested terminated 2% at 60 members retire at age 60.*

**Table B.3b**  
**Service Retirement – 2% at 60 Females**

DB Program - 2% at 60 Members - Females							
Age	Years of Credited Service						
	5-9 years	10-14 years	15-19 years	20-24 years	25 years	26-29 years	30 or More Years
50	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%
51	0.0	0.0	0.0	0.0	0.0	0.0	2.5
52	0.0	0.0	0.0	0.0	0.0	0.0	2.5
53	0.0	0.0	0.0	0.0	0.0	0.0	2.5
54	0.0	0.0	0.0	0.0	0.0	0.0	4.0
55	2.0	2.5	3.5	4.5	4.5	4.0	6.5
56	2.0	2.5	3.0	4.0	4.0	3.5	6.5
57	2.0	2.5	3.5	4.5	6.0	5.0	9.0
58	2.5	3.0	4.0	5.0	6.5	5.5	12.0
59	3.5	4.5	6.0	7.5	11.5	10.0	18.0
60	5.0	6.0	8.0	10.0	16.0	14.0	26.0
61	6.5	8.5	11.0	14.0	22.0	21.0	52.0
62	8.5	11.0	14.5	18.0	31.5	30.0	44.0
63	11.0	13.5	18.0	22.5	35.5	34.0	37.0
64	12.0	15.0	20.0	25.0	33.5	32.0	37.0
65	12.5	16.0	21.0	26.5	33.5	32.0	35.0
66	12.0	15.0	20.0	25.0	31.5	30.0	32.0
67	12.0	15.0	20.0	25.0	31.5	30.0	32.0
68	12.0	15.0	20.0	25.0	31.5	30.0	30.0
69	12.0	15.0	20.0	25.0	31.5	30.0	30.0
70	12.0	15.0	20.0	25.0	29.5	28.0	30.0
71	12.0	15.0	20.0	25.0	29.5	28.0	30.0
72	12.0	15.0	20.0	25.0	29.5	28.0	30.0
73	12.0	15.0	20.0	25.0	29.5	28.0	30.0
74	12.0	15.0	20.0	25.0	29.5	28.0	30.0
75+	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*The assumptions shown above are for retirement from active status. It is assumed that all vested terminated 2% at 60 members retire at age 60.*

**Table B.3c**  
**Service Retirement – 2% at 62 Males**

DB Program - 2% at 62 Members - Males						
Age	Years of Credited Service					
	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30 or More Years
50	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
51	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0
55	1.0	1.5	2.0	2.5	2.5	3.0
56	1.0	1.0	1.5	2.0	2.5	3.0
57	1.0	1.0	1.5	2.0	3.0	3.5
58	1.5	2.0	2.5	2.5	4.0	5.0
59	2.0	2.5	3.0	4.0	6.0	7.0
60	3.0	4.0	5.0	6.0	8.5	10.0
61	4.5	5.5	7.0	8.5	13.5	16.0
62	6.0	7.0	9.0	11.0	18.0	21.5
63	7.5	8.5	11.0	13.5	18.5	22.5
64	8.5	10.0	13.0	15.5	19.0	23.0
65	13.0	15.0	20.0	24.0	25.0	25.0
66	13.0	15.0	20.0	24.0	25.0	25.0
67	14.0	16.0	21.5	26.0	30.0	30.0
68	11.5	13.5	18.0	21.5	25.0	25.0
69	11.5	13.5	18.0	21.5	25.0	25.0
70	11.5	13.5	18.0	21.5	25.0	25.0
71	11.5	13.5	18.0	21.5	25.0	25.0
72	11.5	13.5	18.0	21.5	25.0	25.0
73	11.5	13.5	18.0	21.5	25.0	25.0
74	11.5	13.5	18.0	21.5	25.0	25.0
75	100.0	100.0	100.0	100.0	100.0	100.0

