



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

June 30, 2025 Actuarial Valuation

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June 2, 2026

Teachers' Retirement Board
California State Teachers' Retirement System

Re: Defined Benefit Supplement 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 Supplement (DBS) Program of the State Teachers' Retirement System as of June 30, 2025. Details about the actuarial valuation are contained in the following report. The major findings of the 2025 Actuarial Valuation are contained in this report. This report reflects the benefit provisions and contribution rates in effect as of the valuation date.

Actuarial Certification

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

In preparing this report, we relied, without audit, on information (some oral and some 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 experience affecting CalSTRS. 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 and are expected to have no significant bias.

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 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.

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.

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 DBS Program. The board adopted the actuarial methods and assumptions used in the 2025 valuation. There were no changes in plan provisions (except that results are shown with and without an Additional Earnings Credit as of June 30, 2025), assumptions, or methods that affected the 2025 DBS Program valuation.

Actuarial computations presented in this report are for purposes of assessing the funding of the DBS Program. The calculations in the enclosed report have been made on a basis consistent with our understanding of the DBS Program funding structure. Determinations for other purposes may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

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

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

No third-party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

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.

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.

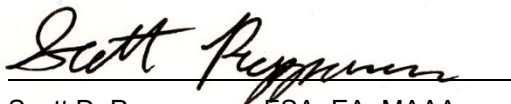
We would like to express our appreciation to the CalSTRS staff who gave substantial assistance in supplying the data on which this report is based. We respectfully submit the following report, and we look forward to discussing it with you.

Sincerely,



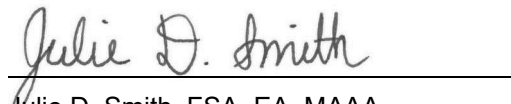
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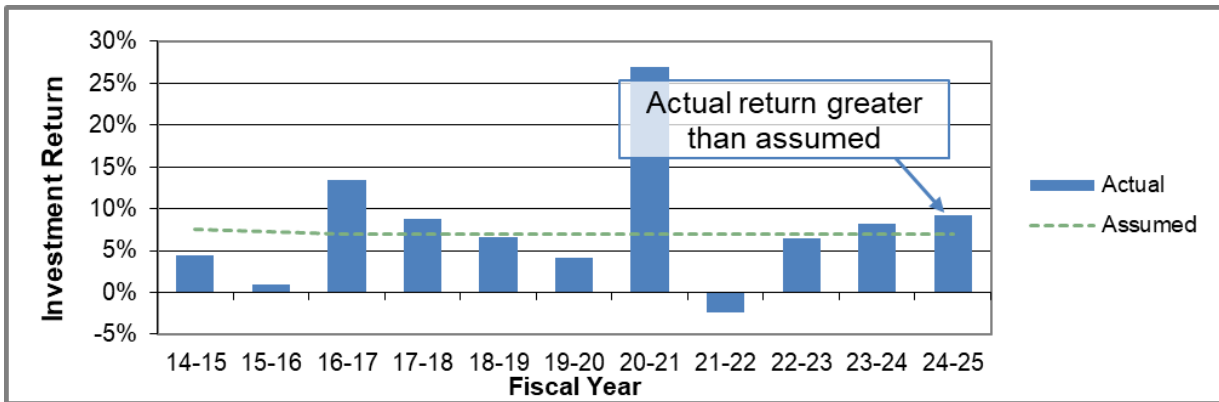
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1. Summary of the Findings

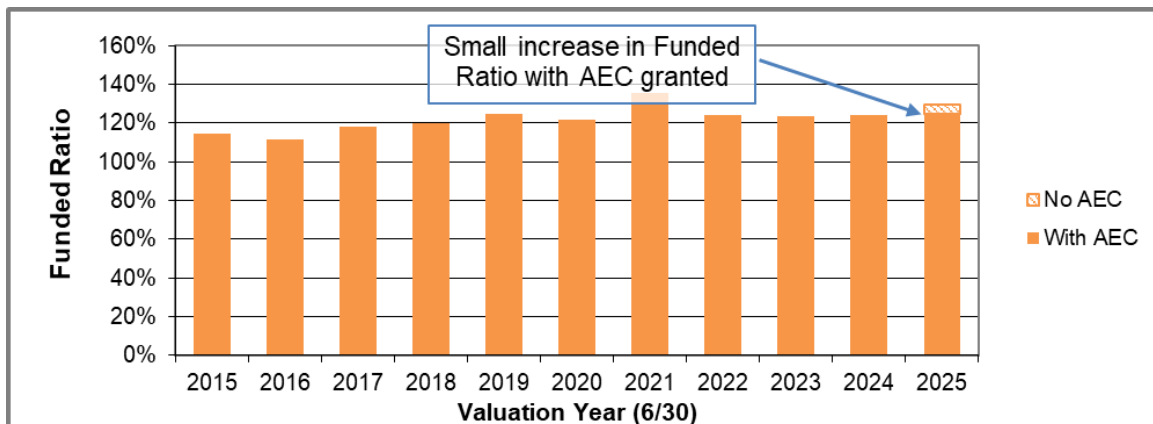
The primary purpose of the actuarial valuation is to determine the financial condition of the DBS Program through the measurement of the Gain and Loss Reserve. By using the actuarial methods and assumptions adopted by the Teachers' Retirement Board, this actuarial valuation provides an estimate of the financial condition of the DBS Program. The assumptions and methods were adopted at the January 2024 Teachers' Retirement Board meeting and there have been no changes to them since the last valuation.

