



City of San José Police and Fire Department Retirement Plan

Actuarial Valuation Report as of June 30, 2024

Produced by Cheiron

November 2024

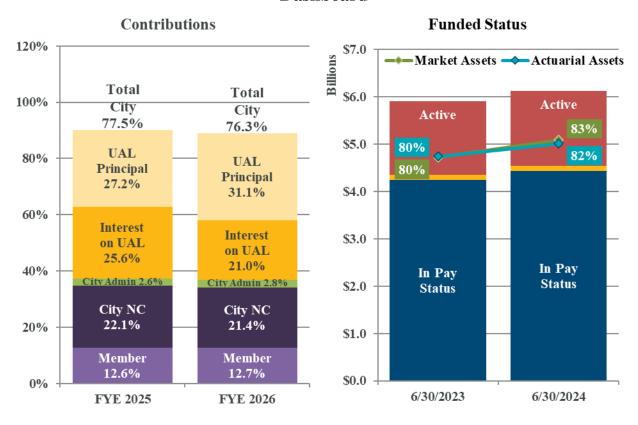
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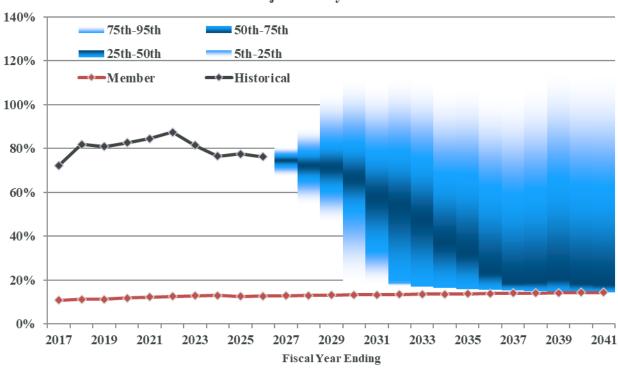


SECTION I – BOARD SUMMARY

Dashboard



Historical and Projected City Contribution Rates





SECTION I – BOARD SUMMARY

Membership

As shown in Table I-1 below, total membership grew 1.0% from 2023 to 2024, while active membership decreased 3.2%. Active membership continues its shift from Tier 1 to Tier 2. Tier 1 active membership decreased by 89 members, while Tier 2 active membership increased by 34 members. Despite the reduction in active membership, the total expected payroll increased by 4.9% in aggregate, with Tier 1 payroll decreasing by 3.4% and Tier 2 payroll increasing by 14.4%.

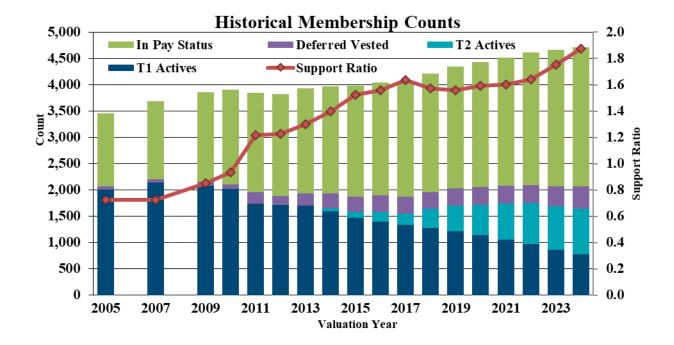
Table I-1

Total Membership												
	June 30, 2023	June 30, 2024	Change									
Active Members												
Tier 1	862	773	-10.3%									
Tier 2	833	867	<u>4.1</u> %									
Total Actives	1,695	1,640	-3.2%									
Terminated Members	374	425	13.6%									
Members In Pay Status	2,598	2,651	<u>2.0</u> %									
Total	4,667	4,716	1.0%									
Annual Rate of Pay for Active Members												
Tier 1	\$ 145,064	\$ 140,202	-3.4%									
Tier 2	126,828	145,147	<u>14.4</u> %									
Total	\$ 271,892	\$ 285,349	4.9%									



SECTION I – BOARD SUMMARY

As shown in the chart below, active membership remained around 2,000 from 2005 through 2010, at which point it declined significantly. The decline leveled around 2015 and gradually recovered through 2022. However, active membership has declined again for the last two years. While active membership declined, the number of members in pay status nearly doubled from 1,385 in 2005 to 2,651 in 2024. As a result, the Support Ratio, the number of members in pay status or with deferred benefits that each active member supports when there are actuarial losses or assumption changes, increased from approximately 0.7 in 2005 to 1.9 in 2024. An increase in this ratio is expected for a maturing plan, but the impact of the recession in 2008-2009 accelerated the trend significantly. As there are more retirees to be supported by each active member, contributions tend to become more volatile and sensitive to changes.





SECTION I – BOARD SUMMARY

Funded Status

This report measures assets and liabilities for funding purposes. Table I-2 below summarizes the Actuarial Liability, assets, and related ratios as of June 30, 2023, and 2024.

Table I-2

Actuarial Liability, Ass	sets	and Fund	ed	Status	
	Ju	me 30, 2023	Jı	ane 30, 2024	Change
1. Actuarial Liability					
a. Actives	\$	1,557,513	\$	1,588,937	2.0%
b. Deferred Vested		100,324		109,780	9.4%
c. In Pay Status		4,250,717		4,434,112	4.3%
d. Total	\$	5,908,554	\$	6,132,829	3.8%
2. Market Value of Assets (MVA)	\$	4,721,488	\$	5,096,460	7.9%
3. UAL - MVA Basis (1.d 2.)	\$	1,187,066	\$	1,036,369	-12.7%
4. Funding Ratio - MVA Basis (2. ÷ 1.d.)		79.9%		83.1%	3.2%
5. Actuarial Value of Assets (AVA)	\$	4,739,742	\$	5,013,631	5.8%
6. UAL - AVA Basis (1.d 5.)	\$	1,168,812	\$	1,119,198	-4.2%
7. Funding Ratio - AVA Basis (5. ÷ 1.d.)		80.2%		81.8%	1.5%
8. Expected Payroll	\$	271,893	\$	285,349	4.9%
9. Asset Leverage Ratio (2. ÷ 8.)		17.4		17.9	2.9%
10. Actuarial Liability Leverage Ratio (1.d. ÷ 8.)		21.7		21.5	-1.1%

Dollar amounts in thousands

The Actuarial Liability represents the target amount of assets the Plan should have in the trust as of the valuation date based on the actuarial cost method. The Actuarial Liability increased by 3.8%, and the Market Value of Assets increased by 7.9%. As a result, the Unfunded Actuarial Liability (UAL) measured on the Market Value of Assets decreased by 12.7% from approximately \$1,187.1 million to \$1,036.4 million, and the funding ratio on an MVA basis increased from 79.9% to 83.1%.