*The assumptions shown above are for retirement from active status. It is assumed that all vested terminated 2% at 62 members retire at age 62.*

**Table B.3d**  
**Service Retirement – 2% at 62 Females**

DB Program - 2% at 62 Members - Females						
Age	Years of Credited Service					
	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30 or More Years
50	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
51	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0
55	1.5	2.0	2.5	3.5	3.0	3.5
56	1.5	2.0	2.5	3.0	2.5	3.0
57	1.5	2.0	2.5	3.5	4.0	5.0
58	2.0	2.5	3.0	4.0	4.5	5.5
59	2.5	3.5	4.5	5.5	7.5	9.0
60	4.0	4.5	6.0	7.5	11.0	13.0
61	5.0	6.5	8.5	10.5	16.0	19.0
62	6.5	8.5	11.0	13.5	22.5	27.0
63	8.0	10.0	13.0	16.5	23.5	28.0
64	9.0	11.5	15.0	19.0	24.0	29.0
65	12.5	16.0	21.0	26.5	32.5	32.5
66	12.0	15.0	20.0	25.0	30.5	30.5
67	14.5	18.0	24.0	30.0	36.5	36.5
68	12.0	15.0	20.0	25.0	30.5	30.5
69	12.0	15.0	20.0	25.0	30.5	30.5
70	12.0	15.0	20.0	25.0	28.5	28.5
71	12.0	15.0	20.0	25.0	28.5	28.5
72	12.0	15.0	20.0	25.0	28.5	28.5
73	12.0	15.0	20.0	25.0	28.5	28.5
74	12.0	15.0	20.0	25.0	28.5	28.5
75	100.0	100.0	100.0	100.0	100.0	100.0

*The assumptions shown above are for retirement from active status. It is assumed that all vested terminated 2% at 62 members retire at age 62.*

**Table B.3e**  
**Service Retirement – 1990 Benefit Structure Males**

DB Program - 1990 Structure - Males					
Age	Years of Credited Service				
	5-9 years	10-14 years	15-19 years	20-29 years	30 or More Years
50	0.0%	0.0%	0.0%	0.0%	0.0%
51	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0
54	1.0	1.5	1.5	1.5	2.0
55	5.5	6.5	7.5	7.5	8.5
56	3.5	4.0	4.5	5.0	5.5
57	3.5	4.0	4.5	5.0	5.5
58	5.5	6.5	7.5	7.5	8.5
59	10.5	12.5	14.5	15.5	17.0
60	16.5	20.0	23.0	24.0	26.5
61	11.5	13.5	16.0	16.5	18.0
62	11.5	13.5	16.0	16.5	18.0
63	11.5	13.5	16.0	16.5	18.0
64	13.5	16.0	19.0	20.0	21.5
65	13.5	16.0	19.0	20.0	21.5
66	13.5	16.0	19.0	20.0	21.5
67	13.5	16.0	19.0	20.0	21.5
68	12.0	14.5	17.0	17.5	19.0
69	12.0	14.5	17.0	17.5	19.0
70+	100.0	100.0	100.0	100.0	100.0

*The assumptions shown above are for retirement from active status. It is assumed that all vested terminated members retire at age 60 under the 1990 Benefit Structure.*

**Table B.3f**  
**Service Retirement – 1990 Benefit Structure Females**

DB Program - 1990 Structure - Females					
Age	Years of Credited Service				
	5-9 years	10-14 years	15-19 years	20-29 years	30 or More Years
50	0.0%	0.0%	0.0%	0.0%	0.0%
51	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0
54	1.0	1.5	1.5	1.5	2.0
55	5.5	6.5	7.5	7.5	8.5
56	3.5	4.0	4.5	5.0	5.5
57	3.5	4.0	4.5	5.0	5.5
58	5.5	6.5	7.5	7.5	8.5
59	10.5	12.5	14.5	15.5	17.0
60	16.5	20.0	23.0	24.0	26.5
61	11.5	13.5	16.0	16.5	18.0
62	11.5	13.5	16.0	16.5	18.0
63	11.5	13.5	16.0	16.5	18.0
64	13.5	16.0	19.0	20.0	21.5
65	13.5	16.0	19.0	20.0	21.5
66	13.5	16.0	19.0	20.0	21.5
67	13.5	16.0	19.0	20.0	21.5
68	12.0	14.5	17.0	17.5	19.0
69	12.0	14.5	17.0	17.5	19.0
70+	100.0	100.0	100.0	100.0	100.0

