



**California Public Employees' Retirement System
Actuarial Office**

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July 2023

**Miscellaneous Plan of the South Placer Fire District (CalPERS ID: 3655967024)
Annual Valuation Report as of June 30, 2022**

Dear Employer,

Attached to this letter is the June 30, 2022 actuarial valuation report for the rate plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2024-25.** In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the plan including the development of the current and projected employer contributions, and
- Section 2 contains the Risk Pool Actuarial Valuation appropriate to the plan as of June 30, 2022.

Section 2 can be found on the CalPERS website (www.calpers.ca.gov). From the home page, go to "Forms & Publications" and select "View All". In the search box, enter "Risk Pool" and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2022.

Actuarial valuations are based on assumptions regarding future plan experience including investment return and payroll growth, eligibility for the types of benefits provided, and longevity among retirees. The CalPERS Board of Administration (board) adopts these assumptions after considering the advice of CalPERS actuarial and investment teams and other professionals. Each actuarial valuation reflects all prior differences between actual and assumed experience and adjusts the contribution requirements as needed. This valuation is based on an investment return assumption of 6.8%, which was adopted by the board in November 2021. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from November 2021.

Required Contributions

The table below shows the minimum required employer contributions for FY 2024-25 along with estimates of the required contributions for FY 2025-26. Employee contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability
2024-25	17.33%	\$78,216
<i>Projected Results</i>		
2025-26	17.3%	\$86,000

The actual investment return for FY 2022-23 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 6.8%. **To the extent the actual investment return for FY 2022-23 differs from 6.8%, the actual contribution requirements for FY 2025-26 will differ from those shown above.** For additional details regarding the assumptions and methods used for these projections, please refer to the "Projected Employer Contributions" in the "Highlights and Executive Summary" section. This section also contains projected required contributions through FY 2029-30.

Changes from Previous Year's Valuations

There are no significant changes in actuarial assumptions or policies in the 2022 actuarial valuation. There may be changes specific to the plan such as contract amendments and funding changes.

Further descriptions of general changes are included in "Highlights and Executive Summary" and in Appendix A of the Section 2 report in "Actuarial Methods and Assumptions." The effects of any changes on the required contributions are included in "Reconciliation of Required Employer Contributions," also in the Section 2 report.

Questions

A CalPERS actuary is available to answer questions about this report. Other questions may be directed to the Customer Contact Center at (888)-CalPERS or (888-225-7377).

Sincerely,



SCOTT TERANDO, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS



RANDALL DZIUBEK, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



**Actuarial Valuation
as of June 30, 2022**

**for the
Miscellaneous Plan
of the
South Placer Fire District
(CalPERS ID: 3655967024)**

**Required Contributions
for Fiscal Year
July 1, 2024 - June 30, 2025**

Table of Contents

Section 1 – Plan Specific Information

Section 2 – Risk Pool Actuarial Valuation Information

Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Plan Specific Information for the Miscellaneous Plan of the South Placer Fire District

**(CalPERS ID: 3655967024)
(Rate Plan ID: 1163)**

Table of Contents

Actuarial Certification	1
Highlights and Executive Summary	
Introduction	3
Purpose of Section 1	3
Required Contributions	4
Additional Discretionary Employer Contributions	5
Funded Status – Funding Policy Basis	6
Projected Employer Contributions	7
Other Pooled Miscellaneous Risk Pool Rate Plans	8
Cost	9
Changes Since the Prior Year's Valuation	10
Subsequent Events	10
Assets and Liabilities	
Breakdown of Entry Age Accrued Liability	12
Allocation of Plan's Share of Pool's Experience/Assumption Change	12
Development of Plan's Share of Pool's Market Value of Assets	12
Schedule of Amortization Bases	13
Amortization Schedule and Alternatives	15
Employer Contribution History	17
Funding History	17
Risk Analysis	
Future Investment Return Scenarios	19
Discount Rate Sensitivity	20
Mortality Rate Sensitivity	20
Maturity Measures	21
Maturity Measures History	22
Funded Status – Termination Basis	23
Participant Data	24
List of Class 1 Benefit Provisions	24
Plan's Major Benefit Options	25

Actuarial Certification

To the best of our knowledge, this report, comprised of Sections 1 and 2, is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the Miscellaneous Plan of the South Placer Fire District and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation is based on the member and financial data as of June 30, 2022 provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for South Placer Fire District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the Miscellaneous Risk Pool has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for the risk pool as of the date of this valuation and as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

Having relied upon the information set forth in Section 2 of this report and based on the census and benefit provision information for the rate plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2022 and employer contribution as of July 1, 2024 have been properly and accurately determined in accordance with the principles and standards stated above.

