1959 Survivor Benefit Program

Actuarial Valuation as of June 30, 2024

Required Contributions for Fiscal Year July 1, 2025, through June 30, 2026



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Actuarial Certification

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

Actuarial Methods and Assumptions

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

Randall Dziubek, ASA, MAAA, FCA Deputy Chief Actuary, Valuation Services, CalPERS

Scott Terando, ASA, EA, MAAA, FCA, CFA Chief Actuary, CalPERS

Actuarial Data and Rate Plan Results

To the best of our knowledge and having relied upon the attestation above that the actuarial methods and assumptions are reasonable, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the 1959 Survivor Program for Public Agencies 1st, 2nd, 3rd, 4th, and Indexed Level pools, and the State and Schools 5th Level pools and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation and related validation work was performed by the CaIPERS Actuarial Office. The valuation was based on member and financial data as of June 30, 2024, provided by the CaIPERS databases and the benefits with CaIPERS as of the date this report was produced.

SHELLY CHU, ASA, MAAA Senior Actuary, CalPERS

Tony Cuny, ASA, MAAA Senior Actuary, CalPERS

Highlights and Executive Summary

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Introduction

The 1959 Survivor program was designed to provide pre-retirement death benefits comparable to those provided by Social Security, formally the Federal Old Age and Survivor Insurance (OASI) program, to CalPERS' members not covered by Social Security.

Purpose

This actuarial valuation of the 1959 Survivor Program for Public Agencies 1st, 2nd, 3rd, 4th, and Indexed Level pools, and the State and Schools 5th Level pools within the California Public Employees' Retirement System (CalPERS) was performed by CalPERS staff actuaries as of June 30, 2024 in order to:

- Set forth the funded status of the program, reflecting the assets and funding liabilities of this program as of June 30, 2024.
- Establish the actuarially required premiums for all levels and employee premiums for the Indexed Level, and State and Schools 5th Levels for the fiscal year July 1, 2025 through June 30, 2026; and
- Provide actuarial information as of June 30, 2024 to the CalPERS Board of Administration and other interested parties.

The use of this report for any other purposes may be inappropriate.

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 premiums determined by the valuation and the actual premiums made by the agency.

Funded Status

Shown below are the Accrued Liability, Market Value of Assets (MVA), and Funded Ratio of all pools within the 1959 Survivor Benefit Program as of June 30, 2024.

Plan	Accrued Liability ¹	Market Value of Assets	Funded Ratio
State 5 th Level Pool	\$153,785,899	\$127,171,416	82.7%
Schools 5 th Level Pool	14,059,937	110,559,351	786.3%
PA 1 st Level Pool	2,552,168	75,315,322	2,951.0%
PA 2 nd Level Pool	2,200,586	16,771,258	762.1%
PA 3 rd Level Pool	32,729,893	160,454,199	490.2%
PA 4 th Level Pool	150,896,962	159,315,252	105.6%
PA Indexed Level Pool	22,659,024	31,459,101	138.8%
Total	\$378,884,469	\$681,045,899	179.8%

(1) Under the Term Insurance Method, the accrued liability and the present value of future benefits are defined to be equal. Under the Entry Age Actuarial Cost Method, which is being used to fund the benefit in the Indexed Level pool, the accrued liability is defined as the difference between the present value of future benefits and the present value of future normal costs.

Required Employer and Employee Monthly Premiums

Shown below are the 1959 Survivor Program's actuarially required employer and employee monthly premiums per covered member, per month for the fiscal year July 1, 2025 through June 30, 2026. The premiums for fiscal year July 1, 2024 through June 30, 2025 are shown for comparison. Except for the Public Agency Indexed Level pool, these monthly premiums are determined using a Modified Term Insurance Method. Monthly premiums for the Public Agency Indexed Level pool are determined using the Entry Age Actuarial Cost Method.

/	2024-25 Premiums		2025-26 Premiums			
Plan	Employer	Employee	Total	Employer	Employee	Total
State 5th Level Pool1	\$6.60	\$6.60	\$13.20	\$6.20	\$6.20	\$12.40
Schools 5 th Level Pool ¹	0.00	2.00	2.00	0.00	2.00	2.00
PA 1 st Level Pool ²	0.00	2.00	2.00	0.00	2.00	2.00
PA 2 nd Level Pool ²	0.00	2.00	2.00	0.00	2.00	2.00
PA 3rd Level Pool ²	0.00	2.00	2.00	0.00	2.00	2.00
PA 4th Level Pool ²	5.80	2.00	7.80	5.20	2.00	7.20
PA Indexed Level Pool ¹	2.95	2.95	5.90	3.00	3.00	6.00

Required Monthly Premiums

(1) For the Indexed Level and State and Schools 5th Levels, Section 21581 of the California Public Employees' Retirement Law requires mandatory cost sharing when the total premium exceeds \$4.00. Mandatory \$2.00 member monthly premium required.

(2) Mandatory \$2.00 member monthly premium required.

The required employee premium for the State 5th Level pool will change from \$6.60 to \$6.20 per member, per month (or from \$3.05 to \$2.87 for biweekly paid members) for fiscal year 2025-26. This is in accordance with Section 21581(c), which specifies that for State and Schools 5th Levels when the total required premium (after amortization of surplus/unfunded liability) exceeds \$4.00, the employer and the member shall evenly share the required monthly premium.

The required employee premium for the Indexed Level pool will change from \$2.95 to \$3.00 per member, per month (or from \$1.37 to \$1.39 for biweekly paid members) for fiscal year 2025-26. Employer premiums will also change from \$2.95 to \$3.00 per member, per month.

Employee required premiums for Public Agency 1st, 2nd, and 3rd Level pools will remain the same as in the prior year: \$2.00 per member, per month (or \$0.93 for biweekly paid members). There are no employer required premiums for these pools.

Employee required premiums for Public Agency 4th Level pool shall remain the same as in the prior year: \$2.00 per member, per month (or \$0.93 for biweekly paid members). Employer premiums will change from \$5.80 to \$5.20 per member, per month. This decrease is due to favorable non-investment experience in the past year.

Changes Since the Prior Year's Valuation

Board Policy

On April 16, 2024, the board took action to modify the Funding Risk Mitigation Policy to remove the automatic change to the discount rate when the investment return exceeds various thresholds. Rather than an automatic change to the discount rate, a board discussion would be placed on the calendar. The Future Investment Return Scenarios exhibit in this report, which includes a high enough return scenario to trigger a board discussion, does not reflect any change in the discount rate.

Actuarial Methods and Assumptions

There are no significant changes to the actuarial methods and assumptions for the June 30, 2024 actuarial valuation.

Plan Provisions

No changes were made since the prior valuation. A complete description of the principal plan provisions used in the June 30, 2024 valuation may be found in Appendix B of this report.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2024, as well as statutory changes, regulatory changes and board actions through January 2025.

CalPERS will be completing an Asset Liability Management (ALM) review process in November 2025 that will review the capital market assumptions and the CalPERS Total Fund Investment Policy and ascertain whether a change in the discount is warranted. In addition, the Actuarial Office will be presenting the findings of its Experience Study which reviews economic assumptions other than the discount rate as well as all demographic assumptions and makes recommendations to modify actuarial assumptions where appropriate. Any changes in actuarial assumptions will be reflected in the June 30, 2025, actuarial valuations.

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

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Reconciliation of the Market Value of Assets

State 5 th Level	June 30, 2023	June 30, 2024
Beginning Balance	\$118,493,561	\$ 120,264,494
Contributions (Employer and Employee) Received During Fiscal Year	10,267,000	10,616,790
Benefit Payments During Fiscal Year	(15,066,329)	(14,894,808)
Net Transfer of Assets Into and Out of this Pool	0	0
Investment Earnings Credited	6,570,262	11,184,940
Ending Balance	\$120,264,494	\$127,171,416
Schools 5 th Level	June 30, 2023	June 30, 2024
Beginning Balance	\$98,145,312	\$ 102,193,009
Contributions (Employer and Employee) Received During Fiscal Year	218,747	232,040
Benefit Payments During Fiscal Year	(1,667,152)	(1,416,705)
Net Transfer of Assets Into and Out of this Pool	0	0
Investment Earnings Credited	5,496,102	9,551,008
Ending Balance	\$102,193,009	\$ 110,559,351
Public Agency 1 st Level	June 30, 2023	June 30, 2024
Beginning Balance	\$65,355,742	\$ 68,946,830
Contributions (Employer and Employee) Received During Fiscal Year	159,607	165,165
Benefit Payments During Fiscal Year	(252,838)	(261,505)
Net Transfer of Assets Into and Out of this Pool	0	Ó
Investment Earnings Credited	3,684,319	6,464,832
Ending Balance	\$68,946,830	\$ 75,315,322
Public Agency 2 nd Level	June 30, 2023	June 30, 2024
Beginning Balance	\$14,938,427	\$ 15,679,218
Contributions (Employer and Employee) Received During Fiscal Year	104,363	105,485
Benefit Payments During Fiscal Year	(201,857)	(214,755)
Net Transfer of Assets Into and Out of this Pool	0	(252,595)
Investment Earnings Credited	838,285	1,453,905
Ending Balance	\$15,679,218	\$ 16,771,258
Public Agency 3 rd Level	June 30, 2023	June 30, 2024
Beginning Balance	\$141,922,852	\$ 148,164,721
Contributions (Employer and Employee) Received During Fiscal Year	1,134,703	1,215,223
Benefit Payments During Fiscal Year	(2,856,647)	(2,762,249)
Net Transfer of Assets Into and Out of this Pool	0	0
Investment Earnings Credited	7,963,813	13,836,504

Reconciliation of the Market Value of Assets (continued)

Public Agency 4 th Level	June 30, 2023	June 30, 2024
Beginning Balance	\$157,027,464	\$ 154,622,524
Contributions (Employer and Employee) Received During Fiscal Year	3,921,869	6,640,958
Benefit Payments During Fiscal Year	(13,678,612)	(14,191,027)
Net Transfer of Assets Into and Out of this Pool	0	252,595
Investment Earnings Credited	7,351,803	11,990,203
Ending Balance	\$154,622,524	\$ 159,315,252

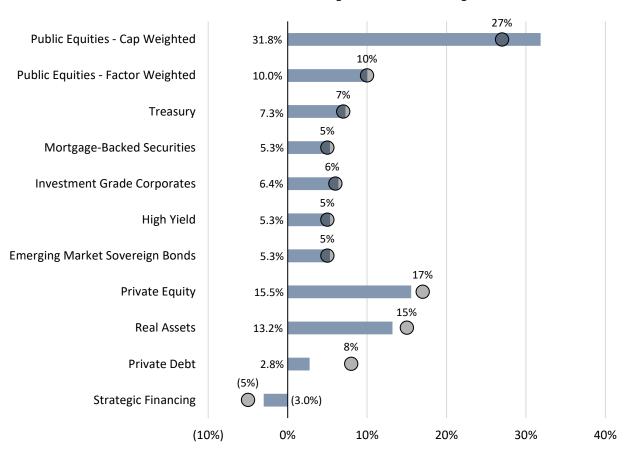
Public Agency Indexed Level	June 30, 2023	June 30, 2024
Beginning Balance	\$29,314,086	\$ 29,793,115
Contributions (Employer and Employee) Received During Fiscal Year	362,698	772,985
Benefit Payments During Fiscal Year	(1,409,264)	(1,674,788)
Net Transfer of Assets Into and Out of this Pool	0	0
Investment Earnings Credited	1,525,595	2,567,789
Ending Balance	\$29,793,115	\$ 31,459,101

Asset Allocation

CalPERS adheres to an Asset Allocation Strategy which establishes asset class allocation policy targets and ranges and manages those asset class allocations within their policy ranges. CalPERS Investment Belief No. 6 recognizes that strategic asset allocation is the dominant determinant of portfolio risk and return.

The asset allocation shown below reflects the allocation of the Public Employees' Retirement Fund (PERF) in its entirety. The assets for the 1959 Survivor Benefit Program are a subset of the PERF and are invested accordingly.

On March 20, 2024, the board adopted changes to the strategic asset allocation. The new allocation was effective July 1, 2024. The asset allocation as of June 30, 2024, is shown below, along with the strategic asset allocation targets.

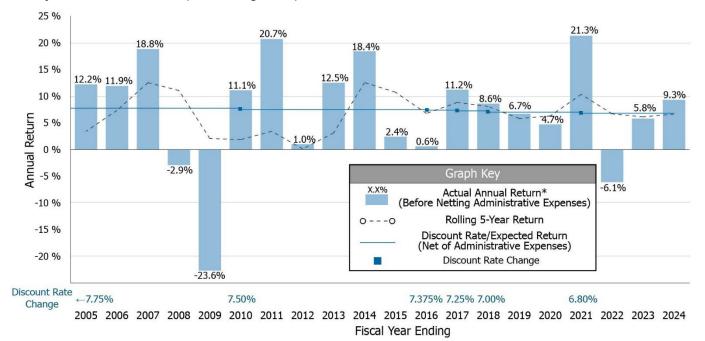


Current Allocation O Strategic Asset Allocation Target

For more information see the Trust Level Review as of June 30, 2024, which is available on the CalPERS website.

CalPERS History of Investment Returns

The following is a chart with 20 years of historical annual returns of the PERF for each fiscal year ending on June 30 as reported by the Investment Office. Investment returns reported are net of investment expenses but without reduction for administrative expenses. The assumed rate of return, however, is net of both investment and administrative expenses. Also, the Investment Office uses lagged private asset valuations for investment performance reporting purposes. This can lead to a timing difference in private asset contributions to performance in the returns below and those used for financial reporting purposes. The investment gain or loss calculation in this report relies on final assets that have been audited and are appropriate for financial reporting. Because of these differences, the effective investment return for funding purposes in a single year can be higher or lower than the return reported by the Investment Office shown here.



History of Investment Returns (2005 through 2024)

* As reported by the Investment Office with lagged private valuations and without any reduction for administrative expenses.

The table below shows annualized investment returns of the PERF for various time periods ending on June 30, 2024. These returns are the annual rates that if compounded over the indicated number of years would equate to the actual time-weighted investment performance of the PERF. It should be recognized that the annual rate of return is volatile, as the chart above illustrates, so when looking at investment returns, it is informative to look at returns over longer time horizons.

PERF Realized Rates of Return as of June 30, 2024					
1 year 3 year 5 year 10 year 20 year 30 year					
9.3%	2.8%	6.6%	6.2%	6.7%	7.7%

Liabilities and Funding Requirements

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Key Results

Key results of the current and prior valuations are shown below.

Rey results of the current and phot valuations are shown below.		
State 5th Level	June 30, 2023	June 30, 2024
Covered Active Members	74,885	76,176
Over the set of a disc the Malue first		
Survivors Included in the Valuation	001	260
Deferred (eligible, but not currently receiving benefits)	281	269
Receiving Benefits	1,406	1,427
Total	1,687	1,696
Accrued Liabilities	\$152,615,077	\$153,785,899
Market Value of Assets (MVA)	120,264,494	127,171,416
Unfunded Liability/(Excess Assets)	32,350,583	26,614,483
Required Employer Monthly Premium Per Member		
Before Amortization of Unfunded Liability/(Excess Assets)	\$9.10	\$8.70
After Amortization of Unfunded Liability/(Excess Assets)	13.20	12.40
After Employer/Employee Premium Sharing	6.60	6.20
Alter Employer/Employee i remitin Sharing	0.00	0.20
Funded Ratio	78.8%	82.7%
Schools 5 th Level	June 30, 2023	June 30, 2024
Schools 5 th Level Covered Active Members	June 30, 2023 10,815	June 30, 2024 11,148
Covered Active Members		
Covered Active Members Survivors Included in the Valuation	10,815	11,148
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits)	10,815	11,148
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits	10,815 17 147	11,148 21 140
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits)	10,815	11,148
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits	10,815 17 147	11,148 21 140
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total	10,815 17 147 164	11,148 21 <u>140</u> 161
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities	10,815 17 147 164 \$14,282,181	11,148 21 140 161 \$14,059,937
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities Market Value of Assets (MVA) Unfunded Liability/(Excess Assets)	10,815 17 147 164 \$14,282,181 102,193,009	11,148 21 140 161 \$14,059,937 110,559,351
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities Market Value of Assets (MVA) Unfunded Liability/(Excess Assets) Required Employer Monthly Premium Per Member	10,815 17 147 164 \$14,282,181 102,193,009 (87,910,828)	11,148 21 140 161 \$14,059,937 110,559,351 (96,499,414)
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities Market Value of Assets (MVA) Unfunded Liability/(Excess Assets) Required Employer Monthly Premium Per Member Before Amortization of Unfunded Liability/(Excess Assets)	10,815 17 147 164 \$14,282,181 102,193,009 (87,910,828) \$6.30	11,148 21 140 161 \$14,059,937 110,559,351 (96,499,414) \$6.40
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities Market Value of Assets (MVA) Unfunded Liability/(Excess Assets) Required Employer Monthly Premium Per Member Before Amortization of Unfunded Liability/(Excess Assets) After Amortization of Unfunded Liability/(Excess Assets)	10,815 17 147 164 \$14,282,181 102,193,009 (87,910,828) \$6.30 0.00	11,148 21 140 161 \$14,059,937 110,559,351 (96,499,414) \$6.40 0.00
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities Market Value of Assets (MVA) Unfunded Liability/(Excess Assets) Required Employer Monthly Premium Per Member Before Amortization of Unfunded Liability/(Excess Assets)	10,815 17 147 164 \$14,282,181 102,193,009 (87,910,828) \$6.30	11,148 21 140 161 \$14,059,937 110,559,351 (96,499,414) \$6.40
Covered Active Members Survivors Included in the Valuation Deferred (eligible, but not currently receiving benefits) Receiving Benefits Total Accrued Liabilities Market Value of Assets (MVA) Unfunded Liability/(Excess Assets) Required Employer Monthly Premium Per Member Before Amortization of Unfunded Liability/(Excess Assets) After Amortization of Unfunded Liability/(Excess Assets)	10,815 17 147 164 \$14,282,181 102,193,009 (87,910,828) \$6.30 0.00	11,148 21 140 161 \$14,059,937 110,559,351 (96,499,414) \$6.40 0.00

Key Results (continued)