*The assumptions shown above are for retirement from active status. It is assumed that all vested terminated members retire at age 60 under the 1990 Benefit Structure.*

**Table B.4**  
**Disability Retirement**

Coverage A		
Age	Male	Female
25	0.015%	0.015%
30	0.025	0.025
35	0.040	0.050
40	0.065	0.075
45	0.090	0.090
50	0.130	0.180
55	0.170	0.225

Coverage B		
Age	Male	Female
25	0.010%	0.015%
30	0.010	0.015
35	0.020	0.030
40	0.040	0.055
45	0.070	0.095
50	0.105	0.165
55	0.200	0.270
60	0.275	0.305
65	0.305	0.325
70	0.305	0.325

*Note: disability rates apply beginning at five years of credited service.*

**Table B.5**  
**Other Terminations of Employment (Withdrawal)**

Year <sup>(1)</sup>	Male	Female
0	10.00%	9.00%
1	8.25	7.00
2	6.25	5.50
3	4.50	4.25
4	4.00	3.60
5	3.10	3.00
6	2.70	2.50
7	2.35	2.00
8	2.00	1.70
9	1.80	1.50
10	1.60	1.35
11	1.40	1.20
12	1.30	1.10
13	1.20	1.00
14	1.10	0.90
15	1.00	0.90
16	0.95	0.85
17	0.90	0.85
18	0.85	0.80
19	0.80	0.75
20	0.75	0.75
21	0.70	0.70
22	0.65	0.65
23	0.60	0.60
24	0.60	0.60
25	0.60	0.60
26	0.55	0.55
27	0.55	0.55
28	0.55	0.55
29	0.50	0.50
30+	0.50	0.50

*1. Based on elapsed service since membership date.  
 Termination rates cease when a member is eligible  
 for service retirement.*

**Table B.6**  
**Probability of Refund**

Year <sup>(1)</sup>	Entry Ages					
	Under 25	25-29	30-34	35-39	40-44	45 and Up
Under 5	100%	100%	100%	100%	100%	100%
5	44	42	39	36	30	29
6	42	40	37	34	28	27
7	40	38	35	32	25	24
8	37	35	32	29	21	20
9	35	33	30	27	18	17
10	32	29	26	23	13	12
11	29	26	24	21	11	10
12	27	24	22	19	9	8
13	25	22	20	17	7	6
14	23	20	18	15	5	4
15	21	18	16	13	3	2
16	20	17	15	12	2	1
17	18	15	13	10	0	0
18	16	13	11	8	0	0
19	14	11	9	6	0	0
20	13	10	8	5	0	0
21	12	9	7	4	0	0
22	10	8	6	3	0	0
23	9	7	5	2	0	0
24	8	6	4	1	0	0
25	6	4	2	0	0	0
26	5	3	1	0	0	0
27	4	2	0	0	0	0
28	3	1	0	0	0	0
29	2	0	0	0	0	0
30	1	0	0	0	0	0

*1. Assumption applied at time of assumed termination based on credited service. Members who terminate with less than five years of credited service are assumed to have a 100% probability of refund.*