The undersigned is an actuary who satisfies the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* with regard to pensions.



KELLY STURM, ASA, MAAA
Supervising Actuary, CalPERS

Highlights and Executive Summary

- **Introduction**
- **Purpose of Section 1**
- **Required Contributions**
- **Additional Discretionary Employer Contributions**
- **Funded Status – Funding Policy Basis**
- **Projected Employer Contributions**
- **Other Pooled Miscellaneous Risk Pool Rate Plans**
- **Cost**
- **Changes Since the Prior Year's Valuation**
- **Subsequent Events**

Introduction

This report presents the results of the June 30, 2022 actuarial valuation of the Miscellaneous Plan of the South Placer Fire District of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the minimum required contributions for fiscal year (FY) 2024-25.

Purpose of Section 1

This Section 1 report for the Miscellaneous Plan of the South Placer Fire District of CalPERS was prepared by the Actuarial Office using data as of June 30, 2022. The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of this rate plan as of June 30, 2022;
- Determine the minimum required employer contributions for this rate plan for FY July 1, 2024 through June 30, 2025;
- Determine the required member contribution rate for FY July 1, 2024 through June 30, 2025 for employees subject to the California Public Employees' Pension Reform Act of 2013 (PEPRA); and
- Provide actuarial information as of June 30, 2022 to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact the plan actuary before disseminating any portion of this report for any reason that is not explicitly described above.

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; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the guidance of Actuarial Standard of Practice No. 51 and recommended by the California Actuarial Advisory Panel (CAAP) in the Model Disclosure Elements document:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2021.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.

Required Contributions

	Fiscal Year 2024-25
Required Employer Contributions	
Employer Normal Cost Rate	17.33%
<i>Plus</i>	
Required Payment on Amortization Bases ¹	\$78,216
<i>Paid either as</i>	
1) Monthly Payment	\$6,518.00
<i>Or</i>	
2) Annual Prepayment Option*	\$75,685
<p><i>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) plus the Employer Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).</i></p> <p><i>* Only the UAL portion of the employer contribution can be prepaid (which must be received in full no later than July 31).</i></p>	

	Fiscal Year 2023-24	Fiscal Year 2024-25
Development of Normal Cost as a Percentage of Payroll		
Base Total Normal Cost for Formula	24.25%	24.32%
Surcharge for Class 1 Benefits ²		
a) FAC 1	0.82%	0.82%
Phase out of Normal Cost Difference ³	0.00%	0.00%
Plan's Total Normal Cost	25.07%	25.14%
Offset Due to Employee Contributions	7.81%	7.81%
Employer Normal Cost Rate	17.26%	17.33%

¹ The required payment on amortization bases does not take into account any additional discretionary payment made after April 28, 2023.

² Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges.

³ When a rate plan joins the pool, the difference in normal cost between the pool and the rate plan is phased out over a five-year period in accordance with the CalPERS contribution allocation policy.

Additional Discretionary Employer Contributions

The minimum required employer contribution towards the Unfunded Accrued Liability (UAL) for this rate plan for FY 2024-25 is \$78,216. CalPERS allows agencies to make additional discretionary payments (ADPs) at any time and in any amount. These optional payments serve to reduce the UAL and future required contributions and can result in significant long-term savings. Agencies can also use ADPs to stabilize annual contributions as a fixed dollar amount, percent of payroll or percent of revenue.

Provided below are select ADP options for consideration. Making such an ADP during FY 2024-25 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see the "Amortization Schedule and Alternatives" section of the report.

Agencies considering making an ADP should contact CalPERS for additional information.

Minimum Required Employer Contribution for Fiscal Year 2024-25

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
\$28,652	\$78,216	\$0	\$78,216	\$106,868

Alternative Fiscal Year 2024-25 Employer Contributions for Greater UAL Reduction

Funding Horizon	Estimated Normal Cost	Minimum UAL Payment	ADP ¹	Total UAL Contribution	Estimated Total Contribution
20 years	\$28,652	\$78,216	\$19,641	\$97,857	\$126,509
15 years	\$28,652	\$78,216	\$35,942	\$114,158	\$142,810
10 years	\$28,652	\$78,216	\$70,326	\$148,542	\$177,194
5 years	\$28,652	\$78,216	\$177,229	\$255,445	\$284,097

¹ The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

Note that the calculations above are based on the projected UAL as of June 30, 2024 as determined in the June 30, 2022 actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Funded Status – Funding Policy Basis

