

California Public Employees' Retirement System

Terminated Agency Risk Pool Actuarial Valuation as of June 30, 2025



California Public Employees' Retirement System
A Component Unit of the State of California

Table of Contents

Actuarial Certification.....	1
Highlights and Executive Summary	2
Introduction	3
Purpose.....	3
Funded Status of the Terminated Agency Pool	3
Changes from Previous Year's Valuation	4
Subsequent Events	4
Assets	5
Reconciliation of the Fair Value of Assets.....	6
Asset Allocation.....	6
Investment Returns	6
Liabilities	7
Development of Accrued and Unfunded Liabilities	8
(Gain)/Loss Analysis	9
Funding History	10
History of Plans in the Terminated Agency Pool.....	10
Risk Analysis	11
Mortality Rate Sensitivity.....	12
Inflation Rate Sensitivity.....	12
Discount Rate Sensitivity	12
Low Default Risk Obligation Measure	12
Appendices	13
Appendix A – Actuarial Methods and Assumptions	14
Appendix B – Summary of Principal Plan Provisions	34
Appendix C – Summary of Participant Data	41
Appendix D – List of Terminated Agencies	47
Appendix E – Glossary.....	48

Actuarial Certification

September 2026

It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles as well as the applicable Standards of Practice promulgated by the Actuarial Standards Board. While this report is intended to be complete, our office is available to answer questions as needed. All of the undersigned are actuaries who satisfy the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* of the American Academy of Actuaries with regard to pensions. The actuaries responsible for this report and their respective responsibilities are as follows.

Actuarial Methods and Assumptions

It is our opinion that the assumptions and methods, as recommended by the Chief Actuary and adopted by the CalPERS Board of Administration, are internally consistent and reasonable for this plan.

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Deputy Chief Actuary, Special Programs, CalPERS

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Chief Actuary, CalPERS

Actuarial Data and Valuation Results

The assumptions and methods in this report are the responsibility of the CalPERS Chief Actuary and Deputy Chief Actuaries named above. These were established pursuant to their responsibility for setting actuarial policy and we relied upon them without independent assessment of the reasonableness of the assumptions and methods, as such an evaluation would have required substantial additional work beyond the scope of this assignment. To the best of our knowledge this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the Terminated Agency Pool and satisfies the actuarial valuation requirement of Government Code section 7504. This valuation and related validation work was performed by the CalPERS Actuarial Office. The valuation was based on the member and financial data as of June 30, 2025, provided by the various CalPERS databases and the benefits under this pool with CalPERS as of the date this report was produced.

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Highlights and Executive Summary

- 3 Introduction
- 3 Purpose
- 3 Funded Status of the Terminated Agency Pool
- 4 Changes from Previous Year's Valuation
- 4 Subsequent Events

Highlights and Executive Summary

Introduction

This report presents the result of the June 30, 2025, actuarial valuation for the Terminated Agency Pool. The Terminated Agency Pool (TAP) provides benefit payments to members and their beneficiaries who were employees of public agencies that have terminated all or a portion of their contract with CalPERS. This report shows that the Terminated Agency Pool continues to be well funded as of June 30, 2025.

Purpose

This report documents the results of the actuarial valuation prepared by the CalPERS Actuarial Office using data as of June 30, 2025. The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of this risk pool as of June 30, 2025;
- Provide actuarial information as of June 30, 2025, to the CalPERS Board of Administration (board) and other interested parties.

The measurements shown in this actuarial valuation may not be applicable for other purposes.

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; changes in actuarial policies; and changes in plan provisions and applicable law.

Assessment and Disclosure of Risk

This report includes risk disclosures consistent with the guidance of the Actuarial Standards of Practice. Risk disclosures include "Sensitivity Analysis" on the inflation rate and mortality rates. As the terminated agencies do not pay contributions to the pool, the disclosure requirements related to contributions are not relevant.

Funded Status of the Terminated Agency Pool

	June 30, 2024	June 30, 2025
1) Present Value of Projected Benefits		
a) Active Members	\$0	\$0
b) Transferred Members	14,549,166	13,131,207
c) Separated Members	16,674,397	14,198,873
d) Members and Beneficiaries Receiving Benefits	127,804,115	121,521,455
e) Total	\$159,027,678	148,851,535
2) Fair Value of Assets (FVA)	\$366,613,322	\$386,395,591
3) Unfunded Liability/(Surplus) [(1e) - (2)]	(\$207,585,645)	(\$237,544,056)
4) Funded Ratio [(2) ÷ (1e)]	230.5%	259.6%

Highlights and Executive Summary

Changes from Previous Year's Valuation

Discount Rate and Inflation Assumptions

This report reflects a change in both the discount rate and inflation assumption. The discount rate changed from 4.34% to 4.83%, while the inflation assumption changed from 2.13% to 2.32%. These assumptions change each year as the yields on the underlying US Treasury securities fluctuate each year. See Appendix A for details on how these assumptions are set.

Actuarial Method and Other Assumptions

On November 19, 2025, the CalPERS Board of Administration (board) adopted new actuarial assumptions based on the recommendations in the November 2025 *CalPERS Experience Study and Review of Actuarial Assumptions*. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increase, the inflation assumption, and various other assumptions for public agencies. The assumptions applicable to the Terminated Agency Pool are incorporated in this actuarial valuation.

Plan Assets

Plan assets are measured at fair value. In the prior year's actuarial valuation report the term Market Value of Assets was used to describe the asset value used for funding purposes. The Actuarial Office has used this term interchangeably with Fair Value of Assets. Effective with the June 30, 2025, valuation, CalPERS will exclusively use the term Fair Value of Assets in actuarial reports. This is a change in terminology and does not represent any change in methodology.

Additionally, beginning with this valuation, plan assets will exclude amounts related to OPEB and pension expenses to provide a more precise measurement of assets. As the excluded amounts are relatively small compared to the total Fair Value of Assets, this change does not have material impact on the Funded Ratio and other valuation results.

New Terminated Agencies

One terminated agency was added to the Terminated Agency Pool in the June 30, 2025 valuation:

- North Delta Water Agency

The total liabilities and assets associated with this termination are approximately \$0.7 million.

Terminated Agencies Removed From the Pool

Two terminated agencies were removed from the Terminated Agency Pool in the June 30, 2025, valuation, following the final closeout of all remaining benefit obligations:

- Carmel Valley Fire Protection District
- Corona City Redevelopment Agency

Subsequent Events

This report reflects events impacting the Terminated Agency Pool through June 30, 2025.

One agency terminated FY 2025-26 with accrued liabilities of \$3.2 million.

- Felton Fire Protection District

One agency terminated its Safety Fire Category in FY 2025-26 with accrued liabilities of \$0.7 million.

- Oceano Community Service District

Assets

- 6 Reconciliation of the Fair Value of Assets
- 6 Asset Allocation
- 6 Investment Returns

Reconciliation of the Fair Value of Assets

1) Fair Value of Assets as of June 30, 2024 Including Receivables	\$366,613,322
2) Adjustment to Prior Year's FVA ¹	687,602
3) Change in Receivables for Service Buybacks as of June 30, 2024	-
4) Benefit Payments to Retirees and Beneficiaries	(9,024,172)
5) Refunds	(30,841)
6) Lump Sum Payments	-
7) Administrative Expense	(300,545)
8) Transfers and Miscellaneous Adjustments	520
9) Investment Return	27,746,428
10) Fair Value of Assets as of June 30, 2025 (w/o Pool Transfers) [(1) + (2) + (3) + (4) + (5) + (6) + (7) + (8) + (9)]	385,692,311
11) Net Transfers into and out of the Risk Pool	703,279
11) Fair Value of Assets as of June 30, 2025 Including Receivables [(10) + (11)]	\$386,395,591

¹Exclusion of reserves for OPEB and Pension Expenses

Asset Allocation

CalPERS Board has adopted an investment strategy for the Terminated Agency Pool with the objective of minimizing funding risk and immunizing projected future benefit payments.

The assets of the Terminated Agency Pool are invested as two independent segments:

- The Immunized Segment is invested in a blend of US Treasury Separate Trading of Registered Interest and Principal of Securities (STRIPS), US Treasury Inflation Protected Securities (TIPS) and cash or cash equivalents.
- The Non-immunized Segment is invested in the Public Employees' Retirement Fund (PERF).

The assets in the Immunized Segment are rebalanced annually to reflect new agencies entering the pool and updated future benefits projections. The rebalancing exercise is normally executed in the February/March period. This strategy is designed to minimize underfunding risk, and balance other risks including reinvestment risk, inflation risk, and implementation risk. In addition, a higher return is expected to be generated from the Non-immunized Segment that is invested in the PERF. The table below shows the allocation of each segment for the current and previous valuation.

	June 30, 2024 Allocation \$Millions		June 30, 2025 Allocation \$Millions	
Immunized Segment	54.3%	198.9	51.5%	198.9
Non-immunized Segment	45.7%	167.7	48.5%	187.5
Total	100.0%	\$366.6	100.0%	\$386.4

Investment Returns

The rate of return by segment for the following periods:

Asset Type	FY 2023-24	FY 2024-25
Immunized Segment	-0.8%	3.7%
Non-immunized Segment	9.3%	12.1%
Total	3.5%	7.6%

Liabilities

- 8 Development of Accrued and Unfunded Liabilities
- 9 Gain/Loss Analysis
- 10 Funding History
- 10 History of Plans in the Terminated Agency Pool

Liabilities

Development of Accrued and Unfunded Liabilities

The following table shows the development of the accrued liabilities and the unfunded liabilities.

	June 30, 2024	June 30, 2025
Discount Rate	4.34%	4.83%
Inflation	2.13%	2.32%
1) Present Value of Benefits		
a) Active Members	\$0	\$0
b) Transferred Members	14,549,166	13,131,207
c) Separated Members	16,647,397	14,198,873
d) Members and Beneficiaries Receiving Payments	127,804,115	121,521,455
e) Total	\$159,027,678	\$148,851,535
2) Present Value of Future Employer Normal Costs	0	0
3) Present Value of Future Employee Contributions	0	0
4) Accrued Liability		
a) Active Members	\$0	\$0
b) Transferred Members	14,549,166	13,131,207
c) Separated Members	16,647,397	14,198,873
d) Members and Beneficiaries Receiving Payments	127,804,115	121,521,455
e) Total	\$159,027,678	\$148,851,535
5) Fair Value of Assets (FVA)	\$366,613,322	\$386,395,591
6) Unfunded Liability/(Surplus) [(4e) – (5)]	(\$207,585,645)	(\$237,544,056)
7) Funded Status [(5) ÷ (4e)]	230.5%	259.6%

Liabilities

(Gain)/Loss Analysis

To calculate the cost requirements of the plan, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year, actual experience is compared to the expected experience based on the actuarial assumptions. This results in actuarial gains or losses, as shown below.

