



**California Public Employees' Retirement System**

**Actuarial Office**

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**July 2021**

**Safety Fire Plan of the City of Manhattan Beach  
(CalPERS ID: 3161990216)  
Annual Valuation Report as of June 30, 2020**

Dear Employer,

Attached to this letter, you will find the June 30, 2020 actuarial valuation report of your CalPERS pension plan. **Provided in this report is the determination of the minimum required employer contributions for fiscal year 2022-23.** 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, 2020.

Section 2 can be found on the CalPERS website ([calpers.ca.gov](http://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 Safety Risk Pool Actuarial Valuation Report for June 30, 2020.

Your June 30, 2020 actuarial valuation report contains important actuarial information about your pension plan at CalPERS. Your assigned CalPERS staff actuary, whose signature appears in the Actuarial Certification section on page 1, is available to discuss the report with you.

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 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 rates as needed. This valuation is based on an investment return assumption of 7.0% which was adopted by the board in December 2016. Other assumptions used in this report are those recommended in the CalPERS Experience Study and Review of Actuarial Assumptions report from December 2017.

**Required Contribution**

The exhibit below displays the minimum employer contributions for fiscal year 2022-23 along with estimates of the required contributions for fiscal year 2023-24. Member contributions other than cost sharing (whether paid by the employer or the employee) are in addition to the results shown below. **The employer contributions in this report do not reflect any cost sharing arrangements you may have with your employees.**

Fiscal Year	Employer Normal Cost Rate	Employer Amortization of Unfunded Accrued Liability
2022-23	23.68%	\$1,735,868
<i>Projected Results</i>		
2023-24	23.7%	\$1,871,000

The actual investment return for fiscal year 2020-21 was not known at the time this report was prepared. The projections above assume the investment return for that year would be 7.00%. ***To the extent the actual investment return for fiscal year 2020-21 differs from 7.00%, the actual contribution requirements for fiscal year 2023-24 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 fiscal year 2027-28.

### **Changes from Previous Year's Valuation**

There are no significant changes in actuarial assumptions or policies in your 2020 actuarial valuation. Your annual valuation report is an important tool for monitoring the health of your CalPERS pension plan. Your report contains useful information about future required contributions and ways to control your plan's funding progress. In addition to your annual actuarial report my office has developed tools for employers to plan, project and protect the retirement benefits of your employees. Pension Outlook is a tool to help plan and budget pension costs into the future with easy to understand results and charts.

You will be able to view the projected funded status and required employer contributions for pension plans in different potential scenarios for up to 30 years into the future — which will make budgeting more predictable. While Pension Outlook can't predict the future, it can provide valuable planning information based on a variety of future scenarios that you select.

Pension Outlook can help you answer specific questions about your plans, including:

- When is my plan's funded status expected to increase?
- What happens to my required contributions in a down market?
- How does the discount rate assumption affect my contributions?
- What is the impact of making an additional discretionary payment to my plan?

To get started, visit our Pension Outlook page at [www.calpers.ca.gov/page/employers/actuarial-resources/pension-outlook-overview](http://www.calpers.ca.gov/page/employers/actuarial-resources/pension-outlook-overview) and take the steps to register online.

CalPERS will be completing an Asset Liability Management (ALM) review process in November 2021 that will review the capital market assumptions and the strategic asset allocation and ascertain whether a change in the discount rate and other economic assumptions is warranted. In addition, the Actuarial Office will be completing its Experience Study to review the demographic experience within the pension system and make recommendations to modify future assumptions where appropriate.

Furthermore, this valuation does not reflect any impacts from the COVID-19 pandemic on your pension plan. The impact of COVID-19 on retirement plans is not yet known and CalPERS actuaries will continue to monitor the effects and where necessary make future adjustments to actuarial assumptions.

Further descriptions of general changes are included in the "Highlights and Executive Summary" section and in Appendix A of the Section 2 report, "Actuarial Methods and Assumptions."

### **Questions**

We understand that you might have questions about these results, and your assigned CalPERS actuary whose signature is on the valuation report is available to discuss. If you have other questions, you may call the Customer Contact Center at (888)-CalPERS or **(888-225-7377)**.

