



San Joaquin County Employees' Retirement Association

Actuarial Valuation Report as of December 31, 2024

Produced by Cheiron September 2025

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September 3, 2025

Retirement Board of San Joaquin County Employees' Retirement Association 220 East Channel Street Stockton, CA 95202

Dear Members of the Board:

At your request, we have conducted an actuarial valuation of the San Joaquin County Employees' Retirement Association (SJCERA, the System, the Fund, the Plan) as of December 31, 2024. This report contains information on the System's assets and liabilities and discloses employer and employee contribution levels. It also contains schedules for inclusion in the Actuarial Section of the Annual Financial Report. Your attention is called to the Executive Summary in which we refer to the general approach employed in the preparation of this report.

The purpose of this report is to present the results of the annual actuarial valuation of SJCERA. This report is for the use of the Retirement Board of SJCERA and its auditors in preparing financial reports in accordance with applicable law and accounting requirements.

Cheiron's report was prepared solely for the Retirement Board of SJCERA for the purposes described herein, except that the plan auditor may rely on this report solely for the purpose of completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any other user.

This report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Sincerely, Cheiron

Graham A. Schmidt, FSA, EA, MAAA, FCA

Principal Consulting Actuary

Anne D. Harper, FSA, EA, MAAA Principal Consulting Actuary

SECTION I – EXECUTIVE SUMMARY

Cheiron has performed the actuarial valuation of the San Joaquin County Employees' Retirement Association as of December 31, 2024. The valuation is organized as follows:

- In Section I, the **Executive Summary**, we describe the purpose of an actuarial valuation, summarize the key results found in this valuation and disclose important trends.
- The **Main Body** of the report presents details on the System's
 - Section II Disclosures Related to Risk
 - o Section III Assets
 - Section IV Liabilities
 - Section V Contributions
 - o Section VI Additional Financial Report Schedules
- In the **Appendices**, we conclude our report with detailed information describing plan membership (Appendix A), actuarial assumptions and methods employed in the valuation (Appendix B), a summary of pertinent plan provisions (Appendix C), a 401(h) repayment schedule (Appendix D), a glossary of key actuarial terms (Appendix E), a summary of General and Safety Employer contribution rates (Appendix F), and tables containing member contribution rates (Appendix G).

Future results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the assumptions; changes in assumptions; and, changes in plan provisions or applicable law.

Cheiron utilizes ProVal actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate liabilities and project benefit payments. We have relied on WinTech as the developer of ProVal. We have a basic understanding of ProVal and have used ProVal in accordance with its original intended purpose. We have not identified any material inconsistencies in assumptions or output of ProVal that would affect this valuation.

Deterministic and stochastic projections in this valuation report were developed using R-scan, a proprietary tool used to illustrate the impact of changes in assumptions, methods, plan provisions, or actual experience (particularly investment experience) on the future financial status of the Plan. R-scan uses standard roll-forward techniques that implicitly assume a stable active population. Because R-scan does not automatically capture how changes in one variable affect all other variables, some scenarios may not be consistent.

In preparing our report, we relied on information (some oral and some written) supplied by the SJCERA staff. This information includes, but is not limited to, plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.



SECTION I – EXECUTIVE SUMMARY

The primary purpose of the actuarial valuation and this report is to measure, describe, and identify the following as of the valuation date:

- The financial condition of the System,
- Past and expected trends in the financial progress of the System,
- Employer and employee contribution rates for Plan Year 2026, and
- An assessment and disclosure of key risks.

The information required under GASB standards Nos. 67 and 68 is included in a separate report, with the report for the Plan's Fiscal Year Ending December 31, 2024 provided to SJCERA in April 2025.

In the balance of this Executive Summary, we present (A) the basis upon which this year's valuation was completed, (B) the key findings of this valuation including a summary of key financial results, (C) an examination of the historical trends, and (D) the projected financial outlook for the System.

A. Valuation Basis

This valuation determines the employer contributions for the Plan Year 2026. The System's funding policy is to contribute an amount equal to the sum of:

- The normal cost under the Entry Age Normal Cost Method,
- Amortization of the Unfunded Actuarial Liability (UAL), and
- A portion of the Fund's expected administrative expenses.

The UAL that existed as of 2014 is being amortized over a closed period as a level percentage of payroll, with eight years remaining as of the current valuation, with the exception of a fixed amount associated with the extraordinary investment loss from 2008, which is amortized as a separate layer with 14 years remaining as of the current valuation. All new unexpected changes in the UAL emerging after 2014 are amortized over 15-year periods, with new amortization layers added each year. The single equivalent amortization period for the aggregate stream of UAL payments is nine years for General and ten years for Safety. Tables V-4 and V-5 show a detailed summary of each amortization layer for General and Safety, respectively.

This valuation was prepared based on the plan provisions shown in Appendix C.



SECTION I – EXECUTIVE SUMMARY

B. Key Findings of this Valuation

The key results of the December 31, 2024 actuarial valuation are as follows:

- The actuarially determined employer contribution rate decreased from 49.20% to 46.95%.
- The System's funded ratio, the ratio of assets over the Actuarial Liability, increased from 74.0% last year to 77.9% as of December 31, 2024 on an Actuarial Value of Assets (AVA) basis. It increased from 70.5% to 76.5% on a Market Value of Assets (MVA) basis.
- The Unfunded Actuarial Liability (UAL) is the excess of the System's Actuarial Liability over the Actuarial Value of Assets. The System experienced a decrease in the UAL from \$1,546.0 million to \$1,344.3 million as of December 31, 2024.
- During the year ending December 31, 2024, the return on Plan assets was 8.84% on a market value basis, as compared to the 6.75% assumption. This resulted in a market value gain on investments of \$88.8 million. The Actuarial Value of Assets recognizes 20% of the difference between the expected Actuarial Value of Assets and the Market Value of Assets each year over a five-year period. This method of smoothing the asset gains and losses returned 6.37% on the smoothed value of assets, an actuarial asset loss of \$16.0 million for the year.
- The Actuarial Value of Assets is currently 102% of the market value. Since actuarial assets are above market assets, there are unrecognized investment losses (approximately \$91 million) that will be reflected in the smoothed value in future years.
- The System experienced a gain on the Actuarial Liability of \$13.4 million primarily due to lower than expected pay increases for returning active members.
- During 2024, the Mosquito and Vector Control District (MVCD), the Superior Court of California, and the County of San Joaquin made additional voluntary contributions (above the actuarially determined amount) of \$28.9 million. The total market value of the additional contributions, including prior year amounts and accumulated with interest at the Plan's actual rate of return, was \$288.2 million as of December 31, 2024. These assets are included in the calculation of the UAL and funded ratio, but under the funding policy requested by the contributors and approved by the Board, these assets are excluded in the calculation of the employer contribution rates.
- New assumptions were adopted by the Board as part of the Experience Study. The net impact of the new assumptions was a reduction in the Actuarial Liability of \$62.1 million and a reduction in the actuarially determined employer contribution rate of 1.12% of pay.



SECTION I – EXECUTIVE SUMMARY

Table I-1 below summarizes all the key results of the valuation with respect to membership, assets and liabilities, and contributions. The results are presented and compared for both the current and prior plan year.

Table I-1 Summary of Principal Plan Results									
		December 31, 2023	December 31, 2024	% Change					
Participant Counts									
Active Participants		6,661	6,913	3.78%					
Participants Receiving a Benefit		6,796	6,931	1.99%					
Terminated Vested Participants		1,228	1,265	3.01%					
Terminated Non-Vested Participants		1,708	1,866	9.25%					
Total		16,393	16,975	3.55%					
Calendar Year Projected Pay	\$	592,765,768 \$	624,181,464	5.30%					
Assets and Liabilities									
Actuarial Liability (AL)	\$	5,940,503,229 \$	6,094,004,166	2.58%					
Actuarial Value of Assets (AVA) ¹		4,394,462,603	4,749,710,229	8.08%					
Unfunded Actuarial Liability (UAL)	\$	1,546,040,626 \$	1,344,293,937	-13.05%					
Funded Ratio (AVA)		74.0%	77.9%	3.9%					
Market Value of Assets (MVA) ²	\$	4,186,522,707 \$	4,659,126,604	11.29%					
Funded Ratio (MVA)		70.5%	76.5%	6.0%					
Inactive Funded Ratio		67.1%	67.7%	0.6%					
Contributions as a Percentage of Payro	<u>oll</u>								
Normal Cost Rate	=	13.48%	12.44%	-1.04%					
Unfunded Actuarial Liability Rate ³		34.95%	33.38%	-1.57%					
Administrative Expense		0.77%	1.13%	0.36%					
Total Contribution Rate		49.20%	46.95%	-2.25%					

¹ Includes additional County, MVCD, and Superior Court Contribution Reserves but excludes the Contingency Reserve.

The Inactive Funded Ratio shown in Table I-1 represents the percentage of the Actuarial Liability attributable to members who are not active employees. A funded ratio of 67.7% or more, for example, would result in a level of assets anticipated to be sufficient to fund the liabilities of the System's inactive members for their expected lifetimes: those currently retired, disabled, terminated with vested benefits, and their beneficiaries.



² Includes additional County, MVCD, and Superior Court Contribution Reserves but excludes the Contingency Reserve.

³ Based on Actuarial Value of Assets that does not include additional County, MVCD, and Superior Court Contribution Reserves.

SECTION I – EXECUTIVE SUMMARY

Changes in Cost

Table I-2 below summarizes the impact of actuarial experience on Plan cost, for the Plan as a whole, and for the General and Safety classes.

			Table I-2							
Summary of Changes in Plan Cost from Prior Review										
			General Employer		Safety	Safety Employer			Employer	
		General	Contribution Rate		Employer	Contribution Rate		Total	Contribution Rate	
		Employer Cost	(% Payroll)		Cost	(% Payroll)		Employer Cost	(% Payroll)	
December 31, 2023	\$	205,194,113	41.78%	\$	82,087,607	88.75%	\$	287,281,720	49.20%	
Change in Cost Due to:										
Expected Change		6,155,823	0.00%		2,462,628	0.00%		8,618,451	0.00%	
Asset Experience		953,662	0.19%		445,015	0.46%		1,398,677	0.23%	
Contribution (Gain)/Loss		(95,018)	(0.02%)		253,802	0.26%		158,784	0.03%	
Demographic Experience		353,548	0.07%		(127,370)	(0.12%)		226,177	0.01%	
Salary Experience		(312,666)	(0.37%)		46,721	0.02%		(265,945)	(0.31%)	
Payroll Amortization		0	(0.77%)		0	0.06%		0	(0.78%)	
PEPRA Transition		(1,245,184)	(0.25%)		(571,045)	(0.62%)		(1,816,229)	(0.31%)	
Assumption Changes		(5,304,503)	(1.02%)		(1,664,863)	(1.69%)		(6,969,366)	(1.12%)	
Total Cost as of December 31, 2024	\$	205,699,775	39.61%	\$	82,932,495	87.12%	\$	288,632,270	46.95%	



SECTION I – EXECUTIVE SUMMARY

An analysis of the contribution rate changes from the prior valuation reveals the following:

• Contributions were expected to increase as a dollar amount.

Prior to accounting for any unexpected changes in the assets and liabilities this year, contributions in dollar terms had been expected to increase as a result of payroll growth, both from increases in the normal cost and since the UAL is amortized as a level percentage of payroll.

 Asset experience produced an investment gain on a market basis and a loss on a smoothed basis.

The assets of the Plan returned 8.84% on a market basis, higher than the assumed rate of 6.75%, resulting in a gain for 2024. Under the actuarial asset smoothing policy, 20% of this gain is recognized in the current year, in addition to 20% of the gains and losses from each of the prior four years. The overall return on the smoothed assets was 6.37%; lower than the assumed return of 6.75%, so the overall contribution rate increased by 0.23% of payroll. The contribution rate increased more for Safety members (by 0.46% of payroll) than for General members (0.19% of payroll) because of the asset loss; this is caused by the Safety members having a higher ratio of assets to payroll than the General members.

- Contributions less than the actuarial cost (excluding additional contributions made by the employers) increased the Safety employer contribution rate by 0.26% of pay (and the overall employer rate by 0.03% of pay), due to the lower-than-expected payroll for the Safety members.
- The demographic experience of the Plan including rates of retirement, death, disability, and termination, as well as unexpected changes in benefits increased the overall employer rate by 0.01% of pay.

The demographic losses were small in aggregate. Inflation led to larger than expected current and future COLAs for General and Safety members receiving benefits. There were offsetting mortality gains (i.e., more deaths than expected) for Safety retirees. The net impact of these and other demographic changes was an increase of 0.07% to employer contribution rate for General members, and an decrease of 0.12% of payroll for Safety members.

• Overall pay increases for returning members were below expectations.

Salaries for continuing General active members increased less than expected while salaries for continuing Safety members were nearly equal to the expected amount. Average projected pay for continuing General members increased by just more than 1% and nearly 3% for Safety members. This led to a decrease in the employer contribution



SECTION I – EXECUTIVE SUMMARY

rate of 0.37% of payroll for General members, an increase in the employer contribution rate of 0.02% of payroll for Safety members, and a decrease in the employer contribution rate of 0.31% of overall payroll.

• The unfunded liability is being amortized over a higher-than-expected payroll base for General members and a lower-than-expected payroll base for Safety members.

The payroll used to amortize the unfunded liability for General members was higher than expected due to larger than expected payroll growth, driven by additional projected payroll from new members entering the Plan. Total General projected payroll increased from \$499.3 million in the previous valuation to \$528.0 million for this valuation, an increase of 5.7%, compared to an assumed growth rate of 3.0%. This growth in payroll for General members resulted in a decrease in the contribution rate of about 0.77%.

The payroll used to amortize the unfunded liability for Safety members was lower than expected due to smaller than expected payroll growth. Total Safety payroll increased from \$93.5 million to \$96.2 million, or 2.9%, which is lower than the assumed growth rate of 3.0%. The smaller than expected growth in payroll for Safety members resulted an increase in the contribution rate of about 0.06% of pay.

The aggregate impact from the change in total projected payroll was a decrease in the contribution rate of 0.78% of pay. Note that the change in the payroll base used to amortize the unfunded liability does not change the dollar amount of the contribution – only the contribution rate calculated as a percentage of payroll.

• New members generally enter the Plan as PEPRA members, with 1,037 newly hired or rehired members entering the Plan to replace departing members during 2024.

New PEPRA (Tiers 2 and 2B) hires have a smaller Plan normal cost as a percentage of payroll when compared to the legacy (Tier 1) members. Due to the shift in both populations towards more Tier 2 members, the employer contribution rate decreased by 0.25% of payroll for General members, 0.62% of payroll for Safety members, and the overall employer contribution rate dropped by 0.31% of payroll.

• New assumptions from the Experience Study decreased cost for General and Safety.

The demographic assumption changes all had a relatively minor impact on the total plan cost. An increase in the administrative expense assumption was more than offset by an increase in the assumed mortality rates for female annuitants and other changes, resulting in a net reduction of the overall contribution rates of 0.7% to 0.8% for all groups. The economic assumption changes further reduced contribution rates due to the net impact of a decrease in the inflation assumption from 2.75% to 2.50%, a related decrease in the assumed long-term COLA growth rate, and a restructuring of the way COLAs are valued



SECTION I – EXECUTIVE SUMMARY

for members in pay status. The assumption changes also reduced the member rates, by about 0.2% of pay on average for both General and Safety.

Changes in Funded Ratio

Table I-3 below presents a similar summary of factors affecting the funded ratios from last year to this year, on an actuarial and market basis, with many of the same factors applying. Table I-3 also includes the impact from the additional contributions made by the County and other employers, which are not reflected in the contribution reconciliation, since those assets are not reflected when determining the employer contribution rates.

Summary of Changes in Funded Ratio from Prior Review							
	Actuarial Value of Assets	Market Value of Assets					
December 31, 2023	74.0%	70.5%					
Change in Funded Ratio Due to:							
Expected Change	3.5%	2.9%					
Additional Contributions	0.5%	0.4%					
Asset Experience	(1.0%)	1.7%					
Demographic Experience	(0.1%)	(0.1%)					
Salary Experience	0.3%	0.3%					
Assumption Changes	0.7%	0.8%					
Funded Ratio as of December 31, 2024	77.9%	76.5%					



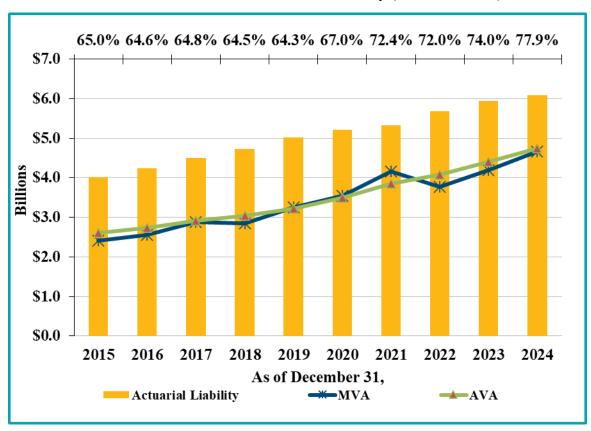
SECTION I – EXECUTIVE SUMMARY

C. Historical Trends

Despite the fact that for most retirement plans the greatest attention is given to the current valuation results and in particular, the size of the current Unfunded Actuarial Liability and the employer contribution, it is important to remember that each valuation is merely a snapshot in the long-term progress of a pension fund. It is more important to judge a current year's valuation result relative to historical trends, as well as trends expected into the future.

Assets and Liabilities

The chart on this page compares the Market Value of Assets (MVA) and Actuarial Value of Assets (AVA) to the Actuarial Liabilities. The percentage shown at the top of each bar is the ratio of the Actuarial Value of Assets to the Actuarial Liability (the funded ratio).



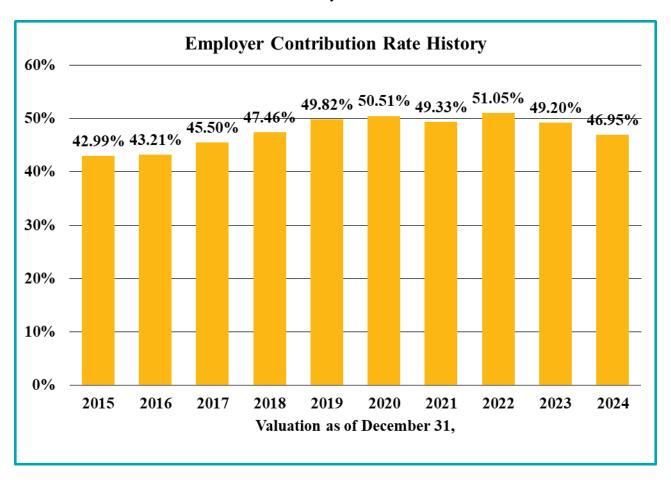
The funded ratio has increased from 65.0% as of December 31, 2015 to 77.9% as of December 31, 2024. During the first half of the past decade, the funded ratio remained relatively flat, as investment returns lagged expectations and more conservative assumptions were adopted. There has been significant improvement in the funded ratio during the past five years, primarily due to regular and additional contributions and assumption changes that have reduced liabilities, partially offset by liability losses from pay and COLA increases driven by inflation.



SECTION I – EXECUTIVE SUMMARY

Employer Contribution Rates

The chart on this page shows the employer contribution rate for each of the last 10 valuation cycles. The same factors that contributed to the decline and subsequent lack of progress in funded status for the first half of the period – i.e., lower returns and assumptions that are more conservative – also resulted in increases in contribution rates. Rates also increased due to growth in payroll lagging behind the assumed growth through December 31, 2020, which spread the UAL dollar payment over a smaller payroll base. However, these trends have recently reversed, with higher-than-expected payroll growth and assumption changes leading to a decrease in the contribution rates in recent years.

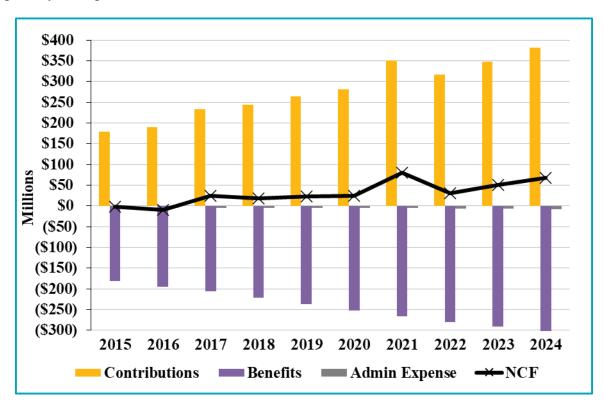




SECTION I – EXECUTIVE SUMMARY

Cash Flows

The chart below shows the Plan's net cash flow (NCF), or contributions less benefit payments and administrative expenses. This is an important measure, as it reflects the ability to have funds available to meet benefit payments without having to make difficult investment decisions, especially during volatile markets.



The NCF – shown as the black line in the chart – was slightly negative for the first two years shown in this period but has been positive the past eight years due to the increase in the contribution rates and the additional contributions being made by the County and other employers.

The implications of a plan with negative net cash flow are that the impact of market fluctuations can be more severe: as assets are being depleted to pay benefits in down markets, there is less principal available to be reinvested during favorable return periods. If there were a shift to future negative net cash flow, it could magnify the losses during a market decline, hindering the Plan in its ability to absorb market fluctuations.



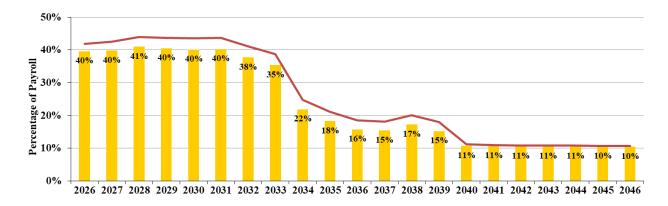
SECTION I – EXECUTIVE SUMMARY

D. Future Expected Financial Trends

The analysis of projected financial trends is perhaps the most important component of this valuation. In this section, we present our assessment of the implications of the December 31, 2024 valuation results in terms of cost and benefit security (assets over liabilities). All the projections in this section are based on the investment return assumption of 6.75%. We have assumed a level active workforce population and future payroll growth of 3.00% per year.

The following graphs show the expected employer contribution rates by calendar year for General and Safety members, and for the Plan in aggregate, based on actually achieving the 6.75% assumption each year for the next 20 years, and if the employers contribute at the actuarially determined rates. We note that the first year shown is 2026, which is when the contribution rates determined in this report will be effective. The red lines in each graph below represent the projection of employer contributions from our previous valuation as of December 31, 2023. It is included to illustrate the difference from year to year.

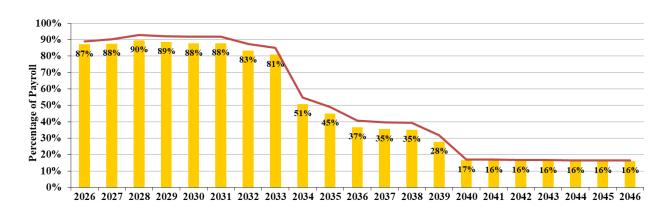
Projection of General Employer Contributions, 6.75% return each year



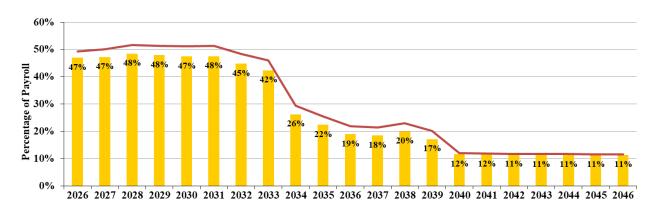


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Projection of Safety Employer Contributions, 6.75% return each year



Projection of Total Employer Contributions, 6.75% return each year



The projections show that General, Safety, and Total contribution rates are expected to remain relatively stable for the next six years, with some fluctuations as asset losses and gains continue to be recognized in the smoothed Actuarial Value of Assets. The contributions are then expected to begin dropping as layers of the UAL are paid off, with the biggest drop expected in 2034 when the largest layer (the 12/31/2013 UAL layer) is expected to be paid off.