The key findings of this actuarial valuation are:

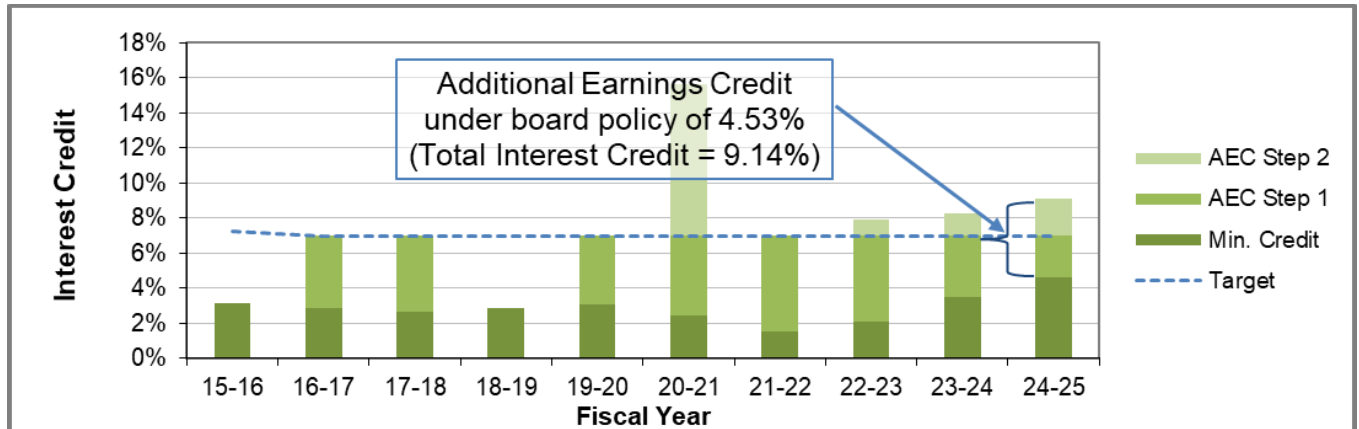
- The **investment return** for the 2024-25 fiscal year was calculated to be 9.2%, greater than the assumed 7.0%, and was the primary factor affecting the results in this valuation.



- The **Funded Ratio** increased from 123.9% to 124.8% due to the investment return being greater than the assumed 7.0% return. The Funded Ratio of 124.8% is after granting the Additional Earnings Credit (AEC) pursuant to board policy. The following table also shows the Funded Ratio of 129.6% as of June 30, 2025 prior to granting the AEC for the year.



- Under board policy, an **Additional Earnings Credit** of 4.53% is calculated for June 30, 2025 account balances for non-retired members. The total amount of this credit is \$613,990,000. The following chart shows the minimum interest rate credited each year as well as the additional credit granted under Step 1 and Step 2 of the policy through the 2024-25 fiscal year. The dotted line (target) is the return assumption for each fiscal year. The details of the Step 1 and Step 2 additional credit calculations are described on page 8 of the report.



Results

As of June 30, 2025, the Actuarial Value of Assets of the Defined Benefit Supplement (DBS) Program exceeds the Actuarial Obligation by \$4,751,570,000. This number is a negative Unfunded Actuarial Obligation (UAO), sometimes referred to as an Actuarial Surplus. Consistent with its policy, the board granted an Additional Earnings Credit of 4.53% as of June 30, 2025, as discussed in this report.

(\$ Thousands)	June 30, 2025	June 30, 2024
Actuarial Balance Sheet		
Actuarial Obligation (before Add'l Credit)		
Active Members	\$ 12,208,046	\$ 11,465,547
Inactive Members	1,345,810	1,238,003
Retirees and Beneficiaries	2,511,897	2,324,999
Total	16,065,753	15,028,549
Actuarial Value of Assets	20,817,323	19,381,513
Unfunded Actuarial Obligation / (Actuarial Surplus)	\$ (4,751,570)	\$ (4,352,964)
Additional Earnings Credit	613,990	611,041
Final Unfunded Actuarial Obligation / (Actuarial Surplus)	\$ (4,137,580)	\$ (3,741,923)
Funded Ratio (Assets ÷ Actuarial Obligation)		
Before Additional Credit	129.58%	128.96%
After Additional Credit	124.81%	123.93%

The Actuarial Value of Assets for this valuation is the Fair Market Value as provided to us by CalSTRS. The actual return for the year for the DBS Program, as measured using uniform cash flow throughout the year, was about 9.2% net of investment and administrative expenses.

(\$ Thousands)	Year Ended June 30, 2025	Year Ended June 30, 2024
Additions		
Contributions	\$ 483,583	\$ 410,887
Earnings	1,800,648	1,515,307
Change in GASB Adjustment	<u>(3,478)</u>	<u>(3,998)</u>
Total Additions	\$ 2,280,753	\$ 1,922,196
Deductions		
Benefits	\$ 806,278	\$ 667,316
Expenses	<u>38,665</u>	<u>36,266</u>
Total Deductions	844,943	703,582
Net Increase (Decrease)	\$ 1,435,810	\$ 1,218,614
Net Assets		
Beginning of Year	\$ 19,381,513	\$ 18,162,899
Net Increase (Decrease)	<u>1,435,810</u>	<u>1,218,614</u>
End of Year	\$ 20,817,323	\$ 19,381,513
Estimated Net Rate of Return	9.2%	8.2%

If the experience had emerged as assumed, the Actuarial Surplus would have increased from \$3,741,923,000 to \$4,003,858,000. The difference between the actual and expected UAO is the actuarial gain or loss for the year.

- There was an actuarial gain of \$413,093,000 due to the actual investment return being greater than last year's assumed long-term return of 7.00%.
- There was an actuarial gain of \$334,619,000 on the Actuarial Obligation. This was primarily due to the interest credit being less than the assumed 7.00% for the prior year. The Minimum Interest Rate for the 2024-25 fiscal year was 4.61%.
- The net actuarial gain was \$747,712,000, resulting in a Funded Ratio of 129.6% prior to granting an Additional Earnings Credit.
- The Actuarial Obligation increased by \$613,990,000 due to an Additional Earnings Credit adopted effective June 30, 2025.

A summary of the actuarial (gains) and losses for the last two years is shown in the following table.

(\$ Thousands)	June 30, 2025	June 30, 2024
Actuarial (Gain) or Loss		
Investment Return on Assets	\$ (413,093)	\$ (212,615)
Assumption & Method Changes	0	0
Interest Credit on Accounts	(334,619)	(442,276)
Total Actuarial (Gain) or Loss	\$ (747,712)	\$ (654,891)
Expected UAO at End of Year	(4,003,858)	(3,698,073)
Total Unfunded Actuarial Obligation / (Actuarial Surplus) Before Add'l Credit	\$ (4,751,570)	\$ (4,352,964)

The board established a policy ("Additional Credit Policy") on June 9, 2006 that was effective for the Additional Earnings Credit and Additional Annuity Credit decisions beginning in 2006. The board's Additional Credit Policy calls for a two-step determination of the allocation as shown in detail in this report. This policy was updated at the board's April 2015 meeting to increase the thresholds needed to be met to grant an Additional Earnings Credit and to remove the Additional Annuity Credit.