1) Liability (Gain)/Loss for the Year	
a) Accrued Liability as of 6/30/2024	\$159,027,678
b) Benefit Payments to Retirees & Beneficiaries	(9,024,172)
c) Refunds	(30,841)
d) Interest ¹	6,715,468
e) Expected Accrued Liability as of 6/30/2025 [(1a) + (1b) + (1c) + (1d)]	156,688,132
f) Effect of Data Changes	-
g) Effect of Method Changes	-
h) Effect of New Entrants to the Pool	707,803
i) Changes due to Assumption Changes	(8,462,020)
j) Actual Accrued Liability as of 6/30/2025	148,851,535
k) Liability (Gain)/Loss [(1j)-(1i)-(1h)-(1g)-(1f)-(1e)]	(\$82,380)
2) Investment (Gain)/Loss for the Year	
a) Fair Value of Assets as of 6/30/2024 Including Receivables	\$367,300,924
b) Changes in Receivables for Service Buybacks as of 6/30/2023	-
c) Benefit Payments to Retirees & Beneficiaries	(9,024,172)
d) Refunds	(30,841)
e) Lump Sum Payments	-
f) Administrative Expense	(300,545)
g) Transfers, and Miscellaneous Adjustments	520
h) Net Transfers into and out of the Risk Pool	703,279
i) Expected Interest ²	16,116,379
j) Expected Assets as of 6/30/2024 [(2a) + (2b) + (2c) + (2d) + (2e) + (2f) + (2g) + (2h) + (2i)]	374,765,541
k) Fair Value of Assets as of 6/30/2025 Including Receivables	383,395,591
l) Investment (Gain)/Loss [(2i) – (2j)]	(\$11,630,050)
3) Total (Gain)/Loss for the Year	
a) Liability (Gain)/Loss (1k)	(\$82,380)
b) Investment (Gain)/Loss (2k)	(11,630,050)
c) Total (Gain)/Loss [(3a) + (3b)]	(\$11,712,430)

¹Expected interest on Liabilities is 4.34%.

²Expected interest on Assets is 4.44%. This is based on a blend of the expected return on the two segments of the Terminated Agency Pool portfolio: Immunized Segment at 2.67% and Non-immunized Segment at 6.80% (6.90% minus 0.10% for administrative expenses).

Liabilities

Funding History

Valuation Date	Accrued Liability	Fair Value of Asset (FVA)	Unfunded Liability / (Surplus)	Funded Ratio
06/30/2010	\$55,014,174	\$154,562,757	(\$99,548,583)	281.0%
06/30/2011	70,524,343	184,380,119	(113,855,776)	261.4%
06/30/2012	84,521,429	178,657,676	(94,136,247)	211.4%
06/30/2013	78,123,425	194,227,188	(116,103,763)	248.6%
06/30/2014	82,254,488	215,414,591	(133,160,103)	261.9%
06/30/2015	88,473,668	219,694,509	(131,220,841)	248.3%
06/30/2016	117,360,281	250,137,428	(132,777,147)	213.1%
06/30/2017	139,904,430	281,900,545	(141,996,115)	201.5%
06/30/2018	145,065,798	286,352,337	(141,286,539)	197.4%
06/30/2019	148,706,861	301,503,348	(152,796,487)	202.8%
06/30/2020	207,794,190	366,127,374	(158,333,184)	176.2%
06/30/2021	196,452,685	390,862,083	(194,409,398)	199.0%
06/30/2022	181,551,648	361,574,892	(180,023,244)	199.2%
06/30/2023	171,101,061	358,832,436	(187,731,375)	209.7%
06/30/2024	159,027,678	366,613,322	(207,585,645)	230.5%
06/30/2025	148,851,535	386,395,591	(237,544,056)	259.6%

History of Plans in the Terminated Agency Pool

Valuation Date	Number of Plans in Pool	Number of Plans Joining Pool	Accrued Liability of Joining Plans (\$ millions)	Number of Plans Leaving Pool
06/30/2010	87	0	-	-
06/30/2011	87	3	\$1	3
06/30/2012	90	3	-	-
06/30/2013	90	2	-	2
06/30/2014	94	4	\$8	-
06/30/2015	93	2	\$3	3
06/30/2016	98	5	\$24	-
06/30/2017	108	10	\$28	-
06/30/2018	109	1	\$1	-
06/30/2019	109	5	\$1	5
06/30/2020	119	10	\$38	-
06/30/2021	119	1	\$1	1
06/30/2022	121	4	\$14	2
06/30/2023	119	2	\$8	4
06/30/2024	121	2	\$1	-
06/30/2025	121	2	\$0.7	2

Risk Analysis

- 12 Mortality Rate Sensitivity
- 12 Inflation Rate Sensitivity
- 12 Discount Rate Sensitivity
- 12 Low Default Risk Obligation Measure

Mortality Rate Sensitivity

The following analysis looks at the change in the June 30, 2025 funded status under two different longevity scenarios, namely assuming rates of post-retirement mortality are 10% lower and 10% higher than the current mortality assumptions adopted in 2025. This analysis gives an indication of the sensitivity of the funded ratio of the Terminated Agency Pool to increasing or decreasing mortality rates over the long-term.

As of June 30, 2025	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Accrued Liability	\$153,170,236	\$148,851,535	\$144,960,269
b) Fair Value of Assets	\$386,395,591	\$386,395,591	\$386,395,591
c) Unfunded Liability (Surplus) [(a)-(b)]	(\$233,225,354)	(\$237,544,156)	(\$241,435,321)
d) Funded Ratio	252.3%	259.6%	266.6%

A 10% increase (decrease) to the assumed mortality rates over the long-term would result in approximately a 7% increase (decrease) to the funded ratio.

Inflation Rate Sensitivity

The following analysis looks at the change in the June 30, 2025 funded status under two different inflation rate scenarios. Shown below are the funded status assuming inflation rates that are 1% lower and 1% higher than the current valuation inflation rate assumption of 2.32%. This analysis gives an indication of the sensitivity of the funded ratio of the Terminated Agency Pool to increasing or decreasing inflation rates over the long-term.

As of June 30, 2025	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
a) Accrued Liability	\$138,155,295	\$148,851,535	\$156,661,279
b) Fair Value of Assets	\$386,395,591	\$386,395,591	\$386,395,591
c) Unfunded Liability (Surplus) [(a)-(b)]	(\$248,240,295)	(\$237,544,156)	(\$229,734,312)
d) Funded Ratio	279.7%	259.6%	246.4%

A decrease of 1% in the inflation rate assumption (2.32% to 1.32%) reduces the Accrued Liability by 7.2%. However, a 1% increase in the inflation rate (2.32% to 3.32%) increases the Accrued Liability by 5.2%. Unlike the mortality sensitivity analysis above, the impact of the inflation rate sensitivity is not symmetrical. The reason for this is most plans in the Terminated Agency Pool have a 2% COLA provision, which limits annual increases in benefits to 2%.

Discount Rate Sensitivity

The Terminated Agency Pool's funded ratio is not expected to be sensitive to changes in interest rates due to the Immunized Segment of the pool's fair value of assets. Immunization of a significant portion of the risk pool's portfolio results in a funded status that is invariant to changes in the interest rate. Since the funded ratio is not expected to be sensitive to the discount rate for this risk pool, the most sensitive assumptions are the mortality rate and inflation rate assumptions. Consequently, a discount rate sensitivity analysis was replaced with a mortality rate and inflation rate sensitivity analysis for this risk pool.

Low Default Risk Obligation Measure

Actuarial Standard of Practice (ASOP) No. 4, Measuring Pension Obligations and Determining Pension Plan Costs or Contributions, requires the disclosure of a low-default-risk obligation measure (LDROM) of benefit costs accrued as of the valuation date using a discount rate based on the yields of high quality fixed income securities with cash flows that replicate expected benefit payments. This measure approximates the cost to purchase low-default-risk fixed income securities to fund the accrued benefit. The Accrued Liability provided in this report satisfies the requirements of a LDROM as specified in ASOP No. 4.

Appendices

A-1 Appendix A – Actuarial Methods and Assumptions

B-1 Appendix B – Summary of Principal Plan Provisions

C-1 Appendix C – Summary of Participant Data

D-1 Appendix D – List of Terminated Agencies

E-1 Appendix E – Glossary

Appendix A – Actuarial Methods and Assumptions

Actuarial Data

As stated in the Actuarial Certification, the data, which serve as the basis of this valuation, have been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate. We are unaware of any potential data issues that would have a material effect on the results of this valuation, except that data do not always contain the latest salary information for former members now in reciprocal systems and does not recognize the potential for usually large salary deviation in certain cases such as elected officials. Therefore, salary information in these cases may not be accurate. These situations are relatively infrequent.

Actuarial Methods

Actuarial Cost Methods

The actuarial accrued liability for members currently receiving benefits and for members entitled to deferred benefits (i.e., transferred members and separated members) is equal to the present value of the benefits expected to be paid.

Asset Valuation Method

As there are no contributions or amortization requirements for the Terminated Agency Pool, there is no need to dampen fluctuations in the Fair Value of Assets to derive an Actuarial Value of Assets. Therefore, the Actuarial Value of Assets has been set equal to the Fair Value of Assets.

The excess of the actuarial accrued liability over the fair value of plan assets is called the unfunded actuarial accrued liability.

Actuarial Assumptions

Economic Assumptions

Discount Rate

The discount rate for this valuation is 4.83% compounded annually which is the yield on 30-Year US Treasury STRIPS as of June 30, 2025. This rate is used for all plans in this valuation. A discount rate of 4.34% was used in the prior year's valuation.

The following procedure is used to determine the discount rate for terminated agency valuations:

- a) Determine the duration of the pension liabilities as of the valuation date.
- b) Determine the weights that should be applied to the 10-Year and 30-Year US Treasury durations (at spot rates at the valuation date), to equal the duration calculated in (a).
- c) Apply the weights determined in (b) to the 10-Year and 30-Year US Treasury yields.

Appendix A - Actuarial Methods and Assumptions

Economic Assumptions (continued)

Salary Growth

Annual increases vary by category, entry age, and duration of service. A sample of assumed increases due to seniority, merit and promotion are shown below. Assumed wage inflation is combined with these factors to develop the total expected salary increases.

Annual Percentage Increase

Public Agency Miscellaneous

Duration of Service	Entry Age		
	20	30	40
0	0.0715	0.0578	0.0443
1	0.0641	0.0507	0.0380
2	0.0574	0.0445	0.0326
3	0.0514	0.0391	0.0279
4	0.0460	0.0343	0.0240
5	0.0412	0.0301	0.0205
10	0.0237	0.0156	0.0095
15	0.0166	0.0106	0.0076
20	0.0125	0.0083	0.0049
25	0.0095	0.0065	0.0031
30	0.0072	0.0051	0.0020

Public Agency Fire

Duration of Service	Entry Age		
	20	30	40
0	0.1574	0.1551	0.0682
1	0.1244	0.1161	0.0555
2	0.0983	0.0869	0.0451
3	0.0777	0.0651	0.0367
4	0.0614	0.0488	0.0298
5	0.0486	0.0365	0.0242
10	0.0205	0.0153	0.0087
15	0.0182	0.0134	0.0102
20	0.0161	0.0118	0.0120
25	0.0143	0.0104	0.0141
30	0.0127	0.0091	0.0166

Public Agency Police

Duration of Service	Entry Age		
	20	30	40
0	0.1228	0.1030	0.0621
1	0.0975	0.0809	0.0511
2	0.0774	0.0635	0.0421
3	0.0615	0.0498	0.0346
4	0.0488	0.0391	0.0285
5	0.0387	0.0307	0.0234
10	0.0194	0.0163	0.0134
15	0.0190	0.0150	0.0130
20	0.0186	0.0138	0.0126
25	0.0182	0.0128	0.0122
30	0.0178	0.0118	0.0119

Appendix A - Actuarial Methods and Assumptions

Salary Growth (continued)

Public Agency County Peace Officer

Duration of Service	Entry Age		
	20	30	40
0	0.1096	0.0980	0.0754
1	0.0892	0.0789	0.0594
2	0.0726	0.0635	0.0468
3	0.0591	0.0511	0.0369
4	0.0482	0.0411	0.0291
5	0.0392	0.0331	0.0229
10	0.0167	0.0142	0.0071
15	0.0163	0.0126	0.0066
20	0.0159	0.0112	0.0062
25	0.0155	0.0100	0.0058
30	0.0151	0.0089	0.0054

- The Miscellaneous salary scale is used for Local Prosecutors.
- The Police salary scale is used for Other Safety, Local Sheriff, and School Police.