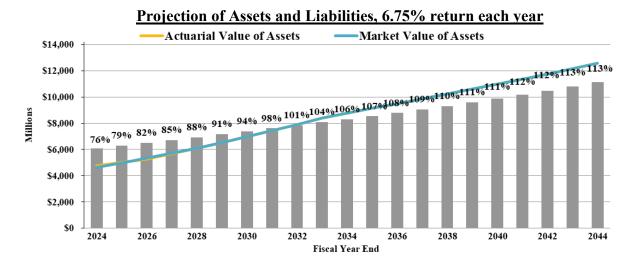
Note that the contribution projections do not forecast any actuarial gains or losses, other than the current net deferred losses reflected in the Actuarial Value of Assets. The graphs also do not include the impact of the additional contributions currently being made by the County, the Mosquito and Vector Control District, and the Superior Court; those additional contributions would eventually be expected to be available to reduce the contributions for those employers in future years.



SECTION I – EXECUTIVE SUMMARY

Asset and Liability Projections:

The graph below shows the projection of SJCERA's assets and liabilities assuming that assets will earn the 6.75% assumption each year during the projection period and the employers contribute at the actuarially determined rates.



The graph shows that the projected funded status on a market-value basis increases over the next 20 years to 113%, assuming the actuarial rate of return assumption is achieved. However, as noted above, it is the actual return on System assets that will determine the future funding status and contribution rates to the Fund.

We note that the funded ratio is expected to gradually climb above 100%; this is because under the PEPRA legislation, the employer contribution is not allowed to fall below the level of the normal cost unless the Plan reaches at least 120% funded (and other conditions are met).

The assets in the graph above include the additional contributions that the County (2017-2024), the Mosquito and Vector Control District (2018-2024), and Superior Court (2019-2024) have made to the fund through the valuation date. No further additional contributions are assumed in this projection. However, the additional contribution reserves are assumed to continue to grow at the 6.75% expected rate of return and are not used in the calculation of the actuarially determined contribution rates, which also increases the projected funded status above 100%.

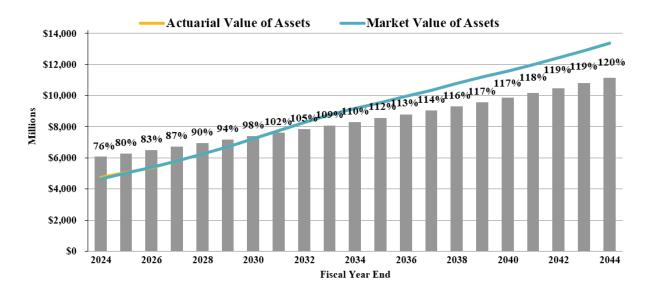
The graph on the next page shows the same information as the previous graph and assumes that additional contributions equal to 5% of SJCERA payroll will continue to be made until the System's funded ratio reaches 100%; these additional contributions are for illustrative purposes only. Although the Mosquito and Vector Control District and the Superior Courts have been making additional contributions at different rates, and other employers are not currently making additional contributions, we note that the County has been making additional contributions of approximately 5% per year and makes up the vast majority of overall payroll. No change in the



SECTION I – EXECUTIVE SUMMARY

contribution rate is assumed due to the additional contributions; these assets continue to be excluded from the actuarial cost calculation, as noted earlier.

<u>Projection of Assets and Liabilities, 6.75% return each year,</u> <u>Ongoing Additional 5% Contributions</u>



As can be seen in the projection above, with the additional expected 5% of pay contributions, the Plan would be expected to return to full funding as of December 31, 2031, one year earlier than expected in the projections without the additional future contributions.



SECTION II – DISCLOSURES RELATED TO RISK

Actuarial valuations are based on a set of assumptions about future economic and demographic experience. These assumptions represent a reasonable estimate of future experience, but actual future experience will undoubtedly be different and may vary significantly. This section of the report is intended to identify the primary risks to the Plan, provide some background information about those risks, and provide an assessment of those risks.

Identification of Risks

A fundamental risk to a pension plan is that the contributions needed to pay the benefits become unaffordable. While we believe it is unlikely that the Plan by itself would become unaffordable, the contributions needed to support the Plan may differ significantly from expectations. While there are a number of factors that could lead to contribution amounts deviating from expectations, we believe the primary risks are:

- Investment risk,
- Assumption change risk, and
- Contribution and payroll risk.

Other risks that we have not identified may also turn out to be important.

Investment Risk is the potential for investment returns to be different than expected. Lower investment returns than anticipated will increase the unfunded actuarial liability necessitating higher contributions in the future unless there are other gains that offset these investment losses. The potential volatility of future investment returns is determined by the Plan's asset allocation and the affordability of the investment risk is determined by the amount of assets invested relative to the size of the plan sponsors or other contribution base.

Assumption change risk is the potential for the environment to change such that future valuation assumptions are different than the current assumptions. For example, declines in interest rates over the last three decades (which have recently reversed) resulted in higher investment returns for fixed income investments, but lower expected future returns necessitating either a change in investment policy, a reduction in discount rate, or some combination of the two. Assumption change risk is an extension of the other risks identified, but rather than capturing the risk as it is experienced, it captures the cost of recognizing a change in environment when the current assumption is no longer reasonable.

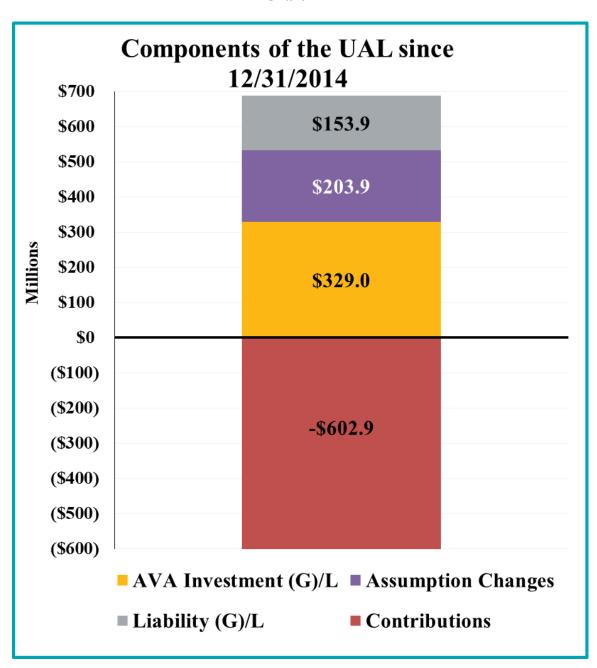
Contribution risk is the potential for actual future contributions to deviate from expected future contributions. There are different sources of contribution risk such as the sponsor choosing to not make contributions in accordance with the funding policy or if the contribution requirement becomes such a financial strain on the sponsor as a result of material changes in the contribution base (e.g., covered employees, covered payroll) that affect the amount of contributions the Plan can collect.



SECTION II - DISCLOSURES RELATED TO RISK

The chart below shows the components contributing to the Unfunded Actuarial Liability (UAL) from December 31, 2014 through December 31, 2024. Over the last 10 years, the UAL has increased by approximately \$83.9 million. The investment losses (gold bar) of \$329.0 million on the Actuarial Value of Assets (AVA), assumption changes (purple bar) resulting in a total UAL increase of \$203.9 million, and net liability losses (gray bar) of \$153.9 million have all contributed to the UAL growth. Contributions in excess of the "tread water" level (red bar) have reduced the UAL by \$602.9 million since December 31, 2014.

Chart II-1





SECTION II - DISCLOSURES RELATED TO RISK

Chart II-2 below details the annual sources of the UAL change (colored bars) for the plan years ending December 31. The net UAL change for each year is represented by the blue diamonds.

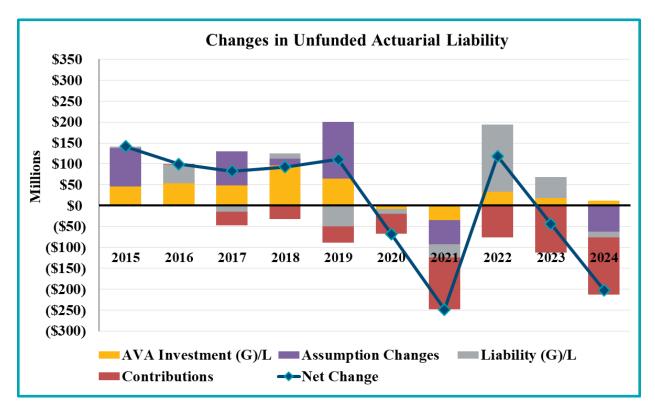


Chart II-2

On a market value basis, the average annual geometric return over the 10-year period is 5.7%. This has resulted in investment losses on the AVA most years, increasing the UAL, except for the 2020 and 2021 calendar years.

Over the same time period, the assumed rate of return decreased from 7.50% to 6.75%. It is important to note that these changes simply reflect a downward revision to the estimate of future investment earnings and ultimately costs will be determined by actual investment earnings. Future expectations of investment returns will likely change which may necessitate further changes in the discount rate.

The impact of all assumption changes is represented by the purple bars. The December 31, 2015, 2017, and 2019 valuations included reductions in the expected return from 7.50% to 7.40%, 7.25%, and 7.00%, respectively. The December 31, 2021 valuation decreased the discount rate assumption to 6.75% while also incorporating new demographic assumptions that lowered the UAL. The assumption changes effective with the December 31, 2018 and 2024 valuations included additional changes in the demographic and economic assumptions but did not include changes in the expected rate of return.



SECTION II - DISCLOSURES RELATED TO RISK

The large liability loss in 2022 and a smaller liability loss in 2023 were caused by higher-than-expected COLAs and negotiated pay increases for many bargaining units.

Each year, the UAL is expected to increase for benefits earned in the current year (the normal cost), administrative expenses, and interest on the UAL. This expected increase is referred to as the tread water level. If contributions are greater than the tread water level, the UAL is expected to decrease. Conversely, if contributions are less than the tread water level, the UAL is expected to increase. The amortization policy (as well as the contribution-timing lag) can impact whether or not the contributions exceed the tread water level. For example, the Board changed the amortization policy in 2009 to amortize 50% of the extraordinary asset loss over a 30-year period and the remaining UAL over a 20-year period. Initially, the relatively long amortization period resulted in contributions being below the tread water level.

However, the single equivalent amortization period for the last several years has been much lower (down to nine and 10 years for General and Safety, respectively, in this valuation), with the UAL payment going towards principal as well as interest on the UAL. In addition, the County and at least two other employers have made discretionary contributions above the actuarially determined contribution rate, in the County's case generally equal to around 5% of their pensionable payroll (with a much larger additional contribution in 2021), including \$27.3 million this year. These contributions went directly toward paying down the principal on the UAL as seen below in Table II-1, which numerically summarizes the changes in the UAL for each year by source over the last 10 years.

Table II-1

Unfunded Actuarial Liability (UAL) Change by Source									
December 31,	Investment Experience	Liability Experience	Assumption Changes	Contributions	Total UAL Change				
2015	\$46,200,000	\$3,691,000	\$91,855,000	(\$172,000)	\$141,574,000				
2016	53,461,000	45,033,000	0	831,000	99,325,000				
2017	48,426,000	(14,693,000)	81,855,000	(33,016,000)	82,572,000				
2018	95,800,000	12,745,000	16,017,000	(31,986,000)	92,576,000				
2019	65,252,000	(49,917,000)	135,011,000	(39,203,000)	111,143,000				
2020	(8,800,000)	(11,061,000)	0	(47,428,000)	(67,289,000)				
2021	(33,977,000)	(30,569,000)	(58,741,000)	(125,436,000)	(248,723,000)				
2022	33,276,000	161,208,000	0	(76,032,000)	118,452,000				
2023	17,883,000	50,936,000	0	(112,753,000)	(43,934,000)				
2024	11,496,000	(13,442,000)	(62,089,000)	(137,711,000)	(201,746,000)				
Total	\$329,017,000	\$153,931,000	\$203,908,000	(\$602,906,000)	\$83,950,000				



SECTION II - DISCLOSURES RELATED TO RISK

Assessing Costs and Risks

Sensitivity to Investment Returns

The chart below compares the Market Value of Assets (line) to the Actuarial Liabilities (bars) discounted at the current expected rate of return (6.75%) and at discount rates 100 basis points above and below the expected rate of return. We have included an additional measurement, the Low Default Risk Obligation Measure (LDROM), which is the Actuarial Liability calculated using a discount rate derived from low-default-risk fixed income securities that approximately match the benefit payments of the plan.

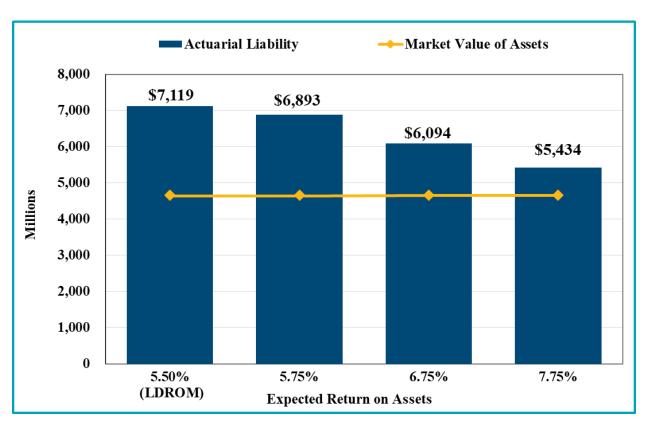


Chart II-3

If investments return 6.75% annually, the Plan will need approximately \$6.1 billion in assets today to pay benefits associated with service earned to date, compared to current assets of \$4.7 billion. If investment returns are only 5.75%, the Plan would need approximately \$6.9 billion in assets today, and if investment returns are 7.75%, the Plan would need approximately \$5.4 billion in assets today.

SJCERA invests in a diversified portfolio to achieve the best possible returns at an acceptable level of risk. SJCERA's average return over the last 15 years on a market value basis is 6.4%. Please refer to Table III-5 for the asset returns by year since 2002.



SECTION II - DISCLOSURES RELATED TO RISK

The lowest risk portfolio for a pension plan would be composed entirely of low-default-risk fixed income securities whose cash flows match the benefit cash flows of the plan. However, such a portfolio would have a lower expected rate of return (5.50% as of December 31, 2024) than the diversified portfolio (6.75%). The Low-Default-Risk Obligation Measure (LDROM) represents what the Actuarial Liability would be if SJCERA's assets were invested in such a portfolio. As of December 31, 2024, the LDROM is \$7.1 billion¹ compared to the Actuarial Liability of \$6.1 billion for SJCERA in total (General and Safety employers). The \$1.0 billion difference can be viewed as the expected savings from taking on the investment risk of the diversified portfolio. Alternatively, it can be viewed as the potential cost of minimizing the investment risk.

If SJCERA were to invest in the LDROM portfolio and not a diversified portfolio, the funded status would be lower and expected contribution requirements would increase. The security of SJCERA's pension benefits relies on the current assets, future investment earnings, and the ability and willingness of employers to make future contributions. Investing in an LDROM portfolio would likely generate more predictable future investment earnings and future contributions. However, if SJCERA were to invest in the LDROM portfolio, it would not change current assets, but it could potentially reduce future investment earnings and thereby increase the level of reliance on future employer contributions.

¹ Based on a discount rate equal to the December 31, 2024, FTSE Pension Liability Index of 5.54%, rounded to the nearest quarter percent (5.50%), and all other assumptions and methods as used to calculate the Actuarial Liability.



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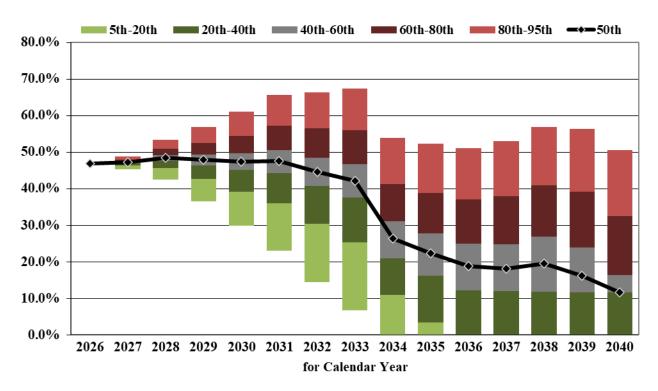
SECTION II - DISCLOSURES RELATED TO RISK

Sensitivity to Investment Returns - Stochastic Projections

Stochastic projections serve to show the range of probable outcomes of various measurements. The graphs below and on the following page show the projected range of the employer contribution rate and of the funded ratio on an Actuarial Value of Assets basis.

The range in both scenarios is driven by the volatility of investment returns (assumed to be based on a 11.9% standard deviation of annual returns, as indicated in Meketa's capital market assumptions used in the 2025 experience study). The stochastic projections of investment returns are based on an assumption that each future year's investment return is independent from all other years and is identically distributed according to a lognormal distribution. This assumption may result in an unrealistically wide range of compound investment returns over longer periods.

Chart II-4: Stochastic Projection of Employer Contributions as a Percentage of Payroll



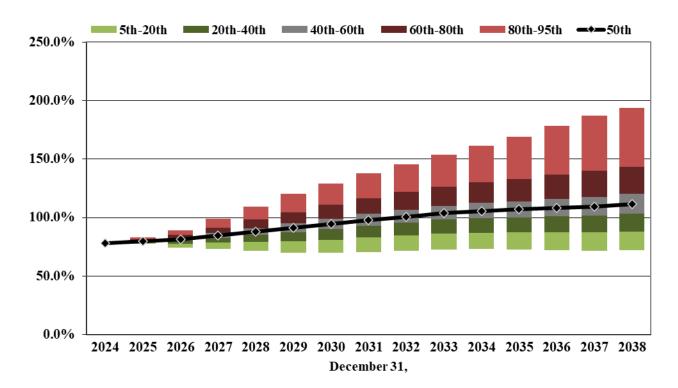
The stochastic projection of employer contributions as a percentage of payroll shows the probable range of future contribution rates. The baseline contribution rate (black line), which is based on the median of the simulations using an average return of 6.75%, aligns closely with the projections discussed in subsection D. (page 12) of the Executive Summary of this report. In the most pessimistic scenario shown, the 95th percentile, the projected employer contribution rate reaches 67% of pay in 2033. Conversely, the most optimistic scenario shown, the 5th percentile, the projected employer contribution rate declines to 0% in 2034.



SECTION II - DISCLOSURES RELATED TO RISK

We note that these projections allow the employers' contribution to drop below their share of the normal cost only if the Plan becomes overfunded by more than 20% (i.e., a funded ratio above 120%), as required by the PEPRA legislation. The projections above do not include the impact of the additional contribution reserves or any future contributions above the actuarially determined contributions.

Chart II-5: Stochastic Projection of Funded Ratio on an Actuarial Value of Assets Basis



The graph above shows the projection of the funded ratio based on the Actuarial Value of Assets. The projections do not assume future additional contributions from the County or other employers, but they do include the value of the additional contribution reserves accumulated through the current valuation. While the baseline-funded ratio (black line) is projected to be approximately 112% at the end of the 15-year period shown here, there is a wide range of potential outcomes. Good investment returns have the likelihood of bringing the funded ratio well over 100%. Due to the current funding policy of the Plan, even in scenarios with unfavorable investment returns, the Plan is projected to remain over 60% funded on an Actuarial Value of Assets basis in all but the most unfavorable of scenarios, as long as the actuarially determined contributions continue to be made.



SECTION II – DISCLOSURES RELATED TO RISK

Contribution Risk

The Safety contribution rate is very large at just over 87% of payroll and as a result, future salary increases and the hiring of new members are potentially at risk. When member payroll growth stagnates or even declines, the dollar level of contributions made to the Plan also stagnate or decline since contributions are based on payroll levels.

There is also a risk of the contribution rate increasing even higher when payroll decreases since the Plan's funding policy amortizes the UAL as a level percentage of payroll. This means that the UAL payments increase at the assumed payroll growth rate of 3.00%, so that the payment is expected to remain constant as a percentage of payroll. If payroll growth is less than the expected 3.00% or there is a decline in payroll, the UAL payments are spread over a smaller payroll base and the contribution rate as a percentage of payroll increases, making the Plan less affordable for the Safety and potentially other plan sponsors.



SECTION II - DISCLOSURES RELATED TO RISK

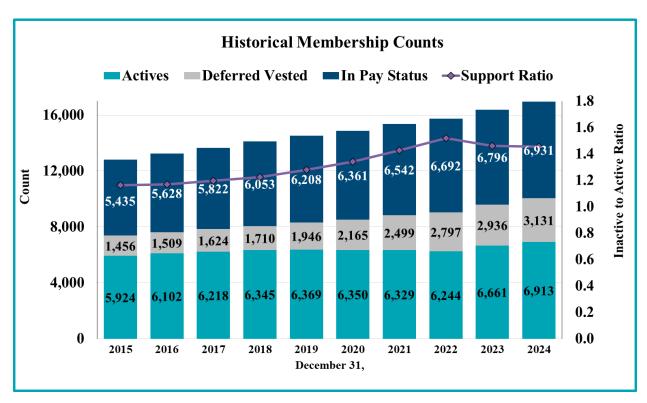
Plan Maturity Measures

The future financial condition of a mature pension plan is more sensitive to each of the risks identified above than a less mature plan. Before assessing each of these risks, it is important to understand the maturity of the Plan and how the maturity has changed over time.

Plan maturity can be measured in a variety of ways, but they all get at one basic dynamic – the larger the plan is compared to the contribution or revenue base that supports it; the more sensitive the plan will be to risk. The measures below have been selected as the most important in understanding the primary risks identified for the Plan.

Inactives per Active (Support Ratio)

One simple measure of plan maturity is the ratio of the number of inactive members (those receiving benefits or inactives – those entitled to a deferred benefit) to the number of active members. The Support Ratio is expected to increase gradually as a plan matures. The Support Ratio remained flat from 2015 to 2016, since the active population increased at roughly the same rate as the inactive population. During calendar years 2017 through 2022, the active population increased at a slower pace than the inactive population – and actually declined in the last three years of that period - resulting in an increase in the Support Ratio. Growth in the active population in 2023 and 2024 reduced the support ratio.



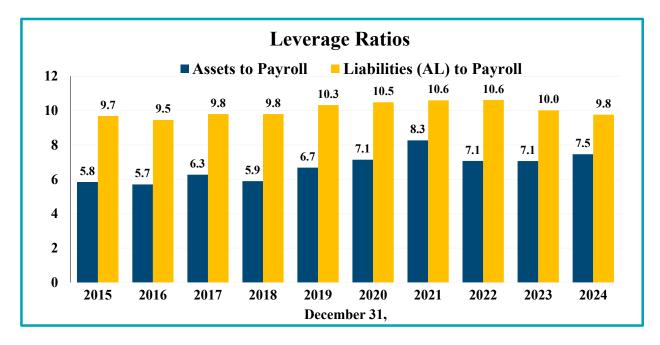


SECTION II – DISCLOSURES RELATED TO RISK

Leverage Ratios

Leverage or volatility ratios measure the size of the plan compared to its revenue base more directly. The asset leverage ratio is simply the market value of assets to active member payroll and indicates the sensitivity of the Plan to investment returns. The liability leverage ratio is the plan's Actuarial Liability to active member payroll and indicates the sensitivity of the Plan to assumption changes or demographic experience.

The chart below shows the historical leverage ratios of the Plan. Both leverage ratios have increased since December 31, 2015, but the asset to payroll ratio had remained relatively stable around 6.0 – assets are six times member payroll – through 2019. During 2020 and 2021, the ratio increased from 6.7 to 8.3 times member payroll, due to the favorable asset returns and additional contributions. The ratio decreased during 2022 due to lower asset returns and higher payroll, remained relatively flat during 2023 and increased slightly in 2024. The liability to payroll ratio has remained relatively stable, as the continued maturation of the Plan and liability increases from reductions in the discount rate have been offset by growth in payroll.