Sincerely,

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



**Actuarial Valuation  
as of June 30, 2020**

**for the  
Safety Fire Plan  
of the  
City of Manhattan Beach  
(CalPERS ID: 3161990216)**

**Required Contributions  
for Fiscal Year  
July 1, 2022 - June 30, 2023**

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**Section 2 – Risk Pool Actuarial Valuation Information**

# Section 1

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

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## **Plan Specific Information for the Safety Fire Plan of the City of Manhattan Beach**

**(CalPERS ID: 3161990216)  
(Rate Plan ID: 3451)**

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## Actuarial Certification

Section 1 of this report is based on the member and financial data contained in our records as of June 30, 2020 which was provided by your agency and the benefit provisions under your contract with CalPERS. Section 2 of this report is based on the member and financial data as of June 30, 2020 provided by employers participating in the Safety Risk Pool to which the plan belongs and benefit provisions under the CalPERS contracts for those agencies.

As set forth in Section 2 of this report, the pool actuaries have certified that, in their opinion, the valuation of the risk pool containing your Safety Fire Plan has been performed in accordance with generally accepted actuarial principles consistent 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 plan, it is my opinion as the plan actuary that the Unfunded Accrued Liability amortization bases as of June 30, 2020 and employer contribution as of July 1, 2022 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.

CHYNA NAKAO, FSA, EA, FCA, MAAA  
Senior Pension Actuary, CalPERS

# Highlights and Executive Summary

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



## Introduction

This report presents the results of the June 30, 2020 actuarial valuation of the Safety Fire Plan of the City of Manhattan Beach of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the required employer contributions for fiscal year 2022-23.

## Purpose of Section 1

This Section 1 report for the Safety Fire Plan of the City of Manhattan Beach of CalPERS was prepared by the plan actuary in order to:

- Set forth the assets and accrued liabilities of this plan as of June 30, 2020;
- Determine the minimum required employer contribution for this plan for the fiscal year July 1, 2022 through June 30, 2023; and
- Provide actuarial information as of June 30, 2020 to the CalPERS Board of Administration 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.

The measurements shown in this actuarial valuation may not be applicable for other purposes. The employer should contact their 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; and changes in plan provisions or applicable law.

### Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the recommendations of Actuarial Standards 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 6.0% and 8.0%.
- 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 2017.
- Pension Plan maturity measures quantifying the risks the employer bears.

## Required Employer Contributions

	Fiscal Year
<b>Required Employer Contributions</b>	<b>2022-23</b>
Employer Normal Cost Rate	23.68%
<i>Plus</i>	
<b>Required Payment on Amortization Bases<sup>1</sup></b>	<b>\$1,735,868</b>
<i>Paid either as</i>	
<b>1) Monthly Payment</b>	<b>\$144,655.67</b>
<i>Or</i>	
<b>2) Annual Prepayment Option*</b>	<b>\$1,678,127</b>
<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	Fiscal Year
	2021-22	2022-23
<b>Development of Normal Cost as a Percentage of Payroll</b>		
Base Total Normal Cost for Formula	29.63%	29.63%
Surcharge for Class 1 Benefits <sup>2</sup>		
a) FAC 1	1.15%	1.20%
b) PRSA	1.83%	1.84%
Phase out of Normal Cost Difference <sup>3</sup>	0.00%	0.00%
Plan's Total Normal Cost	32.61%	32.67%
Formula's Expected Employee Contribution Rate	8.99%	8.99%
Employer Normal Cost Rate	23.62%	23.68%

<sup>1</sup> The required payment on amortization bases does not take into account any additional discretionary payment made after April 30, 2021.

<sup>2</sup> Section 2 of this report contains a list of Class 1 benefits and corresponding surcharges for each benefit.

<sup>3</sup> The normal cost change 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 the 2022-23 fiscal year is \$1,735,868. CalPERS allows employers 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. Employers 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 fiscal year 2022-23 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.

If you are considering making an ADP, please contact your actuary for additional information.