Price Inflation

2.32% compounded annually. This assumption is used for all plans in the Terminated Agency Pool. The inflation rate is determined as the difference between the yield on 30-Year US Treasury STRIPS and the yield on 30-Year US Treasury TIPS as of the valuation date. An inflation rate of 2.13% was used in the prior year's valuation.

Potentially Non-valued Additional Liabilities

The potential liability loss under PPPA for a cost-of-living increase exceeding the 2.32% inflation assumption is not reflected in the valuation.

Appendix A - Actuarial Methods and Assumptions

Miscellaneous Loading Factors

Credit for Unused Sick Leave

Service credits are increased by 1% for those agencies that have accepted the provision providing Credit for Unused Sick Leave.

Conversion of Employer Paid Member Contributions (EPMC)

Final Average Salary is increased by the Employee Contribution Rate for those agencies that have contracted for the provision providing for the Conversion of Employer Paid Member Contributions (EPMC) during the final compensation period.

Norris Decision (Best Factors)

Employees hired prior to July 1, 1982 have projected benefit amounts increased in order to reflect the use of "Best Factors" for these employees in the calculation of optional benefit forms. This is due to a 1983 Supreme Court decision, known as the Norris decision, which required males and females to be treated equally in the determination of benefit amounts. Consequently, anyone already employed at that time is given the best possible conversion factor when optional benefits are determined. No loading is necessary for employees hired after July 1, 1982.

Termination Liability

At the time an agency terminates, the termination process requires applying a contingency load for unforeseen improvements in mortality. For terminations before January 1, 2018, a 7% load for unforeseen negative experience was applied (as set by Board Resolution ACT-11-02 and approved by the Board on June 15, 2011). In December 2017, the Board approved the CalPERS Experience Study and Review of Actuarial Assumptions, changing the load to 5%.

Demographic Assumptions

Pre-Retirement Mortality

The mortality assumptions are based on mortality rates resulting from the most recent CalPERS Experience Study adopted by the CalPERS Board in November 2025. For purposes of the mortality rates, the rates incorporate generational mortality to capture on-going mortality improvement. Generational mortality explicitly assumes that members born more recently will live longer than the members born before them thereby capturing the mortality improvement. For more details, please refer to the *2025 CalPERS Experience Study* report that can be found on the CalPERS website.

Rates vary by age and gender are shown in the table below. This table only contains a sample of the 2017 base table rates for illustrative purposes. The non-industrial death rates are used for all plans. The industrial death rates are used for Safety plans, except for local Safety members described in Section 20423.6 where the agency has not specifically contracted for industrial death benefits.

Age	Miscellaneous		Safety			
	Non-Industrial Death (Not Job-Related)		Non-Industrial Death (Not Job-Related)		Industrial Death (Job-Related)	
	Male	Female	Male	Female	Male	Female
20	0.00039	0.00014	0.00038	0.00014	0.00004	0.00002
25	0.00033	0.00013	0.00034	0.00018	0.00004	0.00002
30	0.00044	0.00019	0.00042	0.00025	0.00005	0.00003
35	0.00058	0.00029	0.00048	0.00034	0.00005	0.00004
40	0.00075	0.00039	0.00055	0.00042	0.00006	0.00005
45	0.00093	0.00054	0.00066	0.00053	0.00007	0.00006
50	0.00134	0.00081	0.00092	0.00073	0.00010	0.00008
55	0.00198	0.00123	0.00138	0.00106	0.00015	0.00012
60	0.00287	0.00179	0.00221	0.00151	0.00025	0.00017
65	0.00403	0.00250	0.00346	0.00194	0.00038	0.00022
70	0.00594	0.00404	0.00606	0.00358	0.00067	0.00040
75	0.00933	0.00688	0.01099	0.00699	0.00122	0.00078
80	0.01515	0.01149	0.02027	0.01410	0.00225	0.00157

- The pre-retirement mortality rates above are for 2017 and are projected generationally for future years using 80% of the Society of Actuaries' Scale MP-2021.
- Miscellaneous plans usually have industrial death rates set to zero unless the agency has specifically contracted for industrial death benefits. If so, each non-industrial death rate shown above will be split into two components: 99% will become the non-industrial death rate and 1% will become the industrial death rate.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Post-Retirement Mortality

Rates vary by age, type of retirement, and gender. See sample rates in table below. These rates are used for all plans.

Age	Healthy Recipients		Non-Industrial Disabled (Not Job-Related)		Industrial Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00266	0.00197	0.01701	0.01424	0.00430	0.00308
55	0.00390	0.00328	0.02210	0.01753	0.00621	0.00556
60	0.00578	0.00458	0.02708	0.01983	0.00944	0.00878
65	0.00857	0.00608	0.03334	0.02252	0.01394	0.01176
70	0.01333	0.00989	0.04001	0.02854	0.02163	0.01819
75	0.02391	0.01777	0.05376	0.04099	0.03446	0.03078
80	0.04371	0.03401	0.07936	0.06051	0.05853	0.05121
85	0.08274	0.06166	0.11561	0.09312	0.10137	0.07977
90	0.14539	0.11086	0.16608	0.14301	0.16584	0.12331
95	0.24664	0.20364	0.24664	0.20364	0.24664	0.20364
100	0.36198	0.31582	0.36198	0.31582	0.36198	0.31582
105	0.52229	0.44679	0.52229	0.44679	0.52229	0.44679
110	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

- The post-retirement mortality rates above are for 2017 and are projected generationally for future years using 80% of the Society of Actuaries' Scale MP-2021.

Marital Status

For active members, a percentage married upon retirement is assumed according to the following table.

Plan	Percent Married
Miscellaneous Member	70%
Local Police	85%
Local Fire	85%
Other Local Safety	70%
School Police	85%
Local County Peace Officers	75%

Age of Spouse

It is assumed that female spouses are 3 years younger than male spouses. This assumption is used for all plans in the Terminated Agency Pool.

Separated Members

It is assumed that separated members refund immediately if non-vested. Separated members who are vested are assumed to retire at age 60 for Miscellaneous members and age 54 for Safety members.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Termination with Refund

Rates vary by entry age and years of service for Miscellaneous Plans. Rates vary by years of service for Safety Plans. See sample rates in tables below.

Public Agency Miscellaneous

Duration of Service	Entry Age											
	20		25		30		35		40		45	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
0	0.1757	0.1809	0.1698	0.1779	0.1600	0.1729	0.1502	0.1678	0.1404	0.1628	0.1433	0.1665
1	0.1448	0.1539	0.1378	0.1492	0.1261	0.1413	0.1144	0.1334	0.1027	0.1255	0.1053	0.1270
2	0.1151	0.1262	0.1084	0.1211	0.0973	0.1125	0.0862	0.1040	0.0751	0.0955	0.0772	0.0954
3	0.0876	0.0986	0.0820	0.0904	0.0728	0.0863	0.0636	0.0785	0.0543	0.0708	0.0559	0.0700
4	0.0633	0.0724	0.0590	0.0687	0.0519	0.0624	0.0447	0.0562	0.0376	0.0499	0.0387	0.0490
5	0.0432	0.0495	0.0400	0.0467	0.0347	0.0421	0.0294	0.0375	0.0240	0.0329	0.0249	0.0321
10	0.0096	0.0120	0.0088	0.0112	0.0074	0.0099	0.0060	0.0085	0.0046	0.0072	0.0044	0.0066
15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

- The Public Agency Miscellaneous termination and refund rates are also used for Public Agency Local Prosecutors.

Public Agency Safety

Duration of Service	Fire		Police*		County Peace Officer	
	Male	Female	Male	Female	Male	Female
0	0.1112	0.1430	0.1298	0.1301	0.1077	0.1302
1	0.0717	0.1059	0.0789	0.0848	0.0750	0.0962
2	0.0442	0.0760	0.0460	0.0528	0.0514	0.0697
3	0.0262	0.0525	0.0263	0.0313	0.0350	0.0494
4	0.0151	0.0346	0.0154	0.0178	0.0238	0.0342
5	0.0087	0.0215	0.0098	0.0101	0.0163	0.0230
10	0.0017	0.0000	0.0031	0.0034	0.0039	0.0035
15	0.0000	0.0000	0.0000	0.0000	0.0020	0.0028
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

- The police termination with refund rates are also used for Other Safety, Local Sheriff, and School Police.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Termination with Vested Deferred Benefits

Rates vary by entry age and years of service for Miscellaneous Plans. Rates vary by years of service for Safety Plans. See sample rates in tables below.

Public Agency Miscellaneous

Duration of Service	Entry Age									
	20		25		30		35		40	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
5	0.0393	0.0505	0.0393	0.0505	0.0376	0.0447	0.0359	0.0388	0.0317	0.0375
10	0.0270	0.0348	0.0270	0.0348	0.0256	0.0326	0.0242	0.0303	0.0199	0.0240
15	0.0187	0.0251	0.0187	0.0251	0.0172	0.0217	0.0157	0.0183	0.0125	0.0140
20	0.0147	0.0183	0.0147	0.0183	0.0115	0.0138	0.0083	0.0092	0.0000	0.0000
25	0.0086	0.0112	0.0086	0.0112	0.0069	0.0081	0.0000	0.0000	0.0000	0.0000
30	0.0054	0.0060	0.0054	0.0060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0035	0.0048	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

- The Public Agency Miscellaneous termination with vested benefits rates are also used for Public Agency Local Prosecutors.

Public Agency Safety

Duration of Service	Fire		Police*		County Peace Officer	
	Male	Female	Male	Female	Male	Female
5	0.0089	0.0224	0.0156	0.0257	0.0177	0.0266
10	0.0066	0.0164	0.0113	0.0184	0.0126	0.0189
15	0.0048	0.0120	0.0082	0.0131	0.0089	0.0134
20	0.0035	0.0088	0.0060	0.0094	0.0063	0.0095
25	0.0024	0.0061	0.0042	0.0067	0.0042	0.0063
30	0.0012	0.0031	0.0021	0.0034	0.0021	0.0031
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

- When a member is eligible to retire, the termination with vested benefits probability is set to zero.
- After termination with vested benefits, a miscellaneous member is assumed to retire at age 60 and a safety member at age 54.
- The Police Termination with vested benefits rates are used for Other Safety, Local Sheriff, and School Police.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Non-Industrial (Not Job-Related) Disability

Rates vary by age and gender for Miscellaneous Plans. Rates vary by age for Safety Plans.