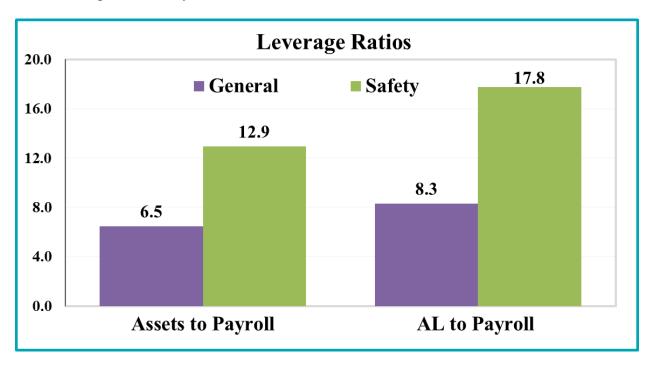
To appreciate the impact of the ratio of assets to payroll on plan cost, consider the situation for a new plan with almost no assets. Even if the assets suffer a bad year of investment returns, the impact on the plan cost is negligible, because the asset level is so small.

As the Plan becomes better funded, the asset leverage ratio will increase, and if it were 100% funded, the asset leverage ratio would be around 10 times payroll, or the liability leverage ratio.



SECTION II - DISCLOSURES RELATED TO RISK

We note that the ratio of both assets and liabilities to payroll, and therefore the sensitivity to investment returns and assumption changes, is higher for the Safety members compared to the General members, because of the higher benefit amounts and the earlier average retirement ages for Safety.



The General asset leverage ratio of 6.5 means that if the Plan's assets lose 10% of their value, which is a 16.75% actuarial loss compared to the expected return of 6.75%, the loss would be equivalent to 109% of payroll (16.75% times 6.5). Based on the current amortization policy and economic assumptions, the General contribution rate would ultimately increase by just under 10% of payroll, after deferred asset losses are fully recognized. The same investment loss for the Safety group with an asset ratio of 12.9 would be equivalent to 216% of payroll, or an approximate contribution rate increase of almost 19%. Therefore, the contribution rates for the Safety members will generally be much more volatile than those of the General members.

More Detailed Assessment

While a more detailed assessment is always valuable to enhance the understanding of the risks identified above, we believe the scenarios illustrated above cover the primary risks facing the Plan at this time. We would be happy to provide the Board with a more in-depth analysis at their request.



SECTION III – ASSETS

Pension Plan assets play a key role in the financial operation of the System and in the decisions the Board may make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely impact benefit levels, employer contributions, and the ultimate security of participants' benefits.

In this section, we present detailed information on System assets including:

- **Disclosure** of System assets as of December 31, 2023 and December 31, 2024,
- Statement of the **changes** in market values during the year,
- Development of the Actuarial Value of Assets,
- An assessment of investment performance, and
- Determination of reserve balances as of December 31, 2024.

Disclosure

There are two types of asset values disclosed in the valuation, the Market Value of Assets, and the Actuarial Value of Assets. The market value represents the fair value of assets that provide the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace. As a result, market values are usually not as suitable for long-range planning as are the Actuarial Value of Assets, which reflect smoothing of annual investment returns.

Table III-1 on the next page discloses and compares the market values as of December 31, 2023 and December 31, 2024.



SECTION III – ASSETS

	Table III-1 Statement of Assets at Market Value										
December 31,											
Assets:		2023		2024							
Cash and Cash Equivalents	\$	129,780,743	\$	157,429,655							
Cash Collateral-Securities Lending		65,283,825		72,278,331							
Total Cash and Cash Equivalents	_	195,064,568	-	229,707,986							
Receivables:											
Investment Income Receivables		9,183,732		7,699,376							
Contributions Receivable		15,315,128		18,318,330							
Securities Sold, Not Received - Domestic		3,587,306		36,395,360							
Other Investment Income Receivable		0		0							
Miscellaneous Receivables	_	65,858	_	32,348							
Total Receivables		28,152,024		62,445,414							
Investments, at Market Value:											
Aggressive Growth		422,255,956		528,270,353							
Traditional Growth		1,620,830,779		1,838,129,987							
Risk Parity		381,698,273		225,359,431							
Credit		676,177,727		694,795,403							
Crisis Risk Offset (CRO)		455,595,676		472,276,466							
Principal Protection		300,556,811		424,807,281							
Core Real Assets	_	207,633,628		279,381,910							
Total Investments		4,064,748,850		4,463,020,831							
Other Assets:											
Prepaid Expenses		126,739		146,523							
Equipment and Fixtures, Net	_	4,533,597		4,967,867							
Other Assets	_	4,660,336	_	5,114,390							
Total Asse	ts	4,292,625,778		4,760,288,621							
Liabilities:											
Securities Lending-Cash Collateral		9,035,345		27,386,459							
Securities Purchased, Not Paid		65,283,825		72,278,331							
Accrued Expenses and Other Payables		2,237,795		1,099,858							
Security Lending Interest and Other Expense	_	370,649	-	307,815							
Total Liabilitie	es _	76,927,614	-	101,072,463							
Market Value of Assets	\$	4,215,698,164	\$	4,659,216,158							



SECTION III - ASSETS

Changes in Market Value

The components of asset change are:

- Contributions (employer and employee)
- Benefit payments
- Expenses (investment and administrative)
- Investment income (realized and unrealized)

Table III-2 below shows the components of change in the Market Value of Assets during 2023 and 2024.

Table II	1-2	
Changes in Mar	ket Values	
Additions	<u>2023</u>	<u>2024</u>
Contributions		
Employer's Contribution	292,752,311	323,248,229
Members' Contributions	54,934,141	58,873,823
Total Contributions	347,686,452	382,122,052
Net Investment Income		
Net Appreciation/(Depreciation) in		
Fair Value of Investments	309,166,135	332,090,971
Interest	31,072,262	34,538,311
Dividends	21,015,892	23,401,133
Real Estate Income, net	7,479,828	9,287,037
Investment Expenses	(21,496,390)	(26,029,411
Miscellaneous Investment Income	0	C
Net Investment Income,		
Before Securities Lending Income	347,237,727	373,288,041
Securities Lending Income		
Earnings	4,812,034	3,911,381
Rebates	(4,351,491)	(3,486,248
Fees	(115,074)	(106,224
Net Securities Lending Income	345,469	318,909
Net Investment Income	347,583,196	373,606,950
Miscellaneous Income	82,866	2,054,687
Total Additions	695,352,514	757,783,689



SECTION III – ASSETS

Changes in Market Va	alues (Continued)	
<u>Deductions</u>	<u>2023</u>	<u>2024</u>
Benefit payments	285,617,687	301,364,059
Death Benefits	653,960	747,067
Refunds of Members' Contributions	4,266,024	5,139,038
Total Benefit Payments	290,537,671	307,250,164
Administrative & Other Expenses		
General Administrative Expenses	6,023,716	6,868,989
Actuary Fees	188,416	150,719
Fund Legal Fees	437,633	226,279
Total Administrative & Other Expenses	6,649,765	7,245,987
Transfer Between Plans	219,676	(230,456
Total Deductions	297,407,112	314,265,695
Net increase (Decrease)	397,945,402	443,517,994
Net Assets Held in Trust for Pension Benefits:		
Beginning of Year	3,817,752,762	4,215,698,164
End of Year	4,215,698,164	4,659,216,158
Approximate Return	9.05%	8.84%



SECTION III - ASSETS

Actuarial Value of Assets (AVA)

The Actuarial Value of Assets represents a "smoothed" value developed by the actuary to reduce contribution volatility, which could develop due to short-term fluctuations in the Market Value of Assets. For this System, the Actuarial Value of Assets is calculated by recognizing the deviation of actual investment returns compared to the expected return over a five-year period.

The dollar amount of the expected return on the Market Value of Assets is determined using the actual contributions, administrative expense, and benefit payments during the year. Any difference between this amount and the actual investment earnings is considered a gain or loss. However, in no event will the Actuarial Value of Assets be less than 80% or more than 120% of market value on the valuation date. The following table shows the development of the actuarial asset value.

					Гable III-3				
					of Actuarial V				
					ecember 31, 20				
	(a)	(b)	(c)	(d)	(e)	(f)	(g) = (f) - (e)	(h)	(i) = (g) x (h)
			Administrative		Expected	Actual	Additional	Not	Unrecognized
Year	Contributions	Benefits	1	Fund Transfer	Return	Return	Earnings	Recognized	Earnings
2021	350,118,275	265,965,599	4,639,439	270,570	251,024,692	572,291,948	321,267,256	20%	64,253,451
2022	316,485,355	279,363,795	5,621,704	224,628	284,479,114	(412,759,726)			(278,895,536)
2023	347,686,452	290,537,671	6,649,765	(219,676)		347,666,062	88,306,066	60%	52,983,640
2024	382,122,052	307,250,164	7,245,987	230,456	286,820,288	375,661,637	88,841,349	80%	71,073,079
1. Total Un	recognized Dolla	ars							(90,585,366)
Market V	alue of Assets a	as of December	31, 2024						4,659,216,158
3. Prelimina	ry Actuarial Va	lue of Assets a	s of December 3	31, 2024: [(2) -	(1)]				4,749,801,524
4. Corridor	Limits								
a. 80% o	f Net Market Va	lue							3,727,372,926
b. 120%	of Net Market V	/alue							5,591,059,390
Actuarial	Value of Asset	s after Corrido	r						4,749,801,524
6. Ratio of	Actuarial Value	to Market Valu	ie						101.94%
$[(5) \div (2)$]								
7. Market S	tabilization Des	ignation							(90,585,366)
[(2)-(5)]]								
8. Special (Non Valuation)	Reserves:							
Class Ac	tion Settlement	- Post 4/1/1982	2						91,201
Continge	ncy								94
	ecial Reserves							_	91,295
9. Actuarial	Value of Asset	s for the Fundi	ng Ratio: [(5) - (8)]					\$4,749,710,229
0. Addition	al Contribution I	Reserves							\$288,207,596
Actuarial	Value of Asset	s Used for Cal	culating the Emp	oloyer Contribu	tion Rates: [(9)	- (10)]			\$4,461,502,633



SECTION III - ASSETS

Investment Performance

The following table calculates the investment related gain/loss for the plan year on both a market value and an actuarial value basis. The market value gain/loss is a useful measure for comparing the actual asset performance to the previous valuation assumption.

The employer contributions include the additional contributions of \$28,852,129 made by the County, the MVCD, and the Superior Court in the gain/loss development for the Market Value of Assets but are excluded in the analysis for the valuation assets.

Table III-4 Asset Gain/(Loss)											
Market Value Valuation Assets											
December 31, 2023 value	\$	4,215,698,164	\$	4,156,622,172							
Employer Contributions		323,248,229		294,396,100							
Employee Contributions		58,873,823		58,873,823							
Healthcare Transfer		230,456		230,456							
Benefit Payments		(307,250,164)		(307,250,164)							
Administrative Expenses		(7,245,987)		(7,245,987)							
Expected Investment Earnings (6.75%)		286,820,288		281,874,800							
Expected Value December 31, 2024	\$	4,570,374,809	\$	4,477,501,200							
Investment Gain / (Loss)		88,841,349		(15,998,567)							
December 31, 2024 value	\$	4,659,216,158	\$	4,461,502,633							
Return		8.84%		6.37%							

Note that the return on market value shown above is not the dollar-weighted return on assets required for the purposes of GASB Statements 67 and 68.



SECTION III - ASSETS

The following table shows the historical annual asset returns on a market value and actuarial value basis, as well as the increase in the Consumer Price Index (CPI) since 2002.

Year Ended December 31 M 2002 2003 2004 2005 2006 2007 2008	Table III-5 Historical Asset Returns							
2002 2003 2004 2005 2006 2007 2008	Return on	Return on	Increase					
2003 2004 2005 2006 2007 2008	arket Value	Actuarial Value	in CPI ¹					
2004 2005 2006 2007 2008	(5.5%)	4.7%	2.4%					
2005 2006 2007 2008	25.5%	6.8%	1.9%					
2006 2007 2008	11.8%	6.6%	3.3%					
2007 2008	6.9%	7.2%	3.4%					
2008	12.7%	9.6%	2.5%					
	6.9%	11.2%	4.1%					
2000	(30.1%)	(14.3%)	(0.5%)					
2009	11.4%	7.4%	2.5%					
2010	12.4%	6.4%	1.5%					
2011	1.3%	(1.8%)	3.0%					
2012	11.7%	(0.2%)	1.7%					
2013	9.2%	8.5%	1.5%					
2014	4.7%	7.5%	0.8%					
2015	(1.9%)	5.6%	0.7%					
2016	6.3%	5.3%	2.1%					
2017	11.7%	5.6%	2.1%					
2018	(2.0%)	3.9%	1.9%					
2019	13.3%	5.1%	2.3%					
2020	8.5%	7.3%	1.4%					
2021	16.0%	8.0%	7.0%					
2022	(9.8%)	5.8%	6.5%					
2023	9.0%	6.2%	3.4%					
2024	8.8%	6.4%	2.9%					
Compounded								
15- Year Average	6.4%	5.3%	2 (0/					
Compounded		3.370	2.6%					
10- Year Average		3.370	2.6%					
Compounded	5.7%	5.9%	3.0%					
5- Year Average	5.7%							

¹ Based on All Urban Consumers - U.S. City Average, December Indices.



SECTION III - ASSETS

Reserve Balances

The following table shows historical balances of the Post-1982 Settlement Reserve.

	Post-	Table III-6 -1982 Settlement Reser	rve	
Valuation Date December 31	Number Eligible	Benefits Payable	Reserve	Estimated Years of Payments
2007	1,896	3,683,939	25,872,222	13
2008	1,856	3,602,904	22,015,055	10
2009	1,800	3,484,762	20,090,654	9
2010	1,738	3,370,636	18,108,660	6
2011	1,679	3,243,068	14,556,866	5
2012	1,709	3,244,009	11,063,855	4
2013	1,662	3,197,416	8,765,004	3
2014	1,617	3,046,233	6,338,007	2
2015	1,560	2,939,133	3,644,507	1
2016	1,501	2,821,575	915,393	<1
2017	1,441	2,705,007	485,100	<1
2018	1,376	2,594,058	62,951	<1
2019	1,313	2,479,710	65,877	<1
2020	1,255	2,372,539	70,425	<1
2021	1,196	2,260,212	75,271	<1
2022	1,134	2,145,376	80,451	<1
2023	1,064	2,008,367	85,793	<1
2024	1,008	1,890,745	91,201	<1

As of December 31, 2024, the total projected liability associated with paying the Post-82 Settlement allowances for the remaining lifetime of the eligible members and beneficiaries is approximately \$12.1 million. Payments from the Post-82 Settlement reserve have been suspended, with the last benefits payable in August of 2018.



SECTION IV – LIABILITIES

In this section, we present detailed information on System liabilities including:

- **Disclosure** of System liabilities on December 31, 2023 and December 31, 2024
- Statement of **changes** in these liabilities during the year

Disclosure

Several types of liabilities are calculated and presented in this report. We note that the liabilities described below are not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, in the case of a plan termination or other similar action.

- **Present Value of Future Benefits:** Used for measuring all future System obligations, represents the amount of money needed today to fully fund all benefits of the System both earned as of the valuation date and those to be earned in the future by current plan participants, under the current System provisions.
- Actuarial Liability: Used for funding calculations, this liability is calculated taking the present value of future benefits and subtracting the present value of future member contributions and future employer normal costs under an acceptable actuarial funding method. The method used for this System is called the Entry Age Normal (EAN) funding method.
- Unfunded Actuarial Liability: The excess of the Actuarial Liability over the Actuarial Value of Assets.

Table IV-1 discloses each of these liabilities for the current and prior valuations and shows the allocation of the valuation assets between SJCERA's valuation subgroups, General and Safety. With respect to each disclosure, a subtraction of the appropriate value of Plan assets yields, for each respective type, a **net surplus**, or an **Unfunded Actuarial Liability**.



SECTION IV – LIABILITIES

Table IV-1 Allocation of Assets by Subgroup and Liabilities/Net (Surplus)/Unfunded										
Affocation of Ass	December 31, 2023 December 31, 2024 (a)									(c)
		Total		Total		General		(b) Safety	U	nallocated
1. Member Reserves	\$	543,807,946	\$	591,584,472	\$	474,173,182	\$	117,411,290	\$	0
2. Employer Advance Reserves w/o Add'l Contribs		2,587,719,919		2,929,747,279		2,087,951,654		841,795,625		0
3. Retired Member Reserves		1,025,094,308		940,170,882		704,677,051		230,956,820		4,537,011
4. Total Valuation Reserves $(1 + 2 + 3)$	\$	4,156,622,173	\$	4,461,502,633	\$	3,266,801,887	\$	1,190,163,735	\$	4,537,011
5. Additional Contribs to Employer Advance Reserves		237,840,431		288,207,596		243,886,086		44,321,510		0
6. Total Unrecognized Dollars, less Stabilization Reserve		0		0		0		0		0
7. Total Reserves $(4+5+6)$	\$	4,394,462,604	\$	4,749,710,229	\$	3,510,687,973	\$	1,234,485,245	\$	4,537,011
8. Proportion Reserves of Line 4, by Plan						73.30%		26.70%		
9. Valuation Assets for Funding Ratio										
(7 + [8 * 7c])	\$	4,394,462,603	\$	4,749,710,229	\$	3,514,013,445	\$	1,235,696,784		
10. Valuation Assets for Developing Contribution Rate										
(4 + [8 * 7c])	\$	4,156,622,172	\$	4,461,502,633	\$	3,270,127,359	\$	1,191,375,274		
Present Value of Future Benefits										
Actives	\$	3,099,077,369	\$	3,087,772,178	\$	2,317,489,185	\$	770,282,993		
Terminated Vested		226,036,492		244,207,693		205,585,962		38,621,731		
Retirees		3,186,005,932		3,300,635,102		2,410,511,775		890,123,327		
Disabled		336,444,310		336,672,701		134,402,285		202,270,416		
Beneficiaries		235,931,858		245,420,112		159,245,613		86,174,499		
11. Present Value of Future Benefits (PVB)	\$	7,083,495,961	\$	7,214,707,786	\$	5,227,234,820	\$	1,987,472,966		
12. Present Value of Future Normal Costs (PVFNC)		1,142,992,732		1,120,703,620		842,008,454		278,695,166		
13. Actuarial Liability (11 - 12)	\$	5,940,503,229	\$	6,094,004,166	\$	4,385,226,366	\$	1,708,777,800		
14. Funded Ratio (9 / 13)		74.0%		77.9%		80.1%		72.3%		
15. Net (Surplus)/Unfunded (13 - 10)	\$	1,783,881,057	\$	1,632,501,533	\$	1,115,099,007	\$	517,402,526		



SECTION IV – LIABILITIES

Changes in Liabilities

Each of the liabilities disclosed in the prior table are expected to change at each valuation. The components of that change, depending upon which liability is analyzed, can include:

- New hires since the last valuation
- Benefits accrued since the last valuation
- Plan amendments
- Passage of time which adds interest to the prior liability
- Benefits paid to retirees since the last valuation
- Participants retiring, terminating, or dying at rates different than expected
- A change in actuarial or investment assumptions
- A change in the actuarial funding method

Unfunded liabilities will change because of all of the above, and due to changes in System assets resulting from:

- Employer contributions different than expected
- Investment earnings different than expected
- A change in the method used to measure plan assets

Table IV-2 Changes in Actuarial Liability										
Actuarial Liability at December 31, 2023	\$	5,940,503,229								
Actuarial Liability at December 31, 2024	\$	6,094,004,166								
Liability Increase (Decrease)		153,500,937								
Change due to: Accrual of Benefits Actual Benefit Payments Interest Assumption Changes Actuarial Liability (Gain) / Loss	\$	136,298,940 (307,250,164) 399,983,774 (62,089,117) (13,442,496)								



SECTION IV – LIABILITIES

Developme	Total Without Add'l Employer	Total With Add'l Employer		
	General	Safety	Reserves	Reserves
Unfunded Actuarial Liability at Start of Year (not less than zero)	\$ 1,231,325,542 \$	552,555,515 \$	1,783,881,057 \$	1,546,040,626
2. Middle of year unfunded actuarial liability payment	(144,839,850)	(62,356,139)	(207,195,989)	(207,195,989)
3. Interest to end of year on 1. and 2.	78,305,948	35,227,341	113,533,289	97,479,060
4. Change in Actuarial Liability due to assumption change	(46,039,587)	(16,049,530)	(62,089,117)	(62,089,117)
5. Expected UAL at the end of year (1+2+3+4)	1,118,752,053	509,377,187	1,628,129,240	1,374,234,580
6. Actual Unfunded Liability at end of year	1,115,099,007	517,402,526	1,632,501,533	1,344,293,937
7. Net (Gain)/Loss: (6 - 5)	(3,653,046)	8,025,339	4,372,293	(29,940,643)
8. Actuarial Liability (Gain) / Loss	\$ (13,474,518) \$	32,022 \$	(13,442,496) \$	(13,442,496)
9. Actuarial Asset (Gain) / Loss	\$ 10,908,327 \$	5,090,240 \$	15,998,567 \$	11,495,619
10. Contribution (Gain) / Loss	\$ (1,086,855) \$	2,903,077 \$	1,816,222 \$	(27,993,766) 1

¹ Contribution gain with additional employer reserves is equal to the contribution loss, \$1,816,222, less the additional County, MVCD, and Superior Court contributions made during 2024, \$28,852,129, with interest.



SECTION V – CONTRIBUTIONS

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to properly maintain the funding status of the System. The actuarial process utilizes funding techniques with a goal of producing a pattern of contributions that are both stable and predictable.

For this System, the actuarial funding method used to determine the normal cost and the Unfunded Actuarial Liability is the **Entry Age Normal (EAN)** cost method. There are three primary components to the total contribution: the **normal cost rate** (employee and employer), the **Unfunded Actuarial Liability rate** (UAL rate), and the **administrative expense** contribution.

The normal cost rate is determined in the following steps. First, an individual normal cost rate is determined by taking the value, as of entry age into the System, of each member's projected future benefits. This value is then divided by the value, also at entry age, of the member's expected future salary producing a normal cost rate that should remain relatively constant over a member's career. The total normal cost is adjusted with interest to the middle of the year, to reflect the fact that the normal cost contributions are paid throughout the year as member payroll payments are made. Finally, the total normal cost rate is reduced by the member contribution rate to produce the employer normal cost rate.

The member contribution rates used in this valuation reflect the broad cost sharing arrangements in place as of the valuation date that apply to the 2025 Plan Year (i.e., whether the bargaining unit is making the full COLA cost-sharing member contribution and/or the additional 14%/33% Basic member rate). However, the valuation does not include additional fixed rate contributions payable by some bargaining units. Those additional contributions are applied outside of the valuation, and reductions to the employer rates to reflect those additional contributions are provided directly to the individual bargaining groups.

The Unfunded Actuarial Liability is the difference between the EAN Actuarial Liability and the Actuarial Value of Assets. At the July 24, 2015 board meeting, the SJCERA Board of Retirement chose to make a change to their funding policy, opting to amortize any unexpected changes in the UAL over a period of 15 years as a level percentage of payroll, with new amortization layers each year. The result was a set of three amortization bases as of January 1, 2015: the 2008 loss being amortized over 25 years, the remaining UAL as of December 31, 2014 being amortized over 19 years, and new additions to the UAL on and after January 1, 2015 amortized over 15 years. The single equivalent amortization period for all streams of UAL payments is nine years for General and ten years for Safety as of December 31, 2024. The amortization period for each Unfunded Actuarial Liability layer will decrease each year.

The total administrative expenses are assumed to be \$8,500,000 in 2025, increasing with the CPI assumption each valuation. The administrative expenses are split between employees and employers based on their share of the overall contributions.



SECTION V – CONTRIBUTIONS

The tables on the following pages present the employer contributions for the System for this valuation.

Table V-1 Development of Employer Contribution Amount										
December 31, 2024										
Normal Cost at Middle of Year		\$73,185,518	% of pay 12.44%							
Amortization of Unfunded Liability a. Actuarial Liability	\$	6,094,004,166								
b. Actuarial Value of Assets ¹	\$	4,461,502,633								
c. Unfunded Liability (a) – (b)	\$	1,632,501,533								
d. Amortization of Unfunded Liability	\$	208,365,967	33.38%							
3. Administrative Expenses (Employer allocation only)	\$	7,080,785	1.13%							
4. Actuarially Determined Contribution (1) + (2d) + (3)	\$	288,632,270	46.95%							

¹Assets exclude additional County, MVCD, and Superior Court Contribution

Table V-2 Employer Contribution Rate									
	December 31, 2023	December 31, 2024							
Contributions as a Percentage of Payroll ¹									
Gross Entry Age Normal Cost Rate	23.03%	21.62%							
Employee Contribution Rate	<u>9.55%</u>	<u>9.18%</u>							
Employer Entry Age Normal Cost Rate	13.48%	12.44%							
Employer Normal Cost Rate	13.48%	12.44%							
Administrative Expense	0.77%	1.13%							
Amortization Payment	<u>34.95%</u>	<u>33.38%</u>							
Employer Contribution Rate	49.20%	46.95%							
Actuarially Determined Contribution (Employer)	\$ 287,281,720	\$ 288,632,270							

¹ Normal cost and employee contribution rates do not include administrative expenses.