The table below provides information on the current funded status of the plan under the funding policy. The funded status for this purpose is based on the market value of assets relative to the funding target produced by the entry age actuarial cost method and actuarial assumptions adopted by the board. The actuarial cost method allocates the total expected cost of a member's projected benefit (**Present Value of Benefits**) to individual years of service (the **Normal Cost**). The value of the projected benefit that is not allocated to future service is referred to as the **Accrued Liability** and is the plan's funding target on the valuation date. The **Unfunded Accrued Liability (UAL)** equals the funding target minus the assets. The UAL is an absolute measure of funded status and can be viewed as employer debt. The **funded ratio** equals the assets divided by the funding target. The funded ratio is a relative measure of the funded status and allows for comparisons between plans of different sizes.

	June 30, 2021	June 30, 2022
1. Present Value of Benefits	\$4,504,707	\$4,738,813
2. Entry Age Accrued Liability	4,277,094	4,495,483
3. Market Value of Assets (MVA)	3,754,813	3,404,347
4. Unfunded Accrued Liability (UAL) [(2) – (3)]	\$522,281	\$1,091,136
5. Funded Ratio [(3) / (2)]	87.8%	75.7%

A funded ratio of 100% (UAL of \$0) implies that the funding of the plan is on target and that future contributions equal to the normal cost of the active plan members will be sufficient to fully fund all retirement benefits if future experience matches the actuarial assumptions. A funded ratio of less than 100% (positive UAL) implies that in addition to normal costs, payments toward the UAL will be required. Plans with a funded ratio greater than 100% have a negative UAL (or surplus) but are required under current law to continue contributing the normal cost in most cases, preserving the surplus for future contingencies.

Calculations for the funding target reflect the expected long-term investment return of 6.8%. If it were known on the valuation date that future investment returns will average something greater/less than the expected return, calculated normal costs and accrued liabilities provided in this report would be less/greater than the results shown. Therefore, for example, if actual average future returns are less than the expected return, calculated normal costs and UAL contributions will not be sufficient to fully fund all retirement benefits. Under this scenario, required future normal cost contributions will need to increase from those provided in this report, and the plan will develop unfunded liabilities that will also add to required future contributions. For illustrative purposes, funded statuses based on a 1% lower and higher average future investment return (discount rate) are as follows:

	1% Lower Average Return	Current Assumption	1% Higher Average Return
Discount Rate	5.8%	6.8%	7.8%
1. Entry Age Accrued Liability	\$5,134,648	\$4,495,483	\$3,969,917
2. Market Value of Assets (MVA)	3,404,347	3,404,347	3,404,347
3. Unfunded Accrued Liability (UAL) [(1) – (2)]	\$1,730,301	\$1,091,136	\$565,570
4. Funded Ratio [(2) / (1)]	66.3%	75.7%	85.8%

The "Risk Analysis" section of the report provides additional information regarding the sensitivity of valuation results to the expected investment return and other factors. Also provided in that section are measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities.

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2022-23 is assumed to be 6.80% per year, net of investment and administrative expenses. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2022-23 and Beyond)				
Fiscal Year	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Rate Plan 1163 Results					
Normal Cost %	17.33%	17.3%	17.3%	17.3%	17.3%	17.3%
UAL Payment	\$78,216	\$86,000	\$94,000	\$99,000	\$115,000	\$117,000

For ongoing plans, investment gains and losses are amortized using a 5-year ramp up. For more information, please see "Amortization of the Unfunded Actuarial Accrued Liability" under "Actuarial Methods" in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large investment loss, the relatively small amortization payments during the ramp up period could result in contributions that are less than interest on the UAL (i.e. negative amortization) while the contribution impact of the increase in the UAL is phased in.

For projected contributions under alternate investment return scenarios, please see the "Future Investment Return Scenarios" in the "Risk Analysis" section. Our online pension plan projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

Other Pooled Miscellaneous Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown on this page, correspond to rate plan 1163. In many cases, employers have additional rate plans within the same risk pool. For cost analysis and budgeting it is useful to consider contributions for these rate plans as a whole rather than individually. The estimated contribution amounts and rates for all of the employer's rate plans in the Miscellaneous Risk Pool are shown below and assume that the total employer payroll within the Miscellaneous Risk Pool will grow according to the overall payroll growth assumption of 2.80% per year for three years. In a refinement since the prior year's report, Classic members who are projected to terminate employment are assumed to be replaced by PEPRAs members.