### Minimum Required Employer Contribution for Fiscal Year 2022-23

Estimated Normal Cost	Minimum UAL Payment	ADP	Total UAL Contribution	Estimated Total Contribution
\$1,185,715	\$1,735,868	\$0	\$1,735,868	\$2,921,583

### Alternative Fiscal Year 2022-23 Employer Contributions for Greater UAL Reduction

Funding Target	Estimated Normal Cost	Minimum UAL Payment	ADP <sup>1</sup>	Total UAL Contribution	Estimated Total Contribution
20 years	\$1,185,715	\$1,735,868	\$284,494	\$2,020,362	\$3,206,077
15 years	\$1,185,715	\$1,735,868	\$614,148	\$2,350,016	\$3,535,731
10 years	\$1,185,715	\$1,735,868	\$1,311,543	\$3,047,411	\$4,233,126
5 years	\$1,185,715	\$1,735,868	\$3,484,306	\$5,220,174	\$6,405,889

<sup>1</sup> 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 Unfunded Accrued Liability as of June 30, 2022 as determined in the June 30, 2020 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.

## Plan's Funded Status

	June 30, 2019	June 30, 2020
1. Present Value of Projected Benefits (PVB)	\$81,057,285	\$83,303,551
2. Entry Age Accrued Liability (AL)	69,653,716	73,083,241
3. Plan's Market Value of Assets (MVA)	50,184,608	51,252,092
4. Unfunded Accrued Liability (UAL) [(2) - (3)]	19,469,108	21,831,149
5. Funded Ratio [(3) / (2)]	72.0%	70.1%

This measure of funded status is an assessment of the need for future employer contributions based on the selected actuarial cost method used to fund the plan. The UAL is the present value of future employer contributions for service that has already been earned and is in addition to future normal cost contributions for active members. For a measure of funded status that is appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities, please see "Hypothetical Termination Liability" in the "Risk Analysis" section.

## 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. Actual contribution rates during this projection period could be significantly higher or lower than the projection shown below.

Fiscal Year	Required Contribution	Projected Future Employer Contributions (Assumes 7.00% Return for Fiscal Year 2020-21)				
		2023-24	2024-25	2025-26	2026-27	2027-28
Rate Plan 3451 Results						
Normal Cost %	23.68%	23.7%	23.7%	23.7%	23.7%	23.7%
UAL Payment	\$1,735,868	\$1,871,000	\$2,007,000	\$2,092,000	\$2,173,000	\$2,225,000

For some sources of UAL, the change in UAL is 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 increase in UAL, the relatively small amortization payments during the ramp up period could result in a funded ratio that is projected to decrease initially 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 modeling and projection tool, Pension Outlook, is available in the Employers section of the CalPERS website. Pension Outlook is a tool to help plan and budget pension costs into the future with results and charts that are easy to understand.

## Other Pooled Safety Risk Pool Rate Plans

All of the results presented in this Section 1 report, except those shown below, correspond to rate plan 3451. 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 Safety Risk Pool are shown below and assume that the payroll for each rate plan will grow according to the overall payroll growth assumption of 2.75% per year for three years.

	<b>Fiscal Year</b> <b>2021-22</b>	<b>Fiscal Year</b> <b>2022-23</b>
<b>Estimated Combined Employer Contributions for all Pooled Safety Rate Plans</b>		
Projected Payroll for the Contribution Year	\$14,440,521	\$14,532,619
Estimated Employer Normal Cost	\$3,440,686	\$3,410,222
Required Payment on Amortization Bases	\$4,602,301	\$5,334,136
Estimated Total Employer Contributions	\$8,042,987	\$8,744,358
Estimated Total Employer Contribution Rate (illustrative only)	55.70%	60.17%

## Cost

### Actuarial Determination of Pension Plan Cost

Contributions to fund the pension 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 2016-17, the Amortization of UAL component was expressed as a percentage of total active payroll. Starting with fiscal year 2016-17, the Amortization of UAL component was expressed as a dollar amount and invoiced on a monthly basis. There continues to be 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 5.5% over the 20 years ending June 30, 2020, yet individual fiscal year returns have ranged from -23.6% to +20.7%. In addition, CalPERS reviews all actuarial assumptions by conducting in-depth experience studies every four years, with the most recent experience study completed in 2017.

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

### Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods or assumptions for the 2020 actuarial valuation.

## Subsequent Events

The contribution requirements determined in this actuarial valuation report are based on demographic and financial information as of June 30, 2020. Changes in the value of assets subsequent to that date are not reflected. Investment returns below the assumed rate of return will increase future required contributions while investment returns above the assumed rate of return will decrease future required contributions.