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Public Agency 1 st Level	June 30, 2023	June 30, 2024
Covered Active Members	6,797	6,879
Survivors Included in the Valuation		
Deferred (eligible, but not currently receiving benefits)	23	24
Receiving Benefits	103	98
Total	126	122
A	¢0 700 000	
Accrued Liabilities	\$2,708,326	\$2,552,168
Market Value of Assets (MVA)	68,946,830	75,315,322
Unfunded Liability/(Excess Assets)	(66,238,504)	(72,763,154)
Required Employer Monthly Premium Per Member		
Total Premium Required	\$1.40	\$1.40
Premium Required After Employee Contributions	0.00	0.00
Employer Premium After Amortization of Unfunded Liability/(Excess Assets)	0.00	0.00
	0.00	0.00
Funded Ratio	2,545.7%	2,951.0%
	,	
Duk Pa Anna an Ond Land	I	I
Public Agency 2 nd Level	June 30, 2023	June 30, 2024
Covered Active Members	4,399	4,498
Survivors Included in the Valuation		
Deferred (eligible, but not currently receiving benefits)	15	12
Receiving Benefits	69	74
Total	84	86
10(4)	04	00
Accrued Liabilities	\$2,160,126	\$2,200,586
Market Value of Assets (MVA)	15,679,218	16,771,258
Unfunded Liability/(Excess Assets)	(13,519,092)	(14,570,672)
		(, , ,
Required Employer Monthly Premium Per Member		
Total Premium Required	\$1.80	\$1.70
Premium Required After Employee Contributions	0.00	0.00
Employer Premium After Amortization of Unfunded Liability/(Excess Assets)	0.00	0.00
	705 00/	700 40/
Funded Ratio	725.8%	762.1%
Public Agency 3 rd Level	June 30, 2023	June 30, 2024
Covered Active Members	49,081	51,832
Survivors Included in the Valuation		
Deferred (eligible, but not currently receiving benefits)	159	154
Receiving Benefits	628	658
Total	787	812
Accrued Liabilities	\$31,365,075	¢20 700 902
Market Value of Assets (MVA)	148,164,721	\$32,729,893
	(116,799,646)	160,454,199 (127,724,306)
Unfunded Liability/(Excess Assets)	(110,799,040)	(127,724,300)
Required Employer Monthly Premium Per Member		
Total Premium Required	\$2.80	\$2.70
Premium Required After Employee Contributions	0.80	0.70
Employer Premium After Amortization of Unfunded Liability/(Excess Assets)	0.00	0.00
	0.00	0.00
Funded Ratio	472.4%	490.2%

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Key Results (continued)

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Public Agency 4 th Level	June 30, 2023	June 30, 2024
Covered Active Members	75,949	78,677
Survivors Included in the Valuation		
	176	175
Deferred (eligible, but not currently receiving benefits)	176	175
Receiving Benefits	1,076	1,095
Total	1,252	1,270
Accrued Liabilities	\$149,612,700	\$150,896,962
Market Value of Assets (MVA)	154,622,524	159,315,252
Unfunded Liability/(Excess Assets)	(5,009,824)	(8,418,290)
Required Employer Monthly Premium Per Member		
Total Premium Required	\$7.90	\$7.70
Premium Required After Employee Contributions	5.90	5.70
Employer Premium After Amortization of Unfunded Liability/(Excess Assets)	5.80	5.20
Funded Ratio	103.3%	105.6%
	100.070	100.070
Dublic Ageney Indexed Level	lune 20, 2022	June 30, 2024
Public Agency Indexed Level	June 30, 2023	June 30, 2024
Covered Active Members	40.040	40 740
Counts	12,312	12,746
Average Attained Age	41.15	40.99
Average Years of Credited Service	9.01	8.77
Survivors Included in the Valuation		
Deferred (eligible, but not currently receiving benefits)	22	24
Receiving Benefits	115	120
Total	137	144
Accrued Liabilities	\$21,497,855	\$22,659,024
Market Value of Assets (MVA)	29,793,115	31,459,101
Unfunded Liability/(Excess Assets)	(8,295,260)	(8,800,077)
Required Employer Monthly Premium Per Member		A (A = T
Before Amortization of Unfunded Liability/(Excess Assets)	\$9.80	\$10.00
After Amortization of Unfunded Liability/(Excess Assets)	5.90	6.00
After Employer/Employee Premium Sharing	2.95	3.00
Funded Ratio	138.6%	138.8%
	100.070	100.070

Development of Normal Costs

The following six tables show the development of the Normal Cost using the Modified Term Method. The Normal Cost is developed using the historical present value of future benefits arising from deaths that occurred in the given year. These values are divided by the number of members in the given year and weighted by percentages listed below. Please see Appendix A -Actuarial Methods and Assumptions for more details.

State 5th Level Pool

	Present Value of			Normal Cost
Year	Future Benefits (PVB)	Members	Weight	(PVB / Members / 12)
2014	\$6,781,756	72,848	1%	\$7.76
2015	6,638,184	74,372	3%	7.44
2016	7,552,847	75,782	5%	8.31
2017	5,716,168	76,638	7%	6.22
2018	4,066,199	77,362	9%	4.38
2019	6,956,100	78,011	11%	7.43
2020	8,394,269	78,713	13%	8.89
2021	11,337,991	76,995	15%	12.27
2022	11,326,652	75,812	17%	12.45
2023	6,018,234	74,885	19%	6.70
Final Weighted Average Normal Cost				\$8.70

Schools 5th Level Pool

	Present Value of			Normal Cost
Year	Future Benefits (PVB)	Members	Weight	(PVB / Members / 12)
2014	\$356,592	10,287	1%	\$2.89
2015	693,955	10,490	3%	5.51
2016	200,586	10,259	5%	1.63
2017	874,049	10,557	7%	6.90
2018	979,346	10,894	9%	7.49
2019	1,207,548	11,190	11%	8.99
2020	207,912	11,219	13%	1.54
2021	995,922	10,413	15%	7.97
2022	1,054,050	10,390	17%	8.45
2023	767,795	10,815	19%	5.92
Final Weighted Average Normal Cost				\$6.40

Public Agencies 1st Level Pool

	Present Value of			Normal Cost
Year	Future Benefits (PVB)	Members	Weight	(PVB / Members / 12)
2014	\$1,771,714	132,024	1%	\$1.12
2015	1,870,607	134,879	3%	1.16
2016	2,177,004	139,581	5%	1.30
2017	2,300,250	141,063	7%	1.36
2018	2,167,085	140,339	9%	1.29
2019	1,935,701	141,374	11%	1.14
2020	2,013,690	141,081	13%	1.19
2021	2,942,713	139,036	15%	1.76
2022	2,937,211	142,364	17%	1.72
2023	2,257,174	148,538	19%	1.27
Final Weighted Average Normal Cost				\$1.40

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Development of Normal Costs (continued)

Public Agencies 2nd Level Pool

I UDIIC AGEIICIES Z LEVEII O				
	Present Value of			Normal Cost
Year	Future Benefits (PVB)	Members	Weight	(PVB / Members / 12)
2014	\$2,215,157	132,024	1%	\$1.40
2015	2,338,658	134,879	3%	1.44
2016	2,721,826	139,581	5%	1.62
2017	2,875,981	141,063	7%	1.70
2018	2,709,721	140,339	9%	1.61
2019	2,420,041	141,374	11%	1.43
2020	2,517,912	141,081	13%	1.49
2021	3,679,273	139,036	15%	2.21
2022	3,672,238	142,364	17%	2.15
2023	2,822,116	148,538	19%	1.58
Final Weighted Average Normal Cost				\$1.70

Final Weighted Average Normal Cost

Public Agencies 3rd Level Pool

	Present Value of			Normal Cost
Year	Future Benefits (PVB)	Members	Weight	(PVB / Members / 12)
2014	\$3,448,999	132,024	1%	\$2.18
2015	3,640,399	134,879	3%	2.25
2016	4,237,503	139,581	5%	2.53
2017	4,477,909	141,063	7%	2.65
2018	4,220,505	140,339	9%	2.51
2019	3,767,090	141,374	11%	2.22
2020	3,921,728	141,081	13%	2.32
2021	5,728,804	139,036	15%	3.43
2022	5,716,879	142,364	17%	3.35
2023	4,393,991	148,538	19%	2.47
Final Weighted Average Normal Cost				\$2.70

Public Agencies 4th Level Pool

	Present Value of			Normal Cost
Year	Future Benefits (PVB)	Members	Weight	(PVB / Members / 12)
2014	\$9,687,436	132,024	1%	\$6.11
2015	10,319,088	134,879	3%	6.38
2016	12,032,521	139,581	5%	7.18
2017	12,656,392	141,063	7%	7.48
2018	11,865,928	140,339	9%	7.05
2019	10,773,469	141,374	11%	6.35
2020	11,045,518	141,081	13%	6.52
2021	16,285,043	139,036	15%	9.76
2022	16,113,051	142,364	17%	9.43
2023	12,444,227	148,538	19%	6.98
Final Weighted Average Normal Cost				\$7.70

Development of Funding Requirements

The following table develops the annual premiums required for fiscal year 2025-26 for the State 5th and Schools 5th Level pools.

		<u> </u>
June 30, 2024	State 5 th Level	Schools 5 th Level
1) Development of Unfunded Liability		
a) Present Value of Future Benefits for Current Survivors as of 6/30/2024	\$151,751,899	\$13,609,937
b) Reserve for Unclaimed Benefits as of 6/30/2024	2,034,000	450,000
c) Total Accrued Liabilities as of 6/30/2024 [(1a) + (1b)]	153,785,899	14,059,937
d) Market Value of Assets as of 6/30/2024	127,171,416	110,559,351
e) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(1c) - (1d)]	\$26,614,483	(\$96,499,414)
2) Development of Normal Cost		
a) Total Per Member, Per Month 2024-25 Term Insurance Normal Cost	¢0.70	¢c 40
rounded to the nearest \$0.10	\$8.70	\$6.40
3) 2025 Projected Unfunded Liability		
a) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(1e)]	\$26,614,483	(\$96,499,414)
b) Projected Normal Cost Contributions with Interest 7/1/2024 – 6/30/2025	8,452,595	843,784
c) Projected UAL Payment 7/1/2024 – 6/30/2025	3,398,147	(843,784)
d) Projected Required Contributions 7/1/2024 – 6/30/2025 [(3b) + (3c)]	11,850,742	Ú Ú
e) Projected Employee Contributions 7/1/2024 – 6/30/2025	5,932,080	259,200
f) Changes in Contributions due to Contribution (Gain)/Loss ¹	428,424	(39,686)
g) Excess Assets due to Employee Contributions [maximum, (\$0, (3e) - (3d))]	0	259,200
h) Projected UAL/(Excess Assets) as of 6/30/2025 [(3a) * 1.068 - ((3c) + (3f) + (3g)) * 1.0681/2]	\$24,469,733	(\$102,416,228)
4) Required Contribution	¢0.70	¢C 40
a) Required Normal Cost Per Member, Per Month [(2a)]	\$8.70	\$6.40
b) Projected Active Members as of 6/30/2025	76,200	11,100
c) Required Normal Cost Contribution [(4a) * (4b) * 12 * (1.068) ^{1/2}]	\$8,221,311	\$880,988 (880,088)
 d) Amortization of the UAL/(Excess Assets)² e) Total Required Contributions [(4c) + (4d)] 	3,152,899	(880,988) 0
f) Required Contributions Per Member, Per Month	11,374,210 \$12.40	\$0.00
[(4e) / (4b) / 12], rounded to the nearest \$0.10	φ12.40	φ0.00
g) Amortization Period	See Table on Pg. 20	30 voor
g/ Amonization 1 chou	See Table Of Fg. 20	30-year
5) 2025-26 Required Employer and Employee Premiums with Cost Sharing Provision		
a) Required Employee Premium Per Member, Per Month [maximum, (\$2, (4f) / 2)]	\$6.20	\$2.00
b) Required Employer Premium Per Member, Per Month [maximum, (\$0, (4f) - (5a))]	6.20	0.00

This reflects differences in calculated Normal Costs from the prior year and the current year, as well as differences in actual and estimated member counts.
 See amortization schedule on Page 20.

Development of Funding Requirements (continued)

The following table develops the annual premiums required for fiscal year 2025-26 for the Public Agency 1st, 2nd, 3rd, and 4th Level pools.

pools.				
June 30, 2024	Public Agency 1 st Level	Public Agency 2 nd Level	Public Agency 3 rd Level	Public Agency 4 th Level
1) Development of Unfunded Liability				
a) Present Value of Future Benefits for Current Survivors as of 6/30/2024	\$2,483,048	\$2,084,486	\$32,137,693	\$147,967,162
b) Reserve for Unclaimed Benefits as of 6/30/2024	69,120	116,100	592,200	2,929,800
c) Total Accrued Liabilities as of 6/30/2024 [(1a) + (1b)]	2,552,168	2,200,586	32,729,893	150,896,962
d) Market Value of Assets as of 6/30/2024	75,315,322	16,771,258	160,454,199	159,315,252
e) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024	(\$72,763,154)	(\$14,570,672)	(\$127,724,306)	(\$8,418,290)
[(1c) - (1d)]				
2) Development of Normal Cost				
a) Total Per Member, Per Month 2024-25 Term Insurance Normal Cost				
rounded to the nearest \$0.10	\$1.40	\$1.70	\$2.70	\$7.70
3) 2025 Projected Unfunded Liability	(#70,700,454)	(\$44,570,070)	(\$407 704 000)	(\$0.440.000)
a) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(1e)]	(\$72,763,154)	(\$14,570,672)	(\$127,724,306)	(\$8,418,290)
 b) Projected Normal Cost Contributions with Interest 7/1/2024 – 6/30/2025 	118,060	98,218	1,704,929	7,435,938
c) Projected UAL Payment 7/1/2024 – 6/30/2025	(118,060)	(98,218)	(1,704,929)	(343,672)
d) Projected Required Contributions 7/1/2024 – 6/30/2025 [(3b) + (3c)]	0	0	0	7,092,266
e) Projected Employee Contributions 7/1/2024 – 6/30/2025	163,200	105,600	1,178,400	1,821,600
f) Changes in Contributions due to Contribution (Gain)/Loss ¹	(1,327)	3,281	(29,597)	185,492
g) Excess Assets due to Employee Contributions	163,200	105,600	1,178,400	0
[maximum, (\$0, (3e) - (3d))]				
h) Projected UAL/(Excess Assets) as of 6/30/2025	(\$77,756,326)	(\$15,572,497)	(\$135,834,835)	(\$8,827,264)
[(3a) * 1.068 - ((3c) + (3f) + (3g)) * 1.068 ^{1/2}]				
4) Required Contribution				
a) Required Normal Cost Per Member, Per Month [(2c)]	\$1.40	\$1.70	\$2.70	\$7.70
b) Projected Active Members as of 6/30/2025	6,900	4,500	51,800	78,700
c) Required Normal Cost Contribution [(4a) * (4b) * 12 * (1.068) ^{1/2}]	\$119,796	\$94,870	\$1,734,444	\$7,515,058
d) Amortization of the UAL/(Excess Assets)	(119,796)	(94,870)	(1,734,444)	(674,561)
e) Total Required Contributions [(4c) + (4d)]	0	0	0	6,840,497
f) Required Contributions Per Member, Per Month	\$0.00	\$0.00	\$0.00	\$7.20
[(4e) / (4b) / 12], rounded to the nearest \$0.10				
g) Amortization Period	30-year	30-year	30-year	30-year
5) 2025-26 Required Employer/Employee Premiums				
a) Required Employee Premium Per Member, Per Month [\$2]	\$2.00	\$2.00	\$2.00	\$2.00
 b) Required Employer Premium Per Member, Per Month [maximum, (\$0, (4f) - (5a))] 	0.00	0.00	0.00	5.20

(1) This reflects differences in calculated Normal Costs from the prior year and the current year, as well as differences in actual and estimated member counts.

Development of Funding Requirements (continued)

The following table develops the annual premiums required for fiscal year 2025-26 for the Public Agency Indexed Level pool.

June 30, 2024	Public Agency Indexed Level
1) Development of Unfunded Liability	
a) Present Value of Future Benefits for Current Survivors as of 6/30/2024	\$18,407,040
b) Present Value of Future Benefits for Active Members as of 6/30/2024	15,600,623
c) Reserve for Unclaimed Benefits as of 6/30/2024	0
d) Total Present Value of Future Benefits as of 6/30/2024 [(1a) + (1b)]	34,007,663
e) Present Value of Future Normal Costs as of 6/30/2024	11,348,639
f) Total Accrued Liabilities as of 6/30/2024 [(1c) + (1d) - (1e)]	22,659,024
g) Market Value of Assets as of 6/30/2024	31,459,101
h) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(1f) - (1g)]	(\$8,800,077)
2) Development of Normal Cost	
a) Required Entry Age Normal Cost	\$1,522,089
b) Active Members as of 6/30/2024	12,746
c) Total Per Member, Per Month 2024-25 Entry Age Normal Cost	10.00
[(2a) / (2b) / 12], rounded to the nearest \$0.10	
3) 2025 Projected Unfunded Liability	
a) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(1h)]	(\$8,800,077)
b) Projected Normal Cost Contributions with Interest 7/1/2024 - 6/30/2025	1,494,852
c) Projected UAL Payment 7/1/2024 – 6/30/2025	(623,256)
d) Projected Required Contributions 7/1/2024 – 6/30/2025 [(3b) + (3c)]	871,596
e) Projected Employee Contributions 7/1/2024 – 6/30/2025	435,420
f) Changes in Contributions due to Contribution (Gain)/Loss ¹	(51,463)
g) Excess Assets due to Employee Contributions [maximum, (\$0, (3e) - (3d))]	0
h) Projected UAL/(Excess Assets) as of 6/30/2025 [(3a) * 1.068 - ((3c) + (3f) + (3g)) * 1.0681/2]	(\$8,701,200)
4) Required Contribution	
a) Required Normal Cost Per Member, Per Month [(2c)]	\$10.00
b) Projected Active Members as of 6/30/2025	12,700
c) Required Normal Cost Contribution [(4a) * (4b) * 12 * (1.068) ^{1/2}]	\$1,574,964
d) Amortization of the UAL/(Excess Assets)	(664,928)
e) Total Required Contributions [(4c) + (4d)]	910,036
f) Required Contributions Per Member, Per Month [(4e) / (4b) / 12], rounded to the nearest \$0.10	\$6.00
g) Amortization Period	30-year
5) 2025-26 Required Employer and Employee Premiums with Cost Sharing Provision	
a) Required Employee Premium Per Member, Per Month [maximum (\$2, (4f) / 2)]	\$3.00
b) Required Employer Premium Per Member, Per Month [maximum (\$0, (4f) - (5a))]	3.00

(1) This reflects differences in calculated Normal Costs from the prior year and the current year, as well as differences in actual and estimated member counts.

Schedule of Amortization Bases

The schedule below shows the development of the required payments on the amortization bases in accordance with the Amortization Policy. In order to better achieve the objectives of the Amortization Policy, such as mitigating contribution volatility, a Fresh Start of the total UAL over a 15-year period was established in the June 30, 2022 actuarial valuation.