	Fiscal Year	Fiscal Year
	2023-24	2024-25
Estimated Combined Employer Contributions for all Pooled Miscellaneous Rate Plans		
Projected Payroll for the Contribution Year	\$461,816	\$465,063
Estimated Employer Normal Cost	\$51,208	\$52,241
Required Payment on Amortization Bases	\$71,990	\$79,971
Estimated Total Employer Contributions	\$123,198	\$132,212
Estimated Total Employer Contribution Rate (illustrative only)	26.68%	28.43%

Cost

Actuarial Determination of Plan Cost

Contributions to fund the plan are comprised of two components:

- Normal Cost, expressed as a percentage of total active payroll
- Amortization of the Unfunded Accrued Liability (UAL), expressed as a dollar amount

For fiscal years prior to 2015-16, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with FY 2015-16, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There is an option to prepay this amount during July of each fiscal year.

The Normal Cost component is expressed as a percentage of active payroll with employer and employee contributions payable as part of the regular payroll reporting process.

The determination of both components requires complex actuarial calculations. The calculations are based on a set of actuarial assumptions which can be divided into two categories:

- Demographic assumptions (e.g., mortality rates, retirement rates, employment termination rates, disability rates)
- Economic assumptions (e.g., future investment earnings, inflation, salary growth rates)

These assumptions reflect CalPERS' best estimate of future experience of the plan and are long term in nature. We recognize that all assumptions will not be realized in any given year. For example, the investment earnings at CalPERS have averaged 6.9% over the 20 years ending June 30, 2022, yet individual fiscal year returns have ranged from -23.6% to +21.3%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2021.

Changes Since the Prior Year's Valuation

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. Voluntary benefit changes by plan amendment are generally included in the first valuation that is prepared after the amendment becomes effective, even if the valuation date is prior to the effective date of the amendment.

This valuation generally reflects plan amendments effective before the date of the report. Please refer to the "Plan's Major Benefit Options" in this report and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

In 2022, SB 1168 increased the standard retiree lump sum death benefit from \$500 to \$2,000 for any death occurring on or after July 1, 2023. For pooled plans this is a Class 3 benefit and there is no normal cost surcharge. The impact on the unfunded liability is included in the pool's (gain)/loss.

Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods or assumptions for the June 30, 2022 actuarial valuation.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2022 and statutory/regulatory changes and board actions through January 2023.

During the time period between the valuation date and the publication of this report, inflation has been significantly higher than the expected inflation of 2.3% per annum. Since inflation influences cost-of-living increases for retirees and beneficiaries and active member pay increases, higher inflation is likely to put at least some upward pressure on contribution requirements and downward pressure on the funded status in the June 30, 2023 valuation. The actual impact of higher inflation on future valuation results will depend on, among other factors, how long higher inflation persists. At this time, we continue to believe the long-term inflation assumption of 2.3% is appropriate.

To the best of our knowledge, there have been no other subsequent events that could materially affect current or future certifications rendered in this report.

Assets and Liabilities

- **Breakdown of Entry Age Accrued Liability**
- **Allocation of Plan's Share of Pool's Experience/Assumption Change**
- **Development of Plan's Share of Pool's Market Value of Assets**
- **Schedule of Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**

Breakdown of Entry Age Accrued Liability

Active Members	\$1,179,888
Transferred Members	399,543
Separated Members	0
Members and Beneficiaries Receiving Payments	<u>2,916,052</u>
Total	\$4,495,483

Allocation of Plan's Share of Pool's Experience/Assumption Change

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The Pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1. Plan's Accrued Liability	\$4,495,483
2. Projected UAL Balance at 6/30/2022	493,303
3. Other UAL Adjustments (Golden Handshake, Prior Service Purchase, etc.)	0
4. Adjusted UAL Balance at 6/30/2022 for Asset Share	493,303
5. Pool's Accrued Liability ¹	22,021,735,002
6. Sum of Pool's Individual Plan UAL Balances at 6/30/2022 ¹	2,453,954,297
7. Pool's 2021-22 Investment (Gain)/Loss ¹	2,614,071,182
8. Pool's 2021-22 Non-Investment (Gain)/Loss ¹	309,490,972
9. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (4)] \div [(5) - (6)] \times (7)$	534,654
10. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (5) \times (8)$	63,179
11. Plan's New (Gain)/Loss as of 6/30/2022: $(9) + (10)$	597,833
12. Increase in Pool's Accrued Liability due to Change in Assumptions ¹	0
13. Plan's Share of Pool's Change in Assumptions: $(1) \div (5) \times (12)$	0
14. Increase in Pool's Accrued Liability due to Funding Risk Mitigation ¹	0
15. Plan's Share of Pool's Change due to Funding Risk Mitigation: $(1) \div (5) \times (14)$	0
16. Offset due to Funding Risk Mitigation	0
17. Plan's Investment (Gain)/Loss: $(9) - (16)$	534,654

¹ Does not include plans that transferred to Pool on the valuation date.