**Table B.7**  
**Merit Salary Increases<sup>(1)</sup>**

Year <sup>(2)</sup>	Entry Age - Annual Increase in Salaries Due to Merit					
	Under 25	25-29	30-34	35-39	40-44	45 & up
0	8.0%	7.5%	7.0%	6.5%	6.0%	5.5%
1	7.0	6.5	6.0	5.5	5.0	4.5
2	6.3	5.8	5.3	5.0	4.5	3.8
3	5.8	5.3	4.8	4.5	4.0	3.0
4	5.3	4.8	4.4	4.1	3.8	2.8
5	4.8	4.5	4.1	3.8	3.5	2.6
6	4.6	4.3	3.9	3.6	3.3	2.4
7	4.3	4.0	3.6	3.4	3.0	2.2
8	4.0	3.8	3.3	3.1	2.8	2.0
9	3.6	3.4	3.0	2.7	2.4	1.8
10	3.2	3.0	2.6	2.3	2.1	1.6
11	2.8	2.6	2.2	2.0	1.8	1.4
12	2.5	2.2	2.0	1.8	1.6	1.3
13	2.3	2.0	1.8	1.6	1.5	1.3
14	2.1	1.9	1.7	1.5	1.4	1.2
15	1.9	1.8	1.6	1.4	1.3	1.1
16	1.8	1.6	1.5	1.3	1.2	1.0
17	1.8	1.6	1.4	1.2	1.1	0.9
18	1.7	1.5	1.3	1.1	1.0	0.9
19	1.7	1.5	1.2	1.0	0.9	0.9
20	1.6	1.4	1.1	1.0	0.9	0.9
21	1.6	1.4	1.1	0.9	0.9	0.8
22	1.5	1.3	1.0	0.9	0.9	0.8
23	1.5	1.3	1.0	0.9	0.8	0.8
24	1.4	1.2	1.0	0.9	0.8	0.7
25	1.3	1.1	0.9	0.8	0.8	0.8
26	1.2	1.0	0.9	0.8	0.7	0.7
27	1.1	0.9	0.8	0.8	0.8	0.8
28	1.0	0.8	0.8	0.7	0.7	0.7
29	0.9	0.7	0.7	0.7	0.7	0.7
30	0.8	0.7	0.7	0.7	0.7	0.7
31	0.7	0.6	0.6	0.6	0.6	0.6
32	0.6	0.6	0.6	0.6	0.6	0.6
33	0.6	0.6	0.6	0.6	0.5	0.5
34	0.6	0.6	0.6	0.5	0.5	0.5
35+	0.6	0.6	0.6	0.5	0.5	0.5

1. The total expected increase in salary includes both merit (shown above) and the general wage increase assumption of 3.50% per annum. The total result is compounded rather than additive. For example, the total assumed increase for service less than one year (Year 0 above) is 11.178% ( $1.080 \times 1.035$ ) for members in the entry age under 25 group.

2. Based on elapsed service since membership date.

**Table B.8**  
**Supplemental Assumptions**

<b>PEPRA Coverage</b>	All members hired on or after the valuation date are assumed to be subject to the provisions of PEPRA.
<b>Unused Sick Leave</b>	Credited Service is increased by 1.6%.
<b>Optional Forms</b>	Active and Inactive: Based on single life annuity assumed. Retirees and Beneficiaries: Based on optional form in data.
<b>Probability of Marriage</b>	Male: 85% Female: 65% Male spouses are assumed to be three years older than female spouses.
<b>Children</b>	Married members under age 60 are assumed to have the number of children shown in the following table. Children are assumed to receive benefits until the member would have turned age 60.