At the May 2026 meeting, the board granted an Additional Earnings Credit of 4.53% as of June 30, 2025, pursuant to board policy.

The following table shows a history of prior board actions.

(\$ Thousands)		Available		
Valuation Date	Funded Ratio	Reserves and Unallocated Gains (Losses)	Additional Credit Adopted	Final Gain and Loss Reserve
June 30, 2015	114.5%	\$ 1,711,825	\$ 324,216	\$ 1,387,609
June 30, 2016	111.6%	1,138,769	0	1,138,769
June 30, 2017	118.0%	2,224,206	356,926	1,867,280
June 30, 2018	120.1%	2,599,246	393,843	2,205,403
June 30, 2019	125.0%	2,778,453	0	2,778,453
June 30, 2020	121.8%	2,920,879	368,535	2,552,344
June 30, 2021	135.6%	5,977,617	1,302,720	4,674,897
June 30, 2022	124.1%	3,948,556	609,488	3,339,068
June 30, 2023	123.5%	4,144,213	688,070	3,456,143
June 30, 2024	123.9%	4,352,964	611,041	3,741,923
June 30, 2025	124.8%	4,751,570	613,990	4,137,580

Future Funding

As of June 30, 2025, the DBS Program has an Actuarial Surplus (negative UAO) since the value of assets is greater than the current value of the Actuarial Obligation. If all assumptions are met, the funding surplus will slowly grow in the future (prior to reflecting the potential Additional Earnings Credit). If future experience is worse than assumed, a UAO (shortfall between assets and liabilities) may develop. For example, if the State Teachers' Retirement Plan has a negative investment return of -14% or less for the fiscal year ended June 30, 2026, we project that a UAO would emerge in the next valuation. Alternatively, a longer period with less-than-expected returns not as severe as the -14% investment return could cause a UAO to develop.

There is currently no provision in the Education Code to increase contributions to make up for any future shortfalls if they were to occur. However, the assumed return on investments exceeds the current Minimum Interest Rate. To the extent that the assets earn more than the accounts are credited in the future, this may be sufficient to make up any potential shortfall.

The actuarially determined contribution in accordance with the funding policy is equal to the actual contributions that will be required to be made to the DBS Program according to the California Education Code.

Conclusion

The DBS Program is currently in a surplus funded position; that is, the assets exceed the value of the Actuarial Obligation based on the actuarial assumptions. Given the current funded position, it is consistent with its policy for the board to grant an Additional Earnings Credit. However, it should be noted that future experience will not exactly conform to the assumptions. To the extent future experience is worse than assumed, it is possible that a UAO could develop in the future.

The board granted an Additional Earnings Credit of 4.53% to active and inactive member accounts, consistent with its policy. The estimated value of the Additional Earnings Credit is \$613,990,000.

2. Findings of the Actuarial Valuation

An actuarial valuation is performed as of June 30 of each year, the last day of the Program's plan year. The primary purpose of the valuation is to determine the financial condition of the DBS Program through the measurement of the Gain and Loss Reserve. We also describe recent changes in the Program's financial condition and provide additional disclosure information.

The findings have been determined according to actuarial assumptions that were adopted on the basis of recent experience and current expectations of future experience. In our opinion, the assumptions used in the valuation are reasonably related to the past experience of the DBS Program and represent a reasonable estimate of future conditions affecting the Program and are expected to have no significant bias. Nevertheless, the emerging costs of the Program will vary from those presented in this report to the extent that actual experience differs from that projected by the actuarial assumptions.

Actuarial Value of Assets

The Actuarial Value of Assets for this valuation is the Fair Market Value as reported by CalSTRS. A Statement of Program Assets for the last two plan years is shown in **Table 1**, and the Statement of Change in Program Assets is shown in **Table 2**.

The investment return for the 2024-25 fiscal year was calculated to be 9.2% net of all investment and administrative expenses and assuming uniform cash flow throughout the year. This is an estimate only for the purpose of comparing investment experience from one year to the next and will likely differ from information provided by CalSTRS investment staff.

Actuarial Balance Sheet

Under the Traditional Unit Credit Actuarial Cost Method, when the assumed investment return is equal to the assumed interest crediting rate, then the Normal Cost is equal to the contributions made during the year and the Actuarial Obligation is equivalent to the current sum of the Members' Account Balances plus a reserve for the present value of the current annuity payments.

Table 3 shows the Actuarial Obligation for this valuation and the prior valuation.

For the purpose of this valuation, the account information was provided to us by CalSTRS, including a supplemental file reflecting all Additional Earnings Credits granted prior to 2025. We checked the information for reasonableness by reviewing the individual member records supplied to us. We independently calculated the value of the monthly annuity benefits supplied by CalSTRS.

The excess of the Actuarial Obligation over the Actuarial Value of Assets is called the Unfunded Actuarial Obligation (UAO). If the Actuarial Value of Assets exceeds the Actuarial Obligation, the difference is called the Actuarial Surplus.

If all experience emerged as assumed every year, the DBS Program would have an Actuarial Surplus at the end of each year before any Additional Earnings Credit, assuming the Minimum Interest Rate is less than the assumed earnings rate. In order to retain an Actuarial Surplus, the investment returns over a long period of time must exceed the combination of the Minimum Interest Rates and Additional Earnings Credits.

Although this relationship is projected to hold, there have been situations in the past, such as after the Global Financial Crisis of 2008, where investment performance for several prior years was below the Minimum Interest Rate and a UAO emerged.

Actuarial Gains and Losses

The Minimum Interest Rate for the year ending on the valuation date was 4.61%. Since the assumed total earnings rate last year was 7.00% per year, the increase in the Actuarial Obligation was less than projected. The total actuarial gain on the Actuarial Obligation, primarily due to the interest credit being less than assumed, was \$334,619,000.

Last year, the assumed earnings rate on the invested assets was 7.00% per year. The actual return for the year was about 9.2% (net of investment and administrative expenses and assuming uniform cash flow through the year, which is slightly different than how interest is actually posted), which produced an investment gain of \$413,093,000.

The assumed earnings rate is 7.00% in all future years, as adopted by the board in February 2017 and re-adopted in January 2020 and January 2024.

The total actuarial gain due to all causes was \$747,712,000 as shown in **Table 4**.