Development of the Plan's Share of Pool's Market Value of Assets

18. Plan's UAL: $(2) + (3) + (11) + (13) + (15)$	\$1,091,136
19. Plan's Share of Pool's MVA: $(1) - (18)$	\$3,404,347

Schedule of Amortization Bases

Below is the schedule of the plan's amortization bases. Note that there is a two-year lag between the valuation date and the start of the contribution year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2022.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2024-25.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment for the first fiscal year is determined by the actuarial valuation two years ago and the contribution for the second year is from the actuarial valuation one year ago. Additional discretionary payments are reflected in the Expected Payments column in the fiscal year they were made by the agency.

Reason for Base	Date Est.	Ramp Level 2024-25	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Expected Payment 2023-24	Balance 6/30/24	Minimum Required Payment 2024-25
Investment (Gain)/Loss	6/30/13	100%	Up/Down	2.80%	21	302,429	21,751	300,516	21,812	298,410	22,423
Non-Investment (Gain)/Loss	6/30/13	100%	Up/Down	2.80%	21	(21,477)	(1,545)	(21,341)	(1,549)	(21,191)	(1,592)
Share of Pre-2013 Pool UAL - Loomis Fire	6/30/13	No Ramp		2.80%	13	(675)	(61)	(658)	(62)	(639)	(63)
Assumption Change	6/30/14	100%	Up/Down	2.80%	12	163,070	17,476	156,098	17,670	148,452	18,165
Investment (Gain)/Loss	6/30/14	100%	Up/Down	2.80%	22	(261,620)	(18,274)	(260,525)	(18,309)	(259,319)	(18,822)
Non-Investment (Gain)/Loss	6/30/14	100%	Up/Down	2.80%	22	322	23	320	22	319	23
Side Fund - Loomis Fire	6/30/14	No Ramp		2.80%	0	19,891	10,521	10,371	10,718	0	0
Investment (Gain)/Loss	6/30/15	100%	Up/Down	2.80%	23	206,303	14,022	205,841	14,037	205,332	14,430
Non-Investment (Gain)/Loss	6/30/15	100%	Up/Down	2.80%	23	(15,144)	(1,029)	(15,110)	(1,030)	(15,073)	(1,059)
Assumption Change	6/30/16	100%	Up/Down	2.80%	14	67,754	6,455	65,690	6,514	63,425	6,697
Investment (Gain)/Loss	6/30/16	100%	Up/Down	2.80%	24	261,874	17,350	261,751	17,355	261,615	17,841
Non-Investment (Gain)/Loss	6/30/16	100%	Up/Down	2.80%	24	(29,269)	(1,939)	(29,255)	(1,940)	(29,239)	(1,994)
Assumption Change	6/30/17	100%	Up/Down	2.80%	15	76,601	5,647	75,974	7,118	73,784	7,317
Investment (Gain)/Loss	6/30/17	100%	Up/Down	2.80%	25	(131,800)	(6,907)	(133,624)	(8,629)	(133,793)	(8,871)
Non-Investment (Gain)/Loss	6/30/17	100%	Up/Down	2.80%	25	(6,222)	(326)	(6,308)	(407)	(6,316)	(419)
Assumption Change	6/30/18	100%	Up/Down	2.80%	16	125,709	6,857	127,171	9,209	126,302	11,833
Investment (Gain)/Loss	6/30/18	100%	Up/Down	2.80%	26	(39,882)	(1,570)	(40,971)	(2,090)	(41,597)	(2,686)
Method Change	6/30/18	100%	Up/Down	2.80%	16	35,278	1,924	35,689	2,584	35,445	3,321
Non-Investment (Gain)/Loss	6/30/18	100%	Up/Down	2.80%	26	18,324	721	18,825	961	19,112	1,234
Non-Investment (Gain)/Loss	6/30/19	No Ramp		0.00%	17	16,913	1,585	16,425	1,557	15,933	1,557

Schedule of Amortization Bases (continued)