The asset smoothing method defers 80% of the current year's investment gain or loss on the Market Value of Assets while recognizing 20% of the prior four years' gains and losses, resulting in a 5.8% increase in the Actuarial Value of Assets. The UAL measured on the Actuarial Value of Assets decreased 4.2% from approximately \$1,168.8 million to \$1,119.2 million, and the funding ratio increased from 80.2% to 81.8%. The Market Value of Assets is larger than the Actuarial Value, so deferred net asset gains of \$82.8 million will be recognized in the Actuarial Value of Assets over the next four years.



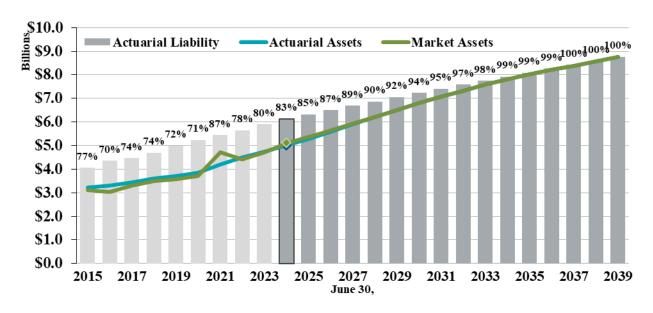
SECTION I – BOARD SUMMARY

The asset leverage ratio of 17.9 means that if the Plan experiences a 10% loss on assets compared to the discount rate of 6.625% (-3.375% return), the loss would be equivalent to 179% of payroll. Interest payments alone on such a loss would be approximately 11.9% of payroll.

As the Plan becomes better funded, the asset leverage ratio will increase, and if it were 100% funded, the leverage ratio would be 21.5. These leverage ratios are extremely high compared to other public pension plans, indicating that this plan is far more sensitive to investment gains or losses and assumption changes than other large public pension plans.

The chart below shows the historical and projected trends for assets (both market and smoothed actuarial value) versus the Actuarial Liability and the progress of the funding ratios (based on the Market Value of Assets) since 2015. The historical Actuarial Liability is in light gray, while the projected Actuarial Liability is in darker gray. From 2015 to 2020, the funding ratio declined from 77% to 71%, primarily due to lower-than-expected investment returns and assumption changes, including discount rate reductions. The exceptional investment returns in 2021 increased the funding ratio from 71% to 87% based on the Market Value of Assets. However, the investment losses in 2022 reduced the funded ratio to 78%. The funded ratio has improved since then to 83% this year. If all assumptions are met, the funded status is expected to reach 100% by 2037.

Historical and Projected Assets and Actuarial Liability



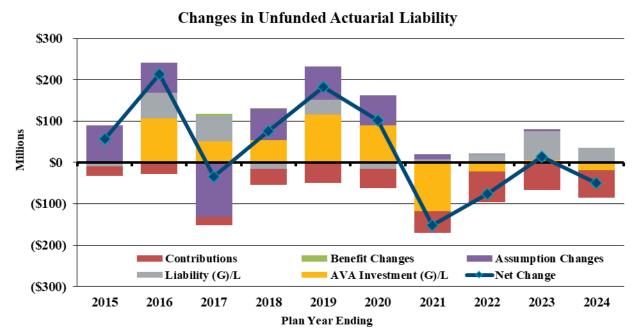
While the funded status is expected to improve, the UAL depends on actual investment returns, changes in assumptions, and actuarial gains and losses, so the projected UAL could potentially range widely. Section IV of this report provides more details on the assets, and section V provides more details on the liability measures.



SECTION I – BOARD SUMMARY

Changes in UAL

The chart and Table I-3 below show the historical changes to the UAL by the following sources: investment gains and losses on the Actuarial Value of Assets (AVA), liability gains and losses, assumption changes, benefit changes, and contributions compared to normal cost plus interest on the UAL.



Over the last 10 years, the UAL increased by about \$330 million. Assumption changes in 9 of the last 10 years increased the UAL by \$280 million. Liability losses, primarily due to higher-than-expected salary increases, increased the UAL by \$252 million. Investment experience on the AVA increased the UAL by \$261 million, and benefit changes increased the UAL by about \$4 million. Contributions, the only consistent source of UAL reduction, reduced the UAL by about \$468 million.

Table I-3

	Changes in Unfunded Actuarial Liability													
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total			
Discount Rate	7.00%	6.875%	6.875%	6.75%	6.75%	6.625%	6.625%	6.625%	6.625%	6.625%				
Source Source														
AVA (G)/L	\$ (2.8)	\$ 106.8	\$ 50.9	\$ 53.6	\$ 116.2	\$ 89.5	\$ (117.2)	\$ (22.5)	\$ 5.3	\$ (18.4)	\$ 261.4			
Liability (G)/L	(7.3)	61.3	61.8	(15.1)	35.1	(15.4)	6.7	20.3	69.6	35.4	252.4			
Assumptions	90.0	72.7	(131.8)	76.4	80.9	73.5	12.4	0.1	5.7	0.0	279.8			
Benefits	0.0	0.0	4.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5			
Contributions	(23.0)	(27.4)	(19.6)	(39.7)	(49.8)	(46.5)	(54.1)	(74.2)	(66.6)	(66.7)	<u>(467.6</u>)			
Total Change	\$ 56.9	\$213.3	\$ (34.4)	\$ 75.4	\$ 182.3	\$101.3	\$(152.2)	\$ (76.4)	\$ 14.0	\$ (49.6)	\$ 330.5			

Dollar amounts in millions



SECTION I – BOARD SUMMARY

Table I-4 breaks down the changes in UAL during the last year by source. In total, the UAL decreased approximately \$50 million. The UAL increased due to higher-than-expected salary increases. This increase was offset by contributions greater than the normal cost and interest on the UAL, positive investment experience, and gains from other demographic experience, including data corrections. The total reduction in the UAL is about 0.8 percent of the Actuarial Liability.