Age	Miscellaneous	Safety
20	0.0000	0.0000
25	0.0000	0.0000
30	0.0003	0.0003
35	0.0005	0.0003
40	0.0010	0.0005
45	0.0018	0.0007
50	0.0025	0.0008
55	0.0019	0.0012
60	0.0017	0.0028

- The Miscellaneous Non-Industrial Disability rates are used for Local Prosecutors.
- The Safety non-industrial disability rates are used for Police, Fire, County Peace Officer, Other Safety, Local Sheriff, and School Police.

Industrial (Job-Related) Disability

Rates vary by age and category.

Age	Fire	Police	County Peace Officer
20	0.0001	0.0000	0.0004
25	0.0002	0.0017	0.0013
30	0.0006	0.0048	0.0025
35	0.0012	0.0079	0.0043
40	0.0023	0.0110	0.0062
45	0.0036	0.0141	0.0081
50	0.0146	0.0185	0.0106
55	0.0307	0.0479	0.0151
60	0.0503	0.0602	0.0174

- The County Peace Officer industrial disability rates are also used for Local Sheriff and Other Safety.
- 80% of the County Peace Officer industrial disability rates are used for School Police.
- 1% of the County Peace Officer industrial disability rates are used for Local Prosecutors.
- Normally, rates are zero for Miscellaneous plans unless the agency has specifically contracted for industrial disability benefits. If so, each Miscellaneous non-industrial disability rate will be split into two components: 50% will become the non-industrial disability rate and 50% will become the industrial disability rate.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Service Retirement

Retirement rates vary by age, years of service, and formula, except for the Safety $\frac{1}{2}$ @ 55 and 2% @ 55 formulas, where retirement rates vary by age only.

Public Agency Miscellaneous 1.5% @ 65

Age	Years of Service					
	5	10	15	20	25	30
50	0.005	0.012	0.014	0.020	0.023	0.023
51	0.012	0.014	0.014	0.018	0.020	0.020
52	0.009	0.012	0.014	0.019	0.021	0.021
53	0.009	0.012	0.014	0.020	0.024	0.024
54	0.011	0.014	0.017	0.025	0.030	0.030
55	0.012	0.023	0.033	0.060	0.084	0.084
56	0.014	0.022	0.032	0.053	0.071	0.071
57	0.016	0.025	0.033	0.053	0.070	0.070
58	0.022	0.026	0.036	0.057	0.074	0.074
59	0.023	0.035	0.044	0.065	0.086	0.086
60	0.037	0.043	0.054	0.078	0.095	0.114
61	0.038	0.055	0.073	0.093	0.116	0.139
62	0.055	0.076	0.090	0.110	0.127	0.136
63	0.075	0.097	0.112	0.133	0.149	0.167
64	0.076	0.104	0.114	0.142	0.163	0.176
65	0.103	0.135	0.154	0.184	0.202	0.211
66	0.133	0.170	0.179	0.198	0.207	0.203
67	0.137	0.181	0.190	0.203	0.203	0.203
68	0.146	0.176	0.178	0.191	0.191	0.191
69	0.124	0.163	0.171	0.184	0.184	0.184
70	0.197	0.197	0.197	0.197	0.197	0.197

Public Agency Miscellaneous 2% @ 60

Age	Years of Service					
	5	10	15	20	25	30
50	0.006	0.014	0.016	0.023	0.027	0.027
51	0.014	0.016	0.017	0.021	0.023	0.023
52	0.010	0.014	0.017	0.022	0.025	0.025
53	0.010	0.014	0.017	0.023	0.028	0.028
54	0.013	0.016	0.020	0.029	0.035	0.035
55	0.014	0.027	0.039	0.071	0.099	0.099
56	0.017	0.026	0.038	0.062	0.083	0.083
57	0.019	0.029	0.039	0.062	0.082	0.082
58	0.026	0.031	0.042	0.067	0.087	0.087
59	0.027	0.041	0.052	0.077	0.101	0.101
60	0.044	0.050	0.064	0.092	0.112	0.134
61	0.045	0.065	0.086	0.109	0.136	0.164
62	0.065	0.089	0.106	0.129	0.149	0.160
63	0.088	0.114	0.132	0.157	0.175	0.197
64	0.089	0.122	0.134	0.167	0.192	0.207
65	0.121	0.159	0.181	0.216	0.238	0.248
66	0.157	0.200	0.210	0.233	0.244	0.239
67	0.161	0.213	0.223	0.239	0.239	0.239
68	0.172	0.207	0.209	0.225	0.225	0.225
69	0.146	0.192	0.201	0.216	0.216	0.216
70	0.232	0.232	0.232	0.232	0.232	0.232

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Miscellaneous 2% @ 55

Age	Years of Service					
	5	10	15	20	25	30
50	0.007	0.014	0.017	0.023	0.028	0.028
51	0.015	0.016	0.018	0.021	0.024	0.024
52	0.010	0.015	0.017	0.022	0.025	0.025
53	0.010	0.016	0.019	0.026	0.030	0.030
54	0.014	0.019	0.023	0.033	0.041	0.041
55	0.016	0.031	0.046	0.083	0.116	0.116
56	0.023	0.034	0.049	0.081	0.107	0.107
57	0.025	0.039	0.053	0.083	0.109	0.109
58	0.032	0.040	0.053	0.085	0.112	0.112
59	0.034	0.050	0.064	0.095	0.126	0.126
60	0.056	0.065	0.083	0.118	0.145	0.173
61	0.046	0.066	0.088	0.113	0.140	0.170
62	0.095	0.129	0.155	0.186	0.216	0.232
63	0.115	0.149	0.171	0.204	0.226	0.256
64	0.101	0.137	0.151	0.187	0.216	0.233
65	0.149	0.195	0.223	0.265	0.293	0.307
66	0.212	0.268	0.282	0.315	0.329	0.323
67	0.188	0.249	0.260	0.279	0.279	0.279
68	0.203	0.243	0.245	0.264	0.264	0.264
69	0.161	0.211	0.221	0.238	0.238	0.238
70	0.275	0.275	0.275	0.275	0.275	0.275

Public Agency Miscellaneous 2.5% @ 55

Age	Years of Service					
	5	10	15	20	25	30
50	0.009	0.018	0.023	0.031	0.037	0.037
51	0.019	0.021	0.023	0.027	0.031	0.031
52	0.012	0.018	0.023	0.028	0.033	0.033
53	0.014	0.020	0.026	0.035	0.041	0.041
54	0.017	0.023	0.029	0.041	0.050	0.050
55	0.024	0.049	0.071	0.128	0.179	0.179
56	0.030	0.046	0.068	0.111	0.146	0.146
57	0.031	0.048	0.066	0.104	0.138	0.138
58	0.040	0.049	0.064	0.103	0.135	0.135
59	0.039	0.059	0.075	0.110	0.145	0.145
60	0.060	0.069	0.087	0.126	0.153	0.183
61	0.050	0.072	0.095	0.121	0.151	0.182
62	0.096	0.131	0.157	0.189	0.220	0.236
63	0.099	0.129	0.149	0.177	0.197	0.222
64	0.099	0.134	0.149	0.184	0.212	0.229
65	0.131	0.172	0.196	0.233	0.258	0.269
66	0.210	0.266	0.279	0.312	0.326	0.319
67	0.183	0.242	0.253	0.272	0.272	0.272
68	0.184	0.220	0.222	0.240	0.240	0.240
69	0.158	0.207	0.217	0.234	0.234	0.234
70	0.267	0.267	0.267	0.267	0.267	0.267

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Miscellaneous 2.7% @ 55

Age	Years of Service					
	5	10	15	20	25	30
50	0.008	0.016	0.020	0.027	0.033	0.033
51	0.017	0.019	0.021	0.026	0.029	0.029
52	0.012	0.018	0.023	0.028	0.033	0.033
53	0.013	0.019	0.025	0.034	0.039	0.039
54	0.018	0.025	0.031	0.044	0.053	0.053
55	0.030	0.060	0.088	0.158	0.221	0.221
56	0.036	0.054	0.080	0.131	0.174	0.174
57	0.034	0.052	0.070	0.111	0.147	0.147
58	0.046	0.055	0.074	0.119	0.157	0.157
59	0.042	0.062	0.079	0.117	0.154	0.154
60	0.066	0.077	0.096	0.139	0.170	0.202
61	0.053	0.077	0.102	0.132	0.164	0.199
62	0.093	0.127	0.152	0.184	0.213	0.228
63	0.104	0.134	0.155	0.184	0.205	0.231
64	0.096	0.130	0.144	0.178	0.205	0.221
65	0.155	0.202	0.231	0.275	0.304	0.318
66	0.199	0.252	0.265	0.296	0.309	0.303
67	0.176	0.233	0.244	0.262	0.262	0.262
68	0.188	0.225	0.227	0.245	0.245	0.245
69	0.165	0.216	0.227	0.244	0.244	0.244
70	0.256	0.256	0.256	0.256	0.256	0.256

Public Agency Miscellaneous 3% @ 60

Age	Years of Service					
	5	10	15	20	25	30
50	0.009	0.019	0.023	0.031	0.037	0.037
51	0.021	0.023	0.025	0.030	0.034	0.034
52	0.013	0.018	0.023	0.029	0.033	0.033
53	0.013	0.019	0.025	0.034	0.039	0.039
54	0.016	0.022	0.028	0.040	0.048	0.048
55	0.015	0.031	0.045	0.081	0.114	0.114
56	0.022	0.033	0.048	0.080	0.105	0.105
57	0.024	0.038	0.052	0.082	0.108	0.108
58	0.034	0.041	0.055	0.089	0.116	0.116
59	0.032	0.049	0.062	0.093	0.121	0.121
60	0.096	0.112	0.141	0.204	0.249	0.295
61	0.058	0.085	0.112	0.143	0.179	0.216
62	0.104	0.141	0.169	0.203	0.237	0.254
63	0.106	0.138	0.158	0.188	0.210	0.236
64	0.100	0.136	0.151	0.187	0.215	0.232
65	0.161	0.211	0.241	0.287	0.317	0.332
66	0.220	0.278	0.292	0.327	0.341	0.334
67	0.185	0.245	0.256	0.275	0.275	0.275
68	0.191	0.229	0.231	0.249	0.249	0.249
69	0.163	0.214	0.224	0.241	0.241	0.241
70	0.278	0.278	0.278	0.278	0.278	0.278

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Miscellaneous 2% @ 62

Age	Years of Service					
	5	10	15	20	25	30
50	0.000	0.000	0.000	0.000	0.000	0.000
51	0.000	0.000	0.000	0.000	0.000	0.000
52	0.008	0.013	0.015	0.019	0.023	0.023
53	0.009	0.014	0.016	0.023	0.026	0.026
54	0.012	0.015	0.019	0.026	0.033	0.033
55	0.013	0.025	0.037	0.066	0.092	0.092
56	0.016	0.025	0.036	0.060	0.080	0.080
57	0.018	0.027	0.037	0.059	0.077	0.077
58	0.023	0.028	0.036	0.059	0.077	0.077
59	0.023	0.033	0.042	0.063	0.083	0.083
60	0.035	0.041	0.050	0.074	0.090	0.107
61	0.037	0.053	0.070	0.090	0.113	0.137
62	0.055	0.076	0.091	0.109	0.127	0.136
63	0.071	0.091	0.105	0.126	0.140	0.158
64	0.070	0.097	0.107	0.132	0.153	0.165
65	0.102	0.133	0.153	0.181	0.201	0.210
66	0.139	0.176	0.185	0.207	0.215	0.212
67	0.145	0.192	0.201	0.216	0.216	0.216
68	0.158	0.191	0.192	0.207	0.207	0.207
69	0.138	0.180	0.189	0.203	0.203	0.203
70	0.212	0.212	0.212	0.212	0.212	0.212