Reason for Base	Date Est.	Ramp Level 2024-25	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/22	Expected Payment 2022-23	Balance 6/30/23	Expected Payment 2023-24	Balance 6/30/24	Minimum Required Payment 2024-25
Investment (Gain)/Loss	6/30/19	80%	Up Only	0.00%	17	18,395	769	18,851	1,133	18,962	1,511
Investment (Gain)/Loss	6/30/20	60%	Up Only	0.00%	18	85,019	1,862	88,876	3,653	91,144	5,480
Non-Investment (Gain)/Loss	6/30/20	No Ramp		0.00%	18	14,486	1,324	14,103	1,301	13,717	1,301
Assumption Change	6/30/21	No Ramp		0.00%	19	14,456	(1,180)	16,658	1,498	16,243	1,498
Net Investment (Gain)	6/30/21	40%	Up Only	0.00%	19	(407,803)	0	(435,534)	(9,362)	(455,475)	(18,723)
Non-Investment (Gain)/Loss	6/30/21	No Ramp		0.00%	19	(18,469)	0	(19,725)	(1,774)	(19,233)	(1,774)
Risk Mitigation	6/30/21	No Ramp		0.00%	0	109,981	(1,199)	118,699	122,668	0	0
Risk Mitigation Offset	6/30/21	No Ramp		0.00%	0	(111,141)	0	(118,699)	(122,668)	0	0
Investment (Gain)/Loss	6/30/22	20%	Up Only	0.00%	20	534,654	0	571,010	0	609,839	13,108
Non-Investment (Gain)/Loss	6/30/22	No Ramp		0.00%	20	63,179	0	67,475	0	72,063	6,480
Total						1,091,136	74,257	1,088,593	71,990	1,088,222	78,216

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in "Allocation of Plan's Share of Pool's Experience/Assumption Change" earlier in this section. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Many agencies have expressed a desire for a more stable pattern of payments or have indicated interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative "fresh start" amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a fresh start, please contact the plan actuary.

The Current Amortization Schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single "fresh start" base and amortizing it over an appropriate period.

The Current Amortization Schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS amortization policy.

Amortization Schedule and Alternatives (continued)

Date	<u>Current Amortization Schedule</u>		<u>Alternate Schedules</u>			
	Balance	Payment	15 Year Amortization		10 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2024	1,088,222	78,216	1,088,222	114,158	1,088,222	148,542
6/30/2025	1,081,389	86,064	1,044,246	114,159	1,008,712	148,542
6/30/2026	1,065,981	93,585	997,278	114,159	923,795	148,542
6/30/2027	1,041,751	99,341	947,116	114,158	833,104	148,542
6/30/2028	1,009,929	114,513	893,544	114,158	736,246	148,542
6/30/2029	960,261	116,632	836,329	114,158	632,801	148,541
6/30/2030	905,028	118,813	775,224	114,159	522,323	148,541
6/30/2031	843,782	121,048	709,963	114,158	404,333	148,542
6/30/2032	776,064	118,821	640,265	114,159	278,318	148,541
6/30/2033	706,040	116,402	565,826	114,158	143,735	148,542
6/30/2034	633,757	112,024	486,327	114,159		
6/30/2035	561,082	105,348	401,421	114,159		
6/30/2036	490,365	94,029	310,741	114,158		
6/30/2037	426,536	87,311	213,896	114,159		
6/30/2038	365,311	80,082	110,464	114,158		
6/30/2039	307,393	74,437				
6/30/2040	251,369	70,722				
6/30/2041	195,376	61,503				
6/30/2042	145,101	51,134				
6/30/2043	102,123	93,746				
6/30/2044	12,187	11,476				
6/30/2045	1,157	1,196				
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
Total		1,906,443		1,712,377		1,485,417
Interest Paid		818,221		624,155		397,195
Estimated Savings				194,066		421,026

Employer Contribution History

The table below provides a recent history of the required and discretionary employer contributions for the plan. The required amounts are based on the actuarial valuation from two years prior without subsequent adjustments, if any. Additional discretionary payments before July 1, 2019 or after April 28, 2023 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)	Additional Discretionary Payments
2016 - 17	12.657%	\$6,761	N/A
2017 - 18	12.698%	12,625	N/A
2018 - 19	13.439%	22,450	N/A
2019 - 20	14.398%	43,109	0
2020 - 21	15.445%	52,339	0
2021 - 22	15.25%	64,723	0
2022 - 23	15.25%	76,636	0
2023 - 24	17.26%	71,990	
2024 - 25	17.33%	78,216	

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's market value of assets, unfunded accrued liability, funded ratio, and annual covered payroll.