State 5th Level Pool

								Projected	
	Date	Ramp Level	Ramp	Remaining	Original	Balance	Payment	Balance	Payment
	Established	2025-26	Shape	Period	Period	6/30/2024	2024-25	6/30/2025	2025-26
Fresh Start	06/30/2022		No Ramp	13	15	\$34,303,474	\$3,750,109	\$32,760,594	\$3,750,109
Investment (Gain)/Loss	06/20/2023	40%	Up Only	19	20	1,417,030	30,459	1,481,910	60,917
Non-Investment (Gain)/Loss	06/20/2023		No Ramp	19	20	(4,252,733)	(382,421)	(4,146,709)	(382,421)
Investment (Gain)/Loss	06/20/2024	20%	Up Only	20	20	(3,150,015)	0	(3,364,216)	(72,313)
Non-Investment (Gain)/Loss	06/20/2024		No Ramp	20	20	(1,703,273)	428,424	(2,261,846)	(203,393)
Total					_	\$26,614,483	\$3,826,571	\$24,469,733	\$3,152,899

(Gain)/Loss Analysis 6/30/2023 - 6/30/2024

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

	State 5 th Level	Schools 5 th Level
1) Prior Year Unfunded Accrued Liability/(Excess Assets) Development		
a) Accrued Liability as of 6/30/2023	\$152,615,077	\$14,282,181
b) Market Value of Assets as of 6/30/2023	120,264,494	102,193,009
c) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2023 [(1a) - (1b)]	\$32,350,583	(\$87,910,828)
Development of Projected Unfunded Accrued Liability/(Excess Assets) for 6/30/2024		
a) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2023 [(1c)]	\$32,350,583	(\$87,910,828)
 b) Projected Unfunded Accrued Liability/(Excess Assets) Payment with Interest 7/1/2023 – 6/30/2024¹ 	2,982,901	(591,802)
c) Projected Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(2a) * 1.068 - (2b) * 1.068 ^{1/2}]	31,467,771	(93,277,172)
3) Development of Projected Assets		
a) Market Value of Assets as of 6/30/2023	\$120,264,494	\$102,193,009
b) Net Cash Flows 7/1/2023 – 6/30/2024	(4,278,018)	(1,184,665)
c) Net Transfer of Assets Into and Out of this Pool	(4,270,010)	(1,104,000)
d) Expected Assets as of 6/30/2024 [(3a) * 1.068 + ((3b) + (3c)) * 1.068 ^{1/2}]	\$124,021,401	\$107,917,852
	<u> </u>	<u> </u>
4) Current Year Unfunded Liability/(Excess Assets) Development		
a) Accrued Liability as of 6/30/2024	\$153,785,899	\$14,059,937
b) Market Value of Assets as of 6/30/2024	127,171,416	110,559,351
c) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(4a) - (4b)]	\$26,614,483	(\$96,499,414)
5) Development of (Gain)/Loss due to changes in Reserve for Unclaimed Benefits		
a) Reserve for Unclaimed Benefits as of 6/30/2023	\$1,854,000	\$414,000
b) Reserve for Unclaimed Benefits as of 6/30/2024	2,034,000	450,000
,		
c) (Gain)/Loss due to changes in Reserve for Unclaimed Benefits [(5b) - (5a)]	180,000	36,000
6) (Gain)/Loss for the Period of 6/30/2023 – 6/30/2024		
a) Total (Gain)/Loss [(4c) - (2c)]	(\$4,853,288)	(\$3,222,242)
b) Investment (Gain)/Loss [(3d) - (4b)]	(3,150,015)	(2,641,499)
c) (Gain)/Loss due to changes in Reserve for Unclaimed Benefits [(5c)]	180,000	36,000
d) Non-Investment (Gain)/Loss [(6a) - (6b) - (6c)]	(1,883,273)	(616,743)

(1) Includes payment gain/loss due to changes in Normal Costs, as well as differences in actual and estimated member counts.

(Gain)/Loss Analysis 6/30/2023 - 6/30/2024 (continued)

	Public Agency 1 st Level	Public Agency 2 nd Level	Public Agency 3 rd Level	Public Agency 4 th Level
1) Prior Year Unfunded Accrued Liability/(Excess Assets) Development				
a) Accrued Liability as of 6/30/2023	\$2,708,326	\$2,160,126	\$31,365,075	\$149,612,700
b) Market Value of Assets as of 6/30/2023	68,946,830	15,679,218	148,164,721	154,622,524
c) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2023 [(1a) - (1b)]	(\$66,238,504)	(\$13,519,092)	(\$116,799,646)	(\$5,009,824)
2) Development of Projected Unfunded Accrued Liability/(Excess Assets) for 6/30/2024				
a) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2023 [(1c)]	(\$66,238,504)	(\$13,519,092)	(\$116,799,646)	(\$5,009,824)
b) Projected Unfunded Accrued Liability/(Excess Assets) Payment with Interest 7/1/2023 – 6/30/2024¹	42,846	2,916	(588,087)	(825,621)
c) Projected Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024	(70,787,002)	(14,441,404)	(124,134,269)	(4,497,262)
[(2a) * 1.068 - (2b) * 1.068 ^{1/2}]	(10,101,002)	(14,441,404)	(124,154,209)	(4,497,202)
3) Development of Projected Assets				
a) Market Value of Assets as of 6/30/2023	\$68,946,830	\$15,679,218	\$148,164,721	\$154,622,524
b) Net Cash Flows 7/1/2023 – 6/30/2024	(96,340)	(109,270)	(1,547,026)	(7,550,069)
c) Net Transfer of Assets Into and Out of this Pool	0	(252,595)	0	252,595
d) Expected Assets as of 6/30/2024 [(3a) * 1.068 + ((3b) + (3c)) * 1.0681/2]	\$73,535,653	\$16,371,439	\$156,641,162	\$157,595,347
4) Current Year Unfunded Liability/(Excess Assets) Development	¢0 550 400		¢00 700 000	\$450 000 000
a) Accrued Liability as of 6/30/2024	\$2,552,168	\$2,200,586	\$32,729,893	\$150,896,962
b) Market Value of Assets as of 6/30/2024	75,315,322	16,771,258	160,454,199	159,315,252
c) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(4a) - (4b)]	(\$72,763,154)	(\$14,570,672)	(\$127,724,306)	(\$8,418,290)
5) Development of (Gain)/Loss due to changes in the Reserve for Unclaimed Benefits				
a) Reserve for Unclaimed Benefits as of 6/30/2023	\$56,160	\$108,000	\$550,200	\$2,052,000
b) Reserve for Unclaimed Benefits as of 6/30/2024	69,120	116,100	592,200	2,929,800
, c) (Gain)/Loss due to changes in Reserve for Unclaimed Benefits [(5b) - (5a)]	12,960	8,100	42,000	877,800
6) (Gain)/Loss for the Period of 6/30/2023 – 6/30/2024	(04.070.470)		(40 500 00-)	(\$0.004.000)
a) Total (Gain)/Loss [(4c) - (2c)]	(\$1,976,152)	(\$129,268)	(\$3,590,037)	(\$3,921,028)
b) Investment (Gain)/Loss [(3d) - (4b)]	(1,779,669)	(399,819)	(3,813,037)	(1,719,905)
c) (Gain)/Loss due to changes in Reserve for Unclaimed Benefits [(5c)]	12,960	8,100	42,000	877,800
d) Non-Investment (Gain)/Loss [(6a) - (6b) - (6c)]	(209,443)	262,451	181,000	(3,078,923)

(1) Includes payment gain/loss due to changes in Normal Costs, as well as differences in actual and estimated member counts.

(Gain)/Loss Analysis 6/30/2023 - 6/30/2024 (continued)

	Public Agency Indexed Level
1) Prior Year Unfunded Accrued Liability/(Excess Assets) Development	
a) Accrued Liability as of 6/30/2023	\$21,497,855
b) Market Value of Assets as of 6/30/2023	29,793,115
c) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2023 [(1a) - (1b)]	(\$8,295,260)
2) Development of Projected Unfunded Accrued Liability/(Excess Assets) for 6/30/2024	
a) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2023 [(1c)]	(\$8,295,260)
b) Projected Unfunded Accrued Liability/(Excess Assets) Payment with Interest	(680,692)
$7/1/2023 - 6/30/2024^{1}$	(000,002)
c) Projected Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(2a) * 1.068 - (2b) * 1.068 ^{1/2}]	(8,155,883)
3) Development of Projected Assets	
a) Market Value of Assets as of 6/30/2023	\$29,793,115
b) Net Cash Flows 7/1/2023 – 6/30/2024	(901,803)
c) Net Transfer of Assets Into and Out of this Pool	0
d) Expected Assets as of 6/30/2024 [(3a) * 1.068 + ((3b) + (3c)) * 1.068 ^{1/2}]	\$30,887,087
4) Current Year Unfunded Liability/(Excess Assets) Development	
a) Accrued Liability as of 6/30/2024	\$22,659,024
b) Market Value of Assets as of 6/30/2024	31,459,101
c) Unfunded Accrued Liability/(Excess Assets) as of 6/30/2024 [(4a) - (4b)]	(\$8,800,077)
5) Development of (Gain)/Loss due to changes in the Reserve for Unclaimed Benefits	
a) Reserve for Unclaimed Benefits as of 6/30/2023	\$0
b) Reserve for Unclaimed Benefits as of 6/30/2024	0
c) (Gain)/Loss due to changes in Reserve for Unclaimed Benefits [(5b) - (5a)]	0
6) (Gain)/Loss for the Period of 6/30/2023 – 6/30/2024	(*******
a) Total (Gain)/Loss [(4c) - (2c)]	(\$644,194)
b) Investment (Gain)/Loss [(3d) - (4b)]	(572,014)
c) (Gain)/Loss due to changes in Reserve for Unclaimed Benefits [(5c)]	(72,180)
d) Non-Investment (Gain)/Loss [(6a) - (6b) - (6c)]	(72,180)

(1) Includes payment gain/loss due to changes in Normal Costs, as well as differences in actual and estimated member counts.

Risk Analysis

- 24 Future Investment Return Scenarios
- 25 Discount Rate Sensitivity
- 26 Mortality Rate Sensitivity
- 27 Funded Status Low-Default-Risk 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 CalPERS <u>Funding Risk</u> <u>Mitigation Policy</u> stipulates that when the investment return exceeds the discount rate by at least 2% the board will consider adjustments to the discount rate. The projections below use a discount rate of 6.8% for all scenarios even though an annual return of 30.8% is high enough to trigger a board discussion on the discount rate. 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 portfolio has an expected volatility (or standard deviation) of 12.0% per year. Accordingly, in any given year there is a 2.5% probability that the annual return will be -17.2% or less, or 30.8% or more. These returns represent two standard deviations below and above the expected return of 6.8%.

The following tables show the effect of an annual return of -17.2% and 30.8% in fiscal year 2024-25 on the fiscal year 2026-27 employer and employee contributions. Note that for the State 5th Level, 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 fiscal year 2026-27.

- -17.2% investment return (2 standard deviation loss)
- 6.8% investment return
- 30.8% investment return (2 standard deviation gain)

The tables below show fiscal year 2026-27 projected employee and employer contributions under the investment return scenarios mentioned above.

6.8% Return

		0.0 /0 Return		
2026-27 Employer Monthly Premium	2026-27 Employee Monthly Premium			
\$6.55	\$6.55	State 5th Level	\$6.20	\$6.20
0.00	2.00	Schools 5 th Level	0.00	2.00
0.00	2.00	PA 1 st Level	0.00	2.00
0.00	2.00	PA 2 nd Level	0.00	2.00
0.00	2.00	PA 3 rd Level	0.00	2.00
6.60	2.00	PA 4 th Level	5.30	2.00
4.90	4.90	PA Indexed Level	3.00	3.00
	Monthly Premium \$6.55 0.00 0.00 0.00 0.00 6.60	Monthly Premium Monthly Premium \$6.55 \$6.55 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 2.00	2026-27 Employer Monthly Premium 2026-27 Employee Monthly Premium \$6.55 \$6.55 State 5 th Level 0.00 2.00 Schools 5 th Level 0.00 2.00 PA 1 st Level 0.00 2.00 PA 2 nd Level 0.00 2.00 PA 3 rd Level 0.00 2.00 PA 4 th Level	2026-27 Employer Monthly Premium 2026-27 Employee Monthly Premium 2026-27 Employee Monthly Premium \$6.55 \$6.55 State 5th Level \$6.20 0.00 2.00 Schools 5th Level 0.00 0.00 2.00 PA 1st Level 0.00 0.00 2.00 PA 2rd Level 0.00 0.00 2.00 PA 3rd Level 0.00 6.60 2.00 PA 4th Level 5.30

-17.2% Return

30.8% Return

	2026-27 Employer Monthly Premium	2026-27 Employee Monthly Premium
State 5 th Level	\$5.85	\$5.85
Schools 5 th Level	0.00	2.00
PA 1 st Level	0.00	2.00
PA 2 nd Level	0.00	2.00
PA 3 rd Level	0.00	2.00
PA 4 th Level	2.20	2.00
PA Indexed Level	0.20	2.00

Discount Rate Sensitivity

The following tables illustrate the sensitivity of the valuation results to the discount rate assumption. Shown below are fiscal year 2025-26 contributions assuming alternate discount rates of 5.8% and 7.8%. Those rates were selected since they illustrate the impact of a 1.0% increase or decrease to the current discount rate assumption of 6.8%.

5.8% Discount Rate (-1%)

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	\$7.25	\$7.25
Schools 5 th Level	0.00	2.00
PA 1 st Level	0.00	2.00
PA 2 nd Level	0.00	2.00
PA 3 rd Level	0.00	2.00
PA 4 th Level	7.30	2.00
PA Indexed Level	4.60	4.60

7.8% Discount Rate (+1%)

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	\$5.25	\$5.25
Schools 5th Level	0.00	2.00
PA 1 st Level	0.00	2.00
PA 2 nd Level	0.00	2.00
PA 3 rd Level	0.00	2.00
PA 4 th Level	3.40	2.00
PA Indexed Level	0.90	2.00

Increase in Contribution

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	\$1.05	\$1.05
Schools 5th Level	0.00	0.00
PA 1 st Level	0.00	0.00
PA 2 nd Level	0.00	0.00
PA 3 rd Level	0.00	0.00
PA 4 th Level	2.10	0.00
PA Indexed Level	1.60	1.60

Decrease in Contribution

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	(\$0.95)	(\$0.95)
Schools 5th Level	0.00	0.00
PA 1 st Level	0.00	0.00
PA 2 nd Level	0.00	0.00
PA 3 rd Level	0.00	0.00
PA 4 th Level	(1.80)	0.00
PA Indexed Level	(2.10)	(1.00)

Mortality Rate Sensitivity

The following tables illustrate the sensitivity of the valuation results to the mortality rate assumption. Shown below are fiscal year 2025-26 contributions assuming mortality rates that are 10% lower and 10% higher than the mortality tables used in the valuation. These mortality rates were only applied to individuals who were receiving a benefit or in a deferral status as of the valuation date. This analysis will give an indication of the potential required contributions if recipient mortality were to be 10% lower or 10% higher than expected over the long term.

Lower Mortality Rates (-10%)

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5 th Level	\$6.40	\$6.40
Schools 5 th Level	0.00	2.00
PA 1 st Level	0.00	2.00
PA 2 nd Level	0.00	2.00
PA 3 rd Level	0.00	2.00
PA 4 th Level	5.60	2.00
PA Indexed Level	3.10	3.10

Increase in Contribution

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	\$0.20	\$0.20
Schools 5th Level	0.00	0.00
PA 1 st Level	0.00	0.00
PA 2 nd Level	0.00	0.00
PA 3 rd Level	0.00	0.00
PA 4 th Level	0.40	0.00
PA Indexed Level	0.10	0.10

Higher Mortality Rate (+10%)

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	\$6.10	\$6.10
Schools 5 th Level	0.00	2.00
PA 1 st Level	0.00	2.00
PA 2 nd Level	0.00	2.00
PA 3 rd Level	0.00	2.00
PA 4 th Level	4.90	2.00
PA Indexed Level	2.85	2.85

Decrease in Contribution

	2025-26 Employer Monthly Premium	2025-26 Employee Monthly Premium
State 5th Level	(\$0.10)	(\$0.10)
Schools 5 th Level	0.00	0.00
PA 1 st Level	0.00	0.00
PA 2 nd Level	0.00	0.00
PA 3 rd Level	0.00	0.00
PA 4 th Level	(0.30)	0.00
PA Indexed Level	(0.15)	(0.15)

Funded Status – Low-Default-Risk Basis

Actuarial Standard of Practice (ASOP) No. 4, *Measuring Pension Obligations and Determining Pension Plan Costs or Contributions*, requires the disclosure of a low-default-risk obligation measure (LDROM) of benefit costs accrued as of the valuation date using a discount rate based on the yields of high-quality fixed income securities with cash flows that replicate expected benefit payments. Conceptually, this measure represents the level at which financial markets would value the accrued plan costs and would be approximately equal to the cost of a portfolio of low-default-risk bonds with similar financial characteristics to accrued plan costs.

As permitted in ASOP No. 4, the Actuarial Office uses the Term Insurance Method and the Entry Age Actuarial Cost Method to calculate the LDROM. As shown below, the discount rate used for the LDROM is 5.35%, which is the Standard FTSE Pension Liability Index¹ discount rate as of .

June 30, 2024	State 5 th Level	Schools 5 th Level	Public Agency 1 st Level	Public Agency 2 nd Level
Discount Rate	5.35%	5.35%	5.35%	5.35%
Selected Measures on a Low-Default-Risk Basis				
1) Accrued Liability – Low-Default-Risk Basis (LDROM)	\$174,930,279	\$15,831,421	\$2,902,742	\$2,473,054
2) Market Value of Assets (MVA)	127,171,416	110,559,351	75,315,322	16,771,258
 Unfunded Accrued Liability – Low-Default-Risk Basis [(1) – (2)] 	\$47,758,863	(\$94,727,930)	(\$72,412,580)	(\$14,298,204)
 Unfunded Accrued Liability – Funding Policy Basis 	26,614,483	(96,499,414)	(72,763,154)	(14,570,672)
5) Present Value of Unearned Investment Risk Premium [(3) – (4)]	\$21,144,380	\$1,771,484	\$350,574	\$272,468
	Public Agency	Public Agency	Public Agency	
			i ubilo / (gelloy	
June 30, 2024	3 rd Level	4 th Level	Indexed Level	
June 30, 2024 Discount Rate				
	3 rd Level	4 th Level	Indexed Level	
Discount Rate	3 rd Level	4 th Level	Indexed Level	
Discount Rate Selected Measures on a Low-Default-Risk Basis	3 rd Level 5.35%	4 th Level 5.35%	Indexed Level 5.35%	
Discount Rate Selected Measures on a Low-Default-Risk Basis 1) Accrued Liability – Low-Default-Risk Basis (LDROM)	3 rd Level 5.35% \$37,138,710	4 th Level 5.35% \$171,011,946	Indexed Level 5.35% \$26,858,159	
Discount Rate Selected Measures on a Low-Default-Risk Basis 1) Accrued Liability – Low-Default-Risk Basis (LDROM) 2) Market Value of Assets (MVA)	3 rd Level 5.35% \$37,138,710 160,454,199	4 th Level 5.35% \$171,011,946 159,315,252	Indexed Level 5.35% \$26,858,159 31,459,101	

The difference between the unfunded liabilities on a low-default-risk basis and on the funding policy basis represents the present value of the investment risk premium that must be earned in future years to keep future contributions for currently accrued plan costs at the levels anticipated by the funding policy.

Benefit security for members of the plan relies on a combination of the assets in the plan, the investment income generated from those assets, and the ability of the plan sponsor to make necessary future contributions. If future returns fall short of 6.8%, benefit security could be at risk for some plans without higher than currently anticipated future contributions.

The funded status on a low-default-risk basis is not appropriate for assessing the need for future contributions.

(1) This index is based on a yield curve of hypothetical AA-rated zero-coupon corporate bonds whose maturities range from 6 months to 30 years. The index represents the single discount rate that would produce the same present value as discounting a standardized set of liability cash flows for a fully open pension plan using the yield curve. The liability cash flows are reasonably consistent with the pattern of benefits expected to be paid from the entire Public Employees' Retirement Fund for current and former plan members. A different index, hence a different discount rate, may be needed to measure the LDROM for a subset of the fund, such as a single rate plan or a group of retirees.

Appendix A – Actuarial Methods and Assumptions

Actuarial Data

As stated in the Actuarial Certification, the data which serves as the basis of this valuation has been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate. We are unaware of any potential data issues that would have a material effect on the results of this valuation.