Table I-4

Sources of FYE 2024 Cha	ange	in UAL	
		Amount	% of AL
Unfunded Actuarial Liability, June 30, 2024	\$	1,119,198	18.2%
Unfunded Actuarial Liability, June 30, 2023		1,168,812	<u>19.1</u> %
Change in Unfunded Actuarial Liability	\$	(49,614)	-0.8%
Sources of Changes			
Plan Changes	\$	0	0.0%
Assumption changes		0	0.0%
Normal Cost and Interest on UAL less Contributions		(66,678)	-1.1%
Investment experience		(18,357)	-0.3%
Liability experience			
Salary experience	\$	59,449	1.0%
Termination experience		(5,135)	-0.1%
Disability experience		(3,579)	-0.1%
New Entrants		(2,470)	0.0%
Other experience		(12,844)	- <u>0.2</u> %
Total Liability Experience	\$	35,421	<u>0.6</u> %
Total Changes	\$	(49,614)	-0.8%

Dollar amounts in thousands

Contribution Amounts and Rates

As shown in the upper left corner of the dashboard (page 1), the City contribution rate decreased from 77.5% to 76.3% of payroll. In the dashboard (page 1), the light purple bars are the Member contributions, and the dark purple bars are the City's portion of the normal cost, representing the expected cost of benefits attributable to the next year of service. The green bars represent the City's portion of administrative expenses. The dark gold bars represent the interest on the UAL based on the Market Value of Assets, and contributions up to this level are referred to as the tread-water rate. Contributions equal to the tread-water rate are needed to prevent the UAL from growing as a dollar amount if all assumptions are met. The light gold bars represent the percentage of payroll contributed that directly reduces the principal of the UAL. In FYE 2024,



SECTION I – BOARD SUMMARY

contributions and favorable investment returns decreased the interest on the UAL, increasing the portion of the contribution that directly reduces the UAL principal.

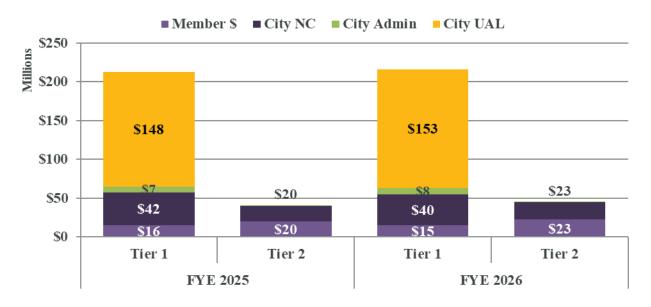
Table I-5 and the chart on the next page summarize the contribution rates and amounts by Tier for the fiscal years ending in 2025 and 2026. Tier 1 City contributions increased as a dollar amount, but decreased as a percentage of pay, while Tier 2 City contributions increased on a dollar basis due to the increase in active membership and payroll but remained relatively level as a percentage of pay.

Table I-5

Contr	Contribution Rates and Amounts (Throughout the Year)												
	F	YE 2025	F	YE 2026		Change							
Member Rates													
Tier 1													
Police		10.63%		10.43%		-0.20%							
Fire		11.82%		12.00%		0.18%							
Tier 2													
Police		13.65%		13.55%		-0.10%							
Fire		14.90%		15.01%		0.11%							
Aggregate		12.61%		12.73%		0.11%							
City Contributions													
Tier 1 UAL	\$	148,110	\$	153,343	\$	5,233							
Tier 1 Admin Expenses	\$	7,026	\$	8,012	\$	986							
	\$	42,130	\$	40,187	\$	(1,943)							
Tier 1 Normal Cost		30.37%		30.41%		0.03%							
	\$	19,809	\$	22,607	\$	2,798							
Tier 2 Contribution		14.01%		13.98%		-0.04%							
A	\$	217,075	\$	224,149	\$	7,074							
Aggregate		77.51%		76.26%		-1.25%							

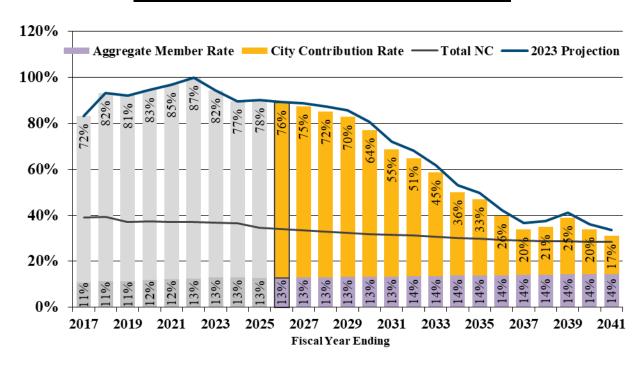


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The chart below shows historical and projected aggregate contribution rates compared to those projected in the prior valuation. The purple bars are weighted-average member contribution rates for Police and Fire for Tier 1 and Tier 2. The gold bars are weighted-average City contribution rates for Police and Fire for Tier 1 and Tier 2. The gray bars represent historical amounts. The projected rates assume that all assumptions are met. The black line shows the weighted average normal cost rate, which is projected to decline as Tier 2 members replace Tier 1 members. All contribution rates above the normal cost rate represent payments toward the UAL, both principal and interest. The blue line represents the projection from the prior valuation.

Historical and Projected Aggregate Contribution Rates





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City contribution rates increased 15% of payroll from FYE 2017 to FYE 2022 but have now decreased more than 10% of payroll, from 87% for FYE 2022 to 76% for FYE 2026. Future City contribution rates are expected to decline gradually for a few years and substantially after that as layers of the UAL are fully amortized.

While there is downward pressure on City contribution rates, there is a wide range of potential future contribution rates due to the volatility of investment returns, as shown at the bottom of the dashboard (page 1). As a result, the expected range of contribution rates from the 5th to the 95th percentile in FYE 2031 is from 18% of payroll to 108% of payroll. Such a wide range is due to the combination of the size of the assets compared to payroll and the standard deviation of the investment portfolio. For these projections, we used a 6.625% expected return and 13.2% standard deviation (based on Meketa's capital market assumptions).

Section VI of this report provides additional detail on the contribution rates and the amortization schedules separately by Tier and for Police and Fire.



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

Actuarial valuations are based on 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 be significantly different. This section of the report is intended to identify the primary risks to the Plan, provide some background information about those risks, and assess those risks.

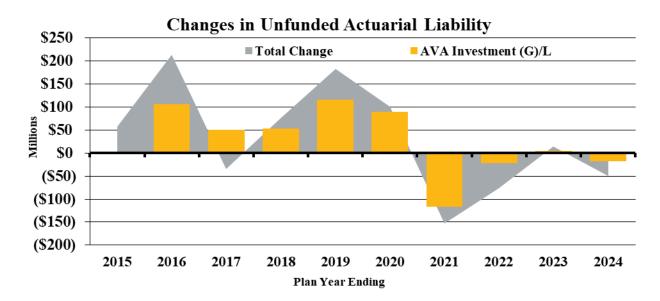
Identification of Risks

As discussed with the Board, the fundamental risk to the Plan is that the contributions needed to pay the benefits become unaffordable. While there are several factors that could lead to contribution amounts becoming unaffordable, we believe the primary risks for this Plan are:

- •Investment risk.
- •Interest rate risk, and
- •Assumption change 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 other gains offset these investment losses. The Plan's asset allocation determines the potential volatility of future investment returns, and the affordability of the investment risk is determined by the amount of assets invested relative to the size of the Plan sponsor.



The chart above shows the impact of investment gains and losses on the smoothed Actuarial Value of Assets over the last 10 years compared to the Plan's total change in UAL. Investment losses have contributed to the UAL's growth.