CalPERS will be completing an Asset Liability Management (ALM) process in November 2021 that will review the capital market assumptions and the strategic asset allocation and ascertain whether a change in the discount rate and other economic assumptions is warranted. As part of the ALM process the Actuarial Office will be completing an Experience Study to review the demographic experience of the retirement system and make recommendations to modify future assumptions where appropriate.

Furthermore, this valuation does not reflect any impacts from the COVID-19 pandemic on your pension plan. The impact of COVID-19 on retirement plans is not yet known and CalPERS actuaries will continue to monitor the effects and where necessary make future adjustments to actuarial assumptions.

The projected employer contributions on Page 6 are calculated under the assumption that the discount rate remains at 7.0% going forward and that the realized rate of return on assets for fiscal year 2020-21 is 7.0%.

This actuarial valuation report reflects statutory changes, regulatory changes and CalPERS Board actions through January 2021. Any subsequent changes or actions are not reflected.

## **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 Plan's Amortization Bases**
- **Amortization Schedule and Alternatives**
- **Employer Contribution History**
- **Funding History**



## Breakdown of Entry Age Accrued Liability

Active Members	\$29,745,785
Transferred Members	157,407
Terminated Members	2,466,205
Members and Beneficiaries Receiving Payments	<u>40,713,844</u>
Total	\$73,083,241

## 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	\$73,083,241
2. Projected UAL balance at 6/30/2020	19,810,386
3. Pool's Accrued Liability <sup>1</sup>	25,304,654,410
4. Sum of Pool's Individual Plan UAL Balances at 6/30/2020 <sup>1</sup>	6,693,257,955
5. Pool's 2019/20 Investment (Gain)/Loss <sup>1</sup>	427,980,555
6. Pool's 2019/20 Non-Investment (Gain)/Loss <sup>1</sup>	75,360,952
7. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (2)] \div [(3) - (4)] \times (5)$	1,225,042
8. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (3) \times (6)$	217,653
9. Plan's New (Gain)/Loss as of 6/30/2020: (7) + (8)	1,442,695

<sup>1</sup> 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

10. Plan's UAL: (2) + (9)	\$21,831,149
11. Plan's Share of Pool's MVA: (1) - (10)	\$51,252,092

## Schedule of Plan's Amortization Bases

Note that there is a two-year lag between the valuation date and the start of the contribution fiscal year.

- The assets, liabilities, and funded status of the plan are measured as of the valuation date: June 30, 2020.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: fiscal year 2022-23.

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 2022-23	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/20	Expected Payment 2020-21	Balance 6/30/21	Expected Payment 2021-22	Balance 6/30/22	Minimum Required Payment 2022-23
Share of Pre-2013 Pool UAL	6/30/13	No Ramp		2.75%	15	4,637,522	382,664	4,566,318	393,187	4,479,244	404,000
Non-Investment (Gain)/Loss	6/30/13	100%	Up/Down	2.75%	23	(424,366)	(28,788)	(424,293)	(29,579)	(423,397)	(30,393)
Investment (Gain)/Loss	6/30/13	100%	Up/Down	2.75%	23	6,983,189	473,718	6,981,995	486,746	6,967,241	500,131
Non-Investment (Gain)/Loss	6/30/14	100%	Up/Down	2.75%	24	63,403	4,193	63,504	4,308	63,493	4,426
Investment (Gain)/Loss	6/30/14	100%	Up/Down	2.75%	24	(5,267,381)	(348,316)	(5,275,797)	(357,894)	(5,274,894)	(367,736)
Assumption Change	6/30/14	100%	Up/Down	2.75%	14	3,319,781	315,675	3,225,629	324,356	3,115,907	333,276
Non-Investment (Gain)/Loss	6/30/15	100%	Up/Down	2.75%	25	(11,530)	(603)	(11,713)	(775)	(11,731)	(796)
Investment (Gain)/Loss	6/30/15	100%	Up/Down	2.75%	25	3,241,839	169,561	3,293,372	217,780	3,298,635	223,769
Non-Investment (Gain)/Loss	6/30/16	100%	Up/Down	2.75%	26	(637,373)	(25,048)	(656,079)	(34,316)	(666,508)	(44,074)
Investment (Gain)/Loss	6/30/16	100%	Up/Down	2.75%	26	3,979,519	156,390	4,096,314	214,254	4,161,430	275,182
Assumption Change	6/30/16	100%	Up/Down	2.75%	16	1,223,532	66,615	1,240,272	91,263	1,232,688	117,215
Non-Investment (Gain)/Loss	6/30/17	80%	Up/Down	2.75%	27	48,292	1,284	50,344	1,978	51,822	2,711
Investment (Gain)/Loss	6/30/17	80%	Up/Down	2.75%	27	(1,945,916)	(51,726)	(2,028,624)	(79,722)	(2,088,163)	(109,219)
Assumption Change	6/30/17	80%	Up/Down	2.75%	17	1,571,516	57,306	1,622,244	88,323	1,644,439	121,002
Non-Investment (Gain)/Loss	6/30/18	60%	Up/Down	2.75%	28	271,669	3,710	286,848	7,625	299,040	11,752
Investment (Gain)/Loss	6/30/18	60%	Up/Down	2.75%	28	(578,965)	(7,907)	(611,313)	(16,250)	(637,296)	(25,045)
Method Change	6/30/18	60%	Up/Down	2.75%	18	501,871	9,357	527,323	19,229	544,345	29,637
Assumption Change	6/30/18	60%	Up/Down	2.75%	18	2,255,196	42,047	2,369,566	86,407	2,446,056	133,175
Non-Investment (Gain)/Loss	6/30/19	No Ramp		0.00%	19	314,356	0	336,361	30,694	328,156	30,694