Actuarial Funding Method for Public Agency 1st, 2nd, 3rd, and 4th Level, and State and Schools 5th Level Pools

The actuarial funding method used, as provided in State statute for Public Agencies 1st, 2nd, 3rd, and 4th Level pools, and State and Schools 5th Level pools, is called the Term Insurance Method. This is a terminal funding arrangement with no pre-funding of the survivor benefits payable on account of deaths expected to occur beyond those in the coming year.

The Normal Cost for the year is equal to the Expected Claims (present value of benefits arising from deaths) that will occur in the coming fiscal year. The Expected Claims for the coming fiscal year are determined as the expected claim value divided by the expected member months for the coming fiscal year. The Normal Cost (or Expected Claims) per member, per month for the coming fiscal year is equal to a weighted average of ten years of Normal Costs. The Normal Cost (or Actual Claims divided by Actual Members) for each of the previous years are calculated as the Present Value of Benefits divided by the member counts. The ten years used in this calculation end one year before the valuation date. The most recent year is excluded, and the chart below shows the weights given to the years prior to and including the valuation year. This method attempts to mitigate Normal Cost volatility from year to year by phasing in the experience over a ten-year period. The Present Value of Benefits for current Survivors are recalculated each year, using the current assumptions. The reason for excluding the claims from the most recent year is that when new deaths occur each year, it is often unknown which benefit will ultimately apply (i.e., 1957 Survivor, Industrial Death, Pre-Retirement Option 2, or 1959 Survivor). Many times, new deaths are initially placed under the 1959 Survivor roll, but ultimately are reclassified to another roll sometime later. This can create extreme volatility in the Normal Cost calculation between valuation years, especially for smaller pools.

Weights for Historical Data to Calculate Expected Claims

The table below displays the weights applied to historical Present Value of Benefits and member counts to develop the expected claims per member, per month.

Data 't' Years Ago	Weights
0	0.0%
1	19.0%
2	17.0%
3	15.0%
4	13.0%
5	11.0%
6	9.0%
7	7.0%
8	5.0%
9	3.0%
10	1.0%

A Reserve for Unclaimed Benefits is included in the Accrued Liability. This is done by finding all survivors that are eligible to receive a benefit but are not currently being paid the benefit. This population is assumed to be spouses that were in deferral but have not received a benefit yet due to unforeseen reasons. The amount of this reserve is calculated as the difference between each individual's age as of the valuation date rounded to the nearest whole year minus the age for which their deferral ends, multiplied by their monthly benefit amount. Based on expected lifetimes, the maximum assumed age for receiving benefits is 87.

Actuarial Funding Method for Public Agency 1st, 2nd, 3rd and 4th Level, and State and Schools 5th Level Pools (continued)

Based upon current mortality tables, an individual who starts receiving a benefit at age 62 is expected to continue receiving until age 87.2, while an individual who starts receiving a benefit at age 60 is expected to continue receiving until age 87.0.

The Accrued Liability is equal to the Present Value of Benefits payable to current survivors, plus the Reserve for Unclaimed Benefits. If the Accrued Liability exceeds the Market Value of Assets, the difference is called the Unfunded Liability. On the other hand, if the Market Value of Assets exceeds the Accrued Liability, the difference is called Excess Assets.

The required employer monthly premium is the total required monthly premium less the \$2.00 per month member contributions as required by State Statute Section 21581. For all Levels, existing excess assets in the pool will be amortized and directly used to offset required employer contributions. However, for the State and Schools 5th Level pools, if the total required monthly premium after amortization of excess assets exceeds \$4.00, the member and the employer shall evenly share the required monthly premium. Excess assets for the Schools 5th Level pool, and Public Agency 1st, 2nd, and 3rd Level pools were sufficient to offset required employer contributions, based on June 30, 2024 data and assumptions. Excess assets for the Public Agency 4th Level were amortized over a 30-year period and are not sufficient to fully offset the required employer contribution. The resulting employer contribution for the 4th Level is \$5.20 per covered member, per month.

Actuarial Funding Method for Public Agency Indexed Level Pool

The funding method used for the Public Agency Indexed Level pool is the Entry Age Actuarial Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces an annual cost that increases by approximately 2% in each year.

The Normal Cost for the Public Agency Indexed Level pool is the portion of the total Entry Age Normal Cost, as described in the preceding paragraph that is allocated to the current fiscal year. Since there is no cost allocated to the current fiscal year for those already receiving benefits or are in a deferred status, only active members have a Normal Cost. The population demographics, excluding population growth, are assumed to remain stable for purposes of projecting the Normal Cost to the year for which the contribution requirement is being determined.

A Reserve for Unclaimed Benefits is included in the Accrued Liability. This is done by finding all survivors that are eligible to receive a benefit but are not currently being paid the benefit. This population is assumed to be spouses that were in deferral but have not received a benefit yet due to unforeseen reasons. The amount of this reserve is calculated as the difference between each individual's age as of the valuation date rounded to the nearest whole year minus the age for which their deferral ends, multiplied by their monthly benefit amount. Based on expected lifetimes, the maximum assumed age for receiving benefits is 87. Based upon current mortality tables, an individual who starts receiving a benefit at age 62 is expected to continue receiving until age 87.2, while an individual who starts receiving a benefit at age 60 is expected to continue receiving until age 87.0.

The Accrued Liability is equal to the Present Value of Future Benefits for both current survivors and active members, less the Present Value of Future Normal Costs.

The total required monthly premium is the sum of the individual Normal Costs divided by the number of member months. The required employer monthly premium is the total required monthly premium less the \$2.00 per month member contributions as required by State Statute Section 21581. Existing excess assets in the pool will be amortized and directly used to offset required employer contributions. However, if the total required monthly premium after amortization of excess assets exceeds \$4.00, the member and the employer shall evenly share the required monthly premium. Excess assets for the Public Agency Indexed Level are amortized over a 30-year period. The employer contribution for the Indexed Level is \$3.00 per covered member, per month.

Models

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

Asset Valuation Method

Commencing with the June 30, 2013 valuation, assets were and continue to be valued on a Market Value basis.

Method for Projecting Active Counts

The projected counts this year assume a stable population. Projected counts are necessary to determine employer premiums.

Actuarial Assumptions

In 2021, CalPERS completed its most recent asset liability management study incorporating actuarial assumptions and strategic asset allocation. In November 2021, the board adopted changes to the asset allocation that increased the expected volatility of returns. The adopted asset allocation was expected to have a long-term blended return that continued to support a discount rate assumption of 6.80%. The board also approved several changes to the demographic assumptions that more closely aligned with actual experience.

For more details and additional rationale for the selection of the actuarial assumptions, please refer to the <u>2021 CalPERS</u> <u>Experience Study and Review of Actuarial Assumptions</u> that can be found on the CalPERS website under: Forms and Publications. Click on "View All" and search for Experience Study.

All actuarial assumptions represent an estimate of future experience rather than observations of the estimates inherent in market data.

Economic Assumptions

The prescribed discount rate assumption, adopted by the board on November 17, 2021, is 6.80% compounded annually (net of investment and administrative expenses) as of June 30, 2024. The discount rate is based on the long-term expected rate of return on assets using a building-block method in which expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. The current assumption, originally based on capital market assumptions developed by the Investment Office in 2021, has been reviewed for this valuation based on capital market assumptions developed by the Investment Office in 2023.

Demographic Assumptions:

The mortality assumptions are based on mortality rates resulting from the most recent CalPERS Experience Study adopted by the CalPERS Board in November 2021. For purposes of the mortality rates, the rates incorporate generational mortality to capture ongoing mortality improvement. Generational mortality explicitly assumes that members born more recently will live longer than the members born before them thereby capturing the mortality improvement seen in the past and expected continued improvement.

	Healthy Recipients	
Age	Male	Female
35	0.00058	0.00029
40	0.00075	0.00039
45	0.00093	0.00054
50	0.00267	0.00199
55	0.00390	0.00325
60	0.00578	0.00455
65	0.00857	0.00612
70	0.01333	0.00996
75	0.02391	0.01783
80	0.04371	0.03403
85	0.08274	0.06166
90	0.14539	0.11086
95	0.24665	0.20364
100	0.36198	0.31582
105	0.52229	0.44679
110	1.00000	1.00000

Sample mortality rates for those who are receiving are shown in the following table:

The post-retirement mortality rates above are for 2017 and are projected generationally for future years using 80% of the Society of Actuaries' Scale MP-2020.

Indexed Level Claims Assumptions

The Public Agency Indexed Level pool's Accrued Liability and Entry Age Normal Cost for active members are calculated based on the actuarial assumptions for the plan that the members are currently in. For instance, if a member is currently working for an employer that provides a pension in a Miscellaneous 2% @ 55 plan, then the corresponding assumptions from the Miscellaneous 2% @ 55 plan would be used. Likewise, if the member is working in a Safety Police 2.7% @ 57 plan, then all the assumptions from the 2.7% @ 57 would be used. This is done to reflect the trends in the retirement based on the retirement formula and member category that an individual is working in.

The actuarial assumptions for each of these plans are as follows:

Eligible Survivor Status

For active members of both the Miscellaneous and Safety plans, the probability of having eligible survivor(s) at the date of death is assumed according to the following table:

	Percent Having
Age at Death	Eligible Survivor(s)
Age 20 and Under	30%
Between Ages 21 and 24	50%
Between Ages 25 and 29	70%
Between Ages 30 and 39	90%
Between Ages 40 and 49	95%
Between Ages 50 and 54	90%
Age 55 and Above	85%

Average claims are developed at every age using actual experience from the program. These average claims are then multiplied by the percentages in the above table. The results are used to estimate expected claims in the active population.

Benefit amounts and Present Value of Benefits were based on average claim experience. A sample of the average claim experience is shown in the table below:

Age at Death	Present Value of Average Claim ¹ at the Time of Death ²
Age 20 and Under	\$32,678
25	103,399
30	142,995
35	137,085
40	129,348
45	110,975
50	89,081
55	72,757
60	66,207
65	64,047
70	64,371
75	63,803
Age 80 and Above	57,493

(1) Average claims were calculated using actual experience from the 1959 Survivor program and smoothed using a polynomial regression model.

(2) Values are based on an initial benefit of \$500/\$1,000/\$1,500 for one, two, or three survivors, respectively. This was the benefit level on June 30, 2000, when the Indexed Level first became effective. The valuation program increases these amounts by 2% per year up to the current valuation year.

Additional Actuarial Assumptions Applicable to the PA Indexed Level

Pre-Retirement Mortality

See sample rates in the table below. The non-industrial death rates are used for all plans. The industrial death rates are used for Safety plans (except for Local Prosecutor Safety members where the corresponding Miscellaneous plan does not have the Industrial Death Benefit).

Non-Industrial (Not Job-Related) and Industrial (Job-Related) Death

Rates vary by age and sex. See sample rates in table below.

	Pre-Retirement Mortality								
	Miscellar	neous	Safety						
	Non-Industr	ial Death	Non-Indust	rial Death	Industrial Death				
Age	Male	Female	Male	Female	Male	Female			
20	0.00039	0.00014	0.00038	0.00014	0.00004	0.00002			
25	0.00033	0.00013	0.00034	0.00018	0.00004	0.00002			
30	0.00044	0.00019	0.00042	0.00025	0.00005	0.00003			
35	0.00058	0.00029	0.00048	0.00034	0.00005	0.00004			
40	0.00075	0.00039	0.00055	0.00042	0.00006	0.00005			
45	0.00093	0.00054	0.00066	0.00053	0.00007	0.00006			
50	0.00134	0.00081	0.00092	0.00073	0.00010	0.00008			
55	0.00198	0.00123	0.00138	0.00106	0.00015	0.00012			
60	0.00287	0.00179	0.00221	0.00151	0.00025	0.00017			

The pre-retirement mortality rates above are for 2017 and are projected generationally for future years using 80% of the Society of Actuaries' Scale MP-2020.

Miscellaneous plans usually have industrial death rates set to zero unless the agency has specifically contracted for Industrial Death Benefits. If so, each non-industrial death rate shown above will be split into two components; 99% will become the non-industrial death rate.

Termination with Refund

Rates vary by entry age and service for Miscellaneous plans. Rates vary by service for Safety plans. See sample rates in the tables below.

	Public Agency Miscellaneous											
Duration	Entr	y Age 20	Entry	y Age 25	Entry Age 30		Entry Age 35		Entry Age 40		Entry Age 45	
of Service	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
0	0.1851	0.1944	0.1769	0.1899	0.1631	0.1824	0.1493	0.1749	0.1490	0.1731	0.1487	0.1713
1	0.1531	0.1673	0.1432	0.1602	0.1266	0.1484	0.1101	0.1366	0.1069	0.1323	0.1037	0.1280
2	0.1218	0.1381	0.1125	0.1307	0.0970	0.1183	0.0815	0.1058	0.0771	0.0998	0.0726	0.0938
3	0.0927	0.1085	0.0852	0.1020	0.0727	0.0912	0.0601	0.0804	0.0556	0.0737	0.0511	0.0669
4	0.0672	0.0801	0.0616	0.0752	0.0524	0.0670	0.0431	0.0587	0.0392	0.0523	0.0352	0.0459
5	0.0463	0.0551	0.0423	0.0517	0.0358	0.0461	0.0292	0.0404	0.0261	0.0350	0.0230	0.0296
10	0.0112	0.0140	0.0101	0.0129	0.0083	0.0112	0.0064	0.0094	0.0048	0.0071	0.0033	0.0049
15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

remination with Kerund (continued)										
		Public Agency Safety								
Duration	Fir	e	Poli	се	County Peace Officer					
of Service	Male	Female	Male	Female	Male	Female				
0	0.1022	0.1317	0.1298	0.1389	0.1086	0.1284				
1	0.0686	0.1007	0.0789	0.0904	0.0777	0.0998				
2	0.0441	0.0743	0.0464	0.0566	0.0549	0.0759				
3	0.0272	0.0524	0.0274	0.0343	0.0385	0.0562				
4	0.0161	0.0349	0.0170	0.0206	0.0268	0.0402				
5	0.0092	0.0214	0.0113	0.0128	0.0186	0.0276				
10	0.0015	0.0000	0.0032	0.0047	0.0046	0.0038				
15	0.0000	0.0000	0.0000	0.0000	0.0023	0.0036				
20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
25	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				

Termination with Refund (continued)

The Police termination and refund rates are also used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

Termination with Vested Benefits

Rates vary by entry age and service for Miscellaneous plans. Rates vary by service for Safety plans. See sample rates in the tables below.

		Public Agency Miscellaneous								
Duration	Entr	y Age 20	Entr	y Age 25	Entr	y Age 30	Entry	y Age 35	Entr	y Age 40
of Service	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
5	0.0381	0.0524	0.0381	0.0524	0.0358	0.0464	0.0334	0.0405	0.0301	0.0380
10	0.0265	0.0362	0.0265	0.0362	0.0254	0.0334	0.0244	0.0307	0.0197	0.0236
15	0.0180	0.0252	0.0180	0.0252	0.0166	0.0213	0.0152	0.0174	0.0119	0.0132
20	0.0141	0.0175	0.0141	0.0175	0.0110	0.0131	0.0079	0.0087	0.0000	0.0000
25	0.0084	0.0108	0.0084	0.0108	0.0064	0.0076	0.0000	0.0000	0.0000	0.0000
30	0.0047	0.0056	0.0047	0.0056	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35	0.0038	0.0041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

	Public Agency Safety								
Duration	Fire		Pol	ice	County Pea	County Peace Officer			
of Service	Male	Female	Male	Female	Male	Female			
5	0.0089	0.0224	0.0156	0.0272	0.0177	0.0266			
10	0.0066	0.0164	0.0113	0.0198	0.0126	0.0189			
15	0.0048	0.0120	0.0083	0.0144	0.0089	0.0134			
20	0.0035	0.0088	0.0060	0.0105	0.0063	0.0095			
25	0.0024	0.0061	0.0042	0.0073	0.0042	0.0063			
30	0.0012	0.0031	0.0021	0.0037	0.0021	0.0031			
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			

The Police termination with vested benefits rates are also used for Public Agency Local Prosecutors, Other Safety, Local Sheriff, and School Police.

Non-Industrial (Not Job-Related) and Industrial (Job-Related) Disability

Rates vary by age and gender. See sample rates in the table below.

	Public Agency Miscellaneous							
	Non-Industrial Disability							
Age	Male	Female						
20	0.0001	0.0000						
25	0.0001	0.0001						
30	0.0002	0.0003						
35	0.0004	0.0007						
40	0.0009	0.0012						
45	0.0015	0.0019						
50	0.0015	0.0019						
55	0.0014	0.0013						
60	0.0012	0.0009						

The Miscellaneous non-industrial disability rates are used for Local Prosecutors. Normally, rates are zero for Miscellaneous plans unless the agency has specifically contracted for Industrial Disability Benefits. If so, each Miscellaneous non-industrial disability rate will be split into two components: 50% will become the non-industrial disability rate and 50% will become the industrial disability rate.

	Public Agency Safety							
	Nor	n-Industrial Disabil	ity	lı				
			County Peace			County Peace		
Age	Fire	Police	Officer	Fire	Police	Officer		
20	0.0001	0.0001	0.0001	0.0001	0.0000	0.0004		
25	0.0001	0.0001	0.0001	0.0002	0.0017	0.0013		
30	0.0001	0.0001	0.0001	0.0006	0.0048	0.0025		
35	0.0001	0.0002	0.0003	0.0012	0.0079	0.0037		
40	0.0001	0.0002	0.0006	0.0023	0.0110	0.0051		
45	0.0002	0.0003	0.0011	0.0040	0.0141	0.0067		
50	0.0004	0.0005	0.0016	0.0208	0.0185	0.0092		
55	0.0006	0.0007	0.0009	0.0307	0.0479	0.0151		
60	0.0006	0.0011	0.0005	0.0438	0.0602	0.0174		

The Police non-industrial disability rates are also used for Other Safety, Local Sheriff, and School Police. The Police industrial disability rates are used for Local Sheriff and Other Safety. 50% of the Police industrial disability rates are used for School Police. 1% of the Police industrial disability rates are used for Local Prosecutors.

Service Retirement

Rates vary by age, service, and formula, except for the Safety Half Pay at 55 and 2% at 55 formulas, where retirement rates vary by age only. See sample rates in the tables below.