SECTION II - IDENTIFICATION AND ASSESSMENT OF RISK

Interest rate risk is the potential for interest rates to differ from expected. For public plans, short-term fluctuations in interest rates have little or no effect, as the Plan's liability is usually measured based on the expected return on assets. Longer-term trends in interest rates, however, can have a powerful effect. The chart below shows the yield on a 10-year Treasury security compared to the Plan's assumed rate of return. The difference is a simple measure of the amount of investment risk taken. As interest rates declined, plans faced a choice: maintain the same level of risk and reduce the expected rate of return, maintain the same expected rate of return and take on more investment risk, or some combination of the two strategies. If the recent rise in interest rates persists, it may ease some pressure on plans to reduce discount rates and require less risk to achieve expected returns.

San Jose P&F Expected Risk Premium

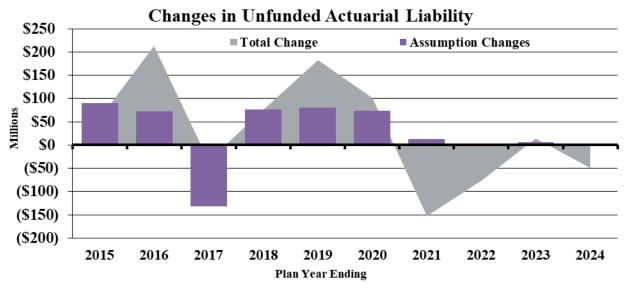
Assumption change risk is the potential for the environment to change such that future valuation assumptions differ from current assumptions. For example, declines in interest rates over the last three decades resulted in higher investment returns for fixed-income investments but lower expected future 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 experienced; it captures the cost of recognizing a change in environment when the current assumption is no longer reasonable.

As shown in the chart below, frequent changes in assumptions have increased the UAL. Most of these changes have been reducing the discount rate from 7.00% to 6.625% over this period, but they also include changes to demographic assumptions such as mortality and retirement rates. The reductions in the discount rate largely reflect the impact of declining interest rates on future



SECTION II - IDENTIFICATION AND ASSESSMENT OF RISK

expected investment returns. The decrease in the UAL for 2017 was primarily due to reductions in assumed future mortality improvements and reductions in assumed salary increases.



Plan Maturity Measures

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

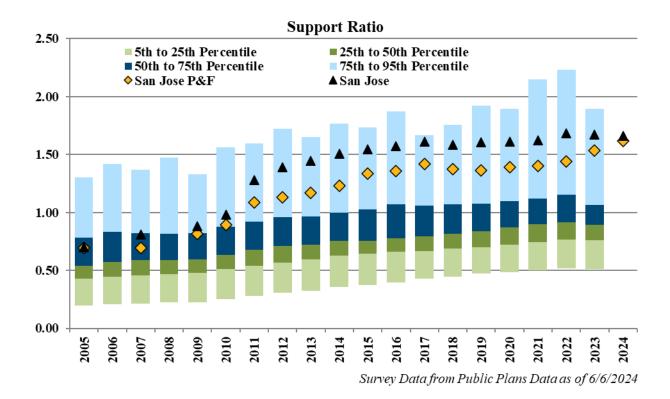
Plan maturity can be measured in a variety of ways, but all of the measures point to one basic dynamic – the larger the plan is compared to the contribution or revenue base that supports it; the more sensitive the plan will be to risk. The measures below have been selected as the most important in understanding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

Support Ratio (Inactives per Active)

One simple measure of plan maturity is the ratio of the number of inactive members (those receiving benefits or entitled to a deferred benefit) to the number of active members. The revenue base supporting the plan is usually proportional to the number of active members, so a relatively high number of inactives compared to actives indicates a larger plan relative to its revenue base as well.



SECTION II - IDENTIFICATION AND ASSESSMENT OF RISK



The chart above shows the distribution from the 5th to 95th percentile of support ratios for the plans in the Public Plans Database. The gold diamond shows how the San José Police and Fire Plan compares, and the black triangle shows how the combined Federated and Police and Fire plans compare. Through 2010, the Plan was in the middle of the distribution even as the support ratio increased. However, after the Great Recession, the Plan's support ratio increased dramatically and is now in the upper quartile of plans in the database.

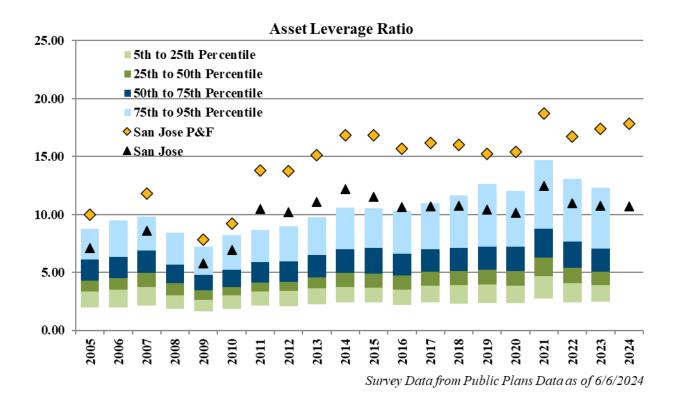
Leverage Ratios

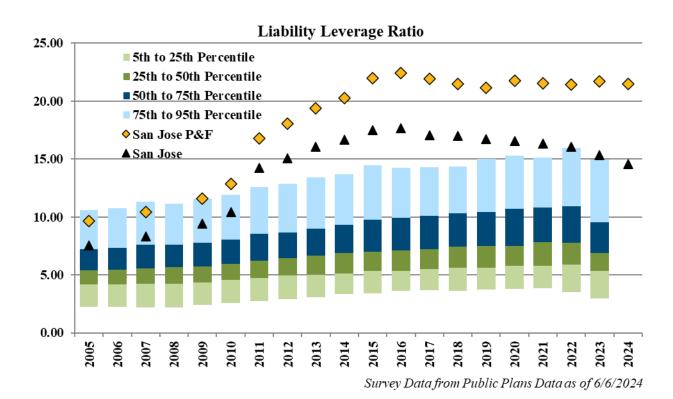
Leverage or volatility ratios measure the size of the plan compared to its revenue base more directly. For example, an asset leverage ratio of 5.0 means that if the Plan experiences a 10% loss on assets compared to the expected return, the loss would be equivalent to 50% of payroll. The same investment loss for a plan with an asset leverage ratio of 10.0 would equal 100% of payroll.

As the Plan becomes better funded, the asset leverage ratio will increase, and if it were 100% funded, the leverage ratio would equal the Actuarial Liability (AL) leverage ratio. The AL leverage ratio also indicates how sensitive the Plan is to experience gains and losses or assumption changes. For example, an assumption change that increases the AL by 5% would add a liability equivalent to about 50% of payroll if the AL leverage ratio is 10.0.