## Schedule of Plan's Amortization Bases (continued)

Reason for Base	Date Est.	Ramp Level 2022-23	Ramp Shape	Escalation Rate	Amort. Period	Balance 6/30/20	Expected Payment 2020-21	Balance 6/30/21	Expected Payment 2021-22	Balance 6/30/22	Minimum Required Payment 2022-23
Investment (Gain)/Loss	6/30/19	40%	Up Only	0.00%	19	264,232	0	282,728	6,182	296,124	12,363
AL Significant Increase*	6/30/20	No Ramp		0.00%	20	578,068	0	618,533	0	661,830	60,394
Non-Investment (Gain)/Loss	6/30/20	No Ramp		0.00%	20	217,653	0	232,889	0	249,191	22,739
Investment (Gain)/Loss	6/30/20	20%	Up Only	0.00%	20	1,225,042	0	1,310,795	0	1,402,551	30,665
<b>Total</b>						<b>21,831,149</b>	<b>1,220,132</b>	<b>22,097,216</b>	<b>1,453,796</b>	<b>22,140,203</b>	<b>1,735,868</b>

\*Government Code Section 20791 requires that a significant increase in actuarial liability to a contracting agency due to increased compensation by a subsequent employer to a non-represented employee is borne by the agency that created the increase in liability.

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 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 consult with your 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 a reasonable 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
6/30/2022	22,140,203	1,735,868	22,140,204	2,350,016	22,140,204	3,047,411
6/30/2023	21,894,419	1,871,072	21,259,143	2,350,016	20,537,752	3,047,412
6/30/2024	21,491,577	2,006,667	20,316,408	2,350,016	18,823,127	3,047,411
6/30/2025	20,920,274	2,092,358	19,307,681	2,350,016	16,988,479	3,047,412
6/30/2026	20,220,342	2,173,207	18,228,343	2,350,016	15,025,405	3,047,411
6/30/2027	19,387,784	2,224,775	17,073,452	2,350,016	12,924,917	3,047,412
6/30/2028	18,443,604	2,277,760	15,837,718	2,350,016	10,677,394	3,047,411
6/30/2029	17,378,525	2,332,200	14,515,483	2,350,016	8,272,545	3,047,412
6/30/2030	16,182,577	2,388,139	13,100,691	2,350,016	5,699,356	3,047,412
6/30/2031	14,845,047	2,445,616	11,586,864	2,350,016	2,946,043	3,047,411
6/30/2032	13,354,437	2,417,244	9,967,069	2,350,016		
6/30/2033	11,788,827	2,385,692	8,233,888	2,350,016		
6/30/2034	10,146,266	2,318,332	6,379,385	2,350,016		
6/30/2035	8,458,407	2,202,655	4,395,066	2,350,015		
6/30/2036	6,772,053	1,999,735	2,271,846	2,350,016		
6/30/2037	5,177,552	1,277,458				
6/30/2038	4,218,568	1,137,751				
6/30/2039	3,336,970	1,026,796				
6/30/2040	2,508,431	958,395				
6/30/2041	1,692,650	757,649				
6/30/2042	1,027,416	498,899				
6/30/2043	583,269	396,160				
6/30/2044	214,307	203,438				
6/30/2045	18,869	19,518				
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
6/30/2050						
6/30/2051						
<b>Total</b>		<b>39,147,384</b>		<b>35,250,239</b>		<b>30,474,115</b>
<b>Interest Paid</b>		<b>17,007,181</b>		<b>13,110,033</b>		<b>8,333,911</b>
<b>Estimated Savings</b>				<b>3,897,148</b>		<b>8,673,270</b>