SECTION V – CONTRIBUTIONS

	E	Table Imployer Con	Rate		
		ral Tier 1 per 31, 2024	ral Tier 2 er 31, 2024	fety Tier 1 nber 31, 2024	ty Tier 2 ber 31, 2024
Contributions as a Percentage of Payroll ¹					
Gross Entry Age Normal Cost Rate		21.43%	18.49%	37.10%	29.72%
Employee Contribution Rate		6.78%	9.24%	11.61%	<u>14.86%</u>
Employer Entry Age Normal Cost Rate		14.65%	9.25%	25.49%	14.86%
Employer Normal Cost Rate		14.65%	9.25%	25.49%	14.86%
Administrative Expense		1.13%	1.13%	1.13%	1.13%
Amortization Payment		27.43%	27.43%	66.02%	66.02%
Employer Contribution Rate		43.21%	37.81%	92.64%	82.01%
Actuarially Determined Contribution (Employer)	\$	74,617,809	\$ 131,081,966	\$ 42,695,157	\$ 40,237,338

 $^{^{1}}$ Normal cost and employee contribution rates do not include administrative expenses.



SECTION V – CONTRIBUTIONS

Table V-4 Development of General Amortization Payment For Fiscal Year 2025								
Type of Base	Date Established	Initial Amount	Initial Amortization Years		12/31/2024 Outstanding Balance	Remaining Amortization Years		Amortization Amount
Charges/(Credits)								
1. 2008 Extraordinary Actuarial Loss	12/31/2008 \$	298,074,372	30	\$	306,546,724	14	\$	28,248,721
2. Remaining 12/31/2013 UAL	12/31/2013	584,940,566	19		417,863,144	8		60,957,682
3. 2014 (Gain)/Loss	12/31/2014	(11,658,862)	15		(6,296,882)	5		(1,395,872)
4. 2015 (Gain)/Loss	12/31/2015	34,636,894	15		21,326,590	6		4,008,401
5. 12/31/2015 Assumption Changes	12/31/2015	75,853,467	15		46,704,411	6		8,778,243
6. 2016 (Gain)/Loss	12/31/2016	94,894,097	15		64,829,560	7		10,625,290
7. 2017 (Gain)/Loss	12/31/2017	23,943,774	15		17,782,042	8		2,594,036
8. 12/31/2017 Assumption Changes	12/31/2017	59,045,648	15		43,850,743	8		6,396,926
9. 2018 (Gain)/Loss	12/31/2018	95,504,066	15		75,949,905	9		10,017,091
0. 12/31/2018 Assumption Changes	12/31/2018	17,462,987	15		13,887,495	9		1,831,632
1. 2019 (Gain)/Loss	12/31/2019	8,429,406	15		7,090,522	10		855,976
2. 12/31/2019 Assumption Changes	12/31/2019	96,315,094	15		88,524,171	10		10,686,741
3. 2020 (Gain)/Loss	12/31/2020	(242,042)	15		(213,610)	11		(23,839)
4. 2021 (Gain)/Loss	12/31/2021	(33,479,076)	15		(30,747,091)	12		(3,198,315)
5. 12/31/2021 Assumption Changes	12/31/2021	(75,251,608)	15		(69,110,866)	12		(7,188,919)
6. 2022 (Gain)/Loss	12/31/2022	119,296,199	15		113,342,638	13		11,064,637
7. 2023 (Gain)/Loss	12/31/2023	54,711,061	15		53,462,144	14		4,926,613
8. 2024 (Gain)/Loss	12/31/2024	(3,653,046)	15		(3,653,046)	15		(319,368)
9. 12/31/2024 Assumption Changes	12/31/2024	(46,039,587)	15	_	(46,039,587)	15	_	(4,025,015)
				\$	1,115,099,007	9 ¹	\$	144,840,661

¹ The single equivalent amortization period - i.e. the length of time required to amortize the overall UAL as a level percentage of payroll based on the total current amortization payment is approximately 9 years.



SECTION V – CONTRIBUTIONS

Table V-5 Development of Safety Amortization Payment For Fiscal Year 2025								
Type of Base	Date Established	Initial Amount	Initial Amortization Years		12/31/2024 Outstanding Balance	Remaining Amortization Years	1	Amortization Amount
Charges/(Credits)								
1. 2008 Extraordinary Actuarial Loss	12/31/2008 \$	126,189,527	30	\$	123,448,265	14	\$	11,375,935
2. Remaining 12/31/2013 UAL	12/31/2013	235,559,190	19		168,276,076	8		24,548,036
3. 2014 (Gain)/Loss	12/31/2014	(4,780,021)	15		(2,581,661)	5		(572,294)
4. 2015 (Gain)/Loss	12/31/2015	17,788,933	15		10,952,982	6		2,058,648
5. 12/31/2015 Assumption Changes	12/31/2015	16,001,780	15		9,852,598	6		1,851,827
6. 2016 (Gain)/Loss	12/31/2016	14,516,825	15		9,917,577	7		1,625,449
7. 2017 (Gain)/Loss	12/31/2017	13,716,051	15		10,186,340	8		1,485,979
8. 12/31/2017 Assumption Changes	12/31/2017	22,809,013	15		16,939,303	8		2,471,098
9. 2018 (Gain)/Loss	12/31/2018	26,232,387	15		20,861,388	9		2,751,424
0. 12/31/2018 Assumption Changes	12/31/2018	(1,446,461)	15		(1,150,303)	9		(151,714)
1. 2019 (Gain)/Loss	12/31/2019	30,198,055	15		25,401,547	10		3,066,504
2. 12/31/2019 Assumption Changes	12/31/2019	38,696,213	15		35,566,079	10		4,293,578
3. 2020 (Gain)/Loss	12/31/2020	1,500,664	15		1,324,388	11		147,804
4. 2021 (Gain)/Loss	12/31/2021	(16,417,200)	15		(15,077,510)	12		(1,568,364)
5. 12/31/2021 Assumption Changes	12/31/2021	16,510,425	15		15,163,129	12		1,577,270
6. 2022 (Gain)/Loss	12/31/2022	74,502,950	15		70,784,828	13		6,910,095
7. 2023 (Gain)/Loss	12/31/2023	26,158,834	15		25,561,693	14		2,355,547
8. 2024 (Gain)/Loss	12/31/2024	8,025,339	15		8,025,339	15		701,616
9. 12/31/2024 Assumption Changes	12/31/2024	(16,049,530)	15	_	(16,049,530)	15	-	(1,403,132)
				\$	517,402,526	10 1	\$	63,525,306

¹ The single equivalent amortization period - i.e. the length of time required to amortize the overall UAL as a level percentage of payroll based on the total current amortization payment is approximately 10 years.



SECTION VI - ADDITIONAL ANNUAL FINANCIAL REPORT SCHEDULES

This section of the report provides a schedule for the Actuarial Section of the annual financial report for SJCERA that is not provided in the GASB 67 and 68 reports.

We have prepared the following schedule:

Schedule of Funded Liabilities by Type

The schedule of funded liabilities by type (formerly known as the solvency test) shows the portion of Actuarial Liabilities for active member contributions, inactive members, and the employer financed portion of the active members that are covered by the Actuarial Value of Assets.

The Actuarial Liability is determined assuming that the System is ongoing, and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities as of December 31, 2015 and 2016 were discounted at the assumed rate of 7.40% whereas liabilities as of December 31, 2017 and 2018 were discounted at the assumed rate of 7.25%. The liabilities as of December 31, 2019 and 2020 were discounted at the assumed rate of 7.00%. The liabilities as of December 31, 2021, 2022, 2023 and 2024 are discounted at the assumed rate of 6.75%.

	Table VI-1 Schedule of Funded Liabilities by Type Aggregate Actuarial Liabilities for									
Valuation Date December 31,	Active Member Contributions	Retirees & Beneficiaries	Active Members ¹	Actuarial Value of Assets	Liabili Re _l	on of Actu ties Cove ported Ass	red by sets			
	(1)	(2)	(3)		(1)	(2)	(3)			
2024	\$ 598,847,774	\$ 3,882,727,915	\$ 1,612,428,477	\$ 4,749,710,229	100%	100%	17%			
2023	547,449,365	3,758,382,100	1,634,671,764	4,394,462,603	100%	100%	5%			
2022	494,246,935	3,647,845,013	1,532,570,754	4,084,688,496	100%	98%	0%			
2021	457,136,377	3,436,812,018	1,429,840,419	3,852,266,458	100%	99%	0%			
2020	426,570,416	3,328,307,086	1,452,791,799	3,487,424,521	100%	92%	0%			
2019	396,549,386	3,162,982,551	1,454,100,529	3,226,099,142	100%	89%	0%			
2018	368,549,547	2,899,425,320	1,437,296,083	3,044,897,691	100%	92%	0%			
2017	344,503,811	2,706,791,152	1,445,680,634	2,913,161,286	100%	95%	0%			
2016	318,020,652	2,513,640,349	1,403,432,945	2,733,851,661	100%	96%	0%			
2015	297,179,041	2,347,908,211	1,361,302,798	2,604,472,784	100%	98%	0%			

¹ Includes terminated vested members.



APPENDIX A – MEMBERSHIP INFORMATION

The data for this valuation was provided by the San Joaquin County staff as of December 31, 2024.

Summary of Participant Data as of December 31, 2024								
	General	Safety	Total					
Tier 1 Active Participants								
Number	1,708	349	2,057					
Average Age	53.28	46.92	52.20					
Average Benefit Service	20.29	18.82	20.04					
Average Vesting Service	20.88	19.91	20.72					
Average Pay	\$103,285	\$134,268	\$108,542					
Tier 2 Active Participants								
Number	2,457	347	2,804					
Average Age	44.52	36.05	43.47					
Average Benefit Service	6.76	6.89	6.78					
Average Vesting Service	6.84	7.05	6.86					
Average Pay	\$86,266	\$110,365	\$89,248					
Tier 2B Active Participants								
Number	1,914	138	2,052					
Average Age	38.29	31.25	37.82					
Average Benefit Service	1.37	1.48	1.38					
Average Vesting Service	1.56	1.75	1.57					
Average Pay	\$72,937	\$80,131	\$73,421					
Active PEPRA Participants								
Number	4,371	485	4,856					
Average Age	41.79	34.68	41.08					
Average Benefit Service	4.40	5.35	4.50					
Average Vesting Service	4.53	5.54	4.63					
Average Pay	\$80,429	\$101,762	\$82,560					
All Active Participants								
Number	6,079	834	6,913					
Average Age	45.02	39.80	44.39					
Average Benefit Service	8.87	10.99	9.12					
Average Vesting Service	9.12	11.55	9.42					
Average Pay	\$86,851	\$115,365	\$90,291					



APPENDIX A – MEMBERSHIP INFORMATION

Summary of Participant	t Data as of D	ecember 31,	2024
	General	Safety	Total
Service Retired			
Number	4,541	773	5,314
Average Age	72.07	66.73	71.30
Average Annual Base Benefit	\$31,465	\$56,223	\$35,066
Average Annual Total Benefit	\$42,492	\$77,675	\$47,610
Beneficiaries			
Number	765	228	993
Average Age	74.61	72.96	74.23
Average Annual Base Benefit	\$13,786	\$23,328	\$15,977
Average Annual Total Benefit	\$23,636	\$43,506	\$28,198
Duty Disabled			
Number	257	214	471
Average Age	67.20	64.12	65.80
Average Annual Base Benefit	\$19,314	\$40,401	\$28,895
Average Annual Total Benefit	\$29,526	\$62,305	\$44,419
Non-Duty Disabled			
Number	139	14	153
Average Age	67.60	64.79	67.34
Average Annual Base Benefit	\$12,986	\$23,407	\$13,939
Average Annual Total Benefit	\$20,443	\$37,221	\$21,978
Total Receiving Benefits			
Number	5,702	1,229	6,931
Average Age	72.08	67.41	71.25
Average Annual Base Benefit	\$28,095	\$46,992	\$31,446
Average Annual Total Benefit	\$38,841	\$68,199	\$44,046



APPENDIX A – MEMBERSHIP INFORMATION

Summary of Partici	Summary of Participant Data as of December 31, 2024											
	General	Safety	Total									
Deferred Vested												
Number	807	73	880									
Average Age	48.08	42.84	47.64									
Average Service	8.96	9.66	9.01									
Transfers and DROs												
Number	302	83	385									
Average Age	51.54	47.87	50.75									
Average Service	5.02	4.12	4.83									
Funds on Account												
Number	1772	94	1866									
Average Age	43.37	37.03	43.05									
Average Service	1.33	1.56	1.35									
Total Inactive												
Number	2,881	250	3,131									
Average Age	45.54	42.32	45.29									
Average Service	3.86	4.77	3.93									



APPENDIX A – MEMBERSHIP INFORMATION

Changes in Plan Membership: General

	Actives	Transfers/ DROS	Non-Vested Terminations	Vested Terminations	Non-Duty Disabled	Duty Disabled	Retired	Beneficiaries	Total
December 31, 2023	5,827	323	1,629	742	141	262	4,469	733	14,126
New Entrants	932	0	0	0	0	0	0	0	932
Rehires	39	0	(22)	(13)	0	0	(3)	0	1
Duty Disabilities	(1)	0	0	0	0	1	0	0	0
Non-Duty Disabilities	(1)	(2)	0	0	3	0	0	0	0
Retirements	(139)	(15)	(2)	(33)	0	0	187	2	0
Vested Terminations	(118)	0	0	118	0	0	0	0	0
Retirements from Safety with General Service	0	0	0	4	1	0	18	0	23
Died, With Beneficiaries' Benefit Payable	0	0	0	0	(3)	(3)	(49)	55	0
Died, Without Beneficiary, and Other Terminations	(280)	(2)	277	(1)	(3)	(5)	(79)	0	(93)
Transfers	(12)	0	0	0	0	0	0	0	(12)
Redeposits – AB 2766	0	0	0	0	0	0	0	0	0
Withdrawals Paid	(168)	(2)	(103)	(17)	0	0	0	(1)	(291)
Beneficiary Deaths	0	0	0	0	0	0	0	(28)	(28)
Domestic Relations Orders	0	0	0	0	0	0	0	3	3
Data Corrections	0	0	(7)	7	0	2	(2)	1	1
December 31, 2024	6,079	302	1,772	807	139	257	4,541	765	14,662



APPENDIX A – MEMBERSHIP INFORMATION

Changes in Plan Membership: Safety

	Actives	Transfers/ DROS	Non-Vested Terminations	Vested Terminations	Non-Duty Disabled	Duty Disabled	Retired	Beneficiaries	Total
December 31, 2023	834	85	79	78	13	216	736	226	2,267
New Entrants	63	0	0	0	0	0	0	0	63
Rehires	3	0	0	(2)	0	0	0	0	1
Duty Disabilities	0	0	0	0	0	0	0	0	0
Non-Duty Disabilities	(1)	0	0	0	1	0	0	0	0
Retirements	(46)	(1)	0	(7)	0	0	54	0	0
Vested Terminations	(5)	0	0	5	0	0	0	0	0
Retirements from General with Safety Service	0	0	0	0	0	0	2	0	2
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	(2)	(9)	11	0
Died, Without Beneficiary, and Other Terminations	(18)	0	18	0	0	0	(10)	(4)	(14)
Transfers	12	0	0	0	0	0	0	0	12
Redeposits – AB 2766	0	0	0	0	0	0	0	0	0
Withdrawals Paid	(8)	(1)	(3)	(1)	0	0	0	0	(13)
Beneficiary Deaths	0	0	0	0	0	0	0	(6)	(6)
Domestic Relations Orders	0	0	0	0	0	0	0	1	1
Data Corrections	0	0	0	0	0	0	0	0	0
December 31, 2024	834	83	94	73	14	214	773	228	2,313



APPENDIX A – MEMBERSHIP INFORMATION

Changes in Plan Membership: All Groups

	Actives	Transfers/ DROS	Non-Vested Terminations	Vested Terminations	Non-Duty Disabled	Duty Disabled	Retired	Beneficiaries	Total
December 31, 2023	6,661	408	1,708	820	154	478	5,205	959	16,393
New Entrants	995	0	0	0	0	0	0	0	995
Rehires	42	0	(22)	(15)	0	0	(3)	0	2
Duty Disabilities	(1)	0	0	0	0	1	0	0	0
Non-Duty Disabilities	(2)	(2)	0	0	4	0	0	0	0
Retirements	(185)	(16)	(2)	(40)	0	0	241	2	0
Vested Terminations	(123)	0	0	123	0	0	0	0	0
Retirements with Safety and General Service	0	0	0	4	1	0	20	0	25
Died, With Beneficiaries' Benefit Payable	0	0	0	0	(3)	(5)	(58)	66	0
Died, Without Beneficiary, and Other Terminations	(298)	(2)	295	(1)	(3)	(5)	(89)	(4)	(107)
Transfers	0	0	0	0	0	0	0	0	0
Redeposits – AB 2766	0	0	0	0	0	0	0	0	0
Withdrawals Paid	(176)	(3)	(106)	(18)	0	0	0	(1)	(304)
Beneficiary Deaths	0	0	0	0	0	0	0	(34)	(34)
Domestic Relations Orders	0	0	0	0	0	0	0	4	4
Data Corrections	0	0	(7)	7	0	2	(2)	1	1
December 31, 2024	6,913	385	1,866	880	153	471	5,314	993	16,975



APPENDIX A – MEMBERSHIP INFORMATION

Active Member Data by Plan

	AC	iive meni	ber Data by Pian	A	A
Valuation at	Dlan Trme	Member	Annual Payroll	Average	Average
Year End	Plan Type	Count	Annual Payron	Annual	Salary
2010	General	4.642	¢200 102 424	Salary	Increase
2010	Safety	4,643	\$308,183,424	\$66,376	3.33%
	•	830 5.473	\$64,817,396	\$78,093	2.03%
2011	Total General	5,473 4,441	\$373,000,820 \$298,308,687	\$68,153 \$67,172	3.01% 1.20%
2011	Safety	813	\$64,041,814	\$78,772	0.87%
	Total		\$362,350,501	-	0.87% 1.19%
2012	General	5,254 4,492	\$301,505,122	\$68,967 \$67,120	-0.08%
2012	Safety	803	\$64,386,900	\$80,183	1.79%
	Total	5,295	\$365,892,023	\$69,101	0.19%
2013	General	4,748	\$316,885,044	\$66,741	-0.57%
2013	Safety	805	\$65,640,055	\$81,540	1.69%
	Total	5,553	\$382,525,098	\$68,886	-0.31%
2014	General	4,879	\$322,836,680	\$66,169	-0.86%
2014	Safety	827	\$68,491,483	\$82,819	1.57%
	Total	5,706	\$391,328,162	\$68,582	-0.44%
2015	General	5,131	\$340,731,847	\$66,407	0.36%
2013	Safety	793	\$66,456,278	\$83,804	1.19%
	Total	5,924	\$407,188,125	\$68,735	0.22%
2016	General	5,291	\$373,202,798	\$70,535	6.22%
2010	Safety	811	\$67,593,920	\$83,346	-0.55%
	Total	6,102	\$440,796,718	\$72,238	5.10%
2017	General	5,370	\$381,151,442	\$70,978	0.63%
2017	Safety	848	\$70,776,611	\$83,463	0.0376
	Total	6,218	\$451,928,053	\$72,681	0.61%
2018	General	5,485	\$401,820,940	\$73,258	3.86%
2010	Safety	860	\$72,680,957	\$84,513	1.40%
	Total	6,345	\$474,501,897	\$74,784	3.52%
2019	General	5,526	\$404,710,743	\$73,238	-0.03%
	Safety	843	\$73,747,564	\$87,482	3.51%
	Total	6,369	\$478,458,307	\$75,123	0.45%
2020	General	5,518	\$414,244,475	\$75,071	2.50%
	Safety	832	\$75,245,783	\$90,440	3.38%
	Total	6,350	\$489,490,258	\$77,085	2.61%
2021	General	5,492	\$424,197,359	\$77,239	2.89%
	Safety	837	\$77,959,639	\$93,142	2.99%
	Total	6,329	\$502,156,998	\$79,342	2.93%
2022	General	5,420	\$447,145,524	\$82,499	6.81%
	Safety	824	\$87,240,416	\$105,874	13.67%
	Total	6,244	\$534,385,940	\$85,584	7.87%
2023	General	5,827	\$499,266,336	\$85,682	3.86%
	Safety	834	\$93,499,432	\$112,110	5.89%
	Total	6,661	\$592,765,768	\$88,991	3.98%
2024	General	6,079	\$527,967,270	\$86,851	1.36%
	Safety	834	\$96,214,193	\$115,365	2.90%
	Total	6,913	\$624,181,463	\$90,291	1.46%
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Payroll figures represent active members' annualized pay rates on January 1 of the following year.



APPENDIX A – MEMBERSHIP INFORMATION

Schedule of Retirees and Beneficiaries Valuation Data

Valuation	Dlass	Manakan	D C. i	Members and	Total	Annual	Average	Average
at Year	Plan	Member	Beneficiary	Beneficiaries	Retirees on	Retirement	Annual	Allowance
End	Type	Retirements	Continuance	Removed	Payroll	Payroll	Allowance	Increase
2010	General	242	35	102	3,697	85,931,078	23,243	3.64%
	Safety	65	5	8	792	36,354,738	45,902	2.86%
	Total	307	40	110	4,489	122,285,816	27,241	3.82%
2011	General	240	42	108	3,871	92,938,361	24,009	3.30%
	Safety	32	4	14	814	38,098,866	46,805	1.97%
	Total	272	46	122	4,685	131,037,227	27,970	2.68%
2012	General	278	27	135	4,041	102,025,575	25,248	5.16%
	Safety	52	12	20	856	42,008,598	49,075	4.85%
	Total	330	39	155	4,897	144,034,172	29,413	5.16%
2013	General	213	52	134	4,172	109,869,721	26,335	4.31%
	Safety	22	11	20	869	43,548,028	50,113	2.11%
	Total	235	63	154	5,041	153,411,632	30,433	3.47%
2014	General	247	51	112	4,358	120,722,240	27,701	5.19%
	Safety	29	14	21	891	45,889,472	51,503	2.77%
	Total	276	65	133	5,249	166,611,711	31,742	4.30%
2015	General	227	45	136	4,494	129,928,957	28,912	4.37%
	Safety	54	15	19	941	50,813,875	54,000	4.85%
	Total	281	60	155	5,435	180,742,832	33,255	4.77%
2016	General	251	40	128	4,657	139,511,334	29,957	3.62%
	Safety	40	12	22	971	54,508,607	56,137	3.96%
	Total	291	52	150	5,628	194,019,941	34,474	3.66%
2017	General	249	49	149	4,806	149,183,295	31,041	3.62%
	Safety	46	12	13	1016	57,837,517	56,927	1.41%
	Total	295	61	162	5,822	207,020,812	35,558	3.15%
2018	General	290	47	133	5,010	161,602,326	32,256	3.91%
	Safety	39	8	20	1043	61,364,472	58,835	3.35%
	Total	329	55	153	6,053	222,966,797	36,836	3.59%
2019	General	237	57	179	5,125	171,791,597	33,520	3.92%
	Safety	49	13	22	1083	65,822,764	60,778	3.30%
	Total	286	70	201	6,208	237,614,311	38,276	3.91%
2020	General	237	47	159	5,250	182,786,202	34,816	3.87%
	Safety	37	10	19	1,111	69,214,609	62,299	2.50%
	Total	274	57	178	6,361	252,000,811	39,617	3.50%
2021	General	246	58	159	5,395	192,121,249	35,611	2.28%
	Safety	48	24	36	1,147	71,998,606	62,771	0.76%
	Total	294	82	195	6,542	264,119,855	40,373	1.91%
2022	General	236	48	156	5,523	202,648,699	36,692	3.04%
	Safety	35	3	16	1,169	75,687,232	64,745	3.14%
	Total	271	51	172	6,692	278,335,931	41,592	3.02%
2023	General	208	64	190	5,605	211,339,432	37,706	2.76%
	Safety	36	9	23	1,191	78,820,186	66,180	2.22%
	Total	244	73	213	6,796	290,159,618	42,696	2.65%
2024	General	210	61	174	5,702	221,469,298	38,841	3.01%
	Safety	57	12	31	1,229	83,816,651	68,199	3.05%
	Total	267	73	205	6,931	305,285,948	44,046	3.16%

Payroll figures represent year end monthly retirement benefits annualized and exclude Post-Employment Healthcare benefits.