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire ½ @ 55 and 2% @ 55

Age	Years of Service					
	5	10	15	20	25	30
50	0.007	0.009	0.014	0.017	0.025	0.027
51	0.003	0.015	0.020	0.019	0.026	0.035
52	0.034	0.015	0.020	0.023	0.033	0.036
53	0.014	0.014	0.030	0.040	0.062	0.071
54	0.071	0.033	0.040	0.043	0.081	0.115
55	0.024	0.031	0.055	0.093	0.123	0.151
56	0.033	0.045	0.060	0.090	0.113	0.133
57	0.075	0.075	0.093	0.127	0.143	0.143
58	0.070	0.053	0.059	0.077	0.086	0.086
59	0.122	0.076	0.077	0.094	0.103	0.103
60	0.067	0.087	0.095	0.116	0.127	0.127
61	0.121	0.121	0.121	0.121	0.121	0.121
62	0.140	0.140	0.140	0.140	0.140	0.140
63	0.136	0.136	0.136	0.136	0.136	0.136
64	0.163	0.163	0.163	0.163	0.163	0.163
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police ½ @ 55 and 2% @ 55*

Age	Years of Service					
	5	10	15	20	25	30
50	0.015	0.020	0.031	0.037	0.054	0.060
51	0.006	0.027	0.034	0.031	0.045	0.060
52	0.055	0.025	0.033	0.037	0.055	0.059
53	0.014	0.014	0.030	0.040	0.062	0.071
54	0.064	0.029	0.036	0.039	0.073	0.103
55	0.031	0.039	0.070	0.118	0.156	0.191
56	0.037	0.051	0.068	0.101	0.127	0.150
57	0.061	0.063	0.077	0.105	0.119	0.119
58	0.091	0.070	0.078	0.101	0.112	0.112
59	0.135	0.083	0.084	0.103	0.113	0.113
60	0.066	0.086	0.094	0.115	0.126	0.126
61	0.120	0.120	0.120	0.120	0.120	0.120
62	0.140	0.140	0.140	0.140	0.140	0.140
63	0.150	0.150	0.150	0.150	0.150	0.150
64	0.140	0.140	0.140	0.140	0.140	0.140
65	1.000	1.000	1.000	1.000	1.000	1.000

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Police 2% @ 50*

Age	Years of Service					
	5	10	15	20	25	30
50	0.023	0.030	0.046	0.055	0.081	0.090
51	0.009	0.040	0.051	0.047	0.067	0.090
52	0.083	0.038	0.049	0.056	0.082	0.088
53	0.021	0.021	0.045	0.060	0.093	0.106
54	0.096	0.043	0.054	0.058	0.109	0.154
55	0.046	0.059	0.105	0.177	0.234	0.286
56	0.056	0.077	0.101	0.152	0.190	0.224
57	0.092	0.093	0.116	0.157	0.178	0.178
58	0.137	0.104	0.117	0.151	0.168	0.168
59	0.201	0.125	0.126	0.155	0.169	0.169
60	0.099	0.130	0.141	0.173	0.189	0.189
61	0.180	0.180	0.180	0.180	0.180	0.180
62	0.210	0.210	0.210	0.210	0.210	0.210
63	0.226	0.226	0.226	0.226	0.226	0.226
64	0.211	0.211	0.211	0.211	0.211	0.211
65	1.000	1.000	1.000	1.000	1.000	1.000

*These rates also apply to County Peace Officers, Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire 2% @ 50

Age	Years of Service					
	5	10	15	20	25	30
50	0.010	0.014	0.021	0.025	0.037	0.040
51	0.005	0.023	0.030	0.028	0.039	0.053
52	0.051	0.023	0.030	0.035	0.050	0.054
53	0.021	0.021	0.045	0.060	0.093	0.106
54	0.107	0.049	0.060	0.065	0.122	0.173
55	0.036	0.046	0.083	0.140	0.184	0.225
56	0.050	0.068	0.089	0.135	0.168	0.198
57	0.110	0.113	0.140	0.190	0.215	0.215
58	0.105	0.080	0.089	0.116	0.129	0.129
59	0.183	0.114	0.115	0.140	0.154	0.154
60	0.101	0.131	0.142	0.175	0.191	0.191
61	0.182	0.182	0.182	0.182	0.182	0.182
62	0.210	0.210	0.210	0.210	0.210	0.210
63	0.204	0.204	0.204	0.204	0.204	0.204
64	0.246	0.246	0.246	0.246	0.246	0.246
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police 3% @ 55*

Age	Years of Service					
	5	10	15	20	25	30
50	0.021	0.029	0.045	0.054	0.081	0.089
51	0.009	0.039	0.051	0.047	0.066	0.088
52	0.082	0.037	0.049	0.055	0.081	0.088
53	0.021	0.021	0.045	0.059	0.093	0.105
54	0.096	0.043	0.054	0.058	0.110	0.155
55	0.046	0.059	0.107	0.179	0.237	0.289
56	0.057	0.078	0.103	0.154	0.193	0.227
57	0.093	0.096	0.118	0.160	0.181	0.181
58	0.137	0.105	0.117	0.152	0.168	0.168
59	0.202	0.125	0.126	0.155	0.169	0.169
60	0.100	0.130	0.142	0.174	0.190	0.190
61	0.182	0.182	0.182	0.182	0.182	0.182
62	0.213	0.213	0.213	0.213	0.213	0.213
63	0.224	0.224	0.224	0.224	0.224	0.224
64	0.213	0.213	0.213	0.213	0.213	0.213
65	1.000	1.000	1.000	1.000	1.000	1.000

*These rates also apply to County Peace Officers, Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire 3% @ 55

Age	Years of Service					
	5	10	15	20	25	30
50	0.010	0.014	0.020	0.025	0.037	0.040
51	0.005	0.023	0.030	0.028	0.039	0.052
52	0.050	0.023	0.030	0.034	0.050	0.053
53	0.021	0.021	0.045	0.060	0.093	0.105
54	0.107	0.049	0.060	0.065	0.123	0.174
55	0.037	0.046	0.084	0.142	0.187	0.228
56	0.050	0.069	0.091	0.137	0.171	0.201
57	0.113	0.115	0.141	0.192	0.218	0.218
58	0.105	0.080	0.089	0.116	0.129	0.129
59	0.183	0.114	0.115	0.141	0.154	0.154
60	0.101	0.131	0.143	0.175	0.191	0.191
61	0.183	0.183	0.183	0.183	0.183	0.183
62	0.213	0.213	0.213	0.213	0.213	0.213
63	0.203	0.203	0.203	0.203	0.203	0.203
64	0.248	0.248	0.248	0.248	0.248	0.248
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police 3% @ 50*

Age	Years of Service					
	5	10	15	20	25	30
50	0.082	0.075	0.131	0.190	0.256	0.322
51	0.061	0.058	0.102	0.149	0.202	0.254
52	0.039	0.071	0.101	0.139	0.181	0.222
53	0.016	0.040	0.086	0.133	0.184	0.235
54	0.059	0.068	0.084	0.105	0.175	0.280
55	0.043	0.055	0.098	0.165	0.218	0.266
56	0.065	0.088	0.117	0.175	0.220	0.259
57	0.110	0.111	0.137	0.187	0.212	0.212
58	0.177	0.135	0.151	0.196	0.218	0.218
59	0.279	0.174	0.176	0.216	0.235	0.235
60	0.121	0.158	0.172	0.211	0.230	0.230
61	0.205	0.205	0.205	0.205	0.205	0.205
62	0.211	0.211	0.211	0.211	0.211	0.211
63	0.208	0.208	0.208	0.208	0.208	0.208
64	0.246	0.246	0.246	0.246	0.246	0.246
65	1.000	1.000	1.000	1.000	1.000	1.000

*These rates also apply to County Peace Officers, Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire 3% @ 50

Age	Years of Service					
	5	10	15	20	25	30
50	0.041	0.037	0.065	0.094	0.127	0.159
51	0.033	0.031	0.055	0.081	0.109	0.137
52	0.024	0.042	0.060	0.082	0.107	0.132
53	0.010	0.026	0.056	0.086	0.119	0.152
54	0.041	0.047	0.058	0.073	0.121	0.192
55	0.029	0.038	0.068	0.114	0.151	0.184
56	0.050	0.068	0.089	0.134	0.168	0.198
57	0.085	0.087	0.108	0.147	0.166	0.166
58	0.169	0.128	0.144	0.186	0.207	0.207
59	0.225	0.140	0.142	0.173	0.189	0.189
60	0.112	0.146	0.158	0.195	0.212	0.212
61	0.219	0.219	0.219	0.219	0.219	0.219
62	0.238	0.238	0.238	0.238	0.238	0.238
63	0.229	0.229	0.229	0.229	0.229	0.229
64	0.195	0.195	0.195	0.195	0.195	0.195
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police 2% @ 57*

Age	Years of Service					
	5	10	15	20	25	30
50	0.015	0.020	0.031	0.037	0.055	0.060
51	0.006	0.027	0.034	0.031	0.045	0.060
52	0.055	0.025	0.033	0.037	0.055	0.059
53	0.014	0.014	0.030	0.040	0.062	0.071
54	0.064	0.029	0.036	0.039	0.073	0.103
55	0.031	0.039	0.070	0.118	0.156	0.191
56	0.037	0.051	0.068	0.101	0.127	0.150
57	0.061	0.063	0.077	0.105	0.119	0.119
58	0.091	0.070	0.078	0.101	0.112	0.112
59	0.135	0.083	0.084	0.103	0.113	0.113
60	0.066	0.086	0.094	0.115	0.126	0.126
61	0.120	0.120	0.120	0.120	0.120	0.120
62	0.140	0.140	0.140	0.140	0.140	0.140
63	0.150	0.150	0.150	0.150	0.150	0.150
64	0.140	0.140	0.140	0.140	0.140	0.140
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to County Peace Officers, Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire 2% @ 57

Age	Years of Service					
	5	10	15	20	25	30
50	0.007	0.009	0.014	0.017	0.025	0.027
51	0.003	0.015	0.020	0.019	0.026	0.035
52	0.034	0.015	0.020	0.023	0.033	0.036
53	0.014	0.014	0.030	0.040	0.062	0.071
54	0.071	0.033	0.040	0.043	0.081	0.115
55	0.024	0.031	0.055	0.093	0.123	0.151
56	0.033	0.045	0.060	0.090	0.113	0.133
57	0.073	0.075	0.093	0.127	0.143	0.143
58	0.070	0.053	0.059	0.077	0.086	0.086
59	0.122	0.076	0.077	0.094	0.103	0.103
60	0.067	0.087	0.095	0.116	0.127	0.127
61	0.121	0.121	0.121	0.121	0.121	0.121
62	0.140	0.140	0.140	0.140	0.140	0.140
63	0.136	0.136	0.136	0.136	0.136	0.136
64	0.163	0.163	0.163	0.163	0.163	0.163
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police 2.5% @ 57*