## Employer Contribution History

The table below provides a recent history of the required employer contributions for the plan. The amounts are based on the actuarial valuation from two years prior and does not account for prepayments or benefit changes made during a fiscal year. Additional discretionary payments before July 1, 2019 or after June 30, 2020 are not included.

Fiscal Year	Employer Normal Cost	Unfunded Liability Payment (\$)	Additional Discretionary Payments
2016 - 17	19.334%	\$508,427	N/A
2017 - 18	19.520%	642,240	N/A
2018 - 19	20.416%	837,285	N/A
2019 - 20	21.748%	1,052,432	0
2020 - 21	23.558%	1,220,134	
2021 - 22	23.62%	1,453,796	
2022 - 23	23.68%	1,735,868	

## 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
06/30/2011	\$46,632,281	\$37,434,329	\$9,197,952	80.3%	\$3,898,699
06/30/2012	49,196,516	37,289,403	11,907,113	75.8%	4,223,679
06/30/2013	48,875,769	39,388,160	9,487,609	80.6%	4,359,490
06/30/2014	53,484,907	44,884,291	8,600,616	83.9%	4,573,294
06/30/2015	56,728,011	45,251,516	11,476,495	79.8%	4,613,040
06/30/2016	59,357,799	43,859,609	15,498,190	73.9%	4,687,123
06/30/2017	63,162,015	47,397,072	15,764,943	75.0%	4,800,751
06/30/2018	67,524,160	49,151,848	18,372,312	72.8%	4,712,888
06/30/2019	69,653,716	50,184,608	19,469,108	72.0%	4,978,563
06/30/2020	73,083,241	51,252,092	21,831,149	70.1%	4,615,865

## **Risk Analysis**

- **Future Investment Return Scenarios**
- **Discount Rate Sensitivity**
- **Mortality Rate Sensitivity**
- **Maturity Measures**
- **Maturity Measures History**
- **Hypothetical Termination Liability**

## Future Investment Return Scenarios

Analysis was performed to determine the effects of various future investment returns on required employer contributions. The projections below provide a range of results based on five investment return scenarios assumed to occur during the next four fiscal years (2020-21, 2021-22, 2022-23 and 2023-24). The projections also assume that all other actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur.

For fiscal years 2020-21, 2021-22, 2022-23, and 2023-24, each scenario assumes an alternate fixed annual return. The fixed return assumptions for the five scenarios are 1.0%, 4.0%, 7.0%, 9.0% and 12.0%.

These alternate investment returns were chosen based on stochastic analysis of possible future investment returns over the four-year period ending June 30, 2024. Using the expected returns and volatility of the asset classes in which the funds are invested, we produced five thousand stochastic outcomes for this period based on the most recently completed Asset Liability Management process. We then selected annual returns that approximate the 5<sup>th</sup>, 25<sup>th</sup>, 50<sup>th</sup>, 75<sup>th</sup>, and 95<sup>th</sup> percentiles for these outcomes. For example, of all the 4-year outcomes generated in the stochastic analysis, approximately 25% had an average annual return of 4.0% or less.

Required contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 1.0% or greater than 12.0% over this four-year period, the likelihood of a single investment return less than 1.0% or greater than 12.0% in any given year is much greater.