Member's Gender	Assumed Number of Children
Male	0.70
Female	0.50

**Assumed Offsets** No offsets to disability and survivor benefits are assumed.

**Valuation of Inactive Members**

Salary and benefit information is not available on the valuation data provided for inactive members. Therefore, we estimate the projected retirement benefits for inactive members as follows:

- 1) The inactive member's annualized pay rate information is retrieved from when they were active by matching with a database of active valuation data back to 2001 and taking the highest annualized pay rate for the member during the period.
- 2) For those members who cannot be located on the active database (because they terminated prior to 2001 or another reason), their annualized pay rate is estimated based on 120% of the average annualized pay rate for all active members in the year the member terminated.
- 3) The annualized pay rate amount from the prior steps is treated as the member's final compensation with two additional adjustments.
  - a. An additional load of 5% for all current and future inactive members is applied to their salary amount to account for potential post-termination increases in salary due to factors such as reciprocity.
  - b. Final compensation is increased by an additional 4.1% if the member has 25 or more years of credited service.
- 4) Based on the salary data described above and the birth date and credited service from the current year's valuation data, the projected benefit amount is calculated and valued as a deferred service retirement.
- 5) Non-vested members who have been inactive for less than two years are assumed to take an immediate refund of their member contributions.

## Appendix C Valuation Data

The membership data for this actuarial valuation was supplied by CalSTRS. Although we did not audit this data, we compared the data for this and the prior valuation and tested for reasonableness, as well as for consistency with prior periodic reports from the CalSTRS staff. Based on these tests, we believe the data to be sufficiently accurate for the purposes of this valuation. Since the valuation results are dependent on the integrity of the data supplied, the results can be expected to differ if the underlying data is incomplete or missing. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.

Note that CalSTRS provides two files with benefit recipients. The benefit valuation file includes all service retirees, disabled retirees, and most surviving beneficiaries. The family benefit valuation file includes other survivors, including child beneficiaries and survivors deferring their benefit. Information from the family benefit valuation file is included with the survivor information shown in this section, except for average ages and benefit amounts.

**Tables C.1-C.6** summarize the census data used in this valuation.

**Table C.1**  
**Summary of Statistical Information**

	June 30, 2025	June 30, 2024
<b>Number of Members</b>		
Active Members <sup>(1)</sup>	471,044	467,449
Inactive Members <sup>(1)</sup>	244,419	239,442
Retirees and Beneficiaries		
Service Retirees	297,038	292,386
Disabled Retirees	9,517	9,671
Survivors	<u>32,157</u>	<u>31,353</u>
Total Benefit Recipients	338,712	333,410
Total Membership in Valuation	1,054,175	1,040,301
<b>Active Member Statistics</b>		
Earned Salaries <sup>(2)</sup>	\$ 43,591 million	\$ 42,234 million
Average Earned Salary	92,542	90,349
Average Age	45.2 years	45.1 years
Average Service	12.5 years	12.4 years

1. Some active members were reported with no Annualized Pay Rate, in which case their liabilities, if any, were included with inactive members.

2. Total of prior year Earned Salaries for all active members. This may differ from the payroll amounts shown elsewhere which may include other adjustments.

Retired Member Statistics <sup>(3)</sup>	June 30, 2025	June 30, 2024
Average Age		
Service Retiree	75.1	75.0
Disabled Retiree	68.7	68.4
Survivors	78.4	78.2
All Benefit Recipients	75.2	75.0
Average Monthly Benefit		
Service Retirees	\$ 4,813	\$ 4,695
Disabled Retirees	3,343	3,260
Survivors	3,266	3,174
All Benefit Recipients	4,639	4,524

3. Average retiree ages shown here are current ages; average retiree ages shown elsewhere in this Appendix are age at retirement. Survivors from family benefit valuation file are excluded from averages. Average Monthly Benefit amounts exclude the supplemental benefit.