Contributions and Normal Costs

Table 4 shows that the Normal Costs of the DBS Program are equal to the actual contributions. They are shown as the actual dollar amount of contributions. The timing in **Table 4** is therefore consistent with the fact that contributions are spread over the entire year and correspond to payroll timing. The total contributions of \$483,583,000 were made up of \$246,058,000 in member contributions and \$237,525,000 in employer contributions.

Gain and Loss Reserve

Table 5 shows the derivation of the Gain and Loss Reserve. After each actuarial valuation, the Teachers' Retirement Board decides on the adjustment to the prior year's Gain and Loss Reserve and the Additional Earnings Credit, if any.

This report assumes the Teachers' Retirement Board will allocate any unallocated gain or loss to funding.

Additional Credit Based on Board Policy

Based on the board's policy, an Additional Earnings Credit of \$613,990,000 was granted as of June 30, 2025.

The board's policy calls for a two-step determination of the allocation.

The first step in the process allocates the excess of the Actuarial Surplus over 1 times the Standard Deviation of the Expected Long-Term Rate of Return on the investment portfolio, but limited by the long-term assumed rate of earnings.

First Allocation

Long-term Expected Net Investment Return	7.00%
Minimum Interest Rate (year prior to valuation)	<u>4.61%</u>
Maximum Available in First Allocation (1)	2.39%
Actuarial Surplus	29.58%
First Threshold (1x Portfolio Std. Deviation)	11.30%
Maximum credit such that resulting Funded Ratio is not less than 100% + Std. Deviation (2)	19.46%*
First Allocation [lesser of (1) and (2)]	2.39%
First Allocation Amount	\$323,937,000

** The result is not a simple subtraction of the Actuarial Surplus and the First Threshold, because the maximum credit is determined based on a division of the Actuarial Value of Assets and the Actuarial Obligation with the First Allocation.*

The second step in the process allocates 50% of the remaining Actuarial Surplus over 2 times the Standard Deviation of the Expected Long-Term Rate of Return on the investment portfolio.

Second Allocation

Remaining Actuarial Surplus (3)	27.01%
Second Threshold (2 x Portfolio Std. Deviation) (4)	22.60%
Target Second Threshold Surplus [Average of (3) and (4), but not less than Second Threshold]	24.81%
Available for Second Allocation	2.14%
Second Allocation Amount	\$290,053,000

The total available is the sum of the two steps, or 4.53% of the Actuarial Obligation for active and inactive member accounts as of June 30, 2025.

Details of the calculation are shown in **Table 6**.

Historical Information

A history of the DBS Program's cash flow and funded status are shown in **Tables 7 and 8**.

Supplemental Information

Supplemental information that is recommended to be disclosed by the California Actuarial Advisory Panel is shown in **Tables 9, 10, and 11**.

Table 1
Statement of Program Assets

(\$ Thousands)	June 30, 2025	June 30, 2024
Invested Assets		
Cash	\$ 16,066	\$ 16,609
Debt Securities	4,227,589	3,584,755
Equity Securities	8,389,472	7,857,906
Alternative Investments	8,607,308	8,199,121
Derivative Instruments	(14,108)	(28,200)
Securities Lending Collateral	2,177,626	1,842,693
Bond Proceeds Investment	718	807
Other Investments	<u>59,113</u>	<u>56,341</u>
Total Investments	\$ 23,463,784	\$ 21,530,032
Receivables	670,811	653,436
Liabilities	(3,369,338)	(2,857,499)
Valuation Adjustment (GASB Expenses)	<u>52,066</u>	<u>55,544</u>
Fair Market Value of Net Assets	\$ 20,817,323	\$ 19,381,513

Table 2
Statement of Change in Program Assets

(\$ Thousands)	Year Ended June 30, 2025	Year Ended June 30, 2024
Additions		
Contributions		
Members	\$ 246,058	\$ 208,860
Employers	<u>237,525</u>	<u>202,027</u>
Total Contributions	483,583	410,887
Net Earnings	<u>1,800,648</u>	<u>1,515,307</u>
Total Additions	\$ 2,284,231	\$ 1,926,194
Deductions		
Benefit Payments		
Retirement, Death and Survivor	\$ 779,902	\$ 642,574
Refunds of Member Contributions	<u>26,376</u>	<u>24,742</u>
Total Benefits	806,278	667,316
Expenses	<u>38,665</u>	<u>36,266</u>
Total Deductions	\$ 844,943	\$ 703,582
Net Increase (Decrease)	\$ 1,439,288	\$ 1,222,612
Fair Market Value of Net Assets		
Beginning of Year	\$ 19,381,513	\$ 18,162,899
Valuation Adjustment (GASB Expenses)	(3,478)	(3,998)
Adjustment for Prior Year Fair Value Accrual	0	0
Transfers In/(Out)	0	0
Net Increase (Decrease)	<u>1,439,288</u>	<u>1,222,612</u>
End of Year	\$ 20,817,323	\$ 19,381,513
Estimated Net Rate of Return	9.2%	8.2%
- assuming uniform cash flow through the year		
- net of investment and administrative expenses		

Table 3
Actuarial Balance Sheet

(\$ Thousands)	June 30, 2025		June 30, 2024
	Without Additional Credit	With Additional Credit Adopted	
Total Requirements			
Actuarial Obligation			
Retirees and Beneficiaries	\$ 2,511,897	\$ 2,511,897	\$ 2,324,999
Inactive Members	1,345,810	1,406,775	1,297,551
Active Members	<u>12,208,046</u>	<u>12,671,071</u>	<u>12,017,040</u>
Total Requirements	\$ 16,065,753	\$ 16,679,743	\$15,639,590
Total Resources			
Actuarial Value of Assets	\$ 20,817,323	\$ 20,817,323	\$19,381,513
Unfunded Actuarial Obligation or (Actuarial Surplus)	<u>(4,751,570)</u>	<u>(4,137,580)</u>	<u>(3,741,923)</u>
Total Resources	\$ 16,065,753	\$ 16,679,743	\$15,639,590
Funded Ratio	129.58%	124.81%	123.93%

Table 4
Actuarial Gains and Losses*

(\$ Thousands)	Actuarial Obligation	Actuarial Value of Assets	Unfunded Actuarial Obligation / (Surplus)
Balance at June 30, 2024	\$ 15,639,590	\$ 19,381,513	\$ (3,741,923)
Expected Changes			
Actual Contributions/Normal Cost	483,583	483,583	0
Actual Benefits Paid	(806,278)	(806,278)	0
Expected Earnings/Credit	<u>1,083,477</u>	<u>1,345,412</u>	<u>(261,935)</u>
Expected Balance at June 30, 2025	\$ 16,400,372	\$ 20,404,230	\$ (4,003,858)
Actuarial Gains or Losses			
(Gain)/Loss on Actuarial Obligation	(334,619)		
Gain/(Loss) on Assets		413,093	
Net (Gain)/Loss on UAO	<u> </u>	<u> </u>	<u>(747,712)</u>
Actual Balance at June 30, 2025	\$ 16,065,753	\$ 20,817,323	\$ (4,751,570)

* Prior to Additional Earnings Credit.