Assumed Annual Return From 2020-21 through 2023-24	Projected Employer Contributions			
	2023-24	2024-25	2025-26	2026-27
<b>1.0%</b>				
Normal Cost	23.7%	23.7%	23.7%	23.7%
UAL Contribution	\$1,948,000	\$2,237,000	\$2,553,000	\$2,941,000
<b>4.0%</b>				
Normal Cost	23.7%	23.7%	23.7%	23.7%
UAL Contribution	\$1,909,000	\$2,123,000	\$2,327,000	\$2,569,000
<b>7.0%</b>				
Normal Cost	23.7%	23.7%	23.7%	23.7%
UAL Contribution	\$1,871,000	\$2,007,000	\$2,092,000	\$2,173,000
<b>9.0%</b>				
Normal Cost	24.1%	24.5%	24.9%	25.3%
UAL Contribution	\$1,850,000	\$1,949,000	\$1,980,000	\$1,985,000
<b>12.0%</b>				
Normal Cost	24.1%	24.5%	24.9%	25.3%
UAL Contribution	\$1,812,000	\$1,830,000	\$1,732,000	\$1,555,000



## 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 4.50% and 2.50%, 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, 2020 assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 7.0% as well as alternate discount rates of 6.0% and 8.0%. The rates of 6.0% and 8.0% were selected since they illustrate the impact of a 1.0% increase or decrease to the 7.0% assumption.

### Sensitivity to the Real Rate of Return Assumption

As of June 30, 2020	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
<b>Discount Rate</b>	<b>6.0%</b>	<b>7.0%</b>	<b>8.0%</b>
Inflation	2.5%	2.5%	2.5%
<b>Real Rate of Return</b>	<b>3.5%</b>	<b>4.5%</b>	<b>5.5%</b>
a) Total Normal Cost	40.74%	32.67%	26.48%
b) Accrued Liability	\$82,573,062	\$73,083,241	\$65,210,775
c) Market Value of Assets	\$51,252,092	\$51,252,092	\$51,252,092
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$31,320,970	\$21,831,149	\$13,958,683
e) Funded Status	62.1%	70.1%	78.6%

### Sensitivity to the Price Inflation Assumption

As of June 30, 2020	1% Lower Inflation Rate	Current Assumptions	1% Higher Inflation Rate
<b>Discount Rate</b>	<b>6.0%</b>	<b>7.0%</b>	<b>8.0%</b>
<b>Inflation</b>	<b>1.5%</b>	<b>2.5%</b>	<b>3.5%</b>
Real Rate of Return	4.5%	4.5%	4.5%
a) Total Normal Cost	34.98%	32.67%	30.04%
b) Accrued Liability	\$77,059,194	\$73,083,241	\$68,133,555
c) Market Value of Assets	\$51,252,092	\$51,252,092	\$51,252,092
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$25,807,102	\$21,831,149	\$16,881,463
e) Funded Status	66.5%	70.1%	75.2%

## Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2020 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 2017. This type of analysis highlights the impact on the plan of improving or worsening mortality over the long-term.

As of June 30, 2020	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost	33.13%	32.67%	32.24%
b) Accrued Liability	\$74,418,081	\$73,083,241	\$71,850,607
c) Market Value of Assets	\$51,252,092	\$51,252,092	\$51,252,092
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$23,165,989	\$21,831,149	\$20,598,515
e) Funded Status	68.9%	70.1%	71.3%

## 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%.

<b>Ratio of Retiree Accrued Liability to Total Accrued Liability</b>	<b>June 30, 2019</b>	<b>June 30, 2020</b>
1. Retired Accrued Liability	37,522,487	40,713,844
2. Total Accrued Liability	69,653,716	73,083,241
3. Ratio of Retiree AL to Total AL [(1) / (2)]	0.54	0.56

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 starts declining. A mature plan will often have a ratio near or below one. The average support ratio for CalPERS public agency plans is 1.25.

<b>Support Ratio</b>	<b>June 30, 2019</b>	<b>June 30, 2020</b>
1. Number of Actives	29	27
2. Number of Retirees	47	50
3. Support Ratio [(1) / (2)]	0.62	0.54

## 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, and 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 (AVR)

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 an asset-to-payroll ratio of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an asset-to-payroll ratio 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 the plan matures.

### Liability Volatility Ratio (LVR)

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 investment return and changes in liability. For example, a plan with LVR ratio 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. The AVR, described above, will tend to move closer to the LVR as a plan matures.