		Ρι	Iblic Agency Misce	llaneous 1.5% @ 6	5	
			Duration o	of Service		
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.008	0.011	0.013	0.015	0.017	0.019
51	0.007	0.010	0.012	0.013	0.015	0.017
52	0.010	0.014	0.017	0.019	0.021	0.024
53	0.008	0.012	0.015	0.017	0.019	0.022
54	0.012	0.016	0.019	0.022	0.025	0.028
55	0.018	0.025	0.031	0.035	0.038	0.043
56	0.015	0.021	0.025	0.029	0.032	0.036
57	0.020	0.028	0.033	0.038	0.043	0.048
58	0.024	0.033	0.040	0.046	0.052	0.058
59	0.028	0.039	0.048	0.054	0.060	0.067
60	0.049	0.069	0.083	0.094	0.105	0.118
61	0.062	0.087	0.106	0.120	0.133	0.150
62	0.104	0.146	0.177	0.200	0.223	0.251
63	0.099	0.139	0.169	0.191	0.213	0.239
64	0.097	0.136	0.165	0.186	0.209	0.233
65	0.140	0.197	0.240	0.271	0.302	0.339
66	0.092	0.130	0.157	0.177	0.198	0.222
67	0.129	0.181	0.220	0.249	0.277	0.311
68	0.092	0.129	0.156	0.177	0.197	0.221
69	0.092	0.130	0.158	0.178	0.199	0.224
70	0.103	0.144	0.175	0.198	0.221	0.248

		Public Agency Miscellaneous 2% @ 60							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.010	0.011	0.014	0.014	0.017	0.017			
51	0.017	0.013	0.014	0.010	0.010	0.010			
52	0.014	0.014	0.018	0.015	0.016	0.016			
53	0.015	0.012	0.013	0.010	0.011	0.011			
54	0.006	0.010	0.017	0.016	0.018	0.018			
55	0.012	0.016	0.024	0.032	0.036	0.036			
56	0.010	0.014	0.023	0.030	0.034	0.034			
57	0.006	0.018	0.030	0.040	0.044	0.044			
58	0.022	0.023	0.033	0.042	0.046	0.046			
59	0.039	0.033	0.040	0.047	0.050	0.050			
60	0.063	0.069	0.074	0.090	0.137	0.116			
61	0.044	0.058	0.066	0.083	0.131	0.113			
62	0.084	0.107	0.121	0.153	0.238	0.205			
63	0.173	0.166	0.165	0.191	0.283	0.235			
64	0.120	0.145	0.164	0.147	0.160	0.172			
65	0.138	0.160	0.214	0.216	0.237	0.283			
66	0.198	0.228	0.249	0.216	0.228	0.239			
67	0.207	0.242	0.230	0.233	0.233	0.233			
68	0.201	0.234	0.225	0.231	0.231	0.231			
69	0.152	0.173	0.164	0.166	0.166	0.166			
70	0.200	0.200	0.200	0.200	0.200	0.200			

Service Retirement (continued)

		Р	ublic Agency Misc	ellaneous 2% @ 55	;	
			Duration o	of Service		
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years
50	0.014	0.014	0.017	0.021	0.023	0.024
51	0.013	0.017	0.017	0.018	0.018	0.019
52	0.013	0.018	0.018	0.020	0.020	0.021
53	0.013	0.019	0.021	0.024	0.025	0.026
54	0.017	0.025	0.028	0.032	0.033	0.035
55	0.045	0.042	0.053	0.086	0.098	0.123
56	0.018	0.036	0.056	0.086	0.102	0.119
57	0.041	0.046	0.056	0.076	0.094	0.120
58	0.052	0.044	0.048	0.074	0.106	0.123
59	0.043	0.058	0.073	0.092	0.105	0.126
60	0.059	0.064	0.083	0.115	0.154	0.170
61	0.087	0.074	0.087	0.107	0.147	0.168
62	0.115	0.123	0.151	0.180	0.227	0.237
63	0.116	0.127	0.164	0.202	0.252	0.261
64	0.084	0.138	0.153	0.190	0.227	0.228
65	0.167	0.187	0.210	0.262	0.288	0.291
66	0.187	0.258	0.280	0.308	0.318	0.319
67	0.195	0.235	0.244	0.277	0.269	0.280
68	0.228	0.248	0.250	0.241	0.245	0.245
69	0.188	0.201	0.209	0.219	0.231	0.231
70	0.229	0.229	0.229	0.229	0.229	0.229

	Public Agency Miscellaneous 2.5% @ 55								
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.014	0.017	0.027	0.035	0.046	0.050			
51	0.019	0.021	0.025	0.030	0.038	0.040			
52	0.018	0.020	0.026	0.034	0.038	0.037			
53	0.013	0.021	0.031	0.045	0.052	0.053			
54	0.025	0.025	0.030	0.046	0.057	0.068			
55	0.029	0.042	0.064	0.109	0.150	0.225			
56	0.036	0.047	0.068	0.106	0.134	0.194			
57	0.051	0.047	0.060	0.092	0.116	0.166			
58	0.035	0.046	0.062	0.093	0.119	0.170			
59	0.029	0.053	0.072	0.112	0.139	0.165			
60	0.039	0.069	0.094	0.157	0.177	0.221			
61	0.080	0.077	0.086	0.140	0.167	0.205			
62	0.086	0.131	0.149	0.220	0.244	0.284			
63	0.135	0.135	0.147	0.214	0.222	0.262			
64	0.114	0.128	0.158	0.177	0.233	0.229			
65	0.112	0.174	0.222	0.209	0.268	0.273			
66	0.235	0.254	0.297	0.289	0.321	0.337			
67	0.237	0.240	0.267	0.249	0.267	0.277			
68	0.258	0.271	0.275	0.207	0.210	0.212			
69	0.117	0.208	0.266	0.219	0.250	0.270			
70	0.229	0.229	0.229	0.229	0.229	0.229			

Service Retirement (continued)

		Ρι	Iblic Agency Misce	llaneous 2.7% @ 5	5			
		Duration of Service						
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years		
50	0.011	0.016	0.022	0.033	0.034	0.038		
51	0.018	0.019	0.023	0.032	0.031	0.031		
52	0.019	0.020	0.026	0.035	0.034	0.037		
53	0.020	0.020	0.025	0.043	0.048	0.053		
54	0.018	0.030	0.040	0.052	0.053	0.070		
55	0.045	0.058	0.082	0.138	0.208	0.278		
56	0.057	0.062	0.080	0.121	0.178	0.222		
57	0.045	0.052	0.071	0.106	0.147	0.182		
58	0.074	0.060	0.074	0.118	0.163	0.182		
59	0.058	0.067	0.086	0.123	0.158	0.187		
60	0.087	0.084	0.096	0.142	0.165	0.198		
61	0.073	0.084	0.101	0.138	0.173	0.218		
62	0.130	0.133	0.146	0.187	0.214	0.249		
63	0.122	0.140	0.160	0.204	0.209	0.243		
64	0.104	0.124	0.154	0.202	0.214	0.230		
65	0.182	0.201	0.242	0.264	0.293	0.293		
66	0.272	0.249	0.273	0.285	0.312	0.312		
67	0.182	0.217	0.254	0.249	0.264	0.264		
68	0.223	0.197	0.218	0.242	0.273	0.273		
69	0.217	0.217	0.217	0.217	0.217	0.217		
70	0.227	0.227	0.227	0.227	0.227	0.227		

		Р	Public Agency Miscellaneous 3% @ 60							
		Duration of Service								
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years				
50	0.015	0.020	0.025	0.039	0.040	0.044				
51	0.041	0.034	0.032	0.041	0.036	0.037				
52	0.024	0.020	0.022	0.039	0.040	0.041				
53	0.018	0.024	0.032	0.047	0.048	0.057				
54	0.033	0.033	0.035	0.051	0.049	0.052				
55	0.137	0.043	0.051	0.065	0.076	0.108				
56	0.173	0.038	0.054	0.075	0.085	0.117				
57	0.019	0.035	0.059	0.088	0.111	0.134				
58	0.011	0.040	0.070	0.105	0.133	0.162				
59	0.194	0.056	0.064	0.081	0.113	0.163				
60	0.081	0.085	0.133	0.215	0.280	0.333				
61	0.080	0.090	0.134	0.170	0.223	0.292				
62	0.137	0.153	0.201	0.250	0.278	0.288				
63	0.128	0.140	0.183	0.227	0.251	0.260				
64	0.174	0.147	0.173	0.224	0.239	0.264				
65	0.152	0.201	0.262	0.299	0.323	0.323				
66	0.272	0.273	0.317	0.355	0.380	0.380				
67	0.218	0.237	0.268	0.274	0.284	0.284				
68	0.200	0.228	0.269	0.285	0.299	0.299				
69	0.250	0.250	0.250	0.250	0.250	0.250				
70	0.245	0.245	0.245	0.245	0.245	0.245				

Service Retirement (continued)

		Р	ublic Agency Misc	ellaneous 2% @ 62					
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.000	0.000	0.000	0.000	0.000	0.000			
51	0.000	0.000	0.000	0.000	0.000	0.000			
52	0.005	0.008	0.012	0.015	0.019	0.031			
53	0.007	0.011	0.014	0.018	0.021	0.032			
54	0.007	0.011	0.015	0.019	0.023	0.034			
55	0.010	0.019	0.028	0.036	0.061	0.096			
56	0.014	0.026	0.038	0.050	0.075	0.108			
57	0.018	0.029	0.039	0.050	0.074	0.107			
58	0.023	0.035	0.048	0.060	0.073	0.099			
59	0.025	0.038	0.051	0.065	0.092	0.128			
60	0.031	0.051	0.071	0.091	0.111	0.138			
61	0.038	0.058	0.079	0.100	0.121	0.167			
62	0.044	0.074	0.104	0.134	0.164	0.214			
63	0.077	0.105	0.134	0.163	0.192	0.237			
64	0.072	0.101	0.129	0.158	0.187	0.242			
65	0.108	0.141	0.173	0.206	0.239	0.300			
66	0.132	0.172	0.212	0.252	0.292	0.366			
67	0.132	0.172	0.212	0.252	0.292	0.366			
68	0.120	0.156	0.193	0.229	0.265	0.333			
69	0.120	0.156	0.193	0.229	0.265	0.333			
70	0.120	0.156	0.193	0.229	0.265	0.333			

	Agency Police		c Agency Fire
1⁄2 @ 55	5 and 2% @ 55	1/2 @ 5	5 and 2% @ 55
Age	Rate	Age	Rate
50	0.026	50	0.016
51	0.000	51	0.000
52	0.016	52	0.034
53	0.027	53	0.020
54	0.010	54	0.041
55	0.167	55	0.075
56	0.069	56	0.111
57	0.051	57	0.000
58	0.072	58	0.095
59	0.070	59	0.044
60	0.300	60	1.000

Public Agency Police 2% @ 50 **Duration of Service** 10 Years 5 Years 15 Years 20 Years 25 Years Age 30 Years 50 0.018 0.077 0.056 0.046 0.043 0.046 51 0.022 0.087 0.060 0.048 0.044 0.047 0.081 0.075 52 0.020 0.102 0.071 0.069 53 0.016 0.072 0.053 0.045 0.042 0.046 54 0.006 0.071 0.071 0.069 0.072 0.080 0.009 0.040 0.099 0.157 0.186 0.186 55 56 0.020 0.051 0.108 0.165 0.194 0.194 57 0.036 0.072 0.106 0.139 0.156 0.156 0.001 0.046 0.089 58 0.130 0.152 0.152 0.066 0.094 0.119 0.s143 0.155 0.155 59 60 0.177 0.177 0.177 0.177 0.177 0.177 61 0.134 0.134 0.134 0.134 0.134 0.134 62 0.184 0.184 0.184 0.184 0.184 0.184 63 0.250 0.250 0.250 0.250 0.250 0.250 0.177 64 0.177 0.177 0.177 0.177 0.177 65 1.000 1.000 1.000 1.000 1.000 1.000

Service Retirement (continued)

		Public Agency Fire 2% @ 50							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.054	0.054	0.056	0.080	0.064	0.066			
51	0.020	0.020	0.021	0.030	0.024	0.024			
52	0.037	0.037	0.038	0.054	0.043	0.045			
53	0.051	0.051	0.053	0.076	0.061	0.063			
54	0.082	0.082	0.085	0.121	0.097	0.100			
55	0.139	0.139	0.139	0.139	0.139	0.139			
56	0.129	0.129	0.129	0.129	0.129	0.129			
57	0.085	0.085	0.085	0.085	0.085	0.085			
58	0.119	0.119	0.119	0.119	0.119	0.119			
59	0.167	0.167	0.167	0.167	0.167	0.167			
60	0.152	0.152	0.152	0.152	0.152	0.152			
61	0.179	0.179	0.179	0.179	0.179	0.179			
62	0.179	0.179	0.179	0.179	0.179	0.179			
63	0.179	0.179	0.179	0.179	0.179	0.179			
64	0.179	0.179	0.179	0.179	0.179	0.179			
65	1.000	1.000	1.000	1.000	1.000	1.000			

Public Agency Police 3% @ 55 **Duration of Service** 10 Years 15 Years Age 20 Years 25 Years 30 Years 50 0.019 0.053 0.045 0.054 0.057 0.061 51 0.002 0.017 0.028 0.044 0.053 0.060 0.031 0.051 52 0.002 0.037 0.059 0.066 0.049 53 0.026 0.049 0.080 0.099 0.114 54 0.019 0.034 0.047 0.091 0.121 0.142 0.006 0.115 0.141 0.199 0.231 0.259 55 56 0.017 0.188 0.121 0.173 0.199 0.199 0.008 0.137 0.093 0.136 57 0.157 0.157 0.017 58 0.126 0.105 0.164 0.194 0.194 0.026 0.146 0.110 0.167 0.195 0.195 59 60 0.155 0.155 0.155 0.155 0.155 0.155 61 0.210 0.210 0.210 0.210 0.210 0.210 62 0.262 0.262 0.262 0.262 0.262 0.262 63 0.172 0.172 0.172 0.172 0.172 0.172 64 0.227 0.227 0.227 0.227 0.227 0.227 65 1.000 1.000 1.000 1.000 1.000 1.000

Service Retirement (continued)

		Public Agency Fire 3% @ 55							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.003	0.006	0.013	0.019	0.025	0.028			
51	0.004	0.008	0.017	0.026	0.034	0.038			
52	0.005	0.011	0.022	0.033	0.044	0.049			
53	0.005	0.034	0.024	0.038	0.069	0.138			
54	0.007	0.047	0.032	0.051	0.094	0.187			
55	0.010	0.067	0.046	0.073	0.134	0.266			
56	0.010	0.063	0.044	0.069	0.127	0.253			
57	0.135	0.100	0.148	0.196	0.220	0.220			
58	0.083	0.062	0.091	0.120	0.135	0.135			
59	0.137	0.053	0.084	0.146	0.177	0.177			
60	0.162	0.063	0.099	0.172	0.208	0.208			
61	0.598	0.231	0.231	0.231	0.231	0.231			
62	0.621	0.240	0.240	0.240	0.240	0.240			
63	0.236	0.236	0.236	0.236	0.236	0.236			
64	0.236	0.236	0.236	0.236	0.236	0.236			
65	1.000	1.000	1.000	1.000	1.000	1.000			

Public Agency Police 3% @ 50 **Duration of Service** 5 Years 15 Years Age 10 Years 20 Years 25 Years 30 Years 50 0.124 0.103 0.113 0.143 0.244 0.376 51 0.060 0.081 0.087 0.125 0.207 0.294 52 0.016 0.055 0.111 0.148 0.192 0.235 53 0.072 0.074 0.098 0.142 0.189 0.237 54 0.018 0.049 0.105 0.123 0.187 0.271 0.069 0.074 0.081 0.113 0.209 0.305 55 56 0.064 0.108 0.113 0.125 0.190 0.288 0.056 0.109 0.182 0.210 0.210 57 0.160 58 0.108 0.129 0.173 0.189 0.214 0.214 0.093 0.144 0.204 0.229 0.262 0.262 59 60 0.343 0.180 0.159 0.188 0.247 0.247 61 0.221 0.221 0.221 0.221 0.221 0.221 62 0.213 0.213 0.213 0.213 0.213 0.213 63 0.233 0.233 0.233 0.233 0.233 0.233 64 0.234 0.234 0.234 0.234 0.234 0.234 65 1.000 1.000 1.000 1.000 1.000 1.000

Service Retirement (continued)

		Public Agency Fire 3% @ 50							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.095	0.048	0.053	0.093	0.134	0.175			
51	0.016	0.032	0.053	0.085	0.117	0.149			
52	0.013	0.032	0.054	0.087	0.120	0.154			
53	0.085	0.044	0.049	0.089	0.129	0.170			
54	0.038	0.065	0.074	0.105	0.136	0.167			
55	0.042	0.043	0.049	0.085	0.132	0.215			
56	0.133	0.103	0.075	0.113	0.151	0.209			
57	0.062	0.048	0.060	0.124	0.172	0.213			
58	0.124	0.097	0.092	0.153	0.194	0.227			
59	0.092	0.071	0.078	0.144	0.192	0.233			
60	0.056	0.044	0.061	0.131	0.186	0.233			
61	0.282	0.219	0.158	0.198	0.233	0.260			
62	0.292	0.227	0.164	0.205	0.241	0.269			
63	0.196	0.196	0.196	0.196	0.196	0.196			
64	0.197	0.197	0.197	0.197	0.197	0.197			
65	1.000	1.000	1.000	1.000	1.000	1.000			

Public Agency Police 2% @ 57 **Duration of Service** 5 Years 15 Years Age 10 Years 20 Years 25 Years 30 Years 50 0.040 0.040 0.040 0.040 0.040 0.080 51 0.028 0.028 0.028 0.028 0.040 0.066 0.028 52 0.028 0.028 0.028 0.043 0.061 53 0.028 0.028 0.028 0.028 0.057 0.086 54 0.028 0.028 0.028 0.032 0.069 0.110 0.050 0.050 0.050 0.067 0.099 55 0.179 56 0.046 0.046 0.046 0.062 0.090 0.160 0.054 0.054 0.054 0.072 0.106 57 0.191 0.060 0.060 0.060 58 0.066 0.103 0.171 0.060 0.060 0.060 0.069 0.105 0.171 59 60 0.113 0.113 0.113 0.113 0.113 0.171 61 0.108 0.108 0.108 0.108 0.108 0.128 62 0.113 0.113 0.113 0.113 0.113 0.159 63 0.113 0.113 0.113 0.113 0.113 0.159 64 0.113 0.113 0.113 0.113 0.113 0.239 65 1.000 1.000 1.000 1.000 1.000 1.000

Service Retirement (continued)

		Public Agency Fire 2% @ 57							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.005	0.005	0.005	0.005	0.008	0.012			
51	0.006	0.006	0.006	0.006	0.009	0.013			
52	0.012	0.012	0.012	0.012	0.019	0.028			
53	0.033	0.033	0.033	0.033	0.050	0.075			
54	0.045	0.045	0.045	0.045	0.069	0.103			
55	0.061	0.061	0.061	0.061	0.094	0.140			
56	0.055	0.055	0.055	0.055	0.084	0.126			
57	0.081	0.081	0.081	0.081	0.125	0.187			
58	0.059	0.059	0.059	0.059	0.091	0.137			
59	0.055	0.055	0.055	0.055	0.084	0.126			
60	0.085	0.085	0.085	0.085	0.131	0.196			
61	0.085	0.085	0.085	0.085	0.131	0.196			
62	0.085	0.085	0.085	0.085	0.131	0.196			
63	0.085	0.085	0.085	0.085	0.131	0.196			
64	0.085	0.085	0.085	0.085	0.131	0.196			
65	1.000	1.000	1.000	1.000	1.000	1.000			