Age	Years of Service					
	5	10	15	20	25	30
50	0.023	0.030	0.046	0.055	0.082	0.090
51	0.009	0.040	0.051	0.047	0.067	0.090
52	0.083	0.038	0.049	0.056	0.082	0.088
53	0.021	0.021	0.045	0.060	0.093	0.106
54	0.096	0.043	0.054	0.058	0.109	0.154
55	0.046	0.059	0.107	0.178	0.236	0.287
56	0.057	0.078	0.102	0.153	0.191	0.226
57	0.092	0.094	0.117	0.158	0.179	0.179
58	0.138	0.105	0.118	0.152	0.169	0.169
59	0.203	0.125	0.127	0.156	0.170	0.170
60	0.099	0.129	0.141	0.173	0.189	0.189
61	0.180	0.180	0.180	0.180	0.180	0.180
62	0.210	0.210	0.210	0.210	0.210	0.210
63	0.226	0.226	0.226	0.226	0.226	0.226
64	0.210	0.210	0.210	0.210	0.210	0.210
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to County Peace Officers, Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire 2.5% @ 57

Age	Years of Service					
	5	10	15	20	25	30
50	0.010	0.014	0.021	0.025	0.037	0.040
51	0.005	0.023	0.030	0.028	0.039	0.053
52	0.051	0.023	0.030	0.035	0.050	0.054
53	0.021	0.021	0.045	0.060	0.093	0.106
54	0.107	0.049	0.060	0.065	0.122	0.173
55	0.036	0.046	0.084	0.141	0.186	0.227
56	0.050	0.069	0.090	0.136	0.170	0.200
57	0.112	0.114	0.140	0.191	0.217	0.217
58	0.106	0.080	0.090	0.116	0.130	0.130
59	0.184	0.114	0.116	0.142	0.155	0.155
60	0.100	0.131	0.142	0.174	0.190	0.190
61	0.182	0.182	0.182	0.182	0.182	0.182
62	0.210	0.210	0.210	0.210	0.210	0.210
63	0.204	0.204	0.204	0.204	0.204	0.204
64	0.245	0.245	0.245	0.245	0.245	0.245
65	1.000	1.000	1.000	1.000	1.000	1.000

Public Agency Police 2.7% @ 57*

Age	Years of Service					
	5	10	15	20	25	30
50	0.023	0.030	0.046	0.055	0.082	0.090
51	0.009	0.040	0.051	0.047	0.067	0.090
52	0.083	0.038	0.049	0.056	0.082	0.088
53	0.021	0.021	0.045	0.060	0.093	0.106
54	0.096	0.043	0.054	0.058	0.109	0.154
55	0.046	0.059	0.107	0.178	0.236	0.287
56	0.057	0.078	0.102	0.153	0.191	0.226
57	0.092	0.094	0.117	0.158	0.179	0.179
58	0.138	0.105	0.118	0.152	0.169	0.169
59	0.203	0.125	0.127	0.156	0.170	0.170
60	0.099	0.129	0.141	0.173	0.189	0.189
61	0.180	0.180	0.180	0.180	0.180	0.180
62	0.210	0.210	0.210	0.210	0.210	0.210
63	0.226	0.226	0.226	0.226	0.226	0.226
64	0.210	0.210	0.210	0.210	0.210	0.210
65	1.000	1.000	1.000	1.000	1.000	1.000

- These rates also apply to County Peace Officers, Local Prosecutors, Local Sheriff, School Police, and Other Safety.

Appendix A - Actuarial Methods and Assumptions

Demographic Assumptions (continued)

Public Agency Fire 2.7% @ 57

Age	Years of Service					
	5	10	15	20	25	30
50	0.010	0.014	0.021	0.025	0.037	0.040
51	0.005	0.023	0.030	0.028	0.039	0.053
52	0.051	0.023	0.030	0.035	0.050	0.054
53	0.021	0.021	0.045	0.060	0.093	0.106
54	0.107	0.049	0.060	0.065	0.122	0.173
55	0.036	0.046	0.084	0.141	0.186	0.227
56	0.050	0.069	0.090	0.136	0.170	0.200
57	0.112	0.114	0.140	0.191	0.217	0.217
58	0.106	0.080	0.090	0.116	0.130	0.130
59	0.184	0.114	0.116	0.142	0.155	0.155
60	0.100	0.131	0.142	0.174	0.190	0.190
61	0.182	0.182	0.182	0.182	0.182	0.182
62	0.210	0.210	0.210	0.210	0.210	0.210
63	0.204	0.204	0.204	0.204	0.204	0.204
64	0.245	0.245	0.245	0.245	0.245	0.245
65	1.000	1.000	1.000	1.000	1.000	1.000

Miscellaneous

Models

The valuation results are based on proprietary actuarial valuation models. The models are centralized and maintained by a specialized team to achieve a high degree of accuracy and consistency. The Actuarial Office is responsible for confirming the appropriateness of the inputs (such as participant data, actuarial methods and assumptions, and plan provisions) as well as performing tests and validating the reasonableness of the output. The results of our models are independently confirmed by parallel valuations performed by outside actuaries on a periodic basis using their models. In our professional judgment, our actuarial valuation models produce comprehensive pension funding information consistent with the purposes of the valuation and have no material limitations or known weaknesses.

Internal Revenue Code Section 415

The limitations on benefits imposed by Internal Revenue Code Section 415 are taken into account in this valuation. The Section 415(b) dollar limit for the 2025 calendar year is \$280,000.

Internal Revenue Code Section 401 (a)(17)

The limitations on compensation imposed by Internal Revenue Code Section 401(a)(17) are taken into account in this valuation. Each year, the impact of any changes in the compensation limitation since the prior valuation is included as part of the actuarial gain or loss base. The compensation limit for classic members for the 2025 calendar year is \$350,000.

Appendix B – Summary of Principal Plan Provisions

Description of Principal Plan Provisions

The following is a description of the principal plan provisions used in calculating costs and liabilities. We have indicated whether a plan provision is standard or optional. Standard benefits are applicable to all members while optional benefits vary among employers. Optional benefits that apply to a single period of time, such as Golden Handshakes, have not been included. Many of the statements in this summary are general in nature and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least five years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements.) PEPRA Miscellaneous members become eligible for service retirement upon attainment of age 52 with at least 5 years of service.

Benefit

The Service Retirement benefit calculated for service earned by members is a monthly allowance equal to the product of the benefit factor, years of service and final compensation. The benefit factor depends on the benefit formula specified in the agency's contract. The table below shows the factors for each of the available formulas. Factors vary by the member's age at retirement. Listed below are the factors for retirement at whole year ages:

Miscellaneous Plan Formulas

Retirement Age	2% @ 60	2% @ 55	2.5% @ 55	2.7% @ 55	3% @ 60	PEPRA 2% @ 62
50	1.092%	1.426%	2.000%	2.000%	2.000%	N/A
51	1.156%	1.522%	2.100%	2.140%	2.100%	N/A
52	1.224%	1.628%	2.200%	2.280%	2.200%	1.000%
53	1.296%	1.742%	2.300%	2.420%	2.300%	1.100%
54	1.376%	1.866%	2.400%	2.560%	2.400%	1.200%
55	1.460%	2.000%	2.500%	2.700%	2.500%	1.300%
56	1.552%	2.052%	2.500%	2.700%	2.600%	1.400%
57	1.650%	2.104%	2.500%	2.700%	2.700%	1.500%
58	1.758%	2.156%	2.500%	2.700%	2.800%	1.600%
59	1.874%	2.210%	2.500%	2.700%	2.900%	1.700%
60	2.000%	2.262%	2.500%	2.700%	3.000%	1.800%
61	2.134%	2.314%	2.500%	2.700%	3.000%	1.900%
62	2.272%	2.366%	2.500%	2.700%	3.000%	2.000%
63	2.418%	2.418%	2.500%	2.700%	3.000%	2.100%
64	2.418%	2.418%	2.500%	2.700%	3.000%	2.200%
65	2.418%	2.418%	2.500%	2.700%	3.000%	2.300%
66	2.418%	2.418%	2.500%	2.700%	3.000%	2.400%
67 & up	2.418%	2.418%	2.500%	2.700%	3.000%	2.500%

Appendix B – Summary of Principal Plan Provisions

Service Retirement (continued)

Safety Plan Formulas

Retirement Age	½ % @ 55 ⁽¹⁾	2% @ 55	2% @ 50	3% @ 55	3% @ 50
50	1.783%	1.426%	2.0%	2.4%	3.0%
51	1.903%	1.522%	2.14%	2.52%	3.0%
52	2.035%	1.628%	2.28%	2.64%	3.0%
53	2.178%	1.742%	2.42%	2.76%	3.0%
54	2.333%	1.866%	2.56%	2.88%	3.0%
55 & Up	2.5%	2.0%	2.7%	3.0%	3.0%

For this formula, the benefit factor also varies by entry age. The factors shown are for members with an entry age of 35 or larger. If entry age is less than 35, then the age 55 benefit factor is 50% divided by the difference between age 55 and entry age. The benefit factor for ages prior to age 55 is the same proportion of the age 55 benefit factor as in the above table.

PEPRA Safety Plan Formulas

Retirement Age	2% at 57	2.5% at 57	2.7% at 57
50	1.426%	2.000%	2.000%
51	1.508%	2.071%	2.100%
52	1.590%	2.143%	2.200%
53	1.672%	2.214%	2.300%
54	1.754%	2.286%	2.400%
55	1.836%	2.357%	2.500%
56	1.918%	2.429%	2.600%
57 & Up	2.000%	2.500%	2.700%

The years of service is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. An agency may contract for an optional benefit where any unused sick leave accumulated at the time of retirement will be converted to credited service at a rate of 0.004 years of service for each day of sick leave.

The final compensation is the monthly average of the member's highest 36 or 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The standard benefit is 36 months. Employers have the option of providing a final compensation equal to the highest 12 consecutive months.

For employees covered by Social Security, the Modified formula is the standard benefit. Under this type of formula, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400). Employers may contract for the Full benefit with Social Security that will eliminate the offset applicable to the final compensation. For employees not covered by Social Security, the Full benefit is paid with no offsets. Auxiliary organizations of the CSUC system may elect reduced contribution rates, in which case the offset is \$317 if members are not covered by Social Security or \$513 if members are covered by Social Security.

The Miscellaneous Service Retirement benefit is not capped. The Safety Service Retirement benefit is capped at 90% of final compensation.

Appendix B – Summary of Principal Plan Provisions

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least five years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least five years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively employed by any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by service, which is determined as follows:

- Service is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- Service is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Improved Benefit

Employers have the option of providing the improved Non-Industrial Disability Retirement benefit. This benefit provides a monthly allowance equal to 30% of final compensation for the first five years of service, plus 1% for each additional year of service to a maximum of 50% of final compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Appendix B – Summary of Principal Plan Provisions

Industrial (Job Related) Disability Retirement

All safety members have this benefit. For miscellaneous members, employers have the option of providing this benefit. An employer may choose to provide the Increased benefit option or the Improved benefit option.