Valuation Date	Accrued Liability (AL)	Share of Pool's Market Value of Assets (MVA)	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2013	\$2,698,612	\$1,917,711	\$780,901	71.1%	\$136,755
06/30/2014	2,973,160	2,235,615	737,545	75.2%	145,465
06/30/2015	3,095,881	2,779,432	316,449	89.8%	150,502
06/30/2016	3,283,497	2,724,561	558,936	83.0%	158,816
06/30/2017	3,581,471	2,965,566	615,905	82.8%	156,186
06/30/2018	3,830,075	3,079,254	750,821	80.4%	123,257
06/30/2019	3,931,545	3,129,000	802,545	79.6%	128,178
06/30/2020	4,051,796	3,149,605	902,191	77.7%	132,337
06/30/2021	4,277,094	3,754,813	522,281	87.8%	151,239
06/30/2022	4,495,483	3,404,347	1,091,136	75.7%	192,989

Risk Analysis

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Funded Status – Termination Basis**

Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2021 was performed to determine the effects of various future investment returns on required employer contributions. The projections below reflect the impact of the CalPERS Funding Risk Mitigation policy. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The first table shows projected contribution requirements if the fund were to earn either 3.0% or 10.8% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2042.

Assumed Annual Return FY 2022-23 through 2041-42	Projected Employer Contributions				
	2025-26	2026-27	2027-28	2028-29	2029-30
3.0% (5th percentile)					
Normal Cost Rate	17.3%	17.3%	17.3%	17.3%	17.3%
UAL Contribution	\$89,000	\$103,000	\$119,000	\$147,000	\$165,000
10.8% (95th percentile)					
Normal Cost Rate	17.7%	18.0%	18.3%	18.7%	19.0%
UAL Contribution	\$83,000	\$85,000	\$82,000	\$84,000	\$69,000

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 3.0% or greater than 10.8% over a 20-year period, the likelihood of a single investment return less than 3.0% or greater than 10.8% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.2% or less and a 2.5% probability that the annual return will be -17.2% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of a one or two standard deviation investment loss in FY 2022-23 on the FY 2025-26 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2025-26.

Assumed Annual Return for Fiscal Year 2022-23	Required Employer Contributions	Projected Employer Contributions
	2024-25	2025-26
(17.2)% (2 standard deviation loss)		
Normal Cost Rate	17.33%	17.3%
UAL Contribution	\$78,216	\$106,000
(5.2)% (1 standard deviation loss)		
Normal Cost Rate	17.33%	17.3%
UAL Contribution	\$78,216	\$96,000

- Without investment gains (returns higher than 6.8%) in FY 2023-24 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2022-23.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2025-26 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.5% and 2.3%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2022 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Real Rate of Return Assumption

As of June 30, 2022	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	2.3%	2.3%	2.3%
Real Rate of Return	3.5%	4.5%	5.5%
a) Total Normal Cost	31.76%	25.14%	20.11%
b) Accrued Liability	\$5,134,648	\$4,495,483	\$3,969,917
c) Market Value of Assets	\$3,404,347	\$3,404,347	\$3,404,347
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$1,730,301	\$1,091,136	\$565,570
e) Funded Ratio	66.3%	75.7%	85.8%

Sensitivity to the Price Inflation Assumption

As of June 30, 2022	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	1.3%	2.3%	3.3%
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	26.40%	25.14%	22.93%
b) Accrued Liability	\$4,646,854	\$4,495,483	\$4,133,269
c) Market Value of Assets	\$3,404,347	\$3,404,347	\$3,404,347
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$1,242,507	\$1,091,136	\$728,922
e) Funded Ratio	73.3%	75.7%	82.4%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2022 plan costs and funded status under two different longevity scenarios, namely assuming post-retirement rates of mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2021. This type of analysis highlights the impact on the plan of a change in the mortality assumption.

As of June 30, 2022	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	25.55%	25.14%	24.76%
b) Accrued Liability	\$4,570,475	\$4,495,483	\$4,426,159
c) Market Value of Assets	\$3,404,347	\$3,404,347	\$3,404,347
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$1,166,128	\$1,091,136	\$1,021,812
e) Funded Ratio	74.5%	75.7%	76.9%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables, and changes in longevity or other demographic assumptions.

Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures are for one rate plan only. One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio starts increasing. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	June 30, 2021	June 30, 2022
1. Retired Accrued Liability	\$2,858,486	\$2,916,052
2. Total Accrued Liability	4,277,094	4,495,483
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.67	0.65

Another measure of maturity level of CalPERS and its plans is to look at the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, maybe less informative than the ratio of retiree liability to total accrued liability above.

For comparison, the support ratio for all CalPERS public agency plans as of June 30, 2021, was 0.78 and was calculated consistently with how it is for the individual rate plan. Note that to calculate the support ratio for all public agency plans, a retiree with service from more than one CalPERS agency is counted as a retiree more than once.