		Public Agency Police 2.5% @ 57								
		Duration of Service								
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years				
50	0.050	0.050	0.050	0.050	0.050	0.100				
51	0.038	0.038	0.038	0.038	0.055	0.089				
52	0.038	0.038	0.038	0.038	0.058	0.082				
53	0.036	0.036	0.036	0.036	0.073	0.111				
54	0.036	0.036	0.036	0.041	0.088	0.142				
55	0.061	0.061	0.061	0.082	0.120	0.217				
56	0.056	0.056	0.056	0.075	0.110	0.194				
57	0.060	0.060	0.060	0.080	0.118	0.213				
58	0.072	0.072	0.072	0.079	0.124	0.205				
59	0.072	0.072	0.072	0.083	0.126	0.205				
60	0.135	0.135	0.135	0.135	0.135	0.205				
61	0.130	0.130	0.130	0.130	0.130	0.153				
62	0.135	0.135	0.135	0.135	0.135	0.191				
63	0.135	0.135	0.135	0.135	0.135	0.191				
64	0.135	0.135	0.135	0.135	0.135	0.287				
65	1.000	1.000	1.000	1.000	1.000	1.000				

Service Retirement (continued)

		Public Agency Fire 2.5% @ 57							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.007	0.007	0.007	0.007	0.010	0.015			
51	0.008	0.008	0.008	0.008	0.012	0.018			
52	0.016	0.016	0.016	0.016	0.025	0.038			
53	0.042	0.042	0.042	0.042	0.064	0.096			
54	0.057	0.057	0.057	0.057	0.088	0.132			
55	0.074	0.074	0.074	0.074	0.114	0.170			
56	0.066	0.066	0.066	0.066	0.102	0.153			
57	0.090	0.090	0.090	0.090	0.139	0.208			
58	0.071	0.071	0.071	0.071	0.110	0.164			
59	0.066	0.066	0.066	0.066	0.101	0.151			
60	0.102	0.102	0.102	0.102	0.157	0.235			
61	0.102	0.102	0.102	0.102	0.157	0.236			
62	0.102	0.102	0.102	0.102	0.157	0.236			
63	0.102	0.102	0.102	0.102	0.157	0.236			
64	0.102	0.102	0.102	0.102	0.157	0.236			
65	1.000	1.000	1.000	1.000	1.000	1.000			

		Public Agency Police 2.7% @ 57								
		Duration of Service								
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years				
50	0.050	0.050	0.050	0.050	0.050	0.100				
51	0.040	0.040	0.040	0.040	0.058	0.094				
52	0.038	0.038	0.038	0.038	0.058	0.083				
53	0.038	0.038	0.038	0.038	0.077	0.117				
54	0.038	0.038	0.038	0.044	0.093	0.150				
55	0.068	0.068	0.068	0.091	0.134	0.242				
56	0.063	0.063	0.063	0.084	0.123	0.217				
57	0.060	0.060	0.060	0.080	0.118	0.213				
58	0.080	0.080	0.080	0.088	0.138	0.228				
59	0.080	0.080	0.080	0.092	0.140	0.228				
60	0.150	0.150	0.150	0.150	0.150	0.228				
61	0.144	0.144	0.144	0.144	0.144	0.170				
62	0.150	0.150	0.150	0.150	0.150	0.213				
63	0.150	0.150	0.150	0.150	0.150	0.213				
64	0.150	0.150	0.150	0.150	0.150	0.319				
65	1.000	1.000	1.000	1.000	1.000	1.000				

Service Retirement (continued)

		Public Agency Fire 2.7% @ 57							
		Duration of Service							
Age	5 Years	10 Years	15 Years	20 Years	25 Years	30 Years			
50	0.007	0.007	0.007	0.007	0.010	0.015			
51	0.008	0.008	0.008	0.008	0.013	0.019			
52	0.016	0.016	0.016	0.016	0.025	0.038			
53	0.044	0.044	0.044	0.044	0.068	0.102			
54	0.061	0.061	0.061	0.061	0.093	0.140			
55	0.083	0.083	0.083	0.083	0.127	0.190			
56	0.074	0.074	0.074	0.074	0.114	0.171			
57	0.090	0.090	0.090	0.090	0.139	0.208			
58	0.079	0.079	0.079	0.079	0.122	0.182			
59	0.073	0.073	0.073	0.073	0.112	0.168			
60	0.114	0.114	0.114	0.114	0.175	0.262			
61	0.114	0.114	0.114	0.114	0.175	0.262			
62	0.114	0.114	0.114	0.114	0.175	0.262			
63	0.114	0.114	0.114	0.114	0.175	0.262			
64	0.114	0.114	0.114	0.114	0.175	0.262			
65	1.000	1.000	1.000	1.000	1.0000	1.000			

Appendix B – Principal Plan Provisions

The 1959 Survivor program was designed to provide pre-retirement death benefits comparable to those provided by Social Security, formally the Federal Old Age and Survivor Insurance (OASI) program, to CalPERS' members not covered by Social Security.

Eligibility

The benefit is available only to those members not covered by Social Security OASI benefits. For public agencies, this benefit is provided by contract with CalPERS. Only those public agencies that contract for the 1st, 2nd, 3rd, 4th, or Indexed Levels of the program are eligible for the benefits valued in this report. The Public Agency 1st and 2nd Levels have been closed since January 1, 1994 and the 3rd Level has been closed since July 1, 2001. For State and Schools members, the 5th Level benefit is provided by State statute to certain groups of employees. Members who are eligible for the benefit are given a one-time option to join at the time of the 1959 Survivor contract. Members hired subsequent to the time of contract are automatically enrolled in the program.

Spousal or Domestic Partner Benefit

The benefit is a monthly payment to eligible surviving spouses or domestic partners age 62 or older for the Public Agency 1st, 2nd, and 3rd Levels and age 60 or older for all other Levels. The benefit is also payable under these deferred ages for spouses or partners that have care of children under the age of 22. As an example, assume an agency contracts for the 3rd Level benefit and an active member dies and leaves behind a 35-year-old spouse and 2 children, ages 5 and 15. The following table describes how the benefit would be paid over the course of time.

Event	Monthly Benefit Paid
Member Death	\$840
1 st Child Turns 22	\$700
2 nd Child Turns 22 ¹	\$0
Spouse Turns 62 ²	\$350

(1) At this time, the spouse would be 52 years old and would not receive any benefit until age 62.

(2) Spouse would continue to receive this benefit until his/her death

Child Benefit

Children are eligible if they are not married or in a registered domestic partnership and are under the age of 22 whether or not a spouse or domestic partner exists. For 3 or more children, the 3-survivor benefit is paid; for 2 children, the 2-survivor benefit is paid and so forth (see tables below). In all cases, unless a child is disabled, the benefit stops at age 22. If a child is disabled, the benefit is paid until the disability ceases.

Parental Benefits

If there is no eligible spouse or domestic partner or children, parent(s) dependent for at least half of their support from the deceased member may be eligible for benefits. The parent(s) must be over age 62 for the Public Agency 1st, 2nd, and 3rd Levels and over age 60 for all other Levels.

Monthly Benefit Amounts

The monthly benefit amount depends upon the coverage Level within the program.

1st, 2nd, and 3rd Levels (For Members of Public Agencies who Contract)

	1 st Level	2 nd Level	3 rd Level
Spouse or Domestic Partner with Two or More Eligible Children; or Three or More Eligible Children	\$430	\$538	\$840
Spouse or Domestic Partner with One Eligible Child; or Two Eligible Children Only	360	450	700
Spouse or Domestic Partner Age 62 or Older; or One Eligible Child Only; or Eligible Dependent parents	180	225	350

4th Level and Indexed Level (For Members of Public Agencies who Contract) and 5th Level (State and Schools Members)

			State and Schools 5 th
	4 th Level	Indexed Level	Level
Spouse or Domestic Partner with Two or More Eligible Children; or Three or More Eligible Children	\$2,280	\$2,461 ¹	\$1,800
Spouse or Domestic Partner with One Eligible Child; or Two Eligible Children Only	1,900	1,641 ¹	1,500
Spouse or Domestic Partner Age 60 or Older; or One Eligible Child Only; or Eligible Dependent parents	950	820 ¹	750

(1) These figures indicate calendar year benefit amounts for the Indexed Level in effect for calendar year 2025. Benefit amounts will increase by 2% each January 1.

Comparison of Social Security and CalPERS 1959 Survivor Benefits

The following tables compare current Social Security survivor benefits with current benefit levels paid under the 1959 Survivor Program.

Social Security

Survivor Group	Low	Average	High
Three Survivors	\$1,843	\$2,837	\$4,660
Two Survivors	1,842	2,618	3,860
One Survivor	921	1,309	1,930

Unlike the 1959 Survivor Benefit (with the exception of the Indexed Level), Federal Social Security benefits normally receive an automatic cost-of-living adjustment every year. Also, unlike the 1959 Survivor Benefit, Social Security benefits are based on a worker's actual earnings up to the maximum covered. The values shown assume death at age 45 (benefits slightly higher at lower ages, lower at higher ages), and steady earnings. "Low" is a 2024 salary of \$25,000, "Average" is \$50,000, and "High" is \$90,000.

CalPERS 1959 Survivor Benefit

a : a	4 6 1 1	0.041		44b 1 1		State and Schools
Survivor Group	1 st Level	2 nd Level	3 rd Level	4 th Level	Indexed Level ¹	5 th Level
Three Survivors	\$430	\$538	\$840	\$2,280	\$2,461	\$1,800
Two Survivors	360	450	700	1,900	1,641	1,500
One Survivor	180	225	350	950	820	750

(1) Amounts effective January 1, 2025

Summary of Plan Changes

Existing public agency employers joining the Public Agency 4th or Indexed Level pools during the 2025-26 fiscal year are required to pay only the Unfunded Liability based on their own membership (amortized over a period of five years) which exists at the time they join plus the agency's normal cost for all members at the new benefit level for the first five years. If they have excess assets, the excess assets will be amortized over five years and used to offset the agency's normal cost for each year.

Appendix C – Demographic and Experience Information

Current and Deferred Survivors – All Levels of the 1959 Survivor Program for Public Agencies, State and Schools

Currently, there are 4,291 cases where liability exists. These cases include surviving spouses or domestic partners in deferred status even though presently there are no benefits being paid. There are 9 possible survivor combinations that can be associated with each case. The combinations presented below are given as of the date of the valuation, for all Levels of the 1959 Survivor program.

Status as of 6/30/2024	Number	Percent
Surviving Spouse or Domestic Partner Deferred	679	15.8%
Surviving Spouse or Domestic Partner Only Receiving	2,623	61.1%
Surviving Spouse or Domestic Partner with One Child	330	7.7%
Surviving Spouse or Domestic Partner with Two or More Children	305	7.1%
One Child	191	4.5%
Two Children	103	2.4%
Three or More Children	23	0.5%
One Parent	29	0.7%
Two Parents	8	0.2%
Totals	4,291	100.0% ¹

(1) Percentages may not sum to 100% due to rounding.

Survivor Combinations as of the Member's Date of Death – All Levels of the 1959 Survivor Program for Public Agencies, State and Schools

There exist 8,901 cases of death associated with the 1959 Survivor program since its inception where 1959 Survivor benefits became payable. With this data, a historical account of each combination can be made. Further, probabilities can be approximated with respect to these combinations when a member dies. Below is a list of all combinations on record, numbers and associated percentages as of the time of death, for all Levels of the 1959 Survivor program.

Status as of the Member's Date of Death	Number	Percent
Surviving Spouse or Domestic Partner Deferred	2,469	27.7%
Surviving Spouse or Domestic Partner Only Receiving	1,144	12.9%
Surviving Spouse or Domestic Partner with One Child	1,430	16.1%
Surviving Spouse or Domestic Partner with Two or More Children	2,358	26.5%
One Child	643	7.2%
Two Children	510	5.7%
Three or More Children	288	3.2%
One Parent	48	0.5%
Two Parents	11	0.1%
Totals	8,901	100.0% ¹

(1) Percentages may not sum to 100% due to rounding.

Appendix D – 1959 Survivor Deaths Per Year

1959 Survivor Deaths Per Year

Displayed below is a year-by-year account of the number of deaths under the program and the death rate each year for the last 35 years for public agencies, State, and Schools. Deaths given in the exhibit are on a fiscal year basis (changed from a calendar year basis in previous years) and may change from previous valuations due mainly to reclassification of the benefit that ultimately gets paid to the survivor. The historic covered active counts may not match those reported in the prior year's valuation. This is due to the fact that in some cases there is a time gap between the time of the member's death and the determination of which type of death benefit that the survivor will receive. In addition, since the basis was changed this year most of the death counts will not match those of the previous year.

		Public Agency		State		Schools			
Fiscal Year									
Ending On		Active Counts	Death Rate	Deaths		Death Rate	Deaths	Active Counts	Death Rate
6/30/2024	98	154,632	0.06%	60	76,176	0.08%	4	11,148	0.04%
6/30/2023	86	148,538	0.06%	61	74,885	0.08%	7	10,815	0.06%
6/30/2022	110	142,364	0.08%	92	75,812	0.12%	9	10,390	0.09%
6/30/2021	115	139,036	0.08%	92	76,995	0.12%	11	10,413	0.11%
6/30/2020	81	141,081	0.06%	72	78,713	0.09%	3	11,219	0.03%
6/30/2019	86	141,374	0.06%	62	78,011	0.08%	9	11,190	0.08%
6/30/2018	74	140,339	0.05%	47	77,362	0.06%	6	10,894	0.06%
6/30/2017	88	141,063	0.06%	51	76,638	0.07%	7	10,557	0.07%
6/30/2016	78	139,581	0.06%	67	75,782	0.09%	4	10,259	0.04%
6/30/2015	75	134,879	0.06%	55	74,372	0.07%	5	10,490	0.05%
6/30/2014	60	132,024	0.05%	56	72,848	0.08%	4	10,287	0.04%
6/30/2013	93	129,796	0.07%	57	71,180	0.08%	4	9,944	0.04%
6/30/2012	106	132,754	0.08%	53	71,759	0.07%	7	10,123	0.07%
6/30/2011	93	134,255	0.07%	55	77,714	0.07%	6	9,811	0.06%
6/30/2010	86	138,470	0.06%	71	79,587	0.09%	5	10,203	0.05%
6/30/2009	98	143,207	0.07%	47	82,434	0.06%	9	10,562	0.09%
6/30/2008	111	144,828	0.08%	56	81,369	0.07%	4	10,550	0.04%
6/30/2007	96	140,012	0.07%	68	76,902	0.09%	6	10,131	0.06%
6/30/2006	94	137,095	0.07%	74	71,742	0.10%	15	9,469	0.16%
6/30/2005	105	133,510	0.08%	61	70,193	0.09%	4	9,402	0.04%
6/30/2004	93	131,633	0.07%	71	64,252	0.11%	5	9,325	0.05%
6/30/2003	81	129,620	0.06%	57	68,791	0.08%	6	9,390	0.06%
6/30/2002	83	129,355	0.06%	51	65,558	0.08%	7	9,195	0.08%
6/30/2001	90	116,161	0.08%	61	64,309	0.09%	5	7,884	0.06%
6/30/2000	83	121,538	0.07%	61	60,349	0.10%	2	8,338	0.02%
6/30/1999	90	118,850	0.08%	55	59,406	0.09%	7	7,444	0.09%
6/30/1998	78	112,389	0.07%	61	55,435	0.11%	3	6,956	0.04%
6/30/1997	74	102,475	0.07%	67	55,084	0.12%	5	6,794	0.07%
6/30/1996	73	100,494	0.07%	51	51,746	0.10%	7	6,726	0.10%
6/30/1995	74	99,235	0.07%	60	47,689	0.13%	9	6,751	0.13%
6/30/1994	68	98,088	0.07%	55	47,323	0.12%	8	6,653	0.12%
6/30/1993	86	97,752	0.09%	42	46,872	0.09%	9	6,776	0.13%
6/30/1992	91	95,840	0.09%	47	48,872	0.10%	5	6,823	0.07%
6/30/1991	100	91,574	0.11%	47	47,708	0.10%	6	7,752	0.08%
6/30/1990	73	86,196	0.08%	63	45,502	0.14%	8	7,942	0.10%

Appendix E – List of Contracting Agencies

- 1. Belmont Fire Protection District, Miscellaneous
- 2. Central Basin Municipal Water District, Miscellaneous
- 3. City and County of San Francisco, Safety County Peace Officer
- 4. City and County of San Francisco, Safety Sheriff
- 5. City of Baldwin Park, Miscellaneous
- 6. City of Baldwin Park, Safety Police
- 7. City of Bishop, Miscellaneous
- 8. City of Bishop, Safety Police
- 9. City of Calexico, Safety Fire
- 10. City of Calexico, Safety Police
- 11. City of Camarillo, Safety Fire
- 12. City of Camarillo, Safety Police
- 13. City of Coachella City, Miscellaneous
- 14. City of Coachella City, Safety Fire
- 15. City of Coachella City, Safety Police
- 16. City of Compton, Safety Fire
- 17. City of Culver City, Miscellaneous
- 18. City of Dixon, Miscellaneous
- 19. City of El Segundo, Miscellaneous
- 20. City of Glendora, Safety Fire
- 21. City of Hawthorne, Miscellaneous
- 22. City of Hawthorne, Safety Fire
- 23. City of Hawthorne, Safety Police
- 24. City of Hemet, Safety Police
- 25. City of Indio, Safety Fire
- 26. City of Indio, Safety Police
- 27. City of Lynwood, Safety Police
- 28. City of Madera, Safety Fire
- 29. City of Manhattan Beach, Safety Police
- 30. City of Maywood, Safety Police
- 31. City of Menlo Park, Miscellaneous
- 32. City of Palo Alto, Miscellaneous
- 33. City of Palo Alto, Safety Fire
- 34. City of Palo Alto, Safety Police
- 35. City of Placentia, Safety Fire
- 36. City of Pleasanton, Safety Police
- 37. City of Pomona, Miscellaneous
- 38. City of Pomona, Safety Fire

- 39. City of Pomona, Safety Police
- 40. City of Redondo Beach, Miscellaneous
- 41. City of Richmond, Miscellaneous
- 42. City of Richmond, Safety Fire
- 43. City of Richmond, Safety Police
- 44. City of Rolling Hills Estates, Miscellaneous
- 45. City of Salinas, Safety Fire
- 46. City of San Fernando, Safety Fire
- 47. City of San Mateo, Miscellaneous
- 48. City of San Pablo, Safety Fire
- 49. City of Santa Clara, Miscellaneous
- 50. City of Santa Monica, Safety Other Safety
- 51. City of Santa Paula, Safety Fire
- 52. City of Sausalito, Miscellaneous
- 53. City of Seal Beach, Safety Fire
- 54. City of South Lake Tahoe, Safety Police
- 55. City of South Pasadena, Miscellaneous
- 56. City of South Pasadena, Safety Fire
- 57. City of South Pasadena, Safety Police
- 58. City of South San Francisco, Miscellaneous
- 59. City of Sunnyvale, Safety Fire
- 60. City of Tustin, Safety Fire
- 61. City of Union City, Safety Fire
- 62. City of Union City, Safety Police
- 63. City of Vallejo, Miscellaneous
- 64. City of Vernon, Safety Police
- 65. City of Vista, Safety Police
- 66. City of Watsonville, Miscellaneous
- 67. City of Westminster, Safety Fire
- 68. City of Whittier, Safety Fire
- 69. County of Glenn, Miscellaneous
- 70. County of Inyo, Miscellaneous
- 71. County of Madera, Miscellaneous
- 72. County of Monterey, Miscellaneous
- 73. County of Plumas, Safety Fire
- 74. County of Santa Clara, Miscellaneous
- 75. County of Santa Clara, Safety County Peace Officer
- 76. County of Santa Clara, Safety Fire
- 77. County of Santa Cruz, Safety Fire