APPENDIX A – MEMBERSHIP INFORMATION

Fiscal Year	Beginning of Year	Added During Year	Allowances Added (in 000s) ¹	Removed During Year	Allowances Removed	End of Year	Annual Retirement Payroll (in 000s)	Average Allowance Percentage Increase	Average Annual Allowance
2011	4,489	318	11,544	122	2,793	4,685	131,037	2.67%	27,969
2012	4,685	361	16,400	149	3,403	4,897	144,034	5.16%	29,413
2013	4,897	297	12,908	153	3,530	5,041	153,412	3.47%	30,433
2014	5,041	340	16,230	132	3,030	5,249	166,612	4.30%	31,742
2015	5,249	341	17,776	155	3,651	5,435	180,737	4.77%	33,255
2016	5,435	343	17,151	150	3,868	5,628	194,020	3.66%	34,474
2017	5,628	355	17,288	161	4,287	5,822	207,021	3.15%	35,558
2018	5,822	382	19,839	151	3,893	6,053	222,967	3.59%	36,836
2019	6,053	355	20,574	200	5,927	6,208	237,614	3.91%	38,276
2020	6,208	333	19,967	180	5,580	6,361	252,001	3.50%	39,617
2021	6,361	376	19,519	195	7,400	6,542	264,120	1.91%	40,373
2022	6,542	322	19,736	172	5,520	6,692	278,336	3.02%	41,592
2023	6,692	317	19,055	213	7,231	6,796	290,160	2.65%	42,696
2024	6,796	339	22,094	204	6,967	6,931	305,286	3.16%	44,046

¹ Includes COLA amounts not included in previous year's Annual Allowance totals.



APPENDIX A – MEMBERSHIP INFORMATION

Schedule of Average Month	у Венене			Years of S	ervice Cr	edit	
Retirement Effective Date	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over
1/1/2015 to 12/31/2015							
Retirees							
General Members							
Average Benefits	\$330	\$988	\$1,661	\$2,449	\$3,277	\$4,342	\$5,770
Average Final Compensation	\$5,778	\$5,953	\$5,826	\$5,723	\$5,918	\$6,501	\$6,781
Count	12	27	36	43	26	29	37
Safety Members							
Average Benefits	\$585	\$1,352	\$2,452	\$3,959	\$5,597	\$8,061	\$10,770
Average Final Compensation	\$7,403	\$5,334	\$6,269	\$6,943	\$8,120	\$9,621	\$11,481
Count	2	2	4	3	10	21	6
Survivors/DROs							
General Members							
Average Benefits	\$376	\$987	\$999	\$1,612	\$3,184	\$2,709	\$5,276
Average Final Compensation	\$3,328	\$5,939	\$3,359	\$4,532	\$8,017	\$5,312	\$5,850
Count	4	10	9	4	4	3	5
Safety Members							
Average Benefits	\$530	\$2,019	\$2,184	\$1,970	\$2,902	\$4,784	\$5,026
Average Final Compensation	\$6,052	\$11,395	\$9,909	\$3,887	\$4,783	\$6,788	\$5,405
Count	2	1	2	1	2	4	3
1/1/2016 to 12/31/2016							
Retirees							
General Members							
Average Benefits	\$310	\$1,100	\$1,823	\$2,487	\$3,779	\$3,911	\$5,931
Average Final Compensation	\$6,616	\$5,885	\$6,368	\$5,950	\$6,805	\$5,756	\$7,132
Count	21	24	54	48	24	31	42
Safety Members							
Average Benefits	\$3,817	\$1,759	\$2,546	\$6,290	\$5,510	\$9,513	\$12,671
Average Final Compensation	\$7,634	\$5,985	\$6,353	\$11,452	\$8,566	\$11,959	\$13,175
Count	1	6	6	3	7	12	4
Survivors/DROs							
General Members							
Average Benefits	\$313	\$858	\$1,065	\$1,596	\$3,214	\$1,720	\$2,769
Average Final Compensation	\$5,726	\$4,674	\$4,527	\$4,648	\$6,051	\$3,809	\$3,313
Count	5	7	11	6	2	5	1
Safety Members							
Average Benefits	\$495	\$2,235	\$1,253	\$1,661	\$4,086	\$5,943	\$4,712
Average Final Compensation	\$7,339	\$9,642	\$3,842	\$2,755	\$5,646	\$8,003	\$4,803
Count	2	4	1	1	1	1	2



APPENDIX A – MEMBERSHIP INFORMATION

Schedule of Average Month	y Benefit			Years of S	ervice Cr	edit	
Retirement Effective Date	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over
1/1/2017 to 12/31/2017							
Retirees							
General Members							
Average Benefits	\$377	\$1,188	\$2,070	\$2,390	\$3,665	\$4,847	\$6,187
Average Final Compensation	\$9,793	\$6,524	\$6,533	\$5,839	\$6,699	\$7,055	\$7,391
Count	23	35	42	48	20	34	33
Safety Members							
Average Benefits	\$787	\$1,223	\$2,212	\$3,441	\$5,973	\$7,370	\$9,169
Average Final Compensation	\$9,858	\$5,688	\$5,842	\$6,681	\$9,020	\$9,264	\$9,050
Count	5	4	6	9	6	8	1
Survivors/DROs							
General Members							
Average Benefits	\$701	\$992	\$1,442	\$1,078	\$1,941	\$1,746	\$4,828
Average Final Compensation	\$5,325	\$4,183	\$4,550	\$3,587	\$5,038	\$2,502	\$5,368
Count	11	10	8	7	3	4	4
Safety Members							
Average Benefits	\$667	\$2,413	\$1,292	\$0	\$0	\$3,363	\$5,834
Average Final Compensation	\$5,605	\$6,310	\$3,454	\$0	\$0	\$4,597	\$3,354
Count	2	3	2	0	0	1	3
1/1/2018 to 12/31/2018							
Retirees							
General Members							
Average Benefits	\$596	\$1,166	\$1,759	\$2,671	\$3,522	\$5,202	\$6,036
Average Final Compensation	\$9,601	\$6,704	\$5,920	\$6,603	\$6,555	\$7,633	\$6,975
Count	21	45	47	55	25	33	39
Safety Members							
Average Benefits	\$2,721	\$2,622	\$2,166	\$3,313	\$3,997	\$7,453	\$10,935
Average Final Compensation	\$5,485	\$8,987	\$6,168	\$6,135	\$6,442	\$9,615	\$11,725
Count	1	3	5	5	8	7	4
Survivors/DROs							
General Members							
Average Benefits	\$224	\$659	\$1,201	\$1,204	\$2,150	\$2,590	\$2,759
Average Final Compensation	\$4,220	\$3,482	\$5,324	\$4,292	\$3,513	\$3,538	\$4,382
Count	3	5	10	10	1	5	9
Safety Members							
Average Benefits	\$0	\$1,724	\$3,203	\$0	\$1,201	\$0	\$6,213
Average Final Compensation	\$0	\$6,376	\$4,065	\$0	\$3,140	\$0	\$4,768
Count	0	3	1	0	1	0	3



APPENDIX A – MEMBERSHIP INFORMATION

Schedule of Average Month	y Denem			Years of S	ervice Cr	edit	
Retirement Effective Date	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over
1/1/2019 to 12/31/2019			10 11	10 17	2021		
Retirees							
General Members							
Average Benefits	\$345	\$1,131	\$1,780	\$3,030	\$3,669	\$4,796	\$7,232
Average Final Compensation	\$8,121	\$7,276	\$6,189	\$6,988	\$7,070	\$7,062	\$8,554
Count	20	35	40	36	29	30	37
Safety Members	20	33	10	30	2)	50	31
Average Benefits	\$596	\$2,060	\$3,057	\$3,965	\$4,173	\$9,630	\$17,094
Average Final Compensation	\$9,587	\$6,917	\$6,658	\$7,484	\$7,087	\$11,287	\$17,300
Count	6	5	5	6	11	10	5
Survivors/DROs	Ü	J	J	Ü	11	10	٥
General Members							
Average Benefits	\$235	\$927	\$994	\$1,599	\$2,453	\$2,930	\$4,532
Average Final Compensation	\$6,898	\$5,691	\$3,777	\$5,652	\$4,288	\$4,213	\$5,778
Count	6	8	12	7	8	6	10
Safety Members				•			- "
Average Benefits	\$712	\$1,280	\$1,831	\$0	\$3,258	\$4,435	\$6,246
Average Final Compensation		\$7,809	\$5,374	\$0	\$4,504	\$4,987	\$6,460
Count	2	2	3	0	3	2	1
1/1/2020 to 12/31/2020							
Retirees							
General Members							
Average Benefits	\$344	\$1,373	\$1,926	\$3,086	\$3,108	\$4,527	\$6,734
Average Final Compensation	\$7,961	\$9,038	\$6,637	\$6,948	\$5,859	\$6,790	\$8,250
Count	21	32	36	35	33	26	50
Safety Members							
Average Benefits	\$430	\$1,750	\$2,749	\$3,265	\$4,763	\$7,209	\$13,386
Average Final Compensation	\$9,072	\$6,259	\$6,672	\$6,689	\$7,515	\$9,083	\$13,811
Count	3	2	4	4	12	11	3
Survivors/DROs							
General Members							
Average Benefits	\$505	\$735	\$990	\$1,096	\$1,547	\$1,904	\$3,690
Average Final Compensation	\$5,989	\$6,865	\$3,653	\$3,254	\$3,428	\$3,781	\$4,974
Count	4	4	8	5	5	6	8
Safety Members							
Average Benefits	\$1,246	\$0	\$1,622	\$4,494	\$0	\$5,142	\$6,753
Average Final Compensation	\$6,483	\$0	\$2,296	\$9,747	\$0	\$5,684	\$7,710
Count	2	0	2	2	0	1	2



APPENDIX A – MEMBERSHIP INFORMATION

Schedule of Average Month	Number of Years of Service Credit							
Retirement Effective Date	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over	
1/1/2021 to 12/31/2021								
Retirees								
General Members								
Average Benefits	\$215	\$1,150	\$2,109	\$2,548	\$3,599	\$4,735	\$5,977	
Average Final Compensation		\$6,452	\$7,236	\$6,571	\$6,677	\$7,645	\$7,427	
Count	21	30	37	38	43	28	45	
Safety Members		50	37	20	.5	20		
Average Benefits	\$857	\$2,288	\$2,916	\$3,799	\$5,049	\$6,749	\$7,937	
Average Final Compensation		\$11,850	\$7,852	\$6,954	\$7,814	\$9,398	\$8,663	
Count	5	6	2	9	20	4	1	
Survivors/DROs	· ·	v	_			•	-	
General Members								
Average Benefits	\$995	\$505	\$1,203	\$1,561	\$1,902	\$3,872	\$2,573	
Average Final Compensation		\$3,789	\$5,463	\$4,495	\$3,647	\$6,175	\$4,831	
Count	7	8	6	9	6	9	6	
Safety Members	,	Ü	v		Ü		Ŭ	
Average Benefits	\$1,312	\$1,366	\$2,295	\$3,103	\$0	\$5,702	\$6,523	
Average Final Compensation	-	\$5,396	\$4,830	\$4,585	\$0	\$7,451	\$6,523	
Count	3	1	3	3	0	3	8	
1/1/2022 to 12/31/2022								
Retirees								
General Members								
Average Benefits	\$516	\$1,091	\$1,657	\$2,604	\$3,439	\$4,984	\$6,980	
Average Final Compensation		\$6,761	\$5,780	\$7,167	\$6,615	\$7,384	\$8,606	
Count	20	53	22	28	44	28	36	
Safety Members	-							
Average Benefits	\$1,497	\$2,207	\$2,639	\$4,947	\$5,063	\$6,651	\$12,981	
Average Final Compensation		\$6,699	\$7,528	\$9,283	\$8,414	\$8,760	\$13,277	
Count	3	3	6	5	9	4	3	
Survivors/DROs							-	
General Members								
Average Benefits	\$675	\$890	\$931	\$1,311	\$3,104	\$1,389	\$3,323	
Average Final Compensation	\$0	\$4,735	\$3,621	\$3,319	\$7,709	\$2,896	\$4,286	
Count	1	12	5	6	6	2	6	
Safety Members			•	-	-		-	
Average Benefits	\$2,642	\$2,099	\$0	\$408	\$2,356	\$0	\$0	
Average Final Compensation	\$2,560	\$8,335	\$0	\$700	\$3,823	\$0	\$0	
Count	1	1	0	1	1	0	0	



APPENDIX A – MEMBERSHIP INFORMATION

Schedule of Average Month	y Denem			Years of S	ervice Cro	edit	
Retirement Effective Date	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over
1/1/2023 to 12/31/2023			10 11	10 17			
Retirees							
General Members							
Average Benefits	\$557	\$1,055	\$1,975	\$3,216	\$3,987	\$5,161	\$5,849
Average Final Compensation	\$9,419	\$7,275	\$6,945	\$7,426	\$7,176	\$8,011	\$7,270
Count	26	44	22	28	35	22	24
Safety Members	20		22	20	33	22	21
Average Benefits	\$481	\$1,635	\$2,346	\$5,283	\$6,204	\$7,701	\$0
Average Final Compensation	\$7,084	\$9,162	\$7,177	\$9,260	\$9,175	\$9,898	\$0 \$0
Count	2	4	4	8	10	3	0
Survivors/DROs	_	·	•	Ü	10	3	Ŭ
General Members							
Average Benefits	\$940	\$1,757	\$1,280	\$1,414	\$1,393	\$2,630	\$4,157
Average Final Compensation		\$7,098	\$3,455	\$4,585	\$3,647	\$5,066	\$5,609
Count	4	6	6	12	8	12	7
Safety Members		-					·
Average Benefits	\$0	\$3,695	\$0	\$0	\$4,707	\$6,776	\$5,577
Average Final Compensation	\$0	\$12,787	\$0	\$0	\$4,341	\$7,552	\$5,871
Count	0	1	0	0	1	2	1
1/1/2024 to 12/31/2024							
Retirees							
General Members							
Average Benefits	\$362	\$1,534	\$2,247	\$3,457	\$3,953	\$4,647	\$6,443
Average Final Compensation	\$9,224	\$8,468	\$7,571	\$8,758	\$7,011	\$7,255	\$7,643
Count	26	30	36	26	37	23	22
Safety Members							
Average Benefits	\$778	\$1,833	\$4,273	\$5,969	\$7,115	\$8,432	\$9,211
Average Final Compensation	\$8,132	\$9,040	\$10,662	\$11,143	\$10,655	\$10,046	\$9,005
Count	4	7	5	7	23	6	3
Survivors/DROs							
General Members							
Average Benefits	\$924	\$1,309	\$1,042	\$1,458	\$3,902	\$1,864	\$3,393
Average Final Compensation	\$4,203	\$5,825	\$4,418	\$4,008	\$5,569	\$3,708	\$4,469
Count	7	12	9	8	11	5	7
Safety Members							
Average Benefits	\$2,992	\$0	\$3,657	\$2,900	\$4,562	\$4,605	\$6,085
Average Final Compensation	\$7,357	\$0	\$3,521	\$3,521	\$0	\$6,134	\$5,275
Count	2	0	1	2	1	2	3



APPENDIX A – MEMBERSHIP INFORMATION

						eral Active					
By Age And Service As of December 31, 2024 Service											
Age	Under 1	Under 1 1 to 4 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 30 to 34 35 to 39 40 & up								Total	
Under 25	44	69	0	0	0	0	0	0	0	0	113
25 to 29	105	345	22	0	0	0	0	0	0	0	472
30 to 34	92	418	193	13	0	0	0	0	0	0	716
35 to 39	61	348	254	97	14	0	0	0	0	0	774
40 to 44	52	290	263	128	110	25	1	0	0	0	869
45 to 49	50	216	223	139	140	108	22	0	0	0	898
50 to 54	34	155	173	118	118	144	92	10	1	0	845
55 to 59	18	143	137	84	87	107	78	38	12	1	705
60 to 64	12	69	90	68	60	78	48	26	25	3	479
65 to 69	6	23	33	33	20	18	11	7	3	2	156
70 & up	0	8	7	8	2	5	12	1	2	7	52
Total	474	2,084	1,395	688	551	485	264	82	43	13	6,079

Average Age = 45.02

Average Service = 8.87

Payroll Distribution of General Active Participants By Age And Service As of December 31, 2024											
				· 0	Ser						
Age	Under 1 1 to 4 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 30 to 34 35 to 39 40 & up								Total		
Under 25	59,264	60,866	0	0	0	0	0	0	0	0	60,242
25 to 29	67,366	72,712	80,164	0	0	0	0	0	0	0	71,870
30 to 34	70,908	77,254	86,131	78,192	0	0	0	0	0	0	78,849
35 to 39	69,930	79,259	87,348	96,648	89,431	0	0	0	0	0	83,542
40 to 44	65,048	79,097	89,404	100,511	97,261	80,587	78,357	0	0	0	86,871
45 to 49	76,162	77,746	94,041	97,234	106,220	105,344	83,004	0	0	0	92,608
50 to 54	72,509	80,326	89,623	102,220	107,631	97,010	109,828	80,119	110,254	0	94,873
55 to 59	78,716	81,504	86,972	95,858	100,442	98,442	97,905	89,525	87,201	72,448	91,444
60 to 64	69,320	82,781	85,275	97,213	86,023	88,070	92,467	105,429	97,300	106,278	89,334
65 to 69	66,568 83,528 92,990 89,241 128,171 97,238 75,762 84,924 108,501 124,315									93,909	
70 & up	0	91,758	97,517	122,947	167,288	61,942	86,181	139,408	123,023	132,378	103,670
Total	69,144	77,430	88,820	98,002	102,214	96,544	98,300	93,636	96,761	120,505	86,851

Average Salary = \$86,851



APPENDIX A – MEMBERSHIP INFORMATION

Distribution of Safety Active Members											
				By Age And	l Service As	s of Decemb	er 31, 2024				
	Service										
Age	Under 1	nder 1 1 to 4 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 30 to 34 35 to 39 40 & up								Total	
Under 25	3	27	0	0	0	0	0	0	0	0	30
25 to 29	6	71	29	0	0	0	0	0	0	0	106
30 to 34	2	53	73	18	1	0	0	0	0	0	147
35 to 39	2	25	57	36	17	0	0	0	0	0	137
40 to 44	1	10	35	17	73	15	2	0	0	0	153
45 to 49	0	3	12	11	28	53	6	1	0	0	114
50 to 54	3	5	6	5	18	28	24	1	0	0	90
55 to 59	2	5	6	0	5	13	6	1	0	0	38
60 to 64	0	2	3	3	2	1	2	0	1	0	14
65 to 69	0	0 1 0 2 0 1 0 0 0									4
70 & up	0	0	0	0	1	0	0	0	0	0	1
Total	19	202	221	92	145	111	40	3	1	0	834

Average Age = 39.80

Average Service = 10.99

Payroll Distribution of Safety Active Participants By Age And Service As of December 31, 2024											
				7 8	Ser		, , , , , , ,				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	Total
Under 25	60,065	81,757	0	0	0	0	0	0	0	0	79,588
25 to 29	62,777	87,504	110,668	0	0	0	0	0	0	0	92,442
30 to 34	61,519	87,501	107,732	127,017	144,575	0	0	0	0	0	102,421
35 to 39	73,476	91,706	108,249	124,394	149,307	0	0	0	0	0	114,060
40 to 44	58,333	87,223	115,969	115,214	135,273	145,152	135,965	0	0	0	125,963
45 to 49	0	124,481	118,535	119,257	124,587	127,920	136,121	205,121	0	0	126,296
50 to 54	102,597	136,675	143,776	120,005	127,386	140,404	149,595	142,622	0	0	137,900
55 to 59	170,589	126,782	140,005	0	131,813	122,717	120,493	116,854	0	0	129,192
60 to 64	0	175,347	130,595	143,823	101,555	129,870	100,021	0	65,493	0	126,605
65 to 69	0	70,904	0	130,703	0	115,468	0	0	0	0	111,944
70 & up	0	0	0	0	135,109	0	0	0	0	0	135,109
Total	80,745	90,767	112,307	123,129	133,355	132,694	140,048	154,866	65,493	0	115,365

Average Salary = \$115,365



APPENDIX A – MEMBERSHIP INFORMATION

Service Retired Benefits

	Ger	eral	Sa	ıfety	To	tal
Current Age	Number	Annual Average Benefit	Number	Annual Average Benefit	Number	Annual Average Benefit
0-24	0	\$0	0	\$0	0	\$0
25-29	0	\$0	0	\$0	0	\$0
30-34	0	\$0	0	\$0	0	\$0
35-39	0	\$0	0	\$0	0	\$0
40-44	0	\$0	2	\$38,662	2	\$38,662
45-49	0	\$0	16	\$56,965	16	\$56,965
50-54	89	\$16,958	78	\$59,877	167	\$37,004
55-59	232	\$27,748	109	\$74,233	341	\$42,607
60-64	557	\$39,612	137	\$81,670	694	\$47,914
65-69	936	\$43,328	130	\$86,504	1,066	\$48,593
70-74	985	\$48,753	109	\$87,345	1,094	\$52,598
75-79	875	\$46,717	108	\$89,337	983	\$51,399
80-84	475	\$41,486	57	\$59,135	532	\$43,377
85-89	256	\$36,744	21	\$45,535	277	\$37,411
90-94	107	\$33,639	5	\$38,095	112	\$33,838
95+	29	\$26,937	1	\$171,827	30	\$31,767
All Ages	4,541	\$42,492	773	\$77,675	5,314	\$47,610

Non-Duty Disabled Benefits

	Ger	eral	Sa	ıfety	To	tal
Current		Annual		Annual		Annual
Age	Number	Average	Number	Average	Number	Average
Age		Benefit		Benefit		Benefit
0-24	0	\$0	0	\$0	0	\$0
25-29	0	\$0	0	\$0	0	\$0
30-34	1	\$782	1	\$31,669	2	\$16,226
35-39	0	\$0	0	\$0	0	\$0
40-44	4	\$17,023	1	\$22,812	5	\$18,180
45-49	6	\$15,300	0	\$0	6	\$15,300
50-54	9	\$22,237	2	\$28,418	11	\$23,361
55-59	11	\$20,794	1	\$21,932	12	\$20,889
60-64	19	\$22,975	0	\$0	19	\$22,975
65-69	24	\$22,937	3	\$47,456	27	\$25,661
70-74	25	\$21,127	2	\$25,836	27	\$21,476
75-79	23	\$17,770	1	\$39,449	24	\$18,673
80-84	11	\$18,095	2	\$64,736	13	\$25,271
85-89	4	\$22,310	1	\$24,884	5	\$22,825
90-94	1	\$30,409	0	\$0	1	\$30,409
95+	1	\$9,406	0	\$0	1	\$9,406
All Ages	139	\$20,443	14	\$37,221	153	\$21,978