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK







SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

The charts on the previous page show the distribution from the 5th to 95th percentile of the Market Value of Assets and Actuarial Liability leverage ratios for the plans in the Public Plans Database. The gold diamond shows how the San José Police and Fire Plan compares, and the black triangle shows how the combined Federated and Police and Fire plans compare. As discussed with the Board for several years and as is shown in the charts on the previous page, the leverage ratios for the Police and Fire Plan are much higher than most plans. As a Police and Fire plan, it is not unusual to be at the high end of the distribution. However, even when combined with Federated, the leverage ratios are still very high, indicating that San José is much more sensitive to risk than most plans. This sensitivity can work to San Jose's advantage or disadvantage, depending on whether risks ultimately have a positive or negative impact.



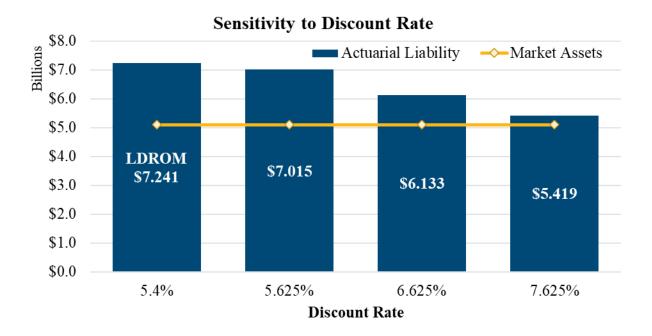
SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

Assessing Costs and Risks

The fundamental risk to the Plan is that the contributions needed to fund the benefits become unaffordable. Assessing this risk, however, is complex because there is no bright line of what is unaffordable, and the contribution amounts themselves are affected not just by the Plan's experience but also by the interaction of that experience and Board decisions related to assumptions, asset smoothing methods, and amortization periods.

Sensitivity to Discount Rate

The chart below compares the Market Value of Assets (gold line) to the Actuarial Liability (blue bar) using discount rates equal to the current expected rate of return and 100 basis points above and below. In addition, the chart shows the low-default-risk obligation measure (LDROM), which is the Actuarial Liability using a discount rate derived from low-default-risk fixed-income securities that approximately match the Plan's benefit payments.



The Plan invests in a diversified portfolio with the objective of maximizing investment returns at a reasonable level of risk. If investments return 6.625% annually, the Plan would need approximately \$6.133 billion in assets today to pay all benefits attributable to past service compared to current assets of \$5.096 billion. If investment returns are only 5.625%, the Plan would need approximately \$7.015 billion in assets today, and if investment returns are 7.625%, the Plan would only need \$5.419 billion in assets. The lowest-risk portfolio for a pension plan with fixed cash flows would be composed entirely of low-default-risk fixed-income securities whose cash flows match the benefit cash flows of the Plan. As of June 30, 2024, using the FTSE Pension Liability Index, we estimate that such a portfolio would have an expected return of 5.4%, and the Plan would need \$7.241 billion to pay all benefits attributed to past service. This



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

amount is the LDROM. The \$1.108 billion difference between the LDROM and the Actuarial Liability at 6.625% represents the expected savings from bearing the risk of investing in the Plan's diversified portfolio. Alternatively, it also represents the cost of eliminating the investment risk.

Because the Plan invests in a diversified portfolio rather than the LDROM portfolio, the reported funded status is higher and expected employer contributions are lower. Benefit security for plan members depends on a combination of the Plan's assets, the investment returns generated on those assets, and San José's ability to make any needed future contributions. An LDROM portfolio would generate more predictable but lower expected investment returns, potentially changing the level of reliance on future San José contributions to secure benefits.

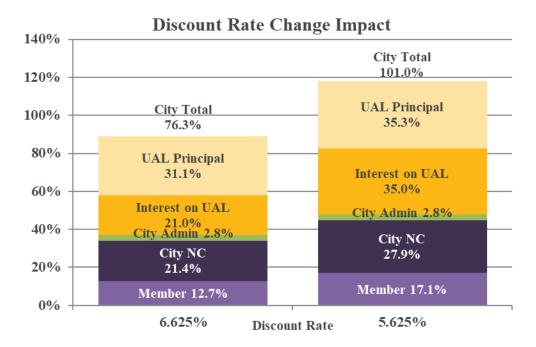
Point-in-Time Assessments

To assess the risks of the Plan independent of the contribution strategy, there are two measures on which to focus: normal cost and interest cost. The normal cost represents the expected cost of the benefits attributable to the next year of service. The interest cost represents the interest on the UAL calculated using the discount rate. Combined, the normal cost plus the interest cost are called the Tread Water Cost. If actual contributions are less than the Tread Water Cost, the UAL would be expected to grow, and if actual contributions are greater than the Tread Water Cost, the UAL would be expected to shrink.

The stacked bars in the chart on the following page show the aggregate member and City contribution rates at the current discount rate compared to a discount rate 100 basis points lower. The light purple bars are the member contribution rates, and the dark purple bars are the City's normal cost rate, representing the expected cost of benefits attributable to the next year of service. The dark gold bars are the interest on the UAL, and the light gold bars are the contributions that reduce the principal of the UAL.



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK



Decreasing the discount rate by 100 basis points would increase member rates by about 4.4% of payroll and the City's normal cost rate by 6.5% of payroll. The interest on the UAL would increase by about 14% of payroll. Using the current amortization methods, the City's total contribution rate would increase by about 25% of payroll to 101% of pay.

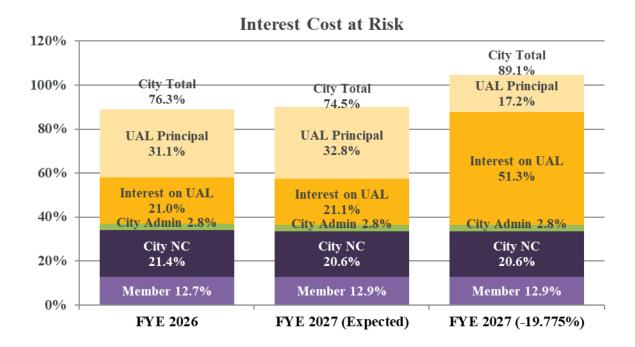
Discount rate declines over the last decade or more have been largely driven by declines in interest rates, which affect expectations of future investment returns. Recent increases in interest rates have eased the pressure to continue reducing the discount rate.

Actual investment returns do not affect the normal cost but directly affect the UAL and the interest on the UAL. One simple measure of the risk inherent in the investment policy is the Interest Cost at Risk (ICaR), which is the amount that the interest on the UAL would increase if the investment returns for one year were two standard deviations below the expected return. Based on Meketa's capital market assumptions, the standard deviation for the current portfolio is 13.2%, making the investment return used to determine ICaR -19.775% (6.625% – 2 x 13.2%).