Contribution Volatility	June 30, 2019	June 30, 2020
1. Market Value of Assets	\$50,184,608	\$51,252,092
2. Payroll	4,978,563	4,615,865
3. Asset Volatility Ratio (AVR) [(1) / (2)]	10.1	11.1
4. Accrued Liability	\$69,653,716	\$73,083,241
5. Liability Volatility Ratio (LVR) [(4) / (2)]	14.0	15.8

## 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	0.56	0.58	9.9	13.2
06/30/2018	0.56	0.57	10.4	14.3
06/30/2019	0.54	0.62	10.1	14.0
06/30/2020	0.56	0.54	11.1	15.8

## Hypothetical Termination Liability

The hypothetical termination liability is an estimate of the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2020. The plan liability on a termination basis is calculated differently compared to the plan's ongoing funding liability. For the hypothetical 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.

A more conservative investment policy and asset allocation strategy was adopted by the CalPERS 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 7 months after.

<b>Market Value of Assets (MVA)</b>	<b>Hypothetical Termination Liability<sup>1,2</sup> at 0.75%</b>	<b>Funded Status</b>	<b>Unfunded Termination Liability at 0.75%</b>	<b>Hypothetical Termination Liability<sup>1,2</sup> at 2.50%</b>	<b>Funded Status</b>	<b>Unfunded Termination Liability at 2.50%</b>
\$51,252,092	\$177,792,069	28.8%	\$126,539,977	\$134,865,527	38.0%	\$83,613,435

<sup>1</sup> The hypothetical liabilities calculated above include a 5% mortality contingency load in accordance with Board policy. Other actuarial assumptions can be found in Appendix A of the Section 2 report.

<sup>2</sup> The current discount rate assumption 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 1.18% on June 30, 2020, and was 1.68% on January 31, 2021.

In order to terminate the plan, you must first contact our Retirement Services Contract Unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow the plan actuary to give you a preliminary termination valuation with a more up-to-date estimate of the plan liabilities. CalPERS advises you to consult with the plan actuary before beginning this process.

## Participant Data

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

	June 30, 2019	June 30, 2020
<b>Active Members</b>		
Counts	29	27
Average Attained Age	N/A	46.8
Average Entry Age to Rate Plan	N/A	30.1
Average Years of Credited Service	N/A	16.5
Average Annual Covered Pay	\$171,675	\$170,958
Annual Covered Payroll	\$4,978,563	\$4,615,865
Projected Annual Payroll for Contribution Year	\$5,400,693	\$5,007,242
Present Value of Future Payroll	\$37,828,723	\$34,528,396
<b>Transferred Members</b>	4	3
<b>Separated Members</b>	3	4
<b>Retired Members and Beneficiaries</b>		
Counts*	47	50
Average Annual Benefits*	N/A	\$63,752

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)
- Post-Retirement Survivor Allowance (PRSA)

## Plan's Major Benefit Options

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

Member Category	Benefit Group						EXL*
	Fire	Fire	Fire	Fire	Fire	EXL*	
<b>Demographics</b>							
Actives	Yes	No	No	No	No	No	
Transfers/Separated	Yes	Yes	No	No	No	No	
Receiving	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Benefit Provision</b>							
Benefit Formula	3% @ 55	3% @ 55					
Social Security Coverage	No	No					
Full/Modified	Full	Full					
Employee Contribution Rate	9.00%						
Final Average Compensation Period	One Year	One Year					
Sick Leave Credit	Yes	Yes					
Non-Industrial Disability	Standard	Standard					
Industrial Disability	Standard	Standard					
Pre-Retirement Death Benefits							
Optional Settlement 2	Yes	Yes					
1959 Survivor Benefit Level	Level 4	Level 4					
Special	Yes	Yes					
Alternate (firefighters)	No	No					
Post-Retirement Death Benefits							
Lump Sum	\$500	\$500	\$500	\$500	\$500	\$0	
Survivor Allowance (PRSA)	Yes	Yes	Yes	Yes	Yes	No	
COLA	2%	2%	2%	2%	2%	2%	

\* The benefits listed here are those associated with the plan where an accrued liability adjustment has been made in accordance with Government Code Section 20791 and not of the contracting agency.

## Section 2

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

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### **Risk Pool Actuarial Valuation Information**

**Section 2 may be found on the CalPERS website  
([calpers.ca.gov](http://calpers.ca.gov)) in the Forms and  
Publications section**