Inactive Member Statistics	June 30, 2025	June 30, 2024
Average Age	51.3	51.2
Average Account Balance	\$ 17,419	\$ 16,401

**Table C.1**  
**Summary of Statistical Information**  
 (Continued)

Active Member Statistics by Benefit Formula <sup>(1)</sup>	2% at 60 Members	2% at 62 Members
Number	254,331	216,713
Earned Salaries <sup>(2)</sup>	\$ 28,675 million	\$ 14,916 million
Average Earned Salary	112,747	68,829
Average Age	51.9 years	37.3 years
Average Service	19.2 years	4.5 years

Retired Member Statistics by Benefit Structure <sup>(3)</sup>	1990 Benefit	Total Benefit
Average Monthly Benefit		
Service Retirees	\$ 3,969	\$ 4,813
Disabled Retirees	3,314	3,343
Survivors	2,786	3,266
All Benefit Recipients	3,849	4,639

Pre-2014 Statistics	Pre-2014	Total
Active Member Average Service	5.1 years	12.5 years
Inactive Member Average Account Balance	\$ 8,061	\$ 17,419
Average Monthly Benefit for All Benefit Recipients	4,260	4,639

1. Some active members were reported with no Annualized Pay Rate, in which case their liabilities, if any, were included with inactive members.

2. Total of prior year Earned Salaries for all active members. This differs from the payroll amounts shown elsewhere in this report which reflect annualized amounts for members who were hired part way through the prior year.

3. Milliman estimates the 1990 Benefit based on CalSTRS-provided data.

**Table C.2**  
**Age and Service Distribution – Active Male Members**

Male						
Age	Years of Service					
	Greater than 1					
	1 & Under	& Under 5	5-9	10-14	15-19	20-24
Less than 25	1,556	558	-	-	-	-
25 to 30	3,408	6,316	648	-	-	-
30 to 35	2,124	6,199	5,469	581	-	-
35 to 40	1,533	4,055	5,344	3,937	341	-
40 to 45	1,254	2,836	3,628	4,168	4,000	705
45 to 50	957	2,261	2,419	2,759	3,972	5,294
50 to 55	791	1,700	1,872	1,741	2,551	5,058
55 to 60	610	1,299	1,377	1,248	1,581	2,936
60 to 65	398	944	910	835	911	1,418
65 to 70	194	539	449	414	416	482
70 and over	185	464	394	234	222	256
<b>Total</b>	<b>13,010</b>	<b>27,171</b>	<b>22,510</b>	<b>15,917</b>	<b>13,994</b>	<b>16,149</b>

Age	Years of Service				Total
	25-29	30-34	35-39	40 & Over	
Less than 25	-	-	-	-	2,114
25 to 30	-	-	-	-	10,372
30 to 35	-	-	-	-	14,373
35 to 40	-	-	-	-	15,210
40 to 45	1	-	-	-	16,592
45 to 50	876	7	-	-	18,545
50 to 55	6,463	443	1	-	20,620
55 to 60	5,149	2,833	188	1	17,222
60 to 65	1,931	1,091	489	11	8,938
65 to 70	488	215	130	48	3,375
70 and over	228	122	68	75	2,248
<b>Total</b>	<b>15,136</b>	<b>4,711</b>	<b>876</b>	<b>135</b>	<b>129,609</b>

**Table C.3**  
**Age and Service Distribution – Active Female Members**

Female						
Years of Service						
Age	Greater than 1					
	1 & Under	& Under 5	5-9	10-14	15-19	20-24
Less than 25	5,043	2,236	-	-	-	-
25 to 30	7,898	20,783	3,162	-	-	-
30 to 35	4,350	16,076	17,793	2,156	-	-
35 to 40	3,357	9,504	14,044	12,628	1,177	1
40 to 45	3,258	7,838	9,641	11,471	13,287	2,423
45 to 50	2,464	6,134	7,278	7,574	11,332	15,892
50 to 55	1,688	4,334	5,291	5,628	7,010	12,213
55 to 60	1,090	2,934	3,575	3,879	4,844	6,956
60 to 65	618	1,634	2,056	2,114	2,634	3,544
65 to 70	301	778	812	848	910	1,129
70 and over	212	555	463	396	383	447
<b>Total</b>	<b>30,279</b>	<b>72,806</b>	<b>64,115</b>	<b>46,694</b>	<b>41,577</b>	<b>42,605</b>