Table 5
Gain and Loss Reserve

(\$ Thousands)			
	June 30, 2025		June 30, 2024
	Without Additional Credit	With Additional Credit Adopted	
Unfunded Actuarial Obligation or (Actuarial Surplus) (prior to any Additional Earnings Credit)	\$ (4,751,570)	\$ (4,751,570)	\$ (4,352,964)
Additional Earnings Credit	<u>0</u>	<u>613,990</u>	<u>611,041</u>
Unfunded Actuarial Obligation or (Actuarial Surplus)	(4,751,570)	(4,137,580)	(3,741,923)
Gain and Loss Reserve			
Beginning of Year	\$ 3,741,923	\$ 3,741,923	\$ 3,456,143
Allocated to Funding	<u>1,009,647</u>	<u>395,657</u>	<u>285,780</u>
End of Year Gain and Loss Reserve	4,751,570	4,137,580	3,741,923
Unallocated Gains and (Losses)	\$ 0	\$ 0	\$ 0

(\$ Thousands)			
Valuation Date	Available Reserves and Unallocated Gains (Losses)	Additional Credit Adopted	Final Gain and Loss Reserve
June 30, 2012	\$ 50,527	\$ 0	\$ 50,527
June 30, 2013	788,028	295,872	492,156
June 30, 2014	1,820,201	347,846	1,472,355
June 30, 2015	1,711,825	324,216	1,387,609
June 30, 2016	1,138,769	0	1,138,769
June 30, 2017	2,224,206	356,926	1,867,280
June 30, 2018	2,599,246	393,843	2,205,403
June 30, 2019	2,778,453	0	2,778,453
June 30, 2020	2,920,879	368,535	2,552,344
June 30, 2021	5,977,617	1,302,720	4,674,897
June 30, 2022	3,948,556	609,488	3,339,068
June 30, 2023	4,144,213	688,070	3,456,143
June 30, 2024	4,352,964	611,041	3,741,923
June 30, 2025	4,751,570	613,990	4,137,580

Table 6
Additional Earnings Credit Based on Board Policy

	June 30, 2025	June 30, 2024
Funded Ratio before Additional Earnings Credit	129.58%	128.96%
Actuarial Surplus	29.58%	28.96%
First Threshold	11.30%	11.30%
Second Threshold	22.60%	22.60%
First Allocation		
Long-term Net Investment Return	7.00%	7.00%
Minimum Interest Rate (year prior to valuation)	<u>4.61%</u>	<u>3.49%</u>
Maximum Available in First Allocation (1)	2.39%	3.51%
First Threshold (1 x Std. Deviation of Portfolio Return)	11.30%	11.30%
Maximum credit such that resulting Funded Ratio is not less than 100% + Std. Deviation (2)	19.46%*	18.78%*
First Allocation [lesser of (1) and (2)]	2.39%	3.51%
Second Allocation (\$ Thousands)		
Remaining Actuarial Surplus after First Allocation	\$ 4,427,633	\$ 3,907,069
Total Actuarial Obligation after First Allocation	16,389,690	15,474,444
Remaining Actuarial Surplus % (3)	27.01%	25.25%
Second Threshold (2 x Std. Deviation of Portfolio Return) (4)	22.60%	22.60%
Target Second Threshold Surplus [Average of (3) and (4), but not less than Second Threshold]	24.81%	23.92%
Maximum Credit to meet Target Surplus (approximate amount based on unrounded threshold surplus percentage)	\$ 289,872	\$ 165,361
Non-Retired Actuarial Obligation [Prior to First Allocation]	13,553,856	12,703,550
Available for Second Allocation	2.14%	1.30%
Additional Earnings Credit based on Board Policy		
As a percentage of Actuarial Obligation (actives and inactive only) as of the valuation date	4.53%	4.81%
As a dollar amount (\$ Thousands)	\$ 613,990	\$ 611,041

* The result is not a simple subtraction of the Actuarial Surplus and the First Threshold, because the maximum credit is determined based on a division of the Actuarial Value of Assets and the Actuarial Obligation with the First

Table 7
History of Cash Flow

(\$ Thousands)							
Year End	Contributions for the Year	Expenditures During the Year				External Cash Flow	Fair Market Value of Assets
		Benefit Payments	Contribution Refunds	Expenses	Total		
2005	\$ 669,706	\$ 75,426	\$ 8,599	\$ 1,740	\$ 85,765	\$ 583,941	\$ 3,023,177
2006	703,104	97,997	14,032	1,952	113,981	589,123	3,951,327
2007	749,844	97,221	18,026	2,464	117,711	632,133	5,381,585
2008	802,380	139,435	17,716	2,903	160,054	642,326	5,636,113
2009	822,010	156,458	29,823	3,385	189,666	632,344	5,145,981
2010	796,743	223,733	13,673	6,113	243,519	553,224	6,412,180
2011	410,820	249,949	25,956	6,140	282,045	128,775	8,054,962
2012	102,570	223,411	24,436	6,886	254,733	(152,163)	8,042,090
2013	160,771	279,284	25,131	7,568	311,983	(151,212)	8,983,919
2014	159,663	300,031	23,960	8,385	332,376	(172,713)	10,493,062
2015	216,128	300,058	19,473	8,145	327,676	(111,548)	10,940,917
2016	251,393	332,845	19,761	11,243	363,849	(112,456)	10,943,296
2017	263,200	383,828	20,909	11,680	416,417	(153,217)	12,269,382
2018	282,377	397,635	21,453	12,007	431,095	(148,718)	13,173,522
2019	284,587	454,261	20,924	37,453	512,638	(228,051)	13,904,497
2020	276,767	487,832	20,131	32,704	540,667	(263,900)	14,243,827
2021	277,679	526,748	18,461	40,003	585,212	(307,533)	17,789,853
2022	404,478	565,813	18,284	35,583	619,680	(215,202)	17,171,981
2023	513,639	601,873	25,171	36,016	663,060	(149,421)	18,162,899
2024	410,887	642,574	24,742	36,266	703,582	(292,695)	19,381,513
2025	483,583	779,902	26,376	38,665	844,943	(361,360)	20,817,323