- 78. County of Siskiyou, Safety Fire
- 79. County of Solano, Safety Fire
- 80. East Contra Costa Irrigation District, Miscellaneous
- 81. Fruitridge Fire Protection District, Miscellaneous
- 82. Fruitridge Fire Protection District, Safety Fire
- 83. Lakeside Fire Protection District, Miscellaneous
- 84. Los Angeles Community College District, Safety Police
- 85. Monterey County Water Resources Agency, Miscellaneous
- 86. Monterey-Salinas Transit District, Miscellaneous
- 87. Moulton-Niguel Water District, Miscellaneous
- 88. Northern California Special Districts Insurance Authority, Miscellaneous
- 89. Pomona, Calif State Polytechnic University, Associated Students, Inc., Miscellaneous
- 90. Riverside County Air Pollution Control District, Miscellaneous
- 91. Riverside County Flood Control and Water Conservation District, Miscellaneous
- 92. Riverside County Regional Park and Open Space District, Miscellaneous
- 93. San Luis Obispo Cal Poly Associated Students, Inc., Miscellaneous
- 94. Town of Hillsborough, Miscellaneous
- 95. Town of Tiburon, Safety Police
- 96. Town of Yountville, Miscellaneous

- 1. Belmont-San Carlos Fire Department, Miscellaneous
- 2. Brooktrails Township Community Services District, Miscellaneous
- California Interscholastic Federation, Southern Section, Miscellaneous
- 4. California Interscholastic Federation, State Office, Miscellaneous
- 5. Capitol Area Development Authority, Miscellaneous
- 6. City and County of San Francisco, Safety Police
- 7. City of Antioch, Miscellaneous
- 8. City of Capitola, Miscellaneous
- 9. City of Capitola, Safety Fire
- 10. City of Capitola, Safety Police
- 11. City of Corcoran, Miscellaneous
- 12. City of Corcoran, Safety Fire
- 13. City of Corcoran, Safety Police
- 14. City of Cotati, Safety Police
- 15. City of Crescent City, Miscellaneous
- 16. City of Crescent City, Safety Police
- 17. City of Del Mar, Safety Other Safety
- 18. City of Emeryville, Safety Police
- 19. City of Eureka, Safety Fire
- 20. City of Eureka, Safety Police
- 21. City of Glendora, Miscellaneous
- 22. City of Inglewood, Safety Police
- 23. City of La Puente, Miscellaneous
- 24. City of Lakeport, Miscellaneous
- 25. City of Lakeport, Safety Police
- 26. City of Martinez, Safety Fire
- 27. City of Montclair, Miscellaneous
- 28. City of Montclair, Safety Fire
- 29. City of Palm Desert, Miscellaneous
- 30. City of Palos Verdes Estates, Safety Fire
- 31. City of Palos Verdes Estates, Safety Police
- 32. City of Patterson, Safety Fire
- 33. City of Patterson, Safety Police
- 34. City of Santa Barbara, Safety Fire
- 35. City of Santa Barbara, Safety Police
- 36. City of Sierra Madre, Safety Police
- 37. City of Solana Beach, Miscellaneous
- 38. City of Solana Beach, Safety Other Safety
- 39. City of Stanton, Miscellaneous

- 40. City of Stanton, Safety Fire
- 41. City of Stanton, Safety Police
- 42. City of Susanville, Safety Police
- 43. City of Visalia, Miscellaneous
- 44. City of Vista, Miscellaneous
- 45. City of Watsonville, Safety Fire
- 46. City of Watsonville, Safety Police
- 47. County of Alpine, Miscellaneous
- 48. County of Alpine, Safety County Peace Officer
- 49. County of Alpine, Safety Fire
- 50. County of Calaveras, Miscellaneous
- 51. County of Calaveras, Safety County Peace Officer
- 52. County of Calaveras, Safety Fire
- 53. Los Angeles County Office of Education, Miscellaneous
- 54. Main San Gabriel Basin Watermaster, Miscellaneous
- 55. North Coast Unified Air Quality Management District, Miscellaneous
- 56. Pacific Fire Protection District, Miscellaneous
- 57. Public Risk Innovation, Solutions and Management, Miscellaneous
- 58. Pupil Transportation Cooperative, Miscellaneous
- 59. Rancho California Water District, Miscellaneous
- 60. Running Springs Water District, Miscellaneous
- 61. Running Springs Water District, Safety Fire
- 62. San Diego Trolley, Inc., Miscellaneous
- 63. San Francisco County Transportation Authority, Miscellaneous
- 64. Sonoma County Library, Miscellaneous
- 65. Tahoe Transportation District, Miscellaneous

- 1. Access Services Incorporated, Miscellaneous
- Agoura Hills and Calabasas Community Center, Miscellaneous
- 3. Alameda Alliance for Health, Miscellaneous
- 4. Alameda Corridor Transportation Authority, Miscellaneous
- 5. Alameda County Fire Department, Miscellaneous
- 6. Alameda County Fire Department, Safety Fire
- 7. Alameda County Mosquito Abatement District, Miscellaneous
- 8. Alameda County Transportation Authority, Miscellaneous
- 9. American Canyon Fire Protection District, Safety Fire
- 10. Apple Valley Fire Protection District, Miscellaneous
- 11. Apple Valley Fire Protection District, Safety Fire
- 12. Arcata Fire Protection District, Miscellaneous
- 13. Arcata Fire Protection District, Safety Fire
- 14. Association of California Water Agencies, Miscellaneous
- 15. Avila Beach Community Services District, Miscellaneous
- 16. Baldwin Park Unified School District, Safety Police
- Beaumont-Cherry Valley Recreation and Park District, Miscellaneous
- 18. Belmont-San Carlos Fire Department, Safety Fire
- 19. Belvedere-Tiburon Library Agency, Miscellaneous
- 20. Big Bear City Community Services District, Miscellaneous
- 21. Bighorn-Desert View Water Agency, Miscellaneous
- 22. Bodega Bay Fire Protection District, Miscellaneous
- 23. Bodega Bay Fire Protection District, Safety Fire
- 24. Borrego Springs Fire Protection District, Miscellaneous
- 25. Borrego Water District, Miscellaneous
- 26. Broadmoor Police Protection District, Miscellaneous
- 27. Broadmoor Police Protection District, Safety Police
- Brooktrails Township Community Services District, Safety -Fire
- 29. Buena Park Library District, Miscellaneous
- 30. Butte County Air Quality Management District, Miscellaneous
- 31. Butte Schools Self-Funded Programs, Miscellaneous
- California Firefighter's Joint Apprenticeship Committee, Safety
 Fire
- 33. California Intergovernmental Risk Authority, Miscellaneous
- 34. California Pines Community Services District, Miscellaneous
- 35. Cambria Community Healthcare District, Miscellaneous
- 36. Cambria Community Healthcare District, Safety Fire
- 37. Cameron Park Community Services District, Miscellaneous
- 38. Cameron Park Community Services District, Safety Fire

- 39. Camrosa Water District, Miscellaneous
- 40. Casitas Municipal Water District, Miscellaneous
- 41. Castaic Lake Water Agency, Miscellaneous
- 42. Castro Valley Sanitary District, Miscellaneous
- 43. Central Calaveras Fire and Rescue Protection District, Safety -Fire
- 44. Central Coast Water Authority, Miscellaneous
- 45. Central Valley Regional Center, Inc., Miscellaneous
- 46. City and County of San Francisco, Miscellaneous
- 47. City of Adelanto, Safety Police
- 48. City of Agoura Hills, Miscellaneous
- 49. City of Alameda, Miscellaneous
- 50. City of Alameda, Safety Fire
- 51. City of Alameda, Safety Police
- 52. City of Alhambra, Miscellaneous
- 53. City of Alhambra, Safety Fire
- 54. City of Alhambra, Safety Police
- 55. City of Arcadia, Miscellaneous
- 56. City of Arcadia, Safety Police
- 57. City of Bell, Safety Fire
- 58. City of Bell, Safety Police
- 59. City of Belvedere, Miscellaneous
- 60. City of Belvedere, Safety Police
- 61. City of Benicia, Miscellaneous
- 62. City of Berkeley, Miscellaneous
- 63. City of Brentwood, Miscellaneous
- 64. City of Brentwood, Safety Fire
- 65. City of Brentwood, Safety Police
- 66. City of Brisbane, Miscellaneous
- 67. City of Brisbane, Safety Fire
- 68. City of Brisbane, Safety Police
- 69. City of Burlingame, Miscellaneous
- 70. City of Calabasas, Miscellaneous
- 71. City of Campbell, Miscellaneous
- 72. City of Carlsbad, Miscellaneous
- 73. City of Carlsbad, Safety Police
- 74. City of Claremont, Miscellaneous
- 75. City of Claremont, Safety Police
- 76. City of Clayton, Miscellaneous
- 77. City of Compton, Miscellaneous
- 78. City of Compton, Safety Police
- 79. City of Corona, Safety Police

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80.	City of Costa Mesa, Miscellaneous
81.	City of Costa Mesa, Safety - Fire
82.	City of Costa Mesa, Safety - Police
83.	City of Cypress, Miscellaneous
84.	City of Daly City, Miscellaneous
85.	City of Daly City, Safety - Police
86.	City of Dana Point, Miscellaneous
87.	City of Del Mar, Miscellaneous
88.	City of Dinuba, Miscellaneous
89.	City of Dinuba, Safety - Fire
90.	City of Dinuba, Safety - Police
91.	City of Downey, Safety - Fire
92.	City of Downey, Safety - Police
93.	City of Duarte, Miscellaneous
94.	City of Dublin, Miscellaneous
95.	City of East Palo Alto, Miscellaneous
96.	City of East Palo Alto, Safety - Police
97.	City of El Cajon, Safety - Fire
98.	City of El Cajon, Safety - Police
99.	City of El Centro, Miscellaneous
100.	City of Emeryville, Miscellaneous
101.	City of Encinitas, Miscellaneous
102.	City of Encinitas, Safety - Fire
103.	City of Encinitas, Safety - Other Safety
104.	City of Eureka, Miscellaneous
105.	City of Exeter, Safety - Police
106.	City of Fortuna, Safety - Police
	City of Gardena, Miscellaneous
108.	City of Gardena, Safety - Fire
	City of Gardena, Safety - Police
	City of Gilroy, Miscellaneous
	City of Gridley, Miscellaneous
	City of Gridley, Safety - Fire
	City of Gridley, Safety - Police
	City of Half Moon Bay, Miscellaneous
	City of Hanford, Miscellaneous
	City of Hayward, Safety - Fire
	City of Hayward, Safety - Police
	City of Hemet, Safety - Fire
	City of Hercules, Miscellaneous
	City of Hercules, Safety - Police
121.	City of Hermosa Beach, Miscellaneous

122. City of Hermosa Beach, Safety - Fire
123. City of Hermosa Beach, Safety - Police
124. City of Highland, Miscellaneous
125. City of Inglewood, Miscellaneous
126. City of Inglewood, Safety - Fire
127. City of La Mesa, Safety - Fire
128. City of La Mesa, Safety - Police
129. City of La Quinta, Miscellaneous
130. City of Laguna Hills, Miscellaneous
131. City of Laguna Niguel, Miscellaneous
132. City of Lake Forest, Miscellaneous
133. City of Lancaster, Miscellaneous
134. City of Larkspur, Miscellaneous
135. City of Lathrop, Miscellaneous
136. City of Lodi, Miscellaneous
137. City of Lodi, Safety - Fire
138. City of Lodi, Safety - Police
139. City of Lompoc, Miscellaneous
140. City of Los Altos, Miscellaneous
141. City of Los Altos, Safety - Police
142. City of Lynwood, Safety - Fire
143. City of Manhattan Beach, Miscellaneous
144. City of Marysville, Miscellaneous
145. City of Menlo Park, Safety - Police
146. City of Mill Valley, Miscellaneous
147. City of Milpitas, Miscellaneous
148. City of Milpitas, Safety - Fire
149. City of Mission Viejo, Miscellaneous
150. City of Modesto, Miscellaneous
151. City of Montclair, Safety - Police
152. City of Montebello, Safety - Fire
153. City of Montebello, Safety - Police
154. City of Mountain View, Miscellaneous
155. City of National City, Miscellaneous
156. City of National City, Safety - Fire
157. City of National City, Safety - Police
158. City of Norwalk, Miscellaneous
159. City of Oakdale, Miscellaneous
160. City of Oakdale, Safety - Police
161. City of Oakland, Safety - Fire
162. City of Oceanside, Miscellaneous
162 City of Oceanaida Cafaty Fire

163. City of Oceanside, Safety - Fire

164. City of Oceanside, Safety - Police 165. City of Oxnard, Safety - Police 166. City of Palmdale, Miscellaneous 167. City of Palos Verdes Estates, Miscellaneous 168. City of Patterson, Miscellaneous 169. City of Petaluma, Miscellaneous 170. City of Pinole, Miscellaneous 171. City of Pinole, Safety - Fire 172. City of Pinole, Safety - Police 173. City of Pleasant Hill, Miscellaneous 174. City of Pleasant Hill, Safety - Police 175. City of Pleasanton, Miscellaneous 176. City of Redwood City, Miscellaneous 177. City of Riverside, Miscellaneous 178. City of Riverside, Safety - Fire 179. City of Riverside, Safety - Police 180. City of Rohnert Park, Miscellaneous 181. City of Rohnert Park, Safety - Fire 182. City of Rohnert Park, Safety - Police 183. City of Roseville, Miscellaneous 184. City of Roseville, Safety - Fire 185. City of San Buenaventura, Safety - Fire 186. City of San Carlos, Safety - Police 187. City of San Dimas, Miscellaneous 188. City of San Joaquin, Miscellaneous 189. City of San Jose, Miscellaneous 190. City of San Luis Obispo, Safety - Fire 191. City of San Marino, Safety - Police 192. City of San Pablo, Miscellaneous 193. City of San Pablo, Safety - Police 194. City of Santa Cruz, Miscellaneous 195. City of Santa Cruz, Safety - Fire 196. City of Santa Cruz, Safety - Police 197. City of Santa Paula, Miscellaneous 198. City of Santa Paula, Safety - Police 199. City of Santee, Miscellaneous 200. City of Saratoga, Miscellaneous 201. City of Seal Beach, Miscellaneous 202. City of Seal Beach, Safety - Other Safety 203. City of Seal Beach, Safety - Police 204. City of Sebastopol, Miscellaneous 205. City of Sebastopol, Safety - Fire

206. City of Sebastopol, Safety - Police 207. City of Sonoma, Miscellaneous 208. City of Sonoma, Safety - Fire 209. City of South San Francisco, Safety - Fire 210. City of South San Francisco, Safety - Police 211. City of Suisun City, Miscellaneous 212. City of Suisun City, Safety - Fire 213. City of Sunnyvale, Miscellaneous 214. City of Sunnyvale, Safety - Police 215. City of Turlock, Miscellaneous 216. City of Tustin, Miscellaneous 217. City of Twentynine Palms, Miscellaneous 218. City of Ukiah, Miscellaneous 219. City of Ukiah, Safety - Fire 220. City of Union City, Miscellaneous 221. City of Upland, Miscellaneous 222. City of Upland, Safety - Fire 223. City of Upland, Safety - Police 224. City of Vernon, Miscellaneous 225. City of Vernon, Safety - Prosecutor 226. City of Victorville, Safety - Police 227. City of West Sacramento, Miscellaneous 228. City of West Sacramento, Safety - Police 229. City of Whittier, Miscellaneous 230. City of Whittier, Safety - Police 231. City of Woodlake, Miscellaneous 232. City of Woodlake, Safety - Police 233. City of Yucaipa, Miscellaneous 234. Coachella Valley Association of Governments, Miscellaneous 235. Coast Life Support District, Miscellaneous 236. Coast Life Support District, Safety - Fire 237. Coastal Developmental Services Fdn DBA Westside Regional Center, Miscellaneous 238. Compton Unified School District, Safety - Police 239. Contra Costa County Schools Insurance Group, Miscellaneous 240. Cooperative Personnel Services, Miscellaneous 241. Cottonwood Fire Protection District, Safety - Fire 242. County of Amador, Safety - County Peace Officer 243. County of Amador, Safety - Fire 244. County of Amador, Safety - Prosecutor 245. County of El Dorado, Miscellaneous

246. County of Inyo, Safety - County Peace Officer

- 247. County of Lassen, Safety County Peace Officer
- 248. County of Plumas, Miscellaneous
- 249. County of Santa Cruz, Safety County Peace Officer
- 250. County of Santa Cruz, Safety Sheriff
- 251. County of Yuba, Miscellaneous
- 252. County of Yuba, Safety County Peace Officer
- 253. Crestline Lake Arrowhead Water Agency, Miscellaneous
- 254. Dairy Council of California, Miscellaneous
- 255. Del Norte County Library District, Miscellaneous
- 256. Dougherty Regional Fire Authority, Miscellaneous
- 257. Dougherty Regional Fire Authority, Safety Fire
- 258. El Dorado County Fire Protection District, Miscellaneous
- 259. El Dorado County Fire Protection District, Safety Fire
- 260. El Dorado County Transit Authority, Miscellaneous
- 261. El Dorado Hills County Water District, Miscellaneous
- 262. Encina Wastewater Authority, Miscellaneous
- 263. Encinitas Fire Protection District, Miscellaneous
- 264. Encinitas Fire Protection District, Safety Fire
- 265. Feather River Air Quality Management District, Miscellaneous
- 266. Fontana Unified School District, Safety Police
- 267. Fort Ord Reuse Authority, Miscellaneous
- 268. Georgetown Fire Protection District, Miscellaneous
- 269. Georgetown Fire Protection District, Safety Fire
- 270. Greater Anaheim Special Education Local Plan Area, Miscellaneous
- 271. Greater Vallejo Recreation District, Miscellaneous
- 272. Green Valley County Water District, Miscellaneous
- 273. Grossmont Healthcare District, Miscellaneous
- 274. Gualala Community Services District, Miscellaneous
- 275. Henry Miller Reclamation District No. 2131, Miscellaneous
- 276. Higgins Area Fire Protection District, Miscellaneous
- 277. Higgins Area Fire Protection District, Safety Fire
- 278. Hilton Creek Community Services District, Miscellaneous
- 279. Housing Authority of the City of Madera, Miscellaneous
- 280. Human Rights/Fair Housing Commission of the City and County of Sacramento, Miscellaneous
- 281. Humboldt Bay Harbor Recreation and Conservation District, Miscellaneous
- Humboldt No. 1 Fire Protection District of Humboldt County, Safety - Fire
- 283. Independent Cities Association, Inc., Miscellaneous
- 284. Indian Wells Valley Water District, Miscellaneous
- 285. Inland Counties Regional Center, Inc., Miscellaneous