The chart on the next page shows the contribution rates for FYE 2026, determined in this valuation report in the far-left bar graph, and the expected FYE 2027 contribution rates based on a 6.625% investment rate of return for FYE 2025, in the middle of the chart. The FYE 2027 bar graph on the right shows the impact of a -19.775% return for FYE 2025. The interest on the UAL would increase by 30% of pay. Using a 5-year asset smoothing with a 20% corridor and a 15-year amortization, the total contribution rate would increase by 14.6% of pay. In this scenario, the City's contribution rate for FYE 2026 would be 89.1% of pay and would be expected to increase in future years.



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK



Stochastic Projections

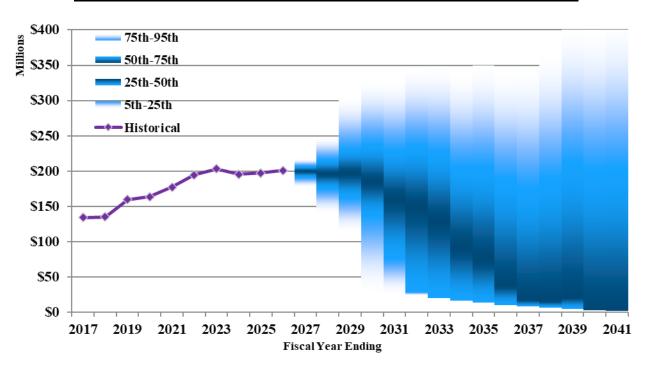
If experience has taught us anything, it is that future projections are highly uncertain. The largest source of uncertainty is the projection of investment returns. To better understand the potential impact of investment returns on the Plan, we have included some stochastic projections in the dashboard and in this section of the report. The stochastic projections are based on a 6.625% geometric return and a 13.2% standard deviation (based on Meketa's capital market assumptions). Each projection contains 10,000 trials.

The chart on the next page shows the historical and stochastically projected City contribution amounts for Tier 1. The purple line represents the amounts paid historically or already determined by an actuarial valuation. The projected amounts are shown as dark blue bars at the median of the 10,000 trials and fade to white as the range extends to the 5th and 95th percentiles of the 10,000 trials. This range is intended to convey the uncertainty in the projections based on future investment returns.



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

Historical and Stochastically Projected Tier 1 City Contribution Amounts



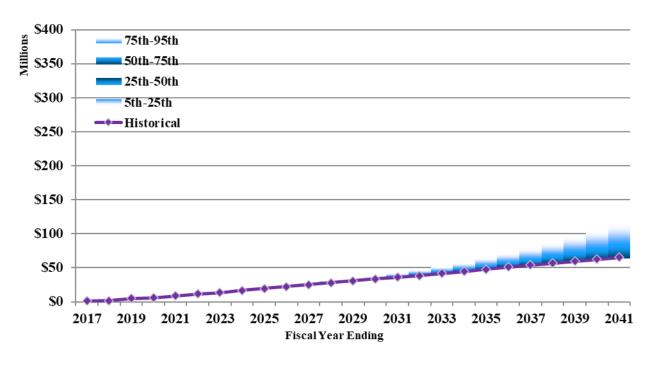
The chart shows a level trend for the next few years followed by a strong downward trend. However, there is a wide range of potential City contribution amounts depending on actual investment returns. The range between the 5th and 95th percentile for FYE 2031 (based on the 2029 actuarial valuation) is from a contribution of \$26 million to a contribution of \$328 million. The standard deviation of the investment portfolio largely drives this range.

The chart on the following page shows the historical and stochastically projected City contribution amounts for Tier 2. The range of contribution amounts is much narrower for Tier 2 than Tier 1. Tier 2 is projected to grow quickly, and assets are relatively small right now. As a result, actual investment returns have a limited impact on future contribution amounts while the rate of growth will have a larger impact.



SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

Historical and Stochastically Projected Tier 2 City Contribution Amounts



More Detailed Assessment

A more detailed assessment is always valuable to enhance the understanding of the risks identified above. While more detail would provide some additional value, we don't believe performing an in-depth analysis every year is necessary. Consequently, we recommend that the Board review the less detailed analysis provided above annually and consider a more detailed analysis periodically and when there is a substantial change in the financial position or maturity of the plan.



SECTION III – CERTIFICATION

The purpose of this report is to present the June 30, 2024 Actuarial Valuation of the City of San José Police and Fire Department Retirement Plan ("Plan"). This report is for the use of the Plan and the City of San José.

In preparing our report, we relied on information, some oral and some written, supplied by the Plan. This information includes, but is not limited to, the 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.

The economic and demographic assumptions used in this report were adopted by the Board of Administration with our input at the November 2, 2023, Board meeting based on recommendations from our experience study covering plan experience for the period ending June 30, 2023. We believe these assumptions are reasonable for the purpose of the valuation.

The funding ratios in this report are for the purpose of establishing contribution rates. These measures are not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.

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 projections in this valuation report were developed using P-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 System. P-scan uses standard roll-forward techniques that implicitly assume a stable active population. Because P-scan does not automatically capture how changes in one variable affect all other variables, some scenarios may not be consistent.

Stochastic projections in this valuation report were developed using R-scan, our proprietary tool for assessing the probability of different outcomes based on a range of potential investment returns. We relied on Cheiron colleagues for the development of the model. The stochastic projections of investment returns assume that each future year's investment return is independent from all other years and is identically distributed according to a lognormal distribution. The standard deviation used in the stochastic projection of investment returns was provided by the System's investment consultant.

Future actuarial measurements may differ significantly from the current measurements due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and, changes in plan provisions or applicable law.



SECTION III – CERTIFICATION

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.

This report was prepared for the Plan for the purposes described herein. This report is not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

William R. Hallmark, ASA, EA, MAAA, FCA

William R. Hallank

Consulting Actuary

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



SECTION IV – ASSETS

The Plan uses and discloses two different asset measurements: the Market Value and Actuarial Value of Assets. The Market Value of Assets represents the value of the assets if they were liquidated on the valuation date. The Actuarial Value of Assets is a value that smooths annual investment returns over five years to reduce the impact of short-term investment volatility on contribution rates. The Market Value is used primarily for reporting and disclosure, and the Actuarial Value is used primarily to determine contribution rates.

This section shows the changes in the Market Value of Assets and develops the Actuarial Value of Assets.

Statement of Changes in the Market Value of Assets

Table IV-1 shows the changes in the Market Value of Assets by tier for the current fiscal year and in total for the prior fiscal year.