APPENDIX A – MEMBERSHIP INFORMATION

Duty Disabled Benefits

	Ger	eral	Sa	ıfety	То	tal
Current Age	Number	Annual Average Benefit	Number	Annual Average Benefit	Number	Annual Average Benefit
0-24	0	\$0	0	\$0	0	\$0
25-29	0	\$0	0	\$0	0	\$0
30-34	1	\$327	2	\$45,054	3	\$30,145
35-39	1	\$263	1	\$34,088	2	\$17,175
40-44	6	\$16,032	7	\$44,236	13	\$31,219
45-49	5	\$13,674	10	\$46,443	15	\$35,520
50-54	23	\$14,188	27	\$45,011	50	\$30,832
55-59	21	\$24,297	17	\$61,588	38	\$40,980
60-64	34	\$30,508	47	\$60,489	81	\$47,905
65-69	46	\$31,920	29	\$73,378	75	\$47,951
70-74	54	\$32,149	30	\$67,843	84	\$44,897
75-79	40	\$37,954	28	\$74,852	68	\$53,147
80-84	19	\$32,484	13	\$66,774	32	\$46,414
85-89	5	\$28,337	3	\$67,479	8	\$43,015
90-94	2	\$33,925	0	\$0	2	\$33,925
95+	0	\$0	0	\$0	0	\$0
All Ages	257	\$29,526	214	\$62,305	471	\$44,419

Surviving Beneficiary Benefits (all benefit types)

	Ger	eral	Sa	ıfety	To	tal
Current		Annual		Annual		Annual
Age	Number	Average	Number	Average	Number	Average
Age		Benefit		Benefit		Benefit
0-24	2	\$17,412	2	\$17,393	4	\$17,403
25-29	3	\$28,215	0	\$0	3	\$28,215
30-34	5	\$15,290	0	\$0	5	\$15,290
35-39	6	\$20,831	0	\$0	6	\$20,831
40-44	3	\$11,824	0	\$0	3	\$11,824
45-49	2	\$33,385	2	\$59,580	4	\$46,483
50-54	18	\$16,091	6	\$47,106	24	\$23,845
55-59	23	\$13,497	17	\$37,667	40	\$23,769
60-64	66	\$19,890	29	\$26,860	95	\$22,018
65-69	85	\$22,182	31	\$39,768	116	\$26,882
70-74	132	\$20,183	31	\$52,056	163	\$26,245
75-79	154	\$26,735	35	\$51,292	189	\$31,282
80-84	121	\$27,000	41	\$45,219	162	\$31,611
85-89	71	\$22,086	18	\$50,220	89	\$27,776
90-94	55	\$28,590	11	\$39,970	66	\$30,487
95+	19	\$35,340	5	\$44,822	24	\$37,315
All Ages	765	\$23,636	228	\$43,506	993	\$28,198



APPENDIX A – MEMBERSHIP INFORMATION

Assumed Probabilities of Separation from Active Membership

Age	Non-Duty Death	Ordinary Disability	Service Retirement ¹	Duty Death	Duty Disability
General M	embers – Ma	ale			
20	0.0004	0.000	0.000	0.000	0.000
25	0.0003	0.000	0.000	0.000	0.000
30	0.0004	0.000	0.000	0.000	0.000
35	0.0006	0.000	0.000	0.000	0.000
40	0.0008	0.000	0.000	0.000	0.001
45	0.0009	0.001	0.000	0.000	0.002
50	0.0013	0.001	0.030	0.000	0.003
55	0.0020	0.001	0.040	0.000	0.003
60	0.0029	0.001	0.090	0.000	0.002
65	0.0040	0.001	0.250	0.000	0.002
General M	embers – Fei	male			
20	0.0001	0.000	0.000	0.000	0.000
25	0.0001	0.000	0.000	0.000	0.000
30	0.0002	0.000	0.000	0.000	0.000
35	0.0003	0.000	0.000	0.000	0.000
40	0.0004	0.000	0.000	0.000	0.000
45	0.0005	0.001	0.000	0.000	0.001
50	0.0008	0.001	0.035	0.000	0.001
55	0.0012	0.001	0.035	0.000	0.001
60	0.0018	0.001	0.125	0.000	0.001
65	0.0025	0.001	0.400	0.000	0.001

¹ Lower rates assumed for members with less than 10 years of service, and higher rates assumed for members with at least 30 years of service.

The probabilities for each cause of separation represent the likelihood that a given member will separate at a particular age for the indicated reason. As an example, if the probability of separation of a male general member at age 20 is 0.036, that indicates that 3.6% of active general members are expected to separate from service during the year. Rates of Duty and Non-Duty Death do not include mortality improvements.



APPENDIX A – MEMBERSHIP INFORMATION

Assumed Probabilities of Separation from Active Membership

Age	Non-Duty Death	Ordinary Disability	Service Retirement ¹	Duty Death	Duty Disability
Safety Mei	nbers – Male)			
20	0.0004	0.000	0.075	0.0000	0.000
25	0.0003	0.000	0.075	0.0000	0.001
30	0.0004	0.000	0.075	0.0000	0.002
35	0.0005	0.000	0.075	0.0001	0.003
40	0.0005	0.000	0.075	0.0001	0.003
45	0.0007	0.000	0.075	0.0001	0.005
50	0.0009	0.000	0.200	0.0001	0.007
55	0.0014	0.001	0.200	0.0002	0.010
Safety Mei	mbers – Fema	ale			
20	0.0001	0.000	0.075	0.0000	0.000
25	0.0002	0.000	0.075	0.0000	0.001
30	0.0003	0.000	0.075	0.0000	0.002
35	0.0003	0.000	0.075	0.0000	0.003
40	0.0004	0.000	0.075	0.0000	0.003
45	0.0005	0.000	0.075	0.0001	0.005
50	0.0007	0.000	0.200	0.0001	0.007
55	0.0011	0.001	0.200	0.0001	0.010

¹ Lower rates assumed for members with less than 20 years of service.



APPENDIX A – MEMBERSHIP INFORMATION

Salary Increase, Termination and Withdrawal Assumptions

Years of	Salary Increase:	Salary Increase:			Termination:	
Service	General	Safety	General	Safety	General ¹	Safety ²
0	0.1124	0.1330	0.099	0.068	0.121	0.083
1	0.1021	0.1330	0.068	0.032	0.083	0.039
2	0.0712	0.0815	0.052	0.026	0.063	0.032
3	0.0712	0.0815	0.041	0.026	0.050	0.032
4	0.0506	0.0815	0.036	0.026	0.044	0.032
5	0.0506	0.0532	0.016	0.012	0.064	0.046
6	0.0506	0.0429	0.016	0.006	0.064	0.024
7	0.0506	0.0429	0.011	0.006	0.044	0.024
8	0.0429	0.0429	0.011	0.006	0.044	0.024
9	0.0429	0.0429	0.011	0.005	0.044	0.020
10	0.0403	0.0429	0.009	0.001	0.036	0.024
11	0.0403	0.0429	0.008	0.001	0.032	0.019
12	0.0403	0.0429	0.008	0.001	0.032	0.019
13	0.0403	0.0429	0.006	0.001	0.024	0.019
14	0.0403	0.0429	0.006	0.001	0.024	0.012
15	0.0352	0.0429	0.003	0.001	0.027	0.012
16	0.0352	0.0429	0.003	0.001	0.027	0.012
17	0.0352	0.0429	0.003	0.001	0.027	0.012
18	0.0352	0.0429	0.003	0.001	0.027	0.012
19	0.0352	0.0429	0.003	0.001	0.027	0.012
20	0.0352	0.0429	0.001	0.000	0.014	0.000
21	0.0352	0.0429	0.001	0.000	0.014	0.000
22	0.0352	0.0429	0.001	0.000	0.014	0.000
23	0.0352	0.0429	0.001	0.000	0.014	0.000
24	0.0352	0.0429	0.001	0.000	0.014	0.000
25	0.0352	0.0429	0.001	0.000	0.010	0.000
26	0.0352	0.0429	0.001	0.000	0.010	0.000
27	0.0352	0.0429	0.001	0.000	0.010	0.000
28	0.0352	0.0429	0.001	0.000	0.010	0.000
29	0.0352	0.0429	0.001	0.000	0.010	0.000
30+	0.0352	0.0429	0.000	0.000	0.000	0.000

¹75% of vested terminated General Members with less than five years of service, 25% of those with five to 14 years of service, and 40% of those with 15 or more years of service, are assumed to be reciprocal.



² 67% of vested terminated Safety Members with less than five years of service, and 50% of those with five or more years of service, are assumed to be reciprocal.

APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

The assumptions and methods used in the actuarial valuation as of December 31, 2024 are:

Actuarial Methods

1. Contribution Allocation Procedure

The contribution allocation procedure primarily consists of an actuarial cost method, an asset smoothing method, and an amortization method as described below. This contribution allocation procedure, combined with reasonable assumptions, produces a Reasonable Actuarially Determined Contribution as defined in Actuarial Standard of Practice No. 4. The contribution allocation procedure was selected to balance benefit security, intergenerational equity, and the stability of actuarially determined contributions. The selection also considered the demographics of plan members, the funding goals and objectives of the Board, and the need to accumulate assets to make benefit payments when due.

2. Actuarial Cost Method

The actuarial valuation is prepared using the Entry Age Actuarial Cost Method (CERL 31453.5). Under the principles of this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit (until maximum retirement age). For members who transferred from outside of SJCERA, entry age (for the actuarial cost calculation only) is based on entry into the system. The normal cost for the Plan is based on the sum of the individual normal costs for each member (Individual Entry Age Method).

The UAL (or Surplus Funding) is amortized as a percentage of the projected salaries of present and future members of SJCERA. Effective with the December 31, 2014 valuation, the UAL as of December 31, 2013 is amortized over a closed 19-year period (eight years remaining as of December 31, 2024), except for the additional UAL attributable to the extraordinary loss from 2008, which is being amortized over a separate closed period (14 years as of December 31, 2024).

Any subsequent unexpected change in the Unfunded Actuarial Liability after December 31, 2013 is amortized over 15 years. The UAL payment for the 2020 assumption change was phased in over a three-year period.

3. Valuation of Assets

The assets are valued using a five-year smoothed method based on the difference between the expected market value and the actual market value of the assets as of the valuation date. The expected market value is the prior year's market value increased with the net increase in the cash flow of funds, all increased with interest during the past fiscal year at the expected investment return rate assumption.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

An asset corridor limit is applied such that the smoothed Market Value of Assets stays within 20% of the Market Value of Assets.

The additional employer contribution reserve and special non-valuation reserves are excluded from the valuation assets for the December 31, 2024 valuation. For employers making additional contributions, it is at their discretion when these reserves will be incorporated into the valuation assets used to determine contributions.

4. Changes Since the Previous Valuation

None.

Actuarial Assumptions

The recommended assumptions were reviewed with the Board and approved at their August 8, 2025 meeting. The demographic assumptions are based on an experience study covering the period from January 1, 2022 through December 31, 2024.

1. Rate of Return

Assets are assumed to earn 6.75% net of investment expenses.

2. Administrative Expenses

Administrative expenses are assumed to be \$8,500,000 for the next year, to be split between employees and employers based on their share of the overall contributions. Expenses are expected to grow with the cost of living (by 2.50% per year).

3. Cost of Living

The cost of living as measured by the Consumer Price Index (CPI) will increase at the rate of 2.50% per year. This assumption is also used to project increases in the PEPRA wage cap.

4. Post Retirement COLA

For those with the 3% COLA benefit (i.e., 100% of CPI up to 3% annually with banking), 2.50% annual increases are assumed for members with no COLA bank. Increases are assumed to occur on April 1.

For members in pay status with an existing bank, the COLA will be the maximum COLA of 3.0% until the bank is depleted and 2.50% thereafter. The bank is assumed to decrease at a rate of 50 basis points per year.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

5. Increases in Pay

Assumed pay increases for active Members consist of increases due to base salary adjustments plus service-based increase due to longevity and promotion, as shown below:

Pay Increases											
Years of Service											
	0	1	2	3	4	5	6	7	8-9	10-14	15+
Base Increase	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Longevity & Promotion											
General	8.00%	7.00%	4.00%	4.00%	2.00%	2.00%	2.00%	2.00%	1.25%	1.00%	0.50%
Safety	10.00%	10.00%	5.00%	5.00%	5.00%	2.25%	1.25%	1.25%	1.25%	1.25%	1.25%
Total (Compound)											
General	11.24%	10.21%	7.12%	7.12%	5.06%	5.06%	5.06%	5.06%	4.29%	4.03%	3.52%
Safety	13.30%	13.30%	8.15%	8.15%	8.15%	5.32%	4.29%	4.29%	4.29%	4.29%	4.29%

6. Family Composition

Percentage married for all active members who retire, become disabled, or die during active service is shown in the following table. Male members are assumed to be three years older than their spouses, and female members are assumed to be two years younger than their spouses. It is assumed that 90% of participants with eligible beneficiaries who do not have a service-related disability elect the 60% Joint and Survivor allowance.

Percentage Married					
Gender	Percentage				
Males	75%				
Females	55%				

7. Rates of Termination

Sample rates of termination are shown in the following table on the next page. Termination rates do not apply once a member is eligible for retirement.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

Rates	Rates of Termination*										
Years of Service	General	Safety									
0	22.00%	15.00%									
1	15.00%	7.00%									
2	11.50%	5.75%									
3	9.00%	5.75%									
4	8.00%	5.75%									
5	8.00%	5.75%									
6	8.00%	3.00%									
7	5.50%	3.00%									
8	5.50%	3.00%									
9	5.50%	2.50%									
10	4.50%	2.50%									
11-12	4.00%	2.00%									
13	3.00%	2.00%									
14-19	3.00%	1.25%									
20-29	1.50%	0.00%									
30+	0.00%	0.00%									

^{*} Termination rates do not apply once a member is eligible for retirement.

8. Withdrawal

Rates of withdrawal apply to active Members who terminate their employment and withdraw their member contributions, forfeiting entitlement to future Plan benefits.

45% of all General Member terminations with less than five years of service, 20% of those with five to 14 years of service, and 10% of those with 15 to 19 years of service, 5% of those with 20 or more years of service are assumed to take a refund of contributions.

45% of all Safety Member terminations with less than five years of service, 20% of those with five to nine years of service, and 5% of those with 10 or more years of service, are assumed to take a refund of contributions.

9. Vested Termination and Reciprocal Transfers

Rates of vested termination apply to active Members who terminate their employment and leave their member contributions on deposit with the Plan.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

55% of all General Member terminations with less than five years of service, 80% of those with five to 14 years of service, 90% of those with 15 to 19 years of service, and 95% of those with 20 or more years of service are assumed to leave their contributions on deposit.

55% of all Safety Member terminations with less than five years of service, 80% of those with five to nine years of service, and 95% of those with 10 or more years of service, are assumed to leave their contributions on deposit.

Vested terminated General Members are assumed to begin receiving benefits at age 58; vested terminated Safety Members are assumed to begin receiving benefits at age 50, unless they have outgoing reciprocity, in which case they are assumed to begin receiving benefits at age 53.

75% of vested terminated General Members with less than five years of service, 25% of those with five to 14 years of service, and 40% of those with 15 or more years of service, are assumed to be reciprocal.

67% of vested terminated Safety Members with less than five years of service, and 50% of those with five or more years of service, are assumed to be reciprocal.

Final average pay for General Members who terminate with reciprocity is assumed to increase by 3.52% per year until their assumed retirement date. Final average pay for Safety Members who terminate with reciprocity is assumed to increase by 4.29% per year until their assumed retirement date.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

10. Rates of Service-Connected Disability

Sample service-connected disability rates of active participants are provided in the table below.

	Rates of Svc Disability											
Age	General Male	General Female		Safety Female								
22	0.023%	0.008%	0.047%	0.047%								
27	0.023%	0.008%	0.108%	0.108%								
32	0.024%	0.014%	0.209%	0.209%								
37	0.067%	0.024%	0.296%	0.296%								
42	0.170%	0.050%	0.401%	0.401%								
47	0.286%	0.089%	0.592%	0.592%								
52	0.329%	0.097%	0.825%	0.825%								
57	0.240%	0.060%	1.060%	1.060%								
62	0.240%	0.067%	1.331%	1.331%								

11. Rates of Nonservice-Connected Disability

Sample nonservice-connected disability rates of active participants are provided in the table below.

	Rates of Non-Svc Disability											
Age	General General Safety Age Male Female Male											
22	0.006%	0.008%	0.002%	Female 0.002%								
27	0.006%	0.008%	0.006%	0.006%								
32	0.006%	0.014%	0.011%	0.011%								
37	0.017%	0.024%	0.016%	0.016%								
42	0.043%	0.050%	0.021%	0.021%								
47	0.071%	0.089%	0.031%	0.031%								
52	0.082%	0.097%	0.043%	0.043%								
57	0.060%	0.060%	0.056%	0.056%								
62	0.060%	0.067%	0.070%	0.070%								



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

12. Rates of Mortality for Healthy Lives

Mortality rates for General active members are based on the sex distinct 2021 CalPERS Pre-Retirement Non-Industrial Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020.

Mortality rates for Safety active members are based on the sum of the rates from the 2021 CalPERS Industrial and Non-Industrial Mortality tables, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020. 10% of Safety member active deaths are assumed to occur in the line of duty.

Mortality rates for healthy General annuitants are based on the sex distinct 2021 CalPERS Healthy Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020, and a partial credibility adjustment of 1.05 for males and females.

Mortality rates for Safety annuitants are based on the sex distinct 2021 CalPERS Healthy Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020, and a partial credibility adjustment of 1.05 for males and females.

13. Rates of Mortality for Disabled Retirees

Mortality rates for General disabled annuitants are based on status. Rates for General disabled annuitants with a service-related disability are based on the sex distinct 2021 CalPERS Industrially Disabled Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020. Rates for General disabled annuitants with a non-service-related disability are based on the sex distinct 2021 CalPERS Non-Industrially Disabled Annuitant Mortality Table, with generational mortality improvements projected from 2017 using 80% of Projection Scale MP-2020.

Mortality rates for Safety disabled annuitants are based on the sex distinct 2021 CalPERS Industrially Disabled Mortality Table, with generational mortality improvements projected from 2017 using Projection 80% of Scale MP-2020.

14. Mortality Improvement

The mortality assumptions employ a fully generational mortality improvement projection from the base year of the CalPERS mortality tables (2017) using 80% of Scale MP-2020.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

15. Adjustment for Service Purchases

SJCERA provides Cheiron with the amount of service that active employees are eligible to purchase. We include this service when calculating the employees' benefit eligibility. Half of eligible service purchases, which have not been purchased by the members, are included in the employees' Credited Service, as employees will pay approximately half of the normal cost for these benefits when purchasing this service.

16. Terminal Pay Loads

No adjustments are made to expected Final Compensation or Credited Service to account for increases in pay or Sick Leave Bank service at retirement, respectively.

17. Assumptions for Employee Contribution Rates

Mortality rates are the base mortality tables described above, with projected improvements using 80% of Scale MP-2020 from 2017 to 2045 for General Members and to 2046 for Safety Members. The projection periods are based on the duration of active liabilities for the respective groups, and the period during which the associated contribution rates will be in use. The employee contribution rates are also blended using a male/female weighting of 29%/71% for General Members and 75%/25% for Safety members.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

18. Rates of Retirement

Rates of retirement are based on age, service and tier according to the following tables.

	Tier 1 Rates of Retirement										
	Ge	eneral Ma	ile	Gei	neral Fem	ale	Saf	ety			
	Yea	rs of Serv	vice	Yea	rs of Serv	Years of Service					
Age	5-9	10-29	30+	5-9	10-29	30+	5-19	20+			
45	0.00%	0.00%	5.00%	0.00%	0.00%	4.50%	0.00%	7.50%			
46	0.00%	0.00%	5.00%	0.00%	0.00%	4.50%	0.00%	7.50%			
47	0.00%	0.00%	5.00%	0.00%	0.00%	4.50%	0.00%	7.50%			
48	0.00%	0.00%	5.00%	0.00%	0.00%	4.50%	0.00%	7.50%			
49	0.00%	0.00%	5.00%	0.00%	0.00%	4.50%	0.00%	7.50%			
50	1.00%	3.00%	5.00%	1.00%	3.50%	4.50%	10.00%	20.00%			
51	1.00%	3.00%	5.00%	1.00%	3.50%	4.50%	5.00%	20.00%			
52	1.00%	3.00%	5.00%	1.00%	3.50%	4.50%	5.00%	20.00%			
53	1.00%	3.00%	5.00%	1.00%	3.50%	4.50%	7.50%	20.00%			
54	1.00%	3.00%	10.00%	5.75%	3.50%	4.50%	15.00%	20.00%			
55	2.50%	4.00%	10.00%	2.50%	3.50%	15.00%	15.00%	20.00%			
56	2.50%	4.00%	10.00%	1.50%	7.00%	15.00%	15.00%	20.00%			
57	2.50%	4.00%	10.00%	1.50%	7.00%	15.00%	15.00%	20.00%			
58	2.50%	4.00%	10.00%	1.50%	7.00%	15.00%	15.00%	20.00%			
59	2.50%	9.00%	20.00%	2.00%	7.00%	15.00%	10.00%	50.00%			
60	5.00%	9.00%	20.00%	6.25%	12.50%	30.00%	10.00%	35.00%			
61	5.00%	15.00%	25.00%	6.25%	12.50%	30.00%	10.00%	35.00%			
62	5.00%	20.00%	40.00%	18.50%	20.00%	40.00%	20.00%	35.00%			
63	5.00%	20.00%	40.00%	5.00%	20.00%	40.00%	25.00%	35.00%			
64	5.00%	25.00%	40.00%	9.00%	25.00%	40.00%	25.00%	50.00%			
65	15.00%	25.00%	40.00%	12.50%	40.00%	40.00%	100.00%	100.00%			
66	15.00%	35.00%	50.00%	25.00%	40.00%	40.00%	100.00%	100.00%			
67	15.00%	30.00%	40.00%	25.00%	30.00%	40.00%	100.00%	100.00%			
68	15.00%	30.00%	30.00%	25.00%	30.00%	40.00%	100.00%	100.00%			
69	15.00%	30.00%	30.00%	25.00%	30.00%	30.00%	100.00%	100.00%			
70	50.00%	50.00%	50.00%	50.00%	30.00%	30.00%	100.00%	100.00%			
71	50.00%	50.00%	50.00%	50.00%	30.00%	30.00%	100.00%	100.00%			
72	50.00%	50.00%	50.00%	50.00%	30.00%	30.00%	100.00%	100.00%			
73	50.00%	50.00%	50.00%	50.00%	30.00%	30.00%	100.00%	100.00%			
74	50.00%	50.00%	50.00%	50.00%	30.00%	30.00%	100.00%	100.00%			
75	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

	Tier 2 Rates of Retirement											
	Ge	eneral Ma	ile	Gei	neral Fem	ale	Saf	ety				
	Yea	rs of Serv	vice	Yea	rs of Serv	Years of Service						
Age	5-9	10-29	30 +	5-9	10-29	30+	5-19	20+				
45	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
46	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
47	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
48	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
49	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%				
50	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.50%	17.50%				
51	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	17.50%				
52	2.00%	3.00%	5.00%	1.00%	1.00%	4.50%	5.00%	17.50%				
53	2.00%	3.00%	5.00%	1.00%	1.00%	4.50%	5.00%	17.50%				
54	2.00%	3.00%	10.00%	1.00%	1.00%	4.50%	5.00%	17.50%				
55	2.50%	4.00%	10.00%	2.50%	2.50%	15.00%	5.00%	17.50%				
56	2.50%	4.00%	10.00%	2.50%	2.50%	15.00%	15.00%	17.50%				
57	2.50%	4.00%	10.00%	1.50%	2.50%	15.00%	15.00%	20.00%				
58	2.50%	4.00%	10.00%	1.50%	2.50%	15.00%	15.00%	20.00%				
59	2.50%	9.00%	20.00%	5.00%	6.00%	15.00%	10.00%	30.00%				
60	5.00%	9.00%	20.00%	15.00%	12.50%	30.00%	10.00%	30.00%				
61	5.00%	15.00%	25.00%	8.50%	9.50%	30.00%	10.00%	30.00%				
62	5.00%	20.00%	40.00%	8.50%	12.50%	40.00%	20.00%	30.00%				
63	5.00%	20.00%	40.00%	8.50%	12.50%	40.00%	20.00%	30.00%				
64	5.00%	25.00%	40.00%	12.00%	12.50%	40.00%	20.00%	50.00%				
65	25.00%	25.00%	40.00%	20.00%	15.00%	40.00%	100.00%	100.00%				
66	25.00%	35.00%	50.00%	20.00%	25.00%	40.00%	100.00%	100.00%				
67	25.00%	30.00%	40.00%	30.00%	25.00%	40.00%	100.00%	100.00%				
68	25.00%	30.00%	30.00%	20.00%	20.00%	40.00%	100.00%	100.00%				
69	25.00%	30.00%	30.00%	20.00%	30.00%	30.00%	100.00%	100.00%				
70	30.00%	50.00%	50.00%	30.00%	30.00%	30.00%	100.00%	100.00%				
71	30.00%	50.00%	50.00%	30.00%	30.00%	30.00%	100.00%	100.00%				
72	30.00%	50.00%	50.00%	30.00%	30.00%	30.00%	100.00%	100.00%				
73	30.00%	50.00%	50.00%	30.00%	30.00%	30.00%	100.00%	100.00%				
74	30.00%	50.00%	50.00%	30.00%	30.00%	30.00%	100.00%	100.00%				
75	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%				



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

19. Changes in Assumptions

Details of all assumption changes can be found in the Actuarial Experience Study Document for the period covering January 1, 2022 to December 31, 2024.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

A. Definitions

Compensation:

Compensation means the cash remuneration for services paid by the employer. It includes base pay and certain differential, incentive, and special pay allowances defined by the Board of Retirement. Overtime is excluded, with the exception of overtime paid under the Fair Labor Standards Act that is regular and recurring.