Age	Years of Service				Total
	25-29	30-34	35-39	40 & Over	
Less than 25	-	-	-	-	7,279
25 to 30	-	-	-	-	31,843
30 to 35	-	-	-	-	40,375
35 to 40	-	-	-	-	40,711
40 to 45	9	-	-	-	47,927
45 to 50	2,504	10	-	-	53,188
50 to 55	14,700	1,011	4	-	51,879
55 to 60	9,970	5,742	501	2	39,493
60 to 65	3,544	1,958	1,089	43	19,234
65 to 70	850	324	176	94	6,222
70 and over	383	188	127	130	3,284
<b>Total</b>	<b>31,960</b>	<b>9,233</b>	<b>1,897</b>	<b>269</b>	<b>341,435</b>

**Table C.4**  
**Age and Service Distribution – All Active Members**

Age	Total					
	Years of Service					
	1 & Under	Greater than 1 & Under 5	5-9	10-14	15-19	20-24
Less than 25	6,599	2,794	-	-	-	-
25 to 30	11,306	27,099	3,810	-	-	-
30 to 35	6,474	22,275	23,262	2,737	-	-
35 to 40	4,890	13,559	19,388	16,565	1,518	1
40 to 45	4,512	10,674	13,269	15,639	17,287	3,128
45 to 50	3,421	8,395	9,697	10,333	15,304	21,186
50 to 55	2,479	6,034	7,163	7,369	9,561	17,271
55 to 60	1,700	4,233	4,952	5,127	6,425	9,892
60 to 65	1,016	2,578	2,966	2,949	3,545	4,962
65 to 70	495	1,317	1,261	1,262	1,326	1,611
70 and over	397	1,019	857	630	605	703
<b>Total</b>	<b>43,289</b>	<b>99,977</b>	<b>86,625</b>	<b>62,611</b>	<b>55,571</b>	<b>58,754</b>

Age	Years of Service				Total
	25-29	30-34	35-39	40 & Over	
Less than 25	-	-	-	-	9,393
25 to 30	-	-	-	-	42,215
30 to 35	-	-	-	-	54,748
35 to 40	-	-	-	-	55,921
40 to 45	10	-	-	-	64,519
45 to 50	3,380	17	-	-	71,733
50 to 55	21,163	1,454	5	-	72,499
55 to 60	15,119	8,575	689	3	56,715
60 to 65	5,475	3,049	1,578	54	28,172
65 to 70	1,338	539	306	142	9,597
70 and over	611	310	195	205	5,532
<b>Total</b>	<b>47,096</b>	<b>13,944</b>	<b>2,773</b>	<b>404</b>	<b>471,044</b>

**Table C.5  
 Inactive Members**

Fiscal Year Ending June 30	Number Vested	Total Number	Male % of Total	Female % of Total
2011	33,976	173,719	29.1%	70.9%
2012	34,848	178,655	29.1	70.9
2013	35,883	182,576	29.1	70.9
2014	36,344	182,815	29.2	70.8
2015	36,953	184,396	29.3	70.7
2016	38,014	187,722	29.4	70.6
2017	38,955	192,601	29.5	70.5
2018	39,942	198,058	29.6	70.4
2019	41,192	204,593	29.6	70.4
2020	42,835	213,056	29.7	70.3
2021	47,040	230,770	29.8	70.2
2022	47,044	227,163	29.6	70.4
2023	50,349	234,479	29.4	70.6
2024	51,419	239,442	29.4	70.6
2025	52,165	244,419	29.3	70.7