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes disabled while working, where disabled means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described below.

Standard Benefit

The standard Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation.

Increased Benefit (75% of Final Compensation)

The increased Industrial Disability Retirement benefit is a monthly allowance equal to 75% of final compensation for total disability.

Improved Benefit (50% to 90% of Final Compensation)

The improved Industrial Disability Retirement benefit is a monthly allowance equal to the Workman's Compensation Appeals Board permanent disability rate percentage (if 50% or greater, with a maximum of 90%) times the final compensation. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return of accumulated member contributions with respect to employment in this group. With the standard or increased benefit, a member may also choose to receive the annuitization of the accumulated member contributions. If a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit.

Post-Retirement Death Benefit

Standard Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$500 will be made to the retiree's designated survivor(s), or to the retiree's estate. For plans which terminated after January 1, 2023, the amount is \$2,000 for deaths after June 30, 2023.

Improved Lump Sum Payment

Employers have the option of providing an improved lump sum death benefit of \$600, \$2,000, \$3,000, \$4,000 or \$5,000.

Form of Payment for Retirement Allowance

Standard Form of Payment

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. Such reduction takes into account the amount to be provided to the beneficiary and the probable duration of payments (based on the ages of the member and beneficiary) made subsequent to the member's death.

Improved Form of Payment (Post Retirement Survivor Allowance)

Employers have the option to contract for the post-retirement survivor allowance. For retirement allowances with respect to service subject to the modified formula, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. For retirement allowances with respect to service subject to the full or supplemental formula, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. This additional benefit is often referred to as post-retirement survivor allowance (PRSA) or simply as survivor continuance.

In other words, 25% or 50% of the allowance, the continuance portion, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime. This benefit will not be discontinued in the event the spouse remarries.

The remaining 75% or 50% of the retirement allowance, which may be referred to as the option portion of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this option portion to be paid to any designated beneficiary after the retiree's death. Benefit options applicable to the option portion are the same as those offered with the standard form. The reduction is calculated in the same manner but is applied only to the option portion.

Appendix B – Summary of Principal Plan Provisions

Pre-Retirement Death Benefits

Basic Death Benefit

This is a standard benefit.

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 6% per year, plus a lump sum in the amount of one month's salary for each completed year of current service, up to a maximum of six months' salary. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

1957 Survivor Benefit

This is a standard benefit.

Eligibility

An employee's eligible survivor(s) may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least five years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member must be actively employed with the CalPERS employer providing this benefit to be eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this 1957 Survivor benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. The total amount paid will be at least equal to the Basic Death benefit.

Appendix B – Summary of Principal Plan Provisions

Optional Settlement 2W Death Benefit

This is an optional benefit.

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2W Death benefit if the member dies while actively employed, has attained at least age 50, and has at least five years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor who is eligible for any other pre-retirement death benefit may choose to receive that death benefit instead of this Optional Settlement 2W Death benefit.

Benefit

The Optional Settlement 2W Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried children under age 18, if applicable. The total amount paid will be at least equal to the Basic Death Benefit.

Special Death Benefit

This is a standard benefit for safety members. An employer may elect to provide this benefit for miscellaneous members.

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible surviving* children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

Alternate Death Benefit for Local Fire Members

This is an optional benefit available only to local fire members.

Eligibility

An employee's *eligible survivor(s)* may receive the Alternate Death benefit in lieu of the Basic Death Benefit or the 1957 Survivor Benefit if the member dies while actively employed and has at least 20 years of total CalPERS service. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 18.

Benefit

The Alternate Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2W. (A retiree who elects Optional Settlement 2W receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) If the member has not yet attained age 50, the benefit is equal to that which would be payable if the member had retired at age 50, based on service credited at the time of death. The allowance is payable as long as the surviving spouse lives, at which time it is continued to any unmarried children under age 18, if applicable. The total amount paid will be at least equal to the Basic Death Benefit.

Appendix B – Summary of Principal Plan Provisions

Cost-of-Living Adjustments

Standard Benefit

The Retirement Law provides for the payment of an annual cost-of-living adjustment (COLA) to be paid each May, beginning the second calendar year after the year of retirement. The basic COLA provision is 2%. The COLA adjustment is limited to the lesser of two compounded numbers - the rate of inflation or the COLA contracted by the employer. This means that members may receive increases smaller than the COLA provision in years where the rate of inflation is lower than the COLA provision. Similarly, members may see increases larger than inflation and even the COLA provision in some years.

Improved Benefit

Employers have the option of providing an improved cost-of-living adjustment of 3%, 4% or 5%.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 80% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 Survivor Benefits Program

This is a pre-retirement death benefit available only to members not covered by Social Security. Any agency joining CalPERS subsequent to 1993 was required to provide this benefit if the members were not covered by Social Security. The benefit is optional for agencies joining CalPERS prior to 1994. Levels 1, 2 and 3 are now closed. Any new agency or any agency wishing to add this benefit or increase the current level must choose the 4th or Indexed Level.

This benefit is not included in the results presented in this valuation. More information on this benefit is available on the CalPERS website at www.calpers.ca.gov.

Appendix C – Summary of Participant Data

Source of the Participant Data

The data was extracted from various databases within CalPERS and placed in a database by a series of extract programs. Included in this data is:

- Individual member and beneficiary information,
- Employment and payroll information,
- Accumulated contributions with interest,
- Service information,
- Benefit payment information,
- Information about the various organizations which contract with CalPERS, and
- Detailed information about the plan provisions applicable to each group of members.

Data Validation Test and Adjustments

Once the information is extracted from the various computer systems into the database, update queries are then run against these data to correct for flaws found in the data. This part of the process is intended to validate the participant data for all CalPERS plans. The data are then checked for reasonableness and consistency with data from the prior valuation.

Checks on the data include:

- A reconciliation of the membership of the plans,
- Comparisons of various member statistics (average attained age, average entry age, average salary, etc.) for each plan with those from the prior valuation,
- Comparisons of pension amounts for each retiree and beneficiary receiving payments with those from the prior valuation,
- Checks for invalid ages and dates, and
- Reasonableness checks on various key data elements such as service and salary.

As a result of the tests on the data, a number of adjustments were determined to be necessary. These included:

- Dates of hire and dates of entry were adjusted where necessary to be consistent with the service fields, the date of birth and each other.

Appendix C – Summary of Participant Data

Summary of Valuation Data

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

	June 30, 2024	June 30, 2025
Number of Plans in the Risk Pool	121	121
Active Members	0	0
Transferred Members		
Counts	71	71
Average Attained Age	49.93	50.72
Average Years of Service	3.93	3.68
Average Annual Covered Pay	\$125,695	\$131,386
Separated Members		
Counts	317	306
Average Attained Age	56.66	57.36
Average Years of Service	3.23	3.04
Average Annual Covered Pay	\$47,034	\$46,943
Retired Members and Beneficiaries		
Counts ¹	844	821
Average Attained Age	75.73	75.91
Average Annual Benefits	\$10,719	\$11,018

¹Values may not match those on pages C-3 to C-6 due to inclusion of community property settlements.

Appendix C – Summary of Participant Data

Transferred and Separated Participants

Distribution of Transfers to Other CalPERS Plans by Age and Years of Service

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+		
15 - 24	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	0	0	0	0
30 - 34	0	0	0	0	0	0	0	0
35 - 39	6	0	0	0	0	0	6	104,971
40 - 44	10	1	0	0	0	0	11	141,225
45 - 49	13	3	2	0	0	0	18	134,290
50 - 54	13	4	1	0	0	0	18	157,983
55 - 59	5	3	0	0	0	0	8	97,119
60 - 64	5	2	0	0	0	0	7	119,389
65 and over	2	0	1	0	0	0	3	90,508
Total	54	13	4	0	0	0	71	131,386

Distribution of Separated Participants with Funds on Deposit by Age and Years of Service

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+		
15 - 24	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	0	0	0	0
30 - 34	4	0	0	0	0	0	4	27,052
35 - 39	6	1	0	0	0	0	7	61,871
40 - 44	14	2	0	0	0	0	16	54,742
45 - 49	27	3	2	2	0	0	34	50,746
50 - 54	41	10	4	1	1	0	57	54,734
55 - 59	54	6	2	2	0	0	64	40,840
60 - 64	51	6	1	1	0	0	59	50,242
65 and over	54	8	1	0	0	2	65	38,832
Total	251	36	10	6	1	2	306	46,943

Appendix C – Summary of Participant Data

Retired Members and Beneficiaries

Distribution of Retirees and Beneficiaries by Age and Retirement Type

Attained Age	Service Retirement	Non-Duty Disability	Duty Disability	Non-Duty Death	Duty Death	Death After Retirement	Total
Under 30	0	0	0	1	0	5	6
25 - 29	0	0	0	0	0	0	0
30 - 34	0	0	0	0	0	0	0
35 - 39	0	0	0	0	0	0	0
40 - 44	0	0	0	0	0	1	1
45 - 49	0	0	1	0	0	0	1
50 - 54	11	0	2	0	0	1	14
55 - 59	30	0	4	1	0	2	37
60 - 64	60	3	5	0	0	5	73
65 - 69	79	2	3	0	2	5	91
70 - 74	111	7	4	0	0	12	134
75 - 79	132	2	11	0	0	16	161
80 - 84	96	4	6	0	0	22	128
85 and over	114	4	3	1	1	40	163
Total	633	22	39	3	3	109	809

- Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the counts may not match information on page C-2 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Distribution of Annual Benefit Amounts for Retirees and Beneficiaries by Age and Retirement Type

Attained Age	Service Retirement	Non-Duty Disability	Duty Disability	Non-Duty Death	Duty Death	Death After Retirement	Total
Under 30	0	0	0	5,682	0	3,597	3,944
25 - 29	0	0	0	0	0	0	0
30 - 34	0	0	0	0	0	0	0
35 - 39	0	0	0	0	0	0	0
40 - 44	0	0	0	0	0	1,202	1,202
45 - 49	0	0	554	0	0	0	554
50 - 54	12,661	0	1,447	0	0	1,609	10,270
55 - 59	19,433	0	18,643	3,727	0	3,335	18,053
60 - 64	17,032	17,736	3,388	0	0	7,349	15,464
65 - 69	16,478	4,719	20,381	0	30,832	2,103	15,874
70 - 74	13,622	5,301	8,174	0	0	5,575	12,304
75 - 79	9,982	22,618	7,031	0	0	8,923	9,833
80 - 84	7,410	6,825	12,434	0	0	9,491	7,985
85 and over	8,220	10,592	2,227	8,598	547	9,665	8,478
Average	11,886	9,757	8,908	6,002	20,737	8,072	11,182

- Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the counts may not match information on page C-2 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Appendix C – Summary of Participant Data

Retired Members and Beneficiaries (continued)

Distribution of Retirees and Beneficiaries by Years Retired and Retirement Type

Years Retired	Service Retirement	Non-Duty Disability	Duty Disability	Non-Duty Death	Duty Death	Death After Retirement	Total
Under 5 Years	89	0	4	0	0	28	121
5 - 9	110	2	5	1	0	30	148
10 - 14	108	2	5	1	0	15	131
15 - 19	101	4	2	0	0	8	115
20 - 24	80	1	7	0	1	7	96
25 - 29	59	4	7	1	2	10	83
30 and over	86	9	9	0	1	11	116
Total	633	22	39	3	4	109	810

- Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the counts may not match information on page C-2 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Distribution of Average Benefit Amounts for Retirees and Beneficiaries by Years Retired and Retirement Type

Years Retired	Service Retirement	Non-Duty Disability	Duty Disability	Non-Duty Death	Duty Death	Death After Retirement	Average
Under 5 Years	15,025	0	23,567	0	0	10,110	14,170
5 - 9	20,753	1,558	5,015	5,682	0	9,206	17,520
10 - 14	11,761	26,421	2,286	3,727	0	8,937	11,239
15 - 19	10,201	7,142	1,118	0	0	7,356	9,739
20 - 24	6,653	19,494	7,952	0	33,357	3,724	6,946
25 - 29	6,552	4,905	15,257	8,598	14,153	5,182	7,249
30 and over	7,962	10,113	5,773	0	547	4,524	7,569
Average	11,886	9,757	8,908	6,002	15,553	8,072	11,168

- Counts of members do not include alternate payees receiving benefits while the member is still working. Therefore, the counts may not match information on page C-2 of the report. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Appendix C – Summary of Participant Data

Retired Members and Beneficiaries (continued)

Distribution of Annual Benefit Amounts by Age and Retirement Type

Annual Amounts do not Include PPPA Payments

Attained Age	Service Retirement	Non-Duty Disability	Duty Disability	Non-Duty Death	Duty Death	Death After Retirement	Total
Under 30	0	0	0	5,682	0	17,984	23,666
25 - 29	0	0	0	0	0	0	0
30 - 34	0	0	0	0	0	0	0
35 - 39	0	0	0	0	0	0	0
40 - 44	0	0	0	0	0	1,202	1,202
45 - 49	0	0	554	0	0	0	554
50 - 54	139,271	0	2,894	0	0	1,609	143,774
55 - 59	582,997	0	74,573	3,727	0	6,670	667,967
60 - 64	1,021,939	53,209	16,942	0	0	36,747	1,128,837
65 - 69	1,301,745	9,437	61,144	0	61,663	10,516	1,444,505
70 - 74	1,511,988	37,104	32,695	0	0	66,902	1,648,689
75 - 79	1,317,685	45,236	77,344	0	0	142,772	1,583,037
80 - 84	711,389	27,299	74,601	0	0	208,793	1,022,082
85 and over	937,066	42,367	6,680	8,598	547	386,602	1,381,860
Total	7,524,080	214,652	347,427	18,007	62,210	879,797	9,046,173

Distribution of Annual Benefit Amounts for Retirees and Beneficiaries by Years Retired and Retirement Type

Annual Amounts do not Include PPPA Payments

Years Retired	Service Retirement	Non-Duty Disability	Duty Disability	Non-Duty Death	Duty Death	Death After Retirement	Average
Under 5 Years	1,337,236	0	94,268	0	0	283,073	1,714,577
5 - 9	2,282,857	3,115	25,074	5,682	0	276,166	2,592,894
10 - 14	1,270,191	52,842	11,432	3,727	0	134,062	1,472,254
15 - 19	1,030,286	28,567	2,236	0	0	58,845	1,119,934
20 - 24	532,226	19,494	55,666	0	33,357	26,068	666,811
25 - 29	386,569	19,620	106,796	8,598	28,306	51,819	601,708
30 and over	684,715	91,014	51,955	0	547	49,764	877,995
Total	7,524,080	214,652	347,427	18,007	62,210	879,797	9,046,173

Appendix D – List of Terminated Agencies

Alhambra Redevelopment Agency	Herald Fire Protection District	San Mateo Local Agency Formation Commission
Armona Community Services District	Humboldt Bay Wastewater Authority	Sanitation Districts of Orange County
Aromas Tri-County Fire District	Idyllwild Water District	Santa Barbara County Housing Authority
Associated Students of California State University, Chico*	Independent Data Processing Center	Santa Clara City Redevelopment Agency
Bay Area Library and Information System	Inland Manpower Association	Santa Clara County Traffic Authority
Bay Area Sewage Services Agency	Intelcom Intelligent Telecommunications	Santa Cruz Port District*
Ben Lomond Fire Protection District	Janesville Fire Protection District	Saratoga Cemetery District
California State University Foundation	John C Fremont Healthcare District	School Personnel Credit Union
California State University, Dominguez Hills Foundation	Kaweah Delta Health Care District	Selection Consulting Center
California State University, Fullerton Foundation	Long Beach Promotion and Service Corporation	Shasta Local Agency Formation Commission
California Tahoe Regional Planning Agency	Madera County Economic Development Commission	Shasta-Trinity Schools Insurance Group
Camanche Regional Park District	Mark Twain Hospital District	Soledad Community Health Care District
Central Coast Computing Authority	Meadow Vista County Water District	South Lake County Fire Protection District
Central Sierra Planning Council	Metro Gold Line Foothill Extension Construction Authority	Southeast Recreation and Park District
Chico State University Foundation	Mid City Development Corporation	Southern Mono Hospital District
Citrus Pest Control District #2 of Riverside County	Newport Beach City Employees Federal Credit Union	Springville Public Utility District
City of Loyalton	Niland Sanitary District	Student Union of San Jose State University
City of Paramount†	North Delta Water Agency	Sunline Transit Agency
City of Pittsburg†	Northridge State University Student Center, Inc.	Three Arch Bay Community Services District
City of Placentia†	Orange Cove Fire Protection District of Fresno and Tulare Counties	Torrance City Redevelopment Agency
City of Westmorland	Oroville Mosquito Abatement District	Trinity County Waterworks District #1
Coalinga-Huron Mosquito Abatement District	Palo Verde Cemetery District	Twentynine Palms Water District†
Coastside Fire Protection District†	Paradise Fire Protection District	Veterans Home of California Post Fund
College Town	Paso Robles District Cemetery	Victorville Fire Protection District
Cooperative Library Agency for Systems and Services	Pioneer Community Services District	Weaverville Fire Protection District
Daly City Redevelopment Agency	Placer Consolidated Fire Protection District	West Contra Costa Hospital District
Deer Springs Fire Protection District	Plumas County Housing Authority	
Descanso Community Water District	Plumas Local Agency Formation Commission	
East San Gabriel Valley Human Services Consortium	Provident Central Credit Union	
El Toro Water District	Pueblo De Los Angeles State Historical Park	
Etna Cemetery District	Sacramento State University Associated Students	
Exposition Metro Line Construction Authority	Samoa Peninsula Fire Protection District	
Fallbrook Hospital District	San Benito Hospital District	
Fort Ord Reuse Authority	San Diego Rural Fire Protection District	
Fresno City Redevelopment Agency	San Diego State University Foundation	
Fresno State College Agricultural Foundation	San Francisco State University Franciscan Shops	
Gilroy Rural Fire Protection District	San Francisco State University Frederick Burke Foundation	
Glen Ellen Fire Protection District†	San Jose State University Spartan Shops, Inc.	
Golden Empire Transit District	San Jose State University, Associated Students	
Halcumb Cemetery District	San Luis Obispo Regional Transit Authority	
Heffernan Memorial Hospital District	San Marcos Cemetery District	

* Agency has since re-established a retirement contract and is an active CalPERS agency.

† Agency only terminated an inactive member classification and still maintains a CalPERS retirement contract.

Appendix E – Glossary

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Accrued Liability (Actuarial Accrued Liability)

The portion of the Present Value of Benefits allocated to prior years. It can also be expressed as the Present Value of Benefits minus the present value of future Normal Cost. Different actuarial cost methods and different assumptions will lead to different measures of Accrued Liability.

Actuarial Assumptions

Assumptions made about certain events that will affect pension costs. Assumptions generally can be broken down into two categories: demographic and economic. Demographic assumptions include such things as mortality, disability and retirement rates. Economic assumptions include discount rate, wage inflation, and price inflation.

Actuarial Methods

Procedures employed by actuaries to achieve certain funding goals of a pension plan. Actuarial methods include an actuarial cost method, an amortization policy, and an asset valuation method.

Actuarial Valuation

The determination, as of a valuation date of the Normal Cost, Accrued Liability, and related actuarial present values for a pension plan. These valuations are performed annually or when an employer is contemplating a change to their plan provisions.

Actuary

A business professional proficient in mathematics and statistics who measures and manages risk. A public retirement system actuary in California performs actuarial valuations necessary to properly fund a pension plan and disclose its liabilities and must satisfy the qualification standards for actuaries issuing statements of actuarial opinion in the United States with regard to pensions.

Classic Member (under PEPR)

A classic member is a member who joined CalPERS prior to January 1, 2013 and who is not defined as a new member under PEPR. (See definition of New Member below.)

Discount Rate

The rate used to discount the expected future benefit payments to the valuation date to determine the Projected Value of Benefits. Different discount rates will produce different measures of the Projected Value of Benefits. The discount rate for this valuation is the yield on the 30-Year US Treasury STRIPS as of the valuation date.

Entry Age

The earliest age at which a plan member begins to accrue benefits under a defined benefit pension plan. In most cases, this is the same as the date of hire.

Entry Age Actuarial Cost Method

An actuarial cost method that allocates the cost of the projected benefits on an individual basis as a level percent of earnings for the individual between entry age and retirement age. This method yields a total normal cost rate, expressed as a percentage of payroll, which is designed to remain level throughout the member's career.

Funded Ratio

Defined as the Fair Value of Assets divided by the Accrued Liability. Different actuarial cost methods and different assumptions will lead to different measures of Funded Ratio. The Funded Ratio with the Accrued Liability equal to the funding target is a measure of how well funded a plan is. A ratio greater than 100% means the plan has more assets than the target established by CalPERS funding policies on the valuation date and the employer need only contribute the Normal Cost, if any. A ratio less than 100% means assets are less than the funding target and contributions in addition to Normal Cost are required.

Funded Status

Any comparison of a particular measure of plan assets to a particular measure of pension obligations. The methods and assumptions used to calculate a funded status should be consistent with the purpose of the measurement.

Appendix E – Glossary

Funding Target

The Accrued Liability measure upon which the funding requirements are based. The funding target is the Accrued Liability under the Entry Age Actuarial Cost Method using the assumptions adopted by the board.

GASB 68

Statement No. 68 of the Governmental Accounting Standards Board. The accounting standard governing a state or local governmental employer's accounting and financial reporting for pensions.

New Member (under PEPRA)

A new member includes an individual who becomes a member of a public retirement system for the first time on or after January 1, 2013, and who was not a member of another public retirement system prior to that date, and who is not subject to reciprocity with another public retirement system.

PEPRA

The California Public Employees' Pension Reform Act of 2013.

Present Value of Benefits (PVB)

The total dollars needed as of the valuation date to fund all benefits earned in the past or expected to be earned in the future for current members.

Traditional Unit Credit Actuarial Cost Method

An actuarial cost method that sets the Accrued Liability equal to the Present Value of Benefits assuming no future pay increases or service accruals. The Traditional Unit Credit Cost Method is used to measure the accrued liability on a termination basis.

Unfunded Accrued Liability (UAL)

The accrued Liability minus the Fair Value of Assets. If the UAL for a rate plan is positive, the employer is required to make contributions in excess of the Normal Cost.

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