Table IV-1

	(Change in	M	arket Va	lue	e of Asset	S		
	I	FYE 2023							
		Total		Tier 1	1	Tier 2 Fire	1	Tier 2 Police	Total
Beginning Market Value	\$	4,409,869	\$	4,576,885	\$	37,471	\$	107,132 \$	4,721,488
Contributions Member City	_	32,661 201,750		16,918 185,179		4,806 4,806		12,715 12,715	34,439 202,700
Total Net Investment Earnings	\$	234,411 359,863	\$	202,097 422,568	\$	9,612 3,938	\$	25,429 \$ 11,130	237,139 437,637
Benefit Payments Administrative Expenses		(275,823) (6,832)		(290,920) (7,610)		(77) (63)		(957) (176)	(291,954) (7,850)
Ending Market Value	\$	4,721,488	\$	4,903,021	\$	50,880	\$	142,558 \$	5,096,460
Estimated Rate of Return		8.0%		9.1%		9.3%		9.3%	9.2%

Dollar amounts in thousands

The net investment earnings for the year ended June 30, 2024, represents approximately a 9.2% return on the Market Value of Assets compared to an assumed return of 6.625%. For the year ended June 30, 2023, the net investment return was approximately 8.0% (6.625% was assumed).



SECTION IV – ASSETS

Actuarial Value of Assets

Most pension funds use an Actuarial Value of Assets to determine ongoing contribution amounts, smoothing year-to-year market value returns to reduce the volatility of contribution rates.

The Actuarial Value of Assets is calculated by recognizing the deviation of actual investment returns compared to the expected return (6.625% for FYE 2021, 2022, 2023, and 2024, and 6.75% for FYE 2020) over a five-year period. The dollar amount of the expected return on the Market Value of Assets is determined using the actual contributions, benefit payments, and administrative expenses during the year. Any difference between the expected return and the actual net investment earnings is considered a gain or loss. Table IV-2 on the next page shows the calculation of the Actuarial Value of Assets separately for each tier.

For the 2023 valuation, the Board elected to reset the asset smoothing method by combining the remaining deferred gains and losses in the 2022 valuation from all prior years with the investment gain from 2023 and to recognize the sum over the next five years.

Table IV-2 on the following page shows the development of the Actuarial Value of Assets. For FYE 2024, it shows the actual earnings, the expected earnings, and the investment gain for the year. Only 20 percent of this gain is recognized in the Actuarial Value this year, and 80 percent, or \$96.5 million, is deferred and will be recognized in future years. The table also shows the remaining deferred gains and losses that were combined in the 2023 valuation and the portion, 60 percent, that are deferred and will be recognized in future years.



SECTION IV – ASSETS

Table IV-2

Develo	pm	nent of Ac	tua	rial Value	of	Assets		
				June 3	0, 2	2024		
		Tier 1		Tier 2 Fire	Τ	ier 2 Police		Total
Market Assets (MVA)	\$	4,903,021	\$	50,880	\$	142,558	\$	5,096,460
				FYE	202	24		
Actual Earnings	\$	422,568	\$	3,938	\$	11,130	\$	437,637
Expected Earnings		306,308		2,791		7,889		316,989
Investment Gain/(Loss)	\$	116,260	\$	1,147	\$	3,241	\$	120,648
Deferred (80%)	\$	93,008	\$	918	\$	2,592	\$	96,519
		An	nou	nts Combine	d ir	n 2023 Valuati	ion	
Investment Gain/(Loss)		(21,613)		(302)		(902)		(22,817)
Deferred (60%)		(12,968)		(181)		(541)	(13,690)	
Total Deferred Gain/(Loss)	\$	80,040	\$	737	\$	2,051	\$	82,828
Preliminary Actuarial Value of Assets	\$	4,822,981	\$	50,143	\$	140,507	\$	5,013,631
Minimum (80% of MVA)		3,922,417		40,704		114,047		4,077,168
Maximum (120% of MVA)		5,883,625		61,056		171,070		6,115,751
Actuarial Value of Assets	\$	4,822,981	\$	50,143	\$	140,507	\$	5,013,631
Ratio of Actuarial to Market		98.4%		98.6%		98.6%		98.4%
Estimated Rate of Return		7.0%		7.0%		7.0%		7.0%

Dollar amounts in thousands

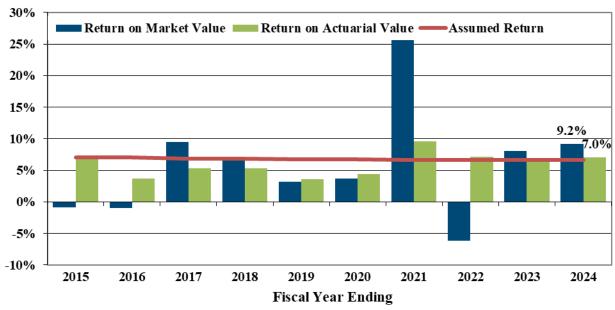
Based on the smoothed Actuarial Value of Assets, the return for the year ending June 30, 2024, was approximately 7.0%, compared to the assumed return of 6.625%. The estimated rate of return varies by tier, reflecting the different cash flows for each tier and the different levels of assets for each tier in each of the last four years.



SECTION IV – ASSETS

The chart below shows the historical rates of return on both the Market and Actuarial Values of Assets compared to the assumed rates of return (the red line). Because of the 5-year smoothing, the return on the actuarial value is less volatile than the return on the market value. The return on the market value exceeded the assumed return in 5 of the 10 years, and the return on the Actuarial Value of Assets exceeded the assumed return in 4 of the 10 years.







SECTION V – MEASURES OF LIABILITY

This section presents detailed information on liability measures for the Plan for funding purposes, including:

- Present Value of Future Benefits,
- Normal cost
- Actuarial Liability, and
- Analysis of changes in Unfunded Actuarial Liability during the year.

Present Value of Future Benefits

The present value of future benefits represents the amount of money today that is expected to be needed to pay all benefits both earned as of the valuation date and expected to be earned in the future by current plan members under the current plan provisions if all assumptions are met. Table V-1 below shows the present value of future benefits as of June 30, 2023, and June 30, 2024, separately by Tier for Police and Fire. Police Tier 2 members entered the Plan beginning August 4, 2013. Fire Tier 2 members entered the Plan beginning January 2, 2015.