For members joining the Plan on and after January 1, 2013 (Tier 2) Members), only pensionable compensation up to the PEPRA compensation limit (\$155,081 for 2025) will count for computing Plan benefits and employee contributions and employer contributions for those participating in Social Security. For those not participating in Social Security, the compensation cap is 120% of the PEPRA compensation limit (\$186,096 for 2025).

Members hired after January 1, 2022 are members of Tier 2B. For this tier, pensionable compensation is limited to base pay only. All other benefit provisions for this tier, including the PEPRA pensionable compensation caps, are the same as those for Tier 2.

Credited Service: In general, Credited Service is earned for the period during which Member Contributions are paid.

> Temporary service for which the Member was not credited, or service for which the Member withdrew his or her Member Contributions, may be purchased by paying or repaying the Member Contributions with interest. Credit for up to 12 months of a medical leave of absence and all military leaves of absence may also be purchased.

> Public Service (see below) is part of Credited Service for the computation of benefits only, not for eligibility for benefits or for vesting.

Final

Compensation:

For Tier 1 Members, Final Compensation means the highest average Compensation earned during any 12 consecutive months of the Member's employment.

For Tier 2 and 2B Members, highest average Compensation will be based on the highest 36 consecutive months, rather than 12 months.

General Member: Any Member who is not a Safety Member is a General Member.

Public Service:

The Member may elect to purchase Public Service for time spent while employed in another recognized public agency. The public agency must have a reciprocal agreement with the Plan or be one of several specified municipalities, counties, special districts, or State or Federal agencies.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Public Service cannot be purchased if it is used for eligibility for another pension.

The cost to purchase Public Service is twice the Member Contributions and interest applicable for the period of time purchased. Public Service is used to compute benefits but does not count toward eligibility for benefits or vesting.

Safety Member: Any sworn Member engaged in law enforcement, probation, or fire

suppression is a Safety Member.

B. Membership

Eligibility:

All full-time, permanent employees of San Joaquin County and other participating special districts become Members on their date of appointment. Membership is mandatory; only elected officials and members who are age 60 or older at the time of employment in a position requiring membership in SJCERA may choose not to participate.

A Tier 2 Member is any Member joining the Plan for the first time on or after January 1, 2013 (with members hired after January 1, 2022 being members of Tier 2B). Employees who transfer from and are eligible for reciprocity with another public employer will not be Tier 2/2B Members if their service in the reciprocal system was under a previous tier. Employees who were Members of SJCERA prior to January 1, 2013 and experienced a break in service of more than six months and then were reemployed by a different SJCERA-participating employer on or after January 1, 2013 will be considered Tier 2/2B Members for all subsequent service.

Member Contributions:

Each Member contributes a percentage of Compensation to the Plan through payroll deduction. For Tier 1 members, the percentage contributed depends on the Member's age upon joining the Plan. Representative rates are shown in Table 1 on the next page.

Tier 1 members covered by Social Security have their contributions reduced by one-third on the first \$161.54 of biweekly Compensation. General Members who joined the Plan prior to March 7, 1973 and who have earned 30 years of Credited Service do not contribute; Safety Members do not contribute after earning 30 years of Credited Service.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Table 1: Tier 1 Member Contribution Rates (Basic Rates)

General Member Rate

Safety Member Rate

Entry Age	1 st \$350/month	Over \$350	1 st \$350/month	Over \$350
20	2.10%	3.15%	3.16%	4.74%
25	2.31%	3.46%	3.39%	5.08%
30	2.54%	3.81%	3.63%	5.45%
35	2.79%	4.19%	3.91%	5.86%
40	3.08%	4.62%	4.25%	6.38%
45	3.36%	5.04%	4.63%	6.94%
50	3.63%	5.44%	4.39%	6.58%

Rates include the employee share of the administrative expenses.

Some Tier 1 members also contribute half of the normal cost associated with the post-retirement COLA benefits, also based on entry age. Many bargaining groups have also agreed to have their Tier 1 members pay additional basic rate contributions (14% of the current basic rates for General members, 33% for Safety). The complete rate tables for all groups are in the Appendix G.

Tier 2/2B Members contribute half of the normal cost of the Plan. Contributions for these Members are based on the normal cost associated with their benefits; General and Safety members pay different rates.

Tier 2/2B Members pay a single contribution rate, not a rate based on entry age. All Tier 2/2B Members continue contributing after earning 30 years of service. These rates are updated annually, to reflect changes in the Tier 2/2B demographics, as well as any changes in assumptions (such as the discount rate change).

Table 2: Tier 2 Member Contribution Rates

General Member Rate	Safety Member Rate
9.54%	15.16%

Rates include the employee share of the administrative expenses.

Interest is credited semiannually to each Member's accumulated contributions, based on the previous year's expected rate of return on assets. The crediting rate for 2025 is 3.3199%, for an effective annual rate of 6.75%.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

C. Service Retirement

Eligibility:

Tier 1 General Members are eligible to retire at age 50 if they have earned five years of Credited Service and have passed the tenth anniversary of their membership in the Plan. Alternatively, General Members are eligible to retire at any age after having earned 30 years of Credited Service, or upon reaching age 70 with no service requirement.

Tier 1 Safety Members are eligible to retire at age 50 if they have earned five years of Credited Service and have passed the tenth anniversary of their membership in the Plan. Alternatively, Safety Members are eligible to retire at any age after having earned 20 years of Credited Service.

Tier 2/2B General Members are eligible to retire upon attaining age 52 and completing five or more years of service. Tier 2/2B Safety Members are eligible to retire upon attaining age 50 and completing five or more years of service. Tier 2/2B Members are eligible to retire, regardless of service, after attaining age 70.

Benefit Amount:

The Service Retirement Benefit payable to Tier 1 General Members is equal to the percentage in Table 3 on the next page multiplied by the Member's Final Compensation. The Service Retirement Benefit payable to Tier 1 Safety Members is equal to the percentage in the upcoming Table 4 multiplied by the Member's Final Compensation. The percentage of Final Compensation may not exceed 100%. For those Tier 1 members integrated with Social Security, Retirement Benefits based on the first \$350 of monthly Final Average Compensation are reduced by one-third.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Table 3: Tier 1 General Members (CERL Section 31676.14)

Service	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
5					7.38	7.83	8.33	8.71	9.21	9.74	10.30	10.91	11.34	11.77	12.20	12.63	13.06	13.06	13.06	13.06
6					8.85	9.40	10.00	10.45	11.05	11.69	12.37	13.09	13.61	14.12	14.64	15.15	15.67	15.67	15.67	15.67
7					10.33	10.97	11.67	12.19	12.89	13.63	14.43	15.28	15.88	16.48	17.08	17.68	18.28	18.28	18.28	18.28
8					11.80	12.53	13.33	13.93	14.73	15.58	16.49	17.46	18.14	18.83	19.52	20.20	20.89	20.89	20.89	20.89
9					13.28	14.10	15.00	15.67	16.57	17.53	18.55	19.64	20.41	21.18	21.96	22.73	23.50	23.50	23.50	23.50
10					14.75	15.67	16.67	17.41	18.41	19.48	20.61	21.82	22.68	23.54	24.40	25.26	26.11	26.11	26.11	26.11
11					16.23	17.23	18.33	19.15	20.25	21.42	22.67	24.00	24.95	25.89	26.84	27.78	28.72	28.72	28.72	28.72
12					17.70	18.80	20.00	20.89	22.10	23.37	24.73	26.19	27.22	28.25	29.28	30.31	31.34	31.34	31.34	31.34
13					19.18	20.36	21.67	22.64	23.94	25.32	26.79	28.37	29.48	30.60	31.72	32.83	33.95	33.95	33.95	33.95
14					20.65	21.93	23.33	24.38	25.78	27.27	28.85	30.55	31.75	32.95	34.16	35.36	36.56	36.56	36.56	36.56
15					22.13	23.50	25.00	26.12	27.62	29.22	30.91	32.73	34.02	35.31	36.60	37.88	39.17	39.17	39.17	39.17
16					23.60	25.06	26.67	27.86	29.46	31.16	32.97	34.92	36.29	37.66	39.04	40.41	41.78	41.78	41.78	41.78
17					25.08	26.63	28.33	29.60	31.30	33.11	35.03	37.10	38.56	40.01	41.47	42.93	44.39	44.39	44.39	44.39
18					26.55	28.20	30.00	31.34	33.14	35.06	37.09	39.28	40.82	42.37	43.91	45.46	47.00	47.00	47.00	47.00
19					28.03	29.76	31.67	33.08	34.98	37.01	39.16	41.46	43.09	44.72	46.35	47.98	49.61	49.61	49.61	49.61
20					29.50	31.33	33.33	34.82	36.83	38.95	41.22	43.64	45.36	47.08	48.79	50.51	52.23	52.23	52.23	52.23
21					30.98	32.90	35.00	36.57	38.67	40.90	43.28	45.83	47.63	49.43	51.23	53.04	54.84	54.84	54.84	54.84
22					32.45	34.46	36.67	38.31	40.51	42.85	45.34	48.01	49.90	51.78	53.67	55.56	57.45	57.45	57.45	57.45
23					33.93	36.03	38.33	40.05	42.35	44.80	47.40	50.19	52.16	54.14	56.11	58.09	60.06	60.06	60.06	60.06
24					35.40	37.60	40.00	41.79	44.19	46.74	49.46	52.37	54.43	56.49	58.55	60.61	62.67	62.67	62.67	62.67
25					36.88	39.16	41.67	43.53	46.03	48.69	51.52	54.56	56.70	58.85	60.99	63.14	65.28	65.28	65.28	65.28
26					38.35	40.73	43.33	45.27	47.87	50.64	53.58	56.74	58.97	61.20	63.43	65.66	67.89	67.89	67.89	67.89
27					39.83	42.30	45.00	47.01	49.72	52.59	55.64	58.92	61.24	63.55	65.87	68.19	70.51	70.51	70.51	70.51
28					41.30	43.86	46.67	48.75	51.56	54.54	57.70	61.10	63.50	65.91	68.31	70.71	73.12	73.12	73.12	73.12
29					42.78	45.43	48.33	50.49	53.40	56.48	59.76	63.28	65.77	68.26	70.75	73.24	75.73	75.73	75.73	75.73
30	35.28	37.27	39.41	41.73	44.25	47.00	50.00	52.24	55.24	58.43	61.82	65.47	68.04	70.61	73.19	75.77	78.34	78.34	78.34	78.34
31		38.51	40.72	43.12	45.73	48.56	51.67	53.98	57.08	60.38	63.88	67.65	70.31	72.97	75.63	78.29	80.95	80.95	80.95	80.95
32			42.04	44.51	47.20	50.13	53.33	55.72	58.92	62.33	65.95	69.83	72.58	75.32	78.07	80.82	83.56	83.56	83.56	83.56
33				45.90	48.68	51.69	55.00	57.46	60.76	64.27	68.01	72.01	74.84	77.68	80.51	83.34	86.17	86.17	86.17	86.17
34					50.15	53.26	56.67	59.20	62.60	66.22	70.07	74.19	77.11	80.03	82.95	85.87	88.78	88.78	88.78	88.78
35						54.83	58.33	60.94	64.45	68.17	72.13	76.38	79.38	82.38	85.39	88.39	91.40	91.40	91.40	91.40
36							60.00	62.68	66.29	70.12	74.19	78.56	81.65	84.74	87.83	90.92	94.01	94.01	94.01	94.01
37								64.42	68.13	72.06	76.25	80.74	83.92	87.09	90.27	93.44	96.62	96.62	96.62	96.62
38									69.97	74.01	78.31	82.92	86.18	89.44	92.71	95.97	99.23	99.23	99.23	99.23
39										75.96	80.37	85.11	88.45	91.80	95.15	98.49	100	100	100	100
40											82.43	87.29	90.72	94.15	97.59	100				
41												89.47	92.99	96.51	100					
42													95.26	98.86						
43														100						



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Table 4: Tier 1 Safety Members (CERL Section 31664.1)

Service	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
5										15.00	15.00	15.00	15.00	15.00	15.00
6										18.00	18.00	18.00	18.00	18.00	18.00
7										21.00	21.00	21.00	21.00	21.00	21.00
8										24.00	24.00	24.00	24.00	24.00	24.00
9										27.00	27.00	27.00	27.00	27.00	27.00
10										30.00	30.00	30.00	30.00	30.00	30.00
11										33.00	33.00	33.00	33.00	33.00	33.00
12										36.00	36.00	36.00	36.00	36.00	36.00
13										39.00	39.00	39.00	39.00	39.00	39.00
14										42.00	42.00	42.00	42.00	42.00	42.00
15										45.00	45.00	45.00	45.00	45.00	45.00
16										48.00	48.00	48.00	48.00	48.00	48.00
17										51.00	51.00	51.00	51.00	51.00	51.00
18										54.00	54.00	54.00	54.00	54.00	54.00
19										57.00	57.00	57.00	57.00	57.00	57.00
20	37.55	39.75	42.02	44.38	46.83	49.36	52.07	54.51	57.13	60.00	60.00	60.00	60.00	60.00	60.00
21		41.74	44.13	46.6	49.17	51.82	54.67	57.24	59.99	63.00	63.00	63.00	63.00	63.00	63.00
22			46.23	48.82	51.51	54.29	57.27	59.96	62.85	66.00	66.00	66.00	66.00	66.00	66.00
23				51.04	53.85	56.76	59.88	62.69	65.7	69.00	69.00	69.00	69.00	69.00	69.00
24					56.2	59.23	62.48	65.41	68.56	72.00	72.00	72.00	72.00	72.00	72.00
25						61.7	65.09	68.14	71.42	75.00	75.00	75.00	75.00	75.00	75.00
26							67.69	70.86	74.27	78.00	78.00	78.00	78.00	78.00	78.00
27								73.59	77.13	81.00	81.00	81.00	81.00	81.00	81.00
28									79.98	84.00	84.00	84.00	84.00	84.00	84.00
29										87.00	87.00	87.00	87.00	87.00	87.00
30										90.00	90.00	90.00	90.00	90.00	90.00
31										93.00	93.00	93.00	93.00	93.00	93.00
32										96.00	96.00	96.00	96.00	96.00	96.00
33										99.00	99.00	99.00	99.00	99.00	99.00
34										100.00	100.00	100.00	100.00	100.00	100.00
35											100.00	100.00	100.00	100.00	100.00
36												100.00	100.00	100.00	100.00
37													100.00	100.00	100.00
38														100.00	100.00
39															100.00



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Table 5: Tier I Social Security Adjustment

	1 Social Secur	
Age at Retirement	General Member Reduction	Safety Member Reduction
46	\$1.372	\$2.879
47	\$1.449	\$3.037
48	\$1.533	\$3.180
49	\$1.623	\$3.333
50	\$1.721	\$3.500
51	\$1.828	\$3.500
52	\$1.944	\$3.500
53	\$2.031	\$3.500
54	\$2.148	\$3.500
55	\$2.272	\$3.500
56	\$2.404	\$3.500
57	\$2.546	\$3.500
58	\$2.646	\$3.500
59	\$2.746	\$3.500
60	\$2.846	\$3.500
61	\$2.946	\$3.500
62	\$3.046	\$3.500
63	\$3.046	\$3.500
64	\$3.046	\$3.500
65	\$3.046	\$3.500

For Tier 2/2B General Members, the benefit multiplier is 1% at age 52, increasing by 0.1% for each year of age to 2.5% at 67. For Tier 2/2B Safety Members, the benefit multiplier is 2% at age 50, increasing by 0.1% for each year of age to 2.7% at age 57. In between exact ages, the multiplier increases by 0.025% for each quarter year increase in age.

Form of Benefit: The Service Retirement Benefit will be paid monthly beginning at retirement and for the life of the Member. If the member selects the unmodified benefit form, in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse, or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Actuarially equivalent optional benefit forms are also available.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future adjustments when changes in CPI are less than 3%.

In addition, ad hoc cost-of-living adjustments have been granted in the past and may be granted in the future.

A lump sum benefit of \$5,000 will be payable upon the death of a retired member.

D. Service-Connected Disability

Members are eligible for Service-Connected Disability Retirement Eligibility:

benefits at any age if they are permanently disabled as a result of injuries

or illness sustained in the line of duty.

Benefit Amount:

The Service-Connected Disability Retirement Benefit payable to Members is equal to the greater of 50% of their Final Compensation or - if the Member is eligible at disability for a Service Retirement Benefit – the Service Retirement Benefit accrued on the date of disability.

Members who return to work at a different position with lower pay may receive a Supplemental Disability Allowance that, when added to their new pay, may bring the Member's total income up to the current pay for his or her position at the time of disability. The Supplemental Disability Allowance may not exceed the Service-Connected Disability Retirement benefit.

Form of Benefit: The Service-Connected Disability Retirement Benefit will be paid monthly beginning at the effective date of disability retirement and for the life of the Member; in the event of the Member's death, 100% of the benefit will continue for the life of the Member's spouse, or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms are also available.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future adjustments when changes in CPI are less than 3%.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

In addition, ad hoc cost-of-living adjustments have been granted in the past and may be granted in the future.

A lump sum benefit of \$5,000 will be payable upon the death of a retired member.

E. Nonservice-Connected Disability

Eligibility:

Members are eligible for Nonservice-Connected Disability Retirement benefits if they are permanently disabled at any age after earning five years of Credited Service or after becoming eligible for a deferred vested benefit.

Benefit Amount: The Nonservice-Connected Disability Retirement Benefit payable to General Members is equal to the greatest of:

- 1.5% of Final Compensation at disability multiplied by years of Credited Service at disability;
- 1.5% of Final Compensation at disability multiplied by years of Credited Service projected to age 65, but not to exceed one-third of Final Compensation; or
- If the Member is eligible at disability for a Service Retirement Benefit, the Service Retirement Benefit accrued on the date of disability.

The Nonservice-Connected Disability Retirement Benefit payable to Safety Members is equal to the greatest of:

- 1.8% of Final Compensation at disability multiplied by years of Credited Service at disability;
- 1.8% of Final Compensation at disability multiplied by years of Credited Service projected to age 55, but not to exceed one-third of Final Compensation; or
- If the Member is eligible at disability for a Service Retirement Benefit, the Service Retirement Benefit accrued on the date of disability.

Members who return to work at a different position with lower pay may receive a Supplemental Disability Allowance that, when added to their new pay, may bring the Member's total income up to the current pay for his or her position at the time of disability. The Supplemental Disability Allowance may not exceed the Nonservice-Connected Disability Retirement benefit.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Form of Benefit: The Nonservice-Connected Disability Retirement Benefit will be paid monthly beginning at the effective date of disability retirement, and for the life of the Member; in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms are also available.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future adjustments when changes in CPI are less than 3%.

In addition, ad hoc cost-of-living adjustments have been granted in the past and may be granted in the future.

A lump sum benefit of \$5,000 will be payable upon the death of a retired member.

F. Service-Connected Death

Eligibility: A Member's survivors are eligible to receive Service-Connected Death

benefits if the Member's death resulted from injury or illness sustained in

connection with the Member's duties.

Benefit Amount: The Service-Connected Death benefit payable to a surviving spouse or

minor children will be 50% of the Member's Final Compensation.

In the event the Member's death was caused by external violence or physical force, an additional benefit of 25% of the above basic benefit will be paid for the first minor child, 15% for the second, and 10% for the third.

Furthermore, for Safety Members only, there will be an additional lump sum benefit of 12 months of pay at the time of death.

Form of Benefit:

The Service-Connected Death Benefit will be paid monthly beginning at the Member's death and for the life of the surviving spouse or to the age of majority of dependent minor children if there is no spouse.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future adjustments when changes in CPI are less than 3%.

In addition, ad hoc cost-of-living adjustments have been granted in the past and may be granted in the future.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

G. Nonservice-Connected Death

Eligibility: A Member's survivors are eligible to receive Nonservice-Connected Death

benefits if the Member's death arose from causes unrelated to the

Member's duties.

Benefit Amount: In the event the Member had earned fewer than five years of Credited

Service and has no or insufficient reciprocity service from another system, the Nonservice-Connected Death benefit will be a refund of the Member's accumulated contributions with interest plus a payment of one month of Final Compensation for each year of Credited Service,

not to exceed six months.

In the event the Member had earned five or more years of Credited Service, the Nonservice-Connected Death benefit payable to a surviving spouse or minor children will be 60% of the amount the Member would have received as a Nonservice-Connected Disability Retirement Benefit

on the date of death.

Form of Benefit: For Members who had earned fewer than five years of Credited Service at

death, the benefit will be paid as a lump sum.

For Members with five or more years of Credited Service, the Nonservice-Connected Death Benefit will be paid monthly beginning at the Member's death and for the life of the surviving spouse or to the age

of majority of dependent minor children if there is no spouse.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future

adjustments when changes in CPI are less than 3%.

In addition, ad hoc cost-of-living adjustments have been granted in the

past and may be granted in the future.

H. Withdrawal Benefit

Eligibility: A Member is eligible for a Withdrawal Benefit upon termination

of employment.

Benefit Amount: The Withdrawal Benefit is a refund of the Member's accumulated

contributions with interest. Upon receipt of the Withdrawal Benefit, the

Member forfeits all Credited Service.

Form of Benefit: The Withdrawal Benefit is paid in a lump sum upon election by

the Member.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

I. Deferred Vested Benefit

Eligibility: A Member is eligible for a Deferred Vested Benefit upon termination of

employment after earning five years of Credited Service, including reciprocity service from another system. The Member must leave his or

her Member Contributions with interest on deposit with the Plan.

Benefit Amount: The Deferred Vested Benefit is computed in the same manner as the

Service Retirement Benefit, but it is based on Credited Service and Final

Compensation on the date of termination.

For Tier 1 Members, Tables 2 and 3 are extended for service under 10 years using benefit multipliers of one-sixtieth per year of Credited Service at age 52 (General) or 3% per year of Credited Service at age 50 (Safety), with adjustments for earlier or later retirement under Sections 31676.14 and 31664.1, respectively, of the County Employees Retirement

Law of 1937.

Form of Benefit:

The Deferred Vested Benefit will be paid monthly beginning at retirement and for the life of the Member; in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms are also available.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future adjustments when changes in CPI are less than 3%.

In addition, ad hoc cost-of-living adjustments have been granted in the past and may be granted in the future.

A lump sum benefit of \$5,000 will be payable upon the death of a retired member.

J. Reciprocal Benefit

Eligibility:

A Member is eligible for a Reciprocal Benefit upon termination of employment and entry, within a specified period of time, into another retirement system recognized as a reciprocal system by the Plan. In addition, the Member must leave his or her Member Contributions with interest on deposit with the Plan.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Benefit Amount: The Reciprocal Benefit is computed in the same manner as the Service Retirement Benefit, but it is based on Credited Service on the date of

termination and Final Compensation on the date of retirement; Final Compensation is based on the highest of the Compensation earned under

this Plan or the reciprocal plan.