- 286. Inland Empire Health Plan, Miscellaneous
- 287. Isla Vista Recreation and Park District, Miscellaneous
- 288. June Lake Public Utility District, Miscellaneous
- 289. Kern Health Systems, Miscellaneous
- 290. Kings Mosquito Abatement District, Miscellaneous
- 291. Laguna Beach County Water District, Miscellaneous
- 292. Lake Don Pedro Community Services District, Miscellaneous
- 293. Leucadia Wastewater District, Miscellaneous
- 294. Los Angeles County Area 'E' Civil Defense and Disaster Board, Miscellaneous
- 295. Los Angeles County Sanitation District No. 2, Miscellaneous
- 296. Los Angeles County West Vector Control District, Miscellaneous
- 297. Los Angeles Regionalized Insurance Services Authority, Miscellaneous
- 298. Los Gatos-Saratoga Department of Community Education and Recreation, Miscellaneous
- 299. Los Osos Community Services District, Miscellaneous
- 300. Los Osos Community Services District, Safety Fire
- 301. Majestic Pines Community Services District, Miscellaneous
- 302. Management of Emeryville Services Authority, Miscellaneous
- 303. Meeks Bay Fire Protection District, Miscellaneous
- 304. Mendocino Transit Authority, Miscellaneous
- 305. Metropolitan Transportation Commission, Miscellaneous
- 306. Mid City Development Corporation, Miscellaneous
- 307. Minter Field Airport District, Miscellaneous
- 308. Mojave Air and Space Port, Safety Fire
- 309. Mojave Water Agency, Miscellaneous
- 310. Montecito Fire Protection District, Miscellaneous
- 311. Montecito Fire Protection District, Safety Fire
- 312. Monterey County Regional Fire Protection District, Miscellaneous
- 313. Monterey County Regional Fire Protection District, Safety -Fire
- 314. Monterey One Water, Miscellaneous
- 315. Monterey Regional Waste Management District, Miscellaneous
- 316. Mountains Recreation and Conservation Authority, Miscellaneous
- 317. Murrieta Fire Protection District, Miscellaneous
- 318. Nevada Irrigation District, Miscellaneous
- 319. North Bay Schools Insurance Authority, Miscellaneous

- North County Fire Protection District of Monterey County, Safety - Fire
- 321. North Tahoe Fire Protection District, Miscellaneous
- 322. North Tahoe Fire Protection District, Safety Fire
- 323. Northern Sierra Air Quality Management District, Miscellaneous
- 324. Novato Sanitary District, Miscellaneous
- 325. Oakdale Rural Fire Protection District, Miscellaneous
- 326. Oakdale Rural Fire Protection District, Safety Fire
- 327. Oakland Unified School District, Safety Police
- 328. Ojai Valley Sanitary District, Miscellaneous
- 329. Ophir Hill Fire Protection District, Miscellaneous
- 330. Ophir Hill Fire Protection District, Safety Fire
- 331. Orange County Health Authority, Miscellaneous
- 332. Orange County Transportation Authority, Miscellaneous
- 333. Pajaro Valley Fire Protection Agency, Safety Fire
- 334. Peardale Chicago Park Fire Protection District, Safety Fire
- 335. Peninsula Fire Protection District, Miscellaneous
- 336. Penn Valley Fire Protection District, Miscellaneous
- 337. Personal Assistance Services Council, Miscellaneous
- 338. Placer Hills Fire Protection District, Miscellaneous
- 339. Pleasant Hill Martinez Joint Facilities Agency, Miscellaneous
- 340. Pomona Valley Transportation Authority, Miscellaneous
- 341. Public Entity Risk Management Authority, Miscellaneous
- 342. Public Transportation Services Corporation, Miscellaneous
- 343. Quincy Community Services District, Miscellaneous
- 344. Rancho Murieta Community Services District, Miscellaneous
- 345. Redwood Empire School Insurance Group, Miscellaneous
- 346. Rescue Fire Protection District, Miscellaneous
- 347. Rincon Del Diablo Municipal Water District, Safety Fire
- 348. Riverbank City Housing Authority, Miscellaneous
- 349. Riverside County Department of Waste Resources, Miscellaneous
- 350. Riverside County Transportation Commission, Miscellaneous
- 351. Roseville Public Cemetery District, Miscellaneous
- 352. Ross Valley Fire Department, Safety Fire
- 353. Rural County Representatives of California, Miscellaneous
- 354. Russian River Fire Protection District, Miscellaneous
- 355. Russian River Fire Protection District, Safety Fire
- 356. Sacramento Area Council of Governments, Miscellaneous
- 357. Sacramento Metropolitan Air Quality Management District, Miscellaneous
- 358. Sacramento Public Library Authority, Miscellaneous

- 359. Sacramento Regional Fire/EMS Communications Center, Miscellaneous
- 360. Sacramento Transportation Authority, Miscellaneous
- 361. Sacramento-Yolo Mosquito and Vector Control District, Miscellaneous
- 362. Salida Fire Protection District, Miscellaneous
- 363. Salida Fire Protection District, Safety Fire
- 364. Samoa Peninsula Fire Protection District, Safety Fire
- 365. San Andreas Regional Center, Inc., Miscellaneous
- 366. San Diego County Law Library, Miscellaneous
- 367. San Diego Rural Fire Protection District, Miscellaneous
- 368. San Diego Rural Fire Protection District, Safety Fire
- 369. San Dieguito Water District, Miscellaneous
- 370. San Francisco Health Authority, Miscellaneous
- 371. San Joaquin Delta Community College District, Safety Police
- 372. San Luis Obispo Regional Transit Authority, Miscellaneous
- 373. San Mateo County Harbor District, Miscellaneous
- 374. San Mateo County In-Home Supportive Services Public Authority, Miscellaneous
- 375. Santa Barbara Regional Health Authority, Miscellaneous
- Santa Clara County Central Fire Protection District, Miscellaneous
- 377. Santa Clara County Central Fire Protection District, Safety -Fire
- 378. Santa Clara County Health Authority, Miscellaneous
- Santa Clarita Valley School Food Services Agency, Miscellaneous
- 380. Santa Cruz Metropolitan Transit District, Miscellaneous
- 381. Santa Cruz Regional 9-1-1, Miscellaneous
- 382. Santa Fe Irrigation District, Miscellaneous
- 383. Santa Maria Public Airport District, Miscellaneous
- School Risk And Insurance Management Group, Miscellaneous
- 385. Schools Excess Liability Fund, Miscellaneous
- 386. Scotts Valley Water District, Miscellaneous
- 387. Sewer Authority Mid-Coastside, Miscellaneous
- 388. Shasta Lake Fire Protection District, Safety Fire
- 389. Solano Cemetery District, Miscellaneous
- 390. Solano County Water Agency, Miscellaneous
- 391. Solano Transportation Authority, Miscellaneous
- 392. Southern California Regional Rail Authority, Miscellaneous
- 393. Stockton Unified School District, Safety Police
- 394. Sunnyslope County Water District, Miscellaneous

- 395. Sweetwater Springs Water District, Miscellaneous
- 396. Tahoe-Truckee Sanitation Agency, Miscellaneous
- 397. Tehama County Mosquito Abatement District, Miscellaneous
- 398. Town of Atherton, Miscellaneous
- 399. Town of Atherton, Safety Police
- 400. Town of Fairfax, Miscellaneous
- 401. Town of Fairfax, Safety Police
- 402. Town of Loomis, Miscellaneous
- 403. Town of Truckee, Miscellaneous
- 404. Town of Yucca Valley, Miscellaneous
- 405. Transportation Agency for Monterey County, Miscellaneous
- 406. Tri-City Mental Health Center, Miscellaneous
- 407. Tri-Counties Association for the Developmentally Disabled, Miscellaneous
- 408. Tuolumne Utilities District, Miscellaneous
- 409. Valley Mountain Regional Center, Inc., Miscellaneous
- 410. Valley-Wide Recreation and Park District, Miscellaneous
- 411. Ventura County Schools Business Services Authority, Miscellaneous
- 412. Victor Valley Wastewater Reclamation Authority, Miscellaneous
- 413. Water Facilities Authority, Miscellaneous
- 414. Weaverville Community Services District, Miscellaneous
- 415. West Almanor Community Services District, Safety Fire
- 416. West Cities Communication Center, Miscellaneous
- 417. West End Communications Authority, Miscellaneous
- 418. West Valley-Mission Community College District, Safety -Police
- 419. Westlands Water District, Miscellaneous
- 420. Yolo County Public Agency Risk Management Insurance Authority, Miscellaneous
- 421. Yolo County Transportation District, Miscellaneous
- 422. Yuba County Water Agency, Miscellaneous
- 423. Yuba Sutter Transit Authority, Miscellaneous

- 1. Academic Senate for California Community Colleges, Miscellaneous
- 2. Alameda County Congestion Management Agency, Miscellaneous
- 3. Alameda County Schools Insurance Group, Miscellaneous
- 4. Alameda County Transportation Commission, Miscellaneous
- 5. Alameda County Transportation Improvement Authority, Miscellaneous
- 6. Alameda County Waste Management Authority, Miscellaneous
- 7. Alameda County Water District, Miscellaneous
- 8. Albany Municipal Services Joint Powers Authority, Miscellaneous
- 9. Alliance of Schools for Cooperative Insurance Programs, Miscellaneous
- 10. Alpine Fire Protection District, Miscellaneous
- 11. Alpine Fire Protection District, Safety Fire
- 12. Amador County Transportation Commission, Miscellaneous
- 13. Aptos/La Selva Fire Protection Agency, Safety Fire
- 14. Association of California Water Agencies Joint Powers Insurance Authority, Miscellaneous
- 15. Bay Area Water Supply and Conservation Agency, Miscellaneous
- 16. Belmont Fire Protection District, Safety Fire
- 17. Berkeley Housing Authority, Miscellaneous
- 18. Big Bear Area Regional Wastewater Agency, Miscellaneous
- 19. Big Bear City Airport District, Miscellaneous
- 20. Black Gold Cooperative Library System, Miscellaneous
- 21. Blue Lake Fire Protection District, Safety Fire
- 22. Bolinas Community Public Utility District, Miscellaneous
- 23. Bonita-Sunnyside Fire Protection District, Safety Fire
- 24. Borrego Springs Fire Protection District, Safety Fire
- 25. Boulder Creek Fire Protection District, Safety Fire
- 26. Butte County Association of Governments, Miscellaneous
- 27. Butte County Fair Association, Miscellaneous
- Butte County In-Home Supportive Services Public Authority, Miscellaneous
- 29. Butte Local Agency Formation Commission, Miscellaneous
- 30. Butte-Glenn Community College District, Safety Police
- 31. Calaveras Council of Governments, Miscellaneous
- 32. California Firefighter's Joint Apprenticeship Committee, Miscellaneous
- California Interscholastic Federation, Northern Section, Miscellaneous

- 34. California Joint Powers Risk Management Authority, Miscellaneous
- 35. California Pines Community Services District, Safety Fire
- 36. California Redevelopment Association Foundation, Miscellaneous
- 37. Carmel Regional Fire Ambulance Authority, Safety Fire
- Central Calaveras Fire and Rescue Protection District, Miscellaneous
- 39. Central Contra Costa Solid Waste Authority, Miscellaneous
- 40. Central County Fire Department, Miscellaneous
- 41. Central County Fire Department, Safety Fire
- 42. Central Fire Protection District of Santa Cruz County, Safety -Fire
- 43. Central Marin Fire Authority, Miscellaneous
- 44. Central Marin Fire Authority, Safety Fire
- 45. Central Marin Police Authority, Miscellaneous
- 46. Central Marin Police Authority, Safety Police
- 47. Central Marin Sanitation Agency, Miscellaneous
- Children and Families Commission of San Luis Obispo County, Miscellaneous
- 49. Chino Basin Watermaster, Miscellaneous
- 50. Chino Valley Independent Fire District, Miscellaneous
- 51. Chino Valley Independent Fire District, Safety Fire
- 52. City of Adelanto, Miscellaneous
- 53. City of Albany, Safety Fire
- 54. City of Albany, Safety Police
- 55. City of Anaheim, Miscellaneous
- 56. City of Anaheim, Safety Fire
- 57. City of Anaheim, Safety Police
- 58. City of Arcadia, Safety Fire
- 59. City of Atascadero, Safety Fire
- 60. City of Atascadero, Safety Police
- 61. City of Auburn, Safety Fire
- 62. City of Auburn, Safety Police
- 63. City of Azusa, Miscellaneous
- 64. City of Azusa, Safety Police
- 65. City of Bakersfield, Miscellaneous
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- 12. City of Berkeley, Safety Fire
- 13. City of Crescent City, Safety Fire
- 14. City of Del Mar, Safety Fire
- 15. City of Eastvale, Miscellaneous
- 16. City of Emeryville, Safety Fire
- 17. City of Garden Grove, Miscellaneous
- 18. City of Garden Grove, Safety Fire
- 19. City of Garden Grove, Safety Police
- 20. City of Greenfield, Safety Fire
- 21. City of Hanford, Safety Fire
- 22. City of Madera, Miscellaneous
- 23. City of Madera, Safety Police
- 24. City of Maywood, Miscellaneous
- 25. City of Mill Valley, Safety Fire
- 26. City of Mill Valley, Safety Police
- 27. City of Modesto, Safety Fire
- 28. City of Modesto, Safety Police
- 29. City of Monterey, Safety Fire
- 30. City of Monterey, Safety Police
- 31. City of Napa, Miscellaneous
- 32. City of Napa, Safety Fire
- 33. City of Newark, Miscellaneous
- 34. City of Newark, Safety Fire
- 35. City of Newark, Safety Police
- 36. City of Oceanside, Safety Other Safety
- 37. City of Poway, Miscellaneous
- 38. City of Poway, Safety Fire

- 39. City of Rancho Cordova, Miscellaneous
- 40. City of Rancho Santa Margarita, Miscellaneous
- 41. City of Redding, Miscellaneous
- 42. City of Sacramento, Safety Police
- 43. City of Salinas, Safety Police
- 44. City of San Carlos, Safety Fire
- 45. City of San Marcos, Safety Fire
- 46. City of Santa Clarita, Miscellaneous
- 47. City of Santee, Safety Fire
- 48. City of Shasta Lake, Miscellaneous
- 49. City of Solana Beach, Safety Fire
- 50. City of South Lake Tahoe, Miscellaneous
- 51. City of South Lake Tahoe, Safety Fire
- 52. City of Yuba City, Miscellaneous
- 53. City of Yuba City, Safety Fire
- 54. City of Yuba City, Safety Police
- Coalinga/Huron Unified School District Library District, Miscellaneous
- 56. Coastal Animal Services Authority, Miscellaneous
- 57. Contra Costa Community College District, Safety Police
- Cooperative Organization for the Development of Employee Selection Procedures, Miscellaneous
- 59. County of Riverside, Miscellaneous
- 60. County of Riverside, Safety County Peace Officer
- 61. County of Riverside, Safety Fire
- 62. Foothill Municipal Water District, Miscellaneous
- 63. Foundation for California Community Colleges, Miscellaneous
- 64. Greater Los Angeles County Vector Control District, Miscellaneous
- 65. Greenfield Fire Protection District, Safety Fire
- 66. Hesperia Unified School District, Safety Police
- 67. Housing Authority of the County of Santa Cruz, Miscellaneous
- 68. Inland Empire Resource Conservation District, Miscellaneous
- 69. Jurupa Area Recreation and Park District, Miscellaneous
- 70. Loomis Fire Protection District, Miscellaneous
- 71. Loomis Fire Protection District, Safety Fire
- 72. Marin Children and Families Commission, Miscellaneous
- Marin County In-Home Supportive Services Public Authority, Miscellaneous
- 74. Menlo Park Fire Protection District, Miscellaneous
- 75. Menlo Park Fire Protection District, Safety Fire
- 76. Midpeninsula Regional Open Space District, Miscellaneous

- 77. Mojave Air and Space Port, Miscellaneous
- 78. North Bay Cooperative Library System, Miscellaneous
- 79. North Delta Water Agency, Miscellaneous
- 80. Oceano Community Services District, Safety Fire
- 81. Penryn Fire Protection District, Safety Fire
- 82. Plumas Local Agency Formation Commission, Miscellaneous
- 83. Redwood Coast Regional Center, Miscellaneous
- 84. Regional Center of the East Bay, Miscellaneous
- 85. Sacramento Area Flood Control Agency, Miscellaneous
- 86. San Diego County Office Of Education, Miscellaneous
- 87. San Elijo Joint Powers Authority, Miscellaneous
- 88. San Francisquito Creek Joint Powers Authority, Miscellaneous
- 89. Santa Clara Valley Open Space Authority, Miscellaneous
- 90. Santa Monica Community College District, Safety Police
- 91. Schools Insurance Authority, Miscellaneous
- 92. Scotts Valley Fire Protection District, Miscellaneous
- 93. Scotts Valley Fire Protection District, Safety Fire
- 94. Shasta Local Agency Formation Commission, Miscellaneous
- 95. Sonoma Marin Area Rail Transit District, Miscellaneous
- 96. State and Federal Contractors Water Agency, Miscellaneous
- 97. Stege Sanitary District, Miscellaneous
- 98. Town of Truckee, Safety Police
- 99. Utica Water and Power Authority, Miscellaneous
- 100. Vallejo Flood and Wastewater District, Miscellaneous
- 101. Williams Fire Protection Authority, Miscellaneous
- 102. Williams Fire Protection Authority, Safety Fire
- 103. Yolo County In-Home Supportive Services Public Authority, Miscellaneous
- 104. Yuba Community College District, Safety Polices

Accrued Liability (Actuarial Accrued Liability)

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

Actuarial Assumptions

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

Actuarial Methods

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

Actuarial Valuation

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

Actuary

A business professional proficient in mathematics and statistics who performs the calculations necessary to properly fund a pension plan and allow the plan sponsor to disclose its liabilities. An actuary performing an actuarial valuation for a public retirement system in California must satisfy the qualification standards for actuaries issuing statements of actuarial opinion in the United States with regard to pensions.

Amortization Bases

Separate payment schedules for different portions of the Unfunded Accrued Liability (UAL). The total UAL of a rate plan can be segregated by cause. The impact of such individual causes on the UAL are quantified at the time of their occurrence, resulting in new amortization bases. Each base is separately amortized and paid for over a specific period of time. Generally, in an actuarial valuation, the separate bases consist of changes in UAL due to contract amendments, actuarial assumption changes, method changes, and/or experience gains and losses.

Amortization Period

The number of years required to pay off an Amortization Base.

Discount Rate

This is the rate used to discount the expected future benefit payments to the valuation date to determine the Projected Value of Benefits. Different discount rates will produce different measures of the Projected Value of Benefits. The discount rate for funding purposes is based on the assumed long-term rate of return on plan assets, net of investment and administrative expenses. This rate is called the "actuarial interest rate" in Section 20014 of the California Public Employees' Retirement Law.

Entry Age

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

Entry Age Actuarial Cost Method

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

Fresh Start

A Fresh Start is when multiple amortization bases are combined into a single base and amortized over a new Amortization Period.

Funded Ratio

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

Glossary (continued)

Funded Status

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

Funding Target

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

Normal Cost

The portion of the Present Value of Benefits allocated to the upcoming fiscal year for active employees. Different actuarial cost methods and different assumptions will lead to different measures of Normal Cost. The Normal Cost under the Entry Age Actuarial Cost Method, using the assumptions adopted by the board, plus the required amortization of the UAL, if any, make up the required contributions.

Present Value of Benefits (PVB)

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

Term Insurance Method

An actuarial cost method designed such that contributions are made to the plan to meet benefit payments expected to fall due within the year for which the contribution is made.

Unfunded Accrued Liability (UAL)

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

Actuarial Office 400 Q Street Sacramento, CA 95811 TTY - (877) 249-7442 (888) 225-7377 FAX (916) 795-2744

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