Table 8
Schedule of Funding Progress

(\$ Thousands)						
Year End	Actuarial Value of Assets	Actuarial Accrued Liability	Unfunded Actuarial Accrued Liability	Funded Ratio Assets/AAL	Estimated Covered Payroll	Coverage Ratio UAAL/Pay
2005	\$ 3,023,177	\$ 2,756,199	\$ (266,978)	110%	\$ 23,257,000	(1)%
2006	3,951,327	3,616,259	(335,068)	109%	24,240,000	(1)%
2007	5,381,585	4,622,046	(759,539)	116%	25,906,000	(3)%
2008	5,636,113	5,627,344	(8,769)	100%	27,118,000	0%
2009	5,145,981	6,599,315	1,453,334	78%	27,327,000	5%
2010	6,412,180	7,456,442	1,044,262	86%	26,274,000	4%
2011	8,054,962	7,773,767	(281,195)	104%	25,536,000	(1)%
2012	8,042,090	7,991,563	(50,527)	100%	25,091,000	(0)%
2013	8,983,919	8,491,763	(492,156)	106%	24,994,000	(2)%
2014	10,493,062	9,020,707	(1,472,355)	116%	25,805,000	(6)%
2015	10,940,917	9,553,308	(1,387,609)	115%	27,143,000	(5)%
2016	10,943,296	9,804,527	(1,138,769)	112%	28,788,000*	(4)%
2017	12,269,382	10,402,102	(1,867,280)	118%	29,971,000*	(6)%
2018	13,173,522	10,968,119	(2,205,403)	120%	30,650,000*	(7)%
2019	13,904,497	11,126,044	(2,778,453)	125%	31,501,000*	(9)%
2020	14,243,827	11,691,483	(2,552,344)	122%	32,450,000*	(8)%
2021	17,789,853	13,114,956	(4,674,897)	136%	32,740,000*	(14)%
2022	17,171,981	13,832,913	(3,339,068)	124%	34,496,000*	(10)%
2023	18,162,899	14,706,756	(3,456,143)	124%	37,173,000*	(9)%
2024	19,381,513	15,639,590	(3,741,923)	124%	40,267,000*	(9)%
2025	20,817,323	16,679,743	(4,137,580)	125%	41,537,000*	(10)%

* Covered payroll estimated for active members with a non-zero DBS account.

Table 9
Reconciliation of Changes in Unfunded Actuarial Obligation

(\$ Thousands)

Year End	Beginning of Year UAO	Expected Earnings/ Credits	(G)/L on Actuarial Obligation	(G)/L on Assets	Additional Credit	End of Year UAO
2014	\$ (492,156)	\$ (36,912)	\$ (285,294)	\$(1,005,839)	\$ 347,846	\$(1,472,355)
2015	(1,472,355)	(110,427)	(360,887)	231,844	324,216	(1,387,609)
2016	(1,387,609)	(104,070)	(360,271)*	713,181	0	(1,138,769)
2017	(1,138,769)	(82,561)	(323,511)*	(679,365)	356,926	(1,867,280)
2018	(1,867,280)	(130,710)	(414,477)	(186,779)	393,843	(2,205,403)
2019	(2,205,403)	(154,379)	(412,574)	6,097*	0	(2,778,453)
2020	(2,778,453)	(194,492)	(342,631)	394,697	368,535	(2,552,344)
2021	(2,552,344)	(178,664)	(420,757)	(2,825,852)	1,302,720	(4,674,897)
2022	(4,674,897)	(327,243)	(623,672)	1,677,256	609,488	(3,339,068)
2023	(3,339,068)	(233,734)	(665,157)*	93,746	688,070	(3,456,143)
2024	(3,456,143)	(241,930)	(442,276)	(212,615)	611,041	(3,741,923)
2025	(3,741,923)	(261,935)	(334,619)	(413,093)	613,990	(4,137,580)

* Includes impact of changes in assumptions and methods.

Table 10
Changes in Economic Assumptions

Year	Price Inflation	Wage Inflation	Investment Return
2014	3.00%	3.75%	7.50%
2015	3.00%	3.75%	7.50%
2016	2.75%	3.50%	7.25%
2017	2.75%	3.50%	7.00%
2018	2.75%	3.50%	7.00%
2019	2.75%	3.50%	7.00%
2020	2.75%	3.50%	7.00%
2021	2.75%	3.50%	7.00%
2022	2.75%	3.50%	7.00%
2023	2.75%	3.50%	7.00%
2024	2.75%	3.50%	7.00%
2025	2.75%	3.50%	7.00%

Table 11
Smoothing and Volatility Ratios

Year	Asset Smoothing Ratio AVA/MVA	Asset Volatility Ratio MVA/Payroll	Liability Volatility Ratio AAL/Payroll
2005	100%	13.0%	11.9%
2006	100%	16.3%	14.9%
2007	100%	20.8%	17.8%
2008	100%	20.8%	20.8%
2009	100%	18.8%	24.1%
2010	100%	24.4%	28.4%
2011	100%	31.5%	30.4%
2012	100%	32.1%	31.9%
2013	100%	35.9%	34.0%
2014	100%	40.7%	35.0%
2015	100%	40.3%	35.2%
2016	100%	38.0%	34.1%
2017	100%	40.9%	34.7%
2018	100%	43.0%	35.8%
2019	100%	44.1%	35.3%
2020	100%	43.9%	36.0%
2021	100%	54.3%	40.1%
2022	100%	49.8%	40.1%
2023	100%	48.9%	39.6%
2024	100%	48.1%	38.8%
2025	100%	50.1%	40.2%

3. Risk Disclosures

The results of any actuarial valuation are based on a set of assumptions. Although we believe the current 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 the DBS Program funding and is not intended to be a comprehensive analysis of all potential risks.

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. 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. There is no dedicated funding if a deficit develops between the Program's assets and the value of future benefits.