Form of Benefit: The Reciprocal Benefit will be paid monthly beginning at retirement and for the life of the Member; in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's

designated beneficiary.

Actuarially equivalent optional benefit forms are also available.

Annually on April 1, benefits are adjusted to reflect changes in the CPI for the San Francisco Bay Area. Annual adjustments may not exceed 3%, but changes in CPI in excess of 3% are "banked" and used for future adjustments when changes in CPI are less than 3%.

A lump sum benefit may be payable upon the death of a retired Member by the last system under which the Member's service was covered.

K. Changes in Plan Provisions

No changes since the prior valuation.



APPENDIX D - 401(H) REPAYMENT SCHEDULE

As of January 1, 2014, a separate amortization layer was established for the repayment of funds originally transferred to a retiree health reserve. This schedule was prepared in compliance with an approved Voluntary Correction Program that SJCERA submitted to the IRS. The original balance of the amortization layer (\$48.0 million) is being amortized using the same methodology and assumptions as the UAL – as a level percentage of payroll over a 19-year period – after an initial payment of \$19.8 million.

Date	Outstanding Balance	Years Remaining	End of Year Payment		
1/1/2014	\$48,000,000	19	\$2,238,831		
12/31/2014	\$28,076,169	18	\$2,311,593		
12/31/2015	\$27,870,288	17	\$2,385,143		
12/31/2016	\$27,547,546	16	\$2,460,275		
12/31/2017	\$27,125,789	15	\$2,512,141		
12/31/2018	\$26,580,267	14	\$2,591,274		
12/31/2019	\$25,916,063	13	\$2,653,902		
12/31/2020	\$25,076,285	12	\$2,733,519		
12/31/2021	\$24,098,107	11	\$2,778,677		
12/31/2022	\$22,946,052	10	\$2,862,037		
12/31/2023	\$21,632,873	9	\$2,947,899		
12/31/2024	\$20,145,193	8	\$3,036,335		
12/31/2025	\$18,468,658	7	\$3,127,426		
12/31/2026	\$16,587,867	6	\$3,221,248		
12/31/2027	\$14,486,300	5	\$3,317,886		
12/31/2028	\$12,146,239	4	\$3,417,422		
12/31/2029	\$9,548,688	3	\$3,519,945		
12/31/2030	\$6,673,279	2	\$3,625,543		
12/31/2031	\$3,498,182	1	\$3,734,310		
12/31/2032	\$0	0	\$0		



APPENDIX E – GLOSSARY

1. Actuarial Assumptions

Assumptions as to the occurrence of future events affecting pension costs such as mortality, withdrawal, disability, retirement, changes in compensation, and rates of investment return.

2. Actuarial Cost Method

A procedure for determining the actuarial present value of pension plan benefits and expenses and for developing an allocation of such value to each year of service, usually in the form of a normal cost and an Actuarial Liability.

3. Actuarial Gain (Loss)

The difference between actual experience and that expected is based upon a set of actuarial assumptions during the period between two actuarial valuation dates, as determined in accordance with a particular actuarial cost method.

4. Actuarial Liability

The portion of the actuarial present value of projected benefits that will not be paid by future normal costs. It represents the value of the past normal costs with interest to the valuation date.

5. Actuarial Present Value (Present Value)

The value as of a given date of a future amount or series of payments. The actuarial present value discounts the payments to the given date at the assumed investment return and includes the probability of the payment being made.

6. Actuarial Valuation

The determination, as of a specified date, of the normal cost, Actuarial Liability, Actuarial Value of Assets, and related actuarial present values for a pension plan.

7. Actuarial Value of Assets

The value of cash, investments, and other property belonging to a pension plan as used by the actuary for the purpose of an actuarial valuation. The purpose of an Actuarial Value of Assets is to smooth out fluctuations in market values.

8. Actuarially Equivalent

Of equal actuarial present value, determined as of a given date, with each value based on the same set of actuarial assumptions.



APPENDIX E – GLOSSARY

9. Amortization Payment

The portion of the pension plan contribution that is designed to pay interest and principal on the Unfunded Actuarial Liability in order to pay for that liability in a given number of years.

10. Entry Age Normal Actuarial Cost Method

A method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages.

11. Funded Ratio

The ratio of the Actuarial Value of Assets to the Actuarial Liabilities. The funded ratio shown in this report is not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, in the case of a plan termination or other similar action. However, it is an appropriate measure for assessing the need for or the amount of future contributions.

12. Inactive Funded Ratio

The ratio of the Inactive Actuarial Liabilities to the total Actuarial Liabilities. The inactive funded ratio is a measure that shows the minimum funded status needed to pay benefits for all inactive members.

13. Normal Cost

That portion of the actuarial present value of pension plan benefits and expenses, which is allocated to a valuation year by the actuarial cost method.

14. Projected Benefits

Those pension plan benefit amounts which are expected to be paid in the future under a particular set of actuarial assumptions, taking into account such items as increases in future compensation and service credits.

15. Unfunded Actuarial Liability

The excess of the Actuarial Liability over the Actuarial Value of Assets.



APPENDIX F – GENERAL AND SAFETY EMPLOYER CONTRIBUTION RATES

Tier 1: Contribution Rates for General and Safety (no COLA Cost-Sharing)

Separate rates for General and Safety members are shown below. These rates are applicable for employment groups that have not implemented equal sharing of the contributions required for post-retirement Cost-Of-Living Adjustments (COLA) in accordance with Government Code Section 31873.

	ecember 31, endar Year 2			As of December 31, 2024 for Calendar Year 2026				
	General	Safety	Total		General	Safety	Total	
Employer Normal Cost				Employer Normal Cost				
Basic	13.21%	22.47%	15.19%	Basic	12.58%	22.09%	14.58%	
COL	5.77%	10.86%	6.86%	COL	5.22%	10.28%	6.28%	
Total	18.98%	33.33%	22.05%	Total	17.80%	32.37%	20.86%	
UAL Amortization Cost				UAL Amortization Cost				
Basic	17.95%	44.67%	23.64%	Basic	18.61%	40.61%	23.23%	
COL	11.62%	22.58%	13.96%	COL	9.66%	26.25%	13.14%	
Total	29.57%	67.25%	37.60%	Total	28.27%	66.86%	36.37%	
Total Cost				Total Cost				
Basic	31.16%	67.14%	38.83%	Basic	31.19%	62.70%	37.81%	
COL	17.39%	33.44%	20.82%	COL	14.88%	36.53%	19.42%	
Total	48.55%	100.58%	59.65%	Total	46.07%	99.23%	57.23%	



APPENDIX F – GENERAL AND SAFETY EMPLOYER CONTRIBUTION RATES

Tier 1: Contribution Rates for General and Safety (Employer Cost with additional 14% / 33% normal rates by members without COLA Cost-sharing)

Separate rates for General and Safety members contributing an additional 14% / 33% of normal rates are shown below.

	ecember 31, endar Year 2			As of December 31, 2024 for Calendar Year 2026			
	General	Safety	Total		General	Safety	Total
Employer Normal Cost				Employer Normal Cost			
Basic	12.64%	20.78%	14.38%	Basic	12.00%	20.36%	13.76%
COL	5.77%	10.86%	6.86%	COL	5.22%	10.28%	6.28%
Total	18.41%	31.64%	21.24%	Total	17.22%	30.64%	20.04%
UAL Amortization Cost				UAL Amortization Cost			
Basic	17.95%	44.67%	23.64%	Basic	18.61%	40.61%	23.23%
COL	11.62%	22.58%	13.96%	COL	9.66%	26.25%	13.14%
Total	29.57%	67.25%	37.60%	Total	28.27%	66.86%	36.37%
Total Cost				Total Cost			
Basic	30.59%	65.45%	38.02%	Basic	30.61%	60.97%	36.99%
COL	17.39%	33.44%	20.82%	COL	14.88%	36.53%	19.42%
Total	47.98%	98.89%	58.84%	Total	45.49%	97.50%	56.41%



APPENDIX F – GENERAL AND SAFETY EMPLOYER CONTRIBUTION RATES

Tier 1: Contribution Rates for General and Safety (with COLA Cost-sharing)

Separate rates for General and Safety members contributing normal rates plus COLA Cost-sharing are shown below.

As of December 31, 2023 for Calendar Year 2025				As of December 31, 2024 for Calendar Year 2026			
	General	Safety	Total		General	Safety	Total
Employer Normal Cost				Employer Normal Cost			
Basic	13.21%	22.47%	15.19%	Basic	12.58%	22.09%	14.58%
COL	2.93%	5.58%	3.50%	COL	2.63%	5.18%	3.17%
Total	16.14%	28.05%	18.69%	Total	15.21%	27.27%	17.75%
UAL Amortization Cost				UAL Amortization Cost			
Basic	17.95%	44.67%	23.64%	Basic	18.61%	40.61%	23.23%
COL	11.62%	22.58%	13.96%	COL	9.66%	26.25%	13.14%
Total	29.57%	67.25%	37.60%	Total	28.27%	66.86%	36.37%
Total Cost				Total Cost			
Basic	31.16%	67.14%	38.83%	Basic	31.19%	62.70%	37.81%
COL	14.55%	28.16%	17.46%	COL	12.29%	31.43%	16.31%
Total	45.71%	95.30%	56.29%	Total	43.48%	94.13%	54.12%



APPENDIX F – GENERAL AND SAFETY EMPLOYER CONTRIBUTION RATES

Tier 1: Contribution Rates for General and Safety (Employer Cost with additional 14% / 33% normal rates by members and COLA Cost-sharing)

Separate rates for General and Safety members contributing an additional 14% / 33% of normal rates and COLA Cost-sharing are shown below.

As of December 31, 2023 for Calendar Year 2025				As of December 31, 2024			
ior Cal	endar Year 2	2025		for Calendar Year 2026			
	General	Safety	Total		General	Safety	Total
Employer Normal Cost				Employer Normal Cost			
Basic	12.64%	20.78%	14.38%	Basic	12.00%	20.36%	13.76%
COL	2.93%	5.58%	3.50%	COL	2.63%	5.18%	3.17%
Total	15.57%	26.36%	17.88%	Total	14.63%	25.54%	16.93%
UAL Amortization Cost				UAL Amortization Cost			
Basic	17.95%	44.67%	23.64%	Basic	18.61%	40.61%	23.23%
COL	11.62%	22.58%	13.96%	COL	9.66%	26.25%	13.14%
Total	29.57%	67.25%	37.60%	Total	28.27%	66.86%	36.37%
Total Cost				Total Cost			
Basic	30.59%	65.45%	38.02%	Basic	30.61%	60.97%	36.99%
COL	14.55%	28.16%	17.46%	COL	12.29%	31.43%	16.31%
Total	45.14%	93.61%	55.48%	Total	42.90%	92.40%	53.30%



APPENDIX F – GENERAL AND SAFETY EMPLOYER CONTRIBUTION RATES

Tier 2/2B: Contribution Rates for General and Safety (PEPRA Members)

Separate rates for General and Safety members are shown below. These rates are applicable for employment groups that are subject to Government Code Section 7522.30.

As of December 31, 2023 for Calendar Year 2025				As of December 31, 2024 for Calendar Year 2026			
	General	Safety	Total		General	Safety	Total
Employer Normal Cost				Employer Normal Cost			
Basic	7.60%	11.33%	8.06%	Basic	7.36%	11.13%	7.83%
COL	2.43%	4.34%	2.66%	COL	2.18%	4.03%	2.42%
Total	10.03%	15.67%	10.72%	Total	9.54%	15.16%	10.25%
UAL Amortization Cost				UAL Amortization Cost			
Basic	17.95%	44.67%	21.16%	Basic	18.61%	40.61%	21.32%
COL	11.62%	22.58%	12.94%	COL	9.66%	26.25%	11.70%
Total	29.57%	67.25%	34.10%	Total	28.27%	66.86%	33.02%
Total Cost				Total Cost			
Basic	25.55%	56.00%	29.22%	Basic	25.97%	51.74%	29.15%
COL	14.05%	26.92%	15.60%	COL	11.84%	30.28%	14.12%
Total	39.60%	82.92%	44.82%	Total	37.81%	82.02%	43.27%



APPENDIX F – GENERAL AND SAFETY EMPLOYER CONTRIBUTION RATES

Total Normal Cost Rates for General and Safety

As of December 31, 2023 for Calendar Year 2025				As of December 31, 2024 for Calendar Year 2026			
	General	Safety	Total		General	Safety	Total
Total Normal Cost				Total Normal Cost			
Tier 1	23.05%	38.52%	26.36%	Tier 1	21.90%	37.70%	25.22%
Tier 2	20.06%	31.34%	21.44%	Tier 2	19.08%	30.32%	20.50%

The Total Normal Costs shown include the employee and employer share of the assumed administrative expenses.



APPENDIX G – MEMBER CONTRIBUTION RATES

Member contribution rates vary by member Group and Tier. The Tier 1 basic rates are determined based on Government Code Section 31621.3 for General members and Section 31639.5 for Safety members. The COLA rates for Tier 1 members are determined based on 50% of the normal cost associated with the expected COLA benefits, determined for each individual entry age.

The current Tier 1 rates were determined based on an interest rate of 6.75% per annum, an average salary increase of 3.00% per year (plus service-based increases for merit/longevity), and the 2021 CalPERS mortality tables (with a 1.05 adjustment to the male and female rates for healthy annuitants), projected from their base year of 2017 to 2045 for Miscellaneous members and 2046 for Safety members using 80% of Projection Scale MP-2020.

The rates are blended based on a male/female weighting of 29% male/71% female for General members, and 75% male/25% female for Safety members. Tier 1 Basic and COLA rates were determined based on an assumption that members would cease making contributions after 30 years of service.

A load is added to the Tier 1 employee contributions to cover their share of the expected administrative expenses. For the current valuation, the load is 2.6% of each member's total unadjusted contribution rate.

Employee contribution rates for PEPRA members are determined based on half the normal cost for the PEPRA members (computed separately for General and Safety members), including the share of the administrative expenses allocated to the normal cost. Contribution rates for PEPRA members are not rounded and are recomputed each year.

Some Safety groups are paying additional employee contributions as a result of bargaining agreements.



APPENDIX G – MEMBER CONTRIBUTION RATES

General Member Contribution Rates
Basic Half Rate (Government Code Section 31621.3)

Basic Rate COLA Cost-Sharing Rate¹ **Entry Age** 1st \$350/month Over \$350 1st \$350/month Over \$350 16 2.10% 3.15% 1.26% 1.89% 2.10% 3.15% 1.26% 1.89% 17 18 2.10% 3.15% 1.26% 1.89%19 2.10% 3.15% 1.26% 1.89% 20 2.10% 3.15% 1.26% 1.89% 21 2.14% 3.21% 1.29% 1.94% 22 2.18% 3.27% 1.33% 2.00% 23 2.22% 3.33% 1.37% 2.06% 24 2.27% 3.40% 1.41% 2.11% 25 2.31% 3.46% 1.45% 2.17% 26 2.35% 3.53% 1.48% 2.22% 27 2.40% 3.60% 1.51% 2.27% 28 2.44% 3.66% 1.55% 2.32% 29 2.49% 3.73% 1.57% 2.36% 2.54% 30 2.42% 3.81% 1.61% 31 2.59% 3.88% 1.65% 2.47% 32 2.63% 3.95% 1.67% 2.51% 33 2.69% 4.03% 1.71% 2.56% 34 2.74% 4.11% 1.74% 2.61% 35 2.79% 4.19% 1.77% 2.66% 36 2.85% 4.28% 1.82% 2.73% 37 2.91% 4.36% 1.87% 2.80% 38 2.97% 4.45% 1.92% 2.88% 39 3.03% 4.55% 1.97% 2.96% 40 3.08% 4.62% 2.03% 3.05% 41 4.70% 3.13% 2.09% 3.14% 42 3.19% 4.78% 2.15% 3.22% 43 3.25% 4.87% 2.20% 3.30% 44 3.31% 4.96% 2.26% 3.39% 45 3.36% 5.04% 2.32% 3.48% 3.42% 2.38% 3.57% 46 5.13% 47 2.40% 3.60% 3.46% 5.19% 48 3.51% 5.26% 2.41% 3.62% 49 3.56% 5.34% 2.43% 3.64% 50 3.63% 5.44% 2.43% 3.65% 51 3.63% 5.45% 2.43% 3.65% 52 3.66% 5.49% 2.43% 3.64% 53 2.42% 3.61% 5.41% 3.63% 3.53% 5.30% 2.39% 3.59%



¹ Some members and employers share equally the contributions required for post-retirement cost-of-living adjustments (COLA) in accordance with Government Code Section 31873. For other members, the employers pay all of the contributions required for post-retirement COLA.

APPENDIX G – MEMBER CONTRIBUTION RATES

General Member Contribution Rates

Basic Half Rate (Government Code Section 31621.3) + 14% , not greater than 1/2 Normal Cost

	Basic Rate		COLA Cost-Sharing Rate ¹		
Entry Age	1st \$350/month	Over \$350	1st \$350/month	Over \$350	
16	2.39%	3.59%	1.27%	1.90%	
17	2.39%	3.59%	1.27%	1.90%	
18	2.39%	3.59%	1.27%	1.90%	
19	2.39%	3.59%	1.27%	1.90%	
20	2.39%	3.59%	1.27%	1.90%	
21	2.44%	3.66%	1.29%	1.94%	
22	2.49%	3.73%	1.33%	2.00%	
23	2.53%	3.80%	1.37%	2.06%	
24	2.59%	3.88%	1.41%	2.11%	
25	2.63%	3.94%	1.45%	2.17%	
26	2.68%	4.02%	1.48%	2.22%	
27	2.73%	4.10%	1.51%	2.27%	
28	2.78%	4.17%	1.55%	2.32%	
29	2.83%	4.25%	1.58%	2.37%	
30	2.89%	4.34%	1.61%	2.42%	
31	2.95%	4.42%	1.65%	2.47%	
32	3.00%	4.50%	1.68%	2.52%	
33	3.06%	4.59%	1.71%	2.56%	
34	3.13%	4.69%	1.74%	2.61%	
35	3.19%	4.78%	1.78%	2.67%	
36	3.25%	4.88%	1.82%	2.73%	
37	3.31%	4.97%	1.87%	2.81%	
38	3.38%	5.07%	1.92%	2.88%	
39	3.46%	5.19%	1.98%	2.97%	
40	3.51%	5.27%	2.03%	3.05%	
41	3.57%	5.36%	2.09%	3.14%	
42	3.63%	5.45%	2.15%	3.23%	
43	3.70%	5.55%	2.20%	3.30%	
44	3.77%	5.65%	2.27%	3.40%	
45	3.83%	5.75%	2.33%	3.49%	
46	3.90%	5.85%	2.38%	3.57%	
47	3.95%	5.92%	2.40%	3.60%	
48	4.00%	6.00%	2.42%	3.63%	
49	4.06%	6.09%	2.43%	3.65%	
50	4.13%	6.20%	2.43%	3.65%	
51	4.14%	6.21%	2.43%	3.65%	
52	4.17%	6.26%	2.43%	3.64%	
53	4.11%	6.17%	2.42%	3.63%	
54+	4.03%	6.04%	2.39%	3.59%	

¹ Some members and employers share equally the contributions required for post-retirement cost-of-living adjustments (COLA) in accordance with Government Code Section 31873. For other members, the employers pay all of the contributions required for post-retirement COLA.



APPENDIX G – MEMBER CONTRIBUTION RATES

Safety Member Contribution Rates
Basic Half Rate (Government Code Section 31639.5)

Basic Rate COLA Cost-Sharing Rate¹

	<u>Dasic</u>	<u>ixacc</u>	COLA Cost-Si	naring Kate
Entry Age	1st \$350/month	Over \$350	1st \$350/month	Over \$350
16	3.16%	4.74%	3.07%	4.60%
17	3.16%	4.74%	3.07%	4.60%
18	3.16%	4.74%	3.07%	4.60%
19	3.16%	4.74%	3.07%	4.60%
20	3.16%	4.74%	3.07%	4.60%
21	3.21%	4.81%	3.19%	4.79%
22	3.25%	4.87%	3.25%	4.88%
23	3.29%	4.94%	3.31%	4.96%
24	3.34%	5.01%	3.36%	5.04%
25	3.39%	5.08%	3.41%	5.11%
26	3.43%	5.15%	3.45%	5.18%
27	3.48%	5.22%	3.50%	5.25%
28	3.53%	5.29%	3.53%	5.30%
29	3.58%	5.37%	3.56%	5.34%
30	3.63%	5.45%	3.59%	5.38%
31	3.68%	5.52%	3.60%	5.40%
32	3.73%	5.60%	3.59%	5.39%
33	3.79%	5.69%	3.59%	5.39%
34	3.85%	5.77%	3.61%	5.41%
35	3.91%	5.86%	3.65%	5.47%
36	3.97%	5.95%	3.69%	5.54%
37	4.03%	6.05%	3.74%	5.61%
38	4.10%	6.15%	3.79%	5.69%
39	4.17%	6.26%	3.85%	5.77%
40	4.25%	6.38%	3.85%	5.77%
41	4.33%	6.50%	3.88%	5.82%
42	4.43%	6.65%	3.92%	5.88%
43	4.54%	6.81%	3.97%	5.95%
44	4.63%	6.95%	4.02%	6.03%
45	4.63%	6.94%	4.07%	6.10%
46	4.63%	6.94%	4.07%	6.11%
47	4.65%	6.98%	4.10%	6.15%
48	4.52%	6.78%	4.12%	6.18%
49+	4.39%	6.58%	4.12%	6.18%

¹ Some members and employers share equally the contributions required for post-retirement cost-of-living adjustments (COLA) in accordance with Government Code Section 31873. For other members, the employers pay all of the contributions required for post-retirement COLA.



APPENDIX G – MEMBER CONTRIBUTION RATES

Safety Member Contribution Rates

Basic Half Rate (Government Code Section 31639.5) + 33 % , not greater than 1/2 Normal Cost

Normai Cost	Basic	Rate	COLA Cost-Sharing Rate ¹		
Entry Age	1st \$350/month	Over \$350	1st \$350/month	Over \$350	
16	4.20%	6.30%	3.07%	4.61%	
17	4.20%	6.30%	3.07%	4.61%	
18	4.20%	6.30%	3.07%	4.61%	
19	4.20%	6.30%	3.07%	4.61%	
20	4.20%	6.30%	3.07%	4.61%	
21	4.27%	6.40%	3.19%	4.79%	
22	4.32%	6.48%	3.25%	4.88%	
23	4.38%	6.57%	3.31%	4.96%	
24	4.44%	6.66%	3.37%	5.05%	
25	4.51%	6.76%	3.41%	5.12%	
26	4.57%	6.85%	3.46%	5.19%	
27	4.63%	6.94%	3.50%	5.25%	
28	4.69%	7.04%	3.53%	5.30%	
29	4.76%	7.14%	3.56%	5.34%	
30	4.83%	7.25%	3.59%	5.39%	
31	4.89%	7.34%	3.60%	5.40%	
32	4.97%	7.45%	3.59%	5.39%	
33	5.05%	7.57%	3.60%	5.40%	
34	5.11%	7.67%	3.61%	5.41%	
35	5.19%	7.79%	3.65%	5.47%	
36	5.27%	7.91%	3.69%	5.54%	
37	5.37%	8.05%	3.74%	5.61%	
38	5.45%	8.18%	3.79%	5.69%	
39	5.55%	8.33%	3.85%	5.77%	
40	5.66%	8.49%	3.85%	5.77%	
41	5.77%	8.65%	3.88%	5.82%	
42	5.89%	8.84%	3.93%	5.89%	
43	6.04%	9.06%	3.97%	5.95%	
44	6.16%	9.24%	4.02%	6.03%	
45	6.15%	9.23%	4.07%	6.10%	
46	6.15%	9.23%	4.08%	6.12%	
47	6.19%	9.28%	4.10%	6.15%	
48	6.01%	9.02%	4.13%	6.19%	
49+	5.83%	8.75%	4.12%	6.18%	

¹ Some members and employers share equally the contributions required for post-retirement cost-of-living adjustments (COLA) in accordance with Government Code Section 31873. For other members, the employers pay all of the contributions required for post-retirement COLA.