Support Ratio	June 30, 2021	June 30, 2022
1. Number of Actives	2	2
2. Number of Retirees	6	6
3. Support Ratio [(1) / (2)]	0.33	0.33

Maturity Measures (continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary growth, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of market value of assets to payroll. Plans that have higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with AVR of 8 may experience twice the contribution volatility due to investment return volatility than a plan with AVR of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as a plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with LVR of 8 is expected to have twice the contribution volatility of a plan with LVR of 4. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2021	June 30, 2022
1. Market Value of Assets	\$3,754,813	\$3,404,347
2. Payroll	151,239	192,989
3. Asset Volatility Ratio (AVR) [(1) / (2)]	24.8	17.6
4. Accrued Liability	\$4,277,094	\$4,495,483
5. Liability Volatility Ratio (LVR) [(4) / (2)]	28.3	23.3

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	0.74	0.40	19.0	22.9
06/30/2018	0.72	0.40	25.0	31.1
06/30/2019	0.71	0.33	24.4	30.7
06/30/2020	0.69	0.33	23.8	30.6
06/30/2021	0.67	0.33	24.8	28.3
06/30/2022	0.65	0.33	17.6	23.3

Funded Status – Termination Basis

The funded status measured on a termination basis is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2022. The accrued liability on a termination basis (termination liability) is calculated differently compared to the plan’s ongoing funding liability. For the termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees. Unlike the actuarial cost method used for ongoing plans, the termination liability is the present value of the benefits earned through the valuation date.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the PERF and consequently, a lower discount rate is assumed. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The effective termination discount rate will depend on actual market rates of return for risk-free securities on the date of termination. As market discount rates are variable, the table below shows a range for the hypothetical termination liability based on the lowest and highest interest rates observed during an approximate 19-month period from 12 months before the valuation date to seven months after.

Market Value of Assets (MVA)	Discount Rate: 1.75% Price Inflation: 2.50%			Discount Rate: 4.50% Price Inflation: 2.75%		
	Termination Liability ^{1,2}	Funded Ratio	Unfunded Termination Liability	Termination Liability ^{1,2}	Funded Ratio	Unfunded Termination Liability
\$3,404,347	\$9,487,226	35.9%	\$6,082,879	\$5,959,131	57.1%	\$2,554,784

¹ The termination liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A of the Section 2 report.

² The discount rate used for termination valuations is a weighted average of the 10-year and 30-year U.S. Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the table are based on 20-year Treasury bonds, rounded to the nearest quarter percentage point, which is a good proxy for most plans. The 20-year Treasury yield was 3.38% on June 30, 2022, the valuation date.

In order to terminate the plan, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. Before beginning this process, please consult with the plan actuary.

Participant Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2021	June 30, 2022
Active Members		
Counts	2	2
Average Attained Age	52.5	53.5
Average Entry Age to Rate Plan	32.3	32.3
Average Years of Credited Service	18.3	19.3
Average Annual Covered Pay	\$75,620	\$96,495
Annual Covered Payroll	\$151,239	\$192,989
Present Value of Future Payroll	\$1,117,136	\$1,205,671
Transferred Members	1	1
Separated Members	0	0
Retired Members and Beneficiaries*		
Counts	6	6
Average Annual Benefits	\$32,243	\$33,454
Total Annual Benefits	\$193,456	\$200,725

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.

* Values include community property settlements.

List of Class 1 Benefit Provisions

This plan has the additional Class 1 Benefit Provisions:

- One Year Final Compensation (FAC 1)

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Member Category	Benefit Group		
	Misc	Misc	Misc
Demographics			
Actives	No	Yes	No
Transfers/Separated	No	Yes	Yes
Receiving	Yes	Yes	No
Benefit Provision			
Benefit Formula		3% @ 60	2% @ 55
Social Security Coverage		No	No
Full/Modified		Full	Full
Employee Contribution Rate		8.00%	
Final Average Compensation Period		One Year	Three Year
Sick Leave Credit		Yes	Yes
Non-Industrial Disability		Standard	Standard
Industrial Disability		No	No
Pre-Retirement Death Benefits			
Optional Settlement 2		Yes	Yes
1959 Survivor Benefit Level		Level 4	Indexed
Special		No	No
Alternate (firefighters)		No	No
Post-Retirement Death Benefits			
Lump Sum	\$2000	\$2000	\$2000
Survivor Allowance (PRSA)	No	No	No
COLA	2%	2%	2%

Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

Risk Pool Actuarial Valuation Information

Section 2 may be found on the
CalPERS website (www.calpers.ca.gov)
in the Forms and Publications section