Fiscal Year Ending June 30	Average Account on Deposit	Average Age	Average Service Credit	Average Years Inactive
2011	\$ 12,035	46.8	2.8	8.6
2012	11,818	47.2	2.8	8.9
2013	11,771	47.6	2.8	9.4
2014	11,815	48.1	2.8	9.9
2015	11,825	48.7	2.9	10.4
2016	11,953	49.1	2.9	10.8
2017	12,072	49.4	2.9	11.1
2018	12,257	49.7	2.9	11.4
2019	12,671	49.8	2.9	11.6
2020	13,257	50.0	3.0	11.7
2021	13,740	50.2	3.0	11.5
2022	14,423	50.8	3.1	12.3
2023	15,475	51.0	3.2	12.6
2024	16,401	51.2	3.2	12.9
2025	17,419	51.3	3.1	13.1

**Table C.6**  
**Members Retired for Service**

Fiscal Year Ending June 30	Total	Male % of Total	Female % of Total
2011	222,222	34.4%	65.6%
2012	230,278	34.0	66.0
2013	236,487	33.6	66.4
2014	241,920	33.1	66.9
2015	247,353	32.7	67.3
2016	252,672	32.3	67.7
2017	258,550	31.9	68.1
2018	264,780	31.5	68.5
2019	270,835	31.1	68.9
2020	276,070	30.8	69.2
2021	281,302	30.3	69.7
2022	285,704	29.9	70.1
2023	288,494	29.6	70.4
2024	292,386	29.3	70.7
2025	297,038	29.1	70.9

Fiscal Year Ending June 30	Average Age at Retirement	Average Years of Service Credit	Final Average Monthly Compensation	Average Current Allowance Payable <sup>(1)</sup>
2011	61.0	26.3	\$ 5,138	\$ 3,417
2012	61.1	26.2	5,271	3,517
2013	61.1	26.1	5,385	3,609
2014	61.2	26.0	5,487	3,694
2015	61.3	25.9	5,597	3,786
2016	61.3	25.8	5,716	3,884
2017	61.4	25.7	5,846	3,985
2018	61.5	25.6	5,981	4,086
2019	61.6	25.6	6,110	4,184
2020	61.7	25.5	6,229	4,279
2021	61.7	25.4	6,365	4,378
2022	61.8	25.3	6,490	4,471
2023	61.8	25.2	6,615	4,575
2024	61.8	25.2	6,766	4,695
2025	61.9	25.1	6,930	4,813

1. Allowance Payable column does not include payments from the Supplemental Benefit Maintenance Account.

## Appendix D Glossary

The following definitions are largely excerpts from a list adopted by the major actuarial organizations in the United States. In some cases, the definitions have been modified for specific applicability to the CalSTRS DB Program. Defined terms are capitalized throughout this Appendix.

### **Actuarial Assumptions**

Assumptions as to the occurrence of future events affecting pension costs, such as mortality, withdrawal, disablement and retirement, changes in compensation, rates of investment earnings and asset appreciation or depreciation, and procedures used to determine 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 Obligation.

### **Actuarial Equivalent**

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

### **Actuarial Gain or 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 Obligation**

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 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 Surplus**

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

### **Actuarial Valuation**

The determination, as of a Valuation Date, of the Normal Cost, Actuarial Obligation, 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.

### **Entry Age Cost Method**

An Actuarial Cost Method under which the Actuarial Present Value of Projected Benefits of each individual included in the 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 Obligation.

### **Normal Cost**

The portion of the Actuarial Present Value of Projected Benefits which is allocated to a valuation year by the Actuarial Cost Method.

### **Projected Unit Credit Cost Method**

An Actuarial Cost Method under which the Actuarial Obligation is equal to the portion of the Actuarial Present Value of Projected Benefits of each individual included in the actuarial valuation is attributable to service credit that has been earned to date (past service). Since this cost method is only used in this valuation for cases where the service is fixed as of June 30, 2014, the Actuarial Obligation is equal to the portion of the Actuarial Present Value of Projected Benefits for the DB Program, and there is no Normal Cost.

### **Unfunded Actuarial Obligation**

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

### **Valuation Date**

June 30, 2025.