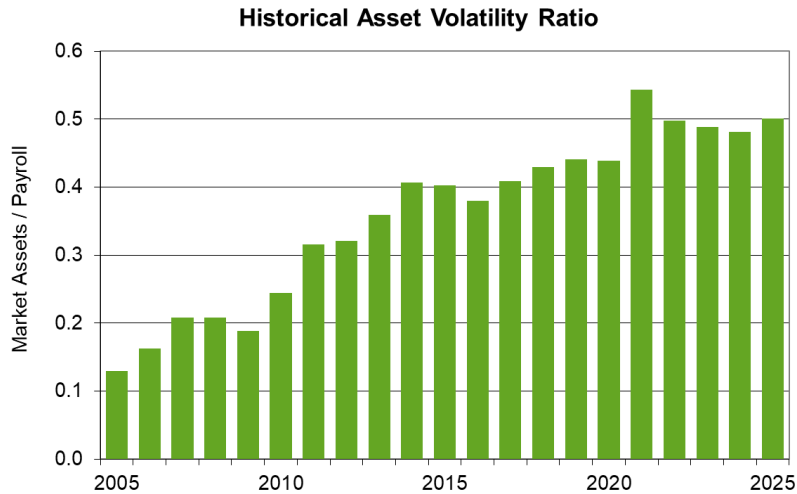
Of these factors, we believe the factor with the greatest potential risk is future investment returns. As an example of these risks, if actual investment returns fall materially short of the current assumption of 7.00% per year, this will cause a decrease in the Funded Ratio for the DBS Program, all other things being equal. Although, the DBS Program currently has a Funded Ratio of approximately 130%, if an Additional Earnings Credit is adopted for this year and the CalSTRS fiscal year 2025-26 return is -14% or less (which results in approximately a -16% return for the DBS Program due to the 7% fixed return for the Supplemental Benefit Maintenance Account), the Funded Ratio would be projected to be less than 100% next year and a deficit would emerge.

Maturity Risk

The magnitude of any contribution rate increase needed to make up any funding deficit (if one were to occur) is affected by the Program's maturity level. As the DBS 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 becomes more difficult to emerge from a deficit position (if one were to occur in the future). One indicator of this maturity is the Asset Volatility Ratio (AVR), which is equal to the Fair Market Value of Assets divided by total payroll. The AVR is a current measure since it is based on the current level of assets and will vary from year to year.

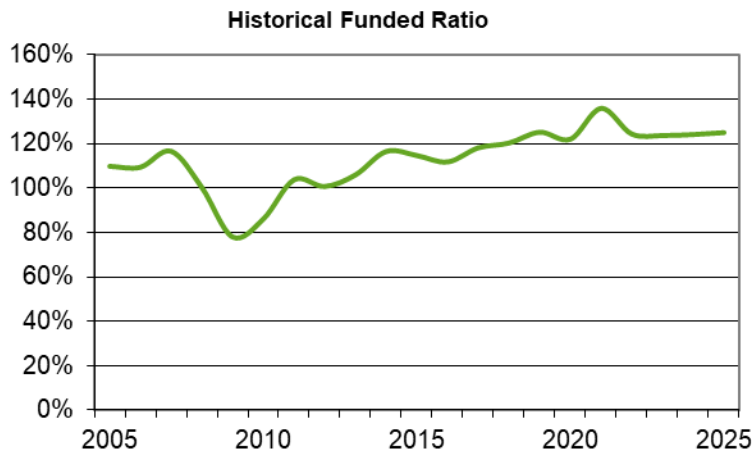
For the DBS Program, the current AVR is equal to 0.50. This means that for each 1% asset loss (in relation to the assumed investment return), there would need to be an increase in contributions equivalent to 0.50% of one-year's payroll to make up for this loss. However, this type of contribution increase would only be needed if the DBS Program were to move to a deficit position. It should be noted that there is no current mechanism to provide deficit reduction contributions to the DBS Program. Additionally, the DBS Program interest credit rates have historically been less than the assumed investment return, so it is possible the DBS Program could emerge from a deficit position without additional contributions.

The following graph shows how the DBS Program has matured over the last 20 years. Over the last several years, increases in the AVR had somewhat leveled off although there was a large increase in the 2021 valuation due to the significant increase in the market value of assets.



Historical Measures

One way to assess future risks is to look at historical measurements. The following graph shows how the DBS Program Funded Ratio has varied over the last 20 years. In particular, it reflects the significant impact that investment returns can have. The DBS Program had a Funded Ratio of about 120% in 2007, but decreased to less than 80% in two years. The Funded Ratio has since recovered primarily due to strong returns. Note that the 2025 Funded Ratio includes the Additional Earnings Credit, as approved by the Teachers' Retirement Board.



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 \$17.0 billion compared to \$16.7 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 DBS Program for informational purposes, but does not impact the funding of the DBS Program which is based on the valuation assumptions. The difference between the DBS 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 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 (or reduce future Additional Earnings Credits) and lower the current Funded Ratio. A portfolio with a lower default risk might provide more benefit security for member benefits that have already been earned if the associated liabilities could be adequately funded, but it would most likely reduce future accruals.

Appendix A Provisions of Governing Law

All of the actuarial calculations contained in this report are based upon our understanding of the Defined Benefit Supplement (DBS) Program of the State Teachers' Retirement System as contained in Part 13 of the California Education Code. The provisions used in this valuation are summarized below for reference purposes.

Membership

Eligibility Requirement: All members of the Defined Benefit Program who perform creditable service and earn creditable compensation after December 31, 2000.

Member: An eligible employee with creditable service subject to coverage in the DBS Program.

Account Balance

Account Balance: Nominal accounts established for the purpose of determining benefits payable to the Member. Accounts are credited with Contributions, a Minimum Interest Rate and Additional Earnings Credits.

Contributions: One-quarter (2% of compensation) of the DB Program Member contributions on creditable compensation was allocated to the Member's DBS Account through December 31, 2010.

Member and employer contributions will be credited to the Member's DBS Account for creditable compensation that is not credited to the DB Program.

Minimum Interest Rate: Annual rate determined for the plan year by the board in accordance with federal laws and regulations. The Minimum Interest Rate is equal to the average of the yields on 30-year Treasuries for the 12 months ending in February preceding the beginning of the plan year, rounded to the next highest 0.01%.

Additional Earnings Credit: Annual rate determined for the plan year by the board pursuant to earnings credit policy adopted at the April 2015 meeting.

Additional Annuity Credit: No longer applies, per the board annuity credit policy adopted at the April 2015 meeting.

Normal Retirement

Eligibility Requirement: Receipt of a corresponding benefit under the DB Program.

Benefit: The DBS Account Balance at the benefit effective date subject to limits imposed under Internal Revenue Code Section 415.

Form of Payment: The normal form of payment is a lump sum distribution. Annuity options are available if the DBS Account equals or exceeds \$3,500.

Early Retirement

Eligibility Requirement: Same as Normal Retirement.

Benefit and Form: Same as Normal Retirement.

Late Retirement

Benefit and Form: Same as Normal Retirement.

Contributions and earnings continue to be credited to the Account Balances until distributed.

Deferred Retirement

Benefit: A Member must receive a DBS benefit when the corresponding benefit is received under the DB Program.

Disability Benefit

Eligibility Requirement: Receipt of a corresponding benefit under the DB Program.

Benefit: The DBS Account Balance at the date the disability benefit becomes payable. An annuity benefit is discontinued upon the termination of the corresponding DB Program benefit. The actuarial equivalent of the Participant's annuity as of the date creditable service is resumed is credited to the Participant's Account Balance.

Form of Payment: Same as Normal Retirement.

Death before Retirement

Eligibility Requirement: Deceased Member has a DBS Account Balance.

Benefit: The DBS Account Balance at the date of death, plus minimum interest credited through the date of payment, payable to the designated beneficiary.

Form of Payment: Same as Normal Retirement, except annuity options are limited to a Period Certain Annuity.

Death after Retirement

Eligibility Requirement: The deceased Member was receiving an annuity.

Benefit: According to the terms of the annuity elected by the Member.

Termination from the Program

Eligibility Requirement: Termination of all CalSTRS-covered employment.

Benefit: Lump-sum distribution of the DBS Account Balance as of the date of distribution. The benefit is payable six months from the termination of creditable service.

Changes from Prior Valuation

None.

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 DBS Program and on current expectations as to future economic conditions. The assumptions were reviewed and changed for the June 30, 2023 actuarial valuation as a result of the 2024 Experience Analysis. 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 DBS Program and of the DBS 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 DBS Program's benefits.

Actuarial Cost Method

The accruing costs of all benefits are measured by the Traditional Unit Credit Actuarial Cost Method. Under this method, the projected benefits of each individual member are allocated by a consistent formula to valuation years. The actuarial present value of future projected benefits allocated to the current year is called the Normal Cost. The actuarial present value of future projected benefits allocated to periods prior to the valuation year is called the Actuarial Obligation.

The Actuarial Obligation is equal to the accumulated account balances, and the Normal Cost is equal to the total annual contribution.

Asset Valuation Method

The assets are valued at Fair Market Value. 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.

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 DBS 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 economic and demographic assumptions are listed in **Table B.1** and illustrated at selected ages and duration combinations in **Table B.2**.

Changes from Prior Valuation

None.

Table B.1
List of Major Valuation Assumptions

Economic Assumptions

Investment Return (net of investment and administrative expenses)	7.00%
Interest on Member Accounts	7.00%
Wage Growth	3.50%
Inflation	2.75%
Standard Deviation of Portfolio	11.30%

Demographic Assumptions

Mortality⁽¹⁾

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

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.

Note: Assumptions for active and inactive members do not apply to the DBS Program valuation, as each active and inactive member's liabilities are equal to the member's account balance.

Table B.2
Mortality

Age	Retired Members and Beneficiaries ⁽¹⁾		Disabled Members (After Year 3) ⁽¹⁾		Projection Scale
	Male	Female	Male	Female	
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. 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.

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 materially inaccurate or incomplete, our calculations may need to be revised.

Tables C.1 through **C.4** summarize the census data used in this valuation.

Table C.1
Summary of Statistical Information

	June 30, 2025	June 30, 2024
Number of Members⁽¹⁾		
Active Members	471,044	467,449
Inactive Members	151,584	150,711
Retirees and Beneficiaries	<u>84,980</u>	<u>82,831</u>
Total Membership in Valuation	707,608	700,991
Active Members Statistics⁽¹⁾		
Earned Salaries (\$ millions)	\$ 43,591	\$ 42,234
Average Salary	\$ 92,542	\$ 90,349
Average Age	45.2 years	45.1 years
Average Service	12.5 years	12.4 years

1. Active member statistics include all active members in the DB Program, as they are eligible to participate in the DBS Program. Inactive and annuitant counts only include those with non-zero DBS Program account balances and monthly benefits, respectively.

Table C.2
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
Total	43,289	99,977	86,625	62,611	55,571	58,754

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
Total	47,096	13,944	2,773	404	471,044

**Table C.3
 Inactive Members**

Fiscal Year Ending June 30	Number	Account Balances ⁽¹⁾
2015	129,698	\$ 582,343,000
2016	130,456	614,304,000
2017	131,823	670,426,000
2018	133,413	728,833,000
2019	135,579	766,654,000
2020	138,689	845,823,000
2021	146,396	1,026,278,000
2022	145,020	1,085,621,000
2023	149,298	1,207,233,000
2024	150,711	1,297,551,000
2025	151,584	1,406,775,000

1. Member balances include Additional Earnings Credit for given year.

**Table C.4
 Annuitants**

Fiscal Year Ending June 30	Number	Accounts at Retirement
2015	54,742	\$ 1,163,868,000
2016	58,880	1,305,902,000
2017	63,416	1,472,730,000
2018	67,918	1,641,958,000
2019	71,408	1,783,925,000
2020	74,312	1,910,776,000
2021	77,369	2,041,459,000
2022	79,468	2,145,397,000
2023	80,975	2,227,276,000
2024	82,831	2,331,688,000
2025	84,980	2,453,364,000

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 DBS Program. Defined terms are capitalized throughout this Appendix.

Account Balance

The nominal account amount of an individual's benefit as of a specific date, determined in accordance with the terms of the Plan. The Account Balance is accumulated with contributions and interest.

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.

Normal Cost

The Actuarial Present Value of benefits expected to accrue in the plan year subsequent to the valuation date. The Normal Cost is equivalent to the expected Member and Employer contributions for the next year.

Traditional Unit Credit Actuarial Cost Method

A method under which the Actuarial Obligation is equal to the Actuarial Present Value of benefits for service accrued to the valuation date.

Unfunded Actuarial Obligation

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

Valuation Date

June 30, 2025.