Table V-1

		Pre	se	ent Value	of Future	e]	Benefits					
				Fire		Police						
		6/30/2023		6/30/2024	% Change		6/30/2023		6/30/2024	% Change		
Tier 1												
Actives	\$	842,753	\$	858,484	1.9%	\$	965,078	\$	909,495	-5.8%		
Deferred Vested		12,572		17,850	42.0%		84,092		86,285	2.6%		
In Pay Status												
Service Retirees	\$	770,747	\$	787,050	2.1%	\$	1,982,176	\$	2,049,924	3.4%		
Beneficiaries		112,047		111,982	-0.1%		129,969		139,194	7.1%		
Disabled Retirees		611,509		656,560	<u>7.4</u> %		644,270		686,008	<u>6.5</u> %		
Total	\$	1,494,303	\$	1,555,592	4.1%	\$	2,756,415	\$	2,875,126	4.3%		
Tier 1 Total	\$	2,349,628	\$	2,431,926	3.5%	\$	3,805,585	\$	3,870,906	1.7%		
Tier 2												
Actives	\$	178,129	\$	226,600	27.2%	\$	424,456	\$	469,938	10.7%		
Deferred Vested		373		389	4.3%		3,288		5,256	59.9%		
In Pay Status	_	0		1,222		_	0	_	2,173			
Tier 2 Total	\$	178,502	\$	228,211	27.8%	\$	427,744	\$	477,367	11.6%		
Plan Total	\$	2,528,130	\$	2,660,137	5.2%	\$	4,233,329	\$	4,348,273	2.7%		



SECTION V – MEASURES OF LIABILITY

Normal Cost

Under the Entry Age Actuarial Cost Method, the present value of future benefits at plan entry for each individual is spread over the individual's expected working career under the Plan as a level percentage of the individual's expected pay. The normal cost of the Plan is the sum of the normal costs for each individual in the Plan. The normal cost represents the amount of money today that is expected to be needed to pay the benefits attributed to the next year of service if all assumptions are met. Table V-2 below shows the Entry Age Normal Cost and total normal cost rates as of June 30, 2023, and June 30, 2024, separately by Tier for Police and Fire, as well as a breakdown of the normal cost rate between the Retirement and COLA funds.

Table V-2

		Entr	y .	Age Nor	mal Cost	Ву	Group			
				Fire						
	6/	30/2023	6	5/30/2024	% Change	6	6/30/2023		/30/2024	% Change
Tier 1										
Retirement	\$	21,784	\$	21,719	-0.3%	\$	19,888	\$	18,500	-7.0%
Termination		1,175		1,156	-1.6%		3,827		3,638	-4.9%
Death		281		277	-1.4%		277		265	-4.3%
Disability		5,341		5,280	-1.1%		4,938		4,710	-4.6%
Reciprocity		<u>156</u>		<u>153</u>	<u>-1.4%</u>		<u>705</u>		<u>678</u>	-3.9%
Tier 1 Total	\$	28,736	\$	28,586	-0.5%	\$	29,635	\$	27,791	-6.2%
Expected Payroll	\$	66,003	\$	64,648	-2.1%	\$	74,482	\$	71,128	-4.5%
Normal Cost Rate		43.54%		44.22%	0.68%		39.79%		39.07%	-0.72%
Retirement		29.61%		30.08%	0.47%		27.19%		26.69%	-0.50%
COLA		13.93%		14.14%	0.21%		12.60%		12.38%	-0.22%
Tier 2										
Retirement	\$	6,193	\$	7,717	24.6%	\$	14,372	\$	15,981	11.2%
Termination		305		375	23.1%		3,357		3,751	11.7%
Death		121		148	23.0%		288		321	11.5%
Disability		2,071		2,554	23.3%		4,679		5,216	<u>11.5</u> %
Tier 2 Total	\$	8,690	\$	10,794	24.2%	\$	22,695	\$	25,268	11.3%
Expected Payroll	\$	29,174	\$	35,967	23.3%	\$	83,120	\$	93,288	12.2%
Normal Cost Rate		29.79%		30.01%	0.22%		27.30%		27.09%	-0.21%
Retirement		23.52%		23.61%	0.09%		21.52%		21.27%	-0.25%
COLA		6.27%		6.40%	0.13%		5.78%		5.82%	0.04%



SECTION V – MEASURES OF LIABILITY

Actuarial Liability

The Actuarial Liability represents the amount of money today that would be needed to pay for benefits attributed to service before the valuation date under the Entry Age method if all assumptions are met. It is the difference between the present value of future benefits and the present value of future normal costs. Table V-3 shows the Actuarial Liability as of June 30, 2023, and 2024, separately by Tier for Police and Fire, as well as a breakdown between Retirement and COLA.

Table V-3

	Actuarial Liability										
				Fire						Police	
		6/30/2023	3 6/30/2024 % Cha			ge –	6/30/2023			6/30/2024	% Change
Tier 1											
Actives											
Retirement	\$	602,884	\$	624,082	3.5%	5	\$	733,533	\$	705,578	-3.8%
Termination		5,026		4,921	-2.1%			6,350		5,371	-15.4%
Death		1,500		1,479	-1.4%			1,588		1,465	-7.7%
Disability		<u>37,778</u>		<u>38,183</u>	1.1%			<u>40,934</u>		<u>38,400</u>	<u>-6.2%</u>
Total Actives	\$	647,188	\$	668,665	3.3%	9	\$	782,405	\$	750,814	-4.0%
Deferred Vested		12,572		17,850	42.0%			84,092		86,285	2.6%
In Pay Status		1,494,303		1,555,592	4.1%			2,756,415		2,875,126	4.3%
Tier 1 Total	\$	2,154,063	\$:	2,242,107	4.1%	9	\$ 3	3,622,912	\$	3,712,225	2.5%
Retirement		1,218,358		1,265,589	3.9%			2,003,331		2,038,211	1.7%
COLA		935,705		976,518	4.4%			1,619,581		1,674,014	3.4%
Tier 2											
Actives											
Retirement	\$	28,009	\$	40,273	43.8%		\$	72,214	\$	96,752	34.0%
Termination		110		143	30.0%			7,375		9,277	25.8%
Death		247		322	30.4%			632		775	22.6%
Disability		<u>5,497</u>		<u>7,500</u>	36.4%			13,834		<u>17,811</u>	<u>28.7%</u>
Total Actives	\$	33,863	\$	48,238	42.5%		\$	94,055	\$	124,615	32.5%
Deferred Vested	\$	373	\$	389	4.3%	9	\$	3,288	\$	5,256	59.9%
In Pay Status	\$	0	\$	1,222		9	\$	0	\$	2,173	
Tier 2 Total	\$	34,236	\$	48,627	42.0%	9	\$	97,343	\$	129,871	33.4%
Retirement		26,959		38,143	41.5%			75,547		100,623	33.2%
COLA		7,277		10,484	44.1%			21,796		29,248	34.2%
Plan Total	\$	2,188,299	\$ 2	2,290,734	4.7%	\$	\$ 3	3,720,255		3,842,096	3.3%



SECTION V – MEASURES OF LIABILITY

Table V-4 below shows the development of the expected Unfunded Actuarial Liability as of June 30, 2024, and the sources of experience gains and losses for each tier.

Table V-4

Development of Experience (Gain or (Lo	oss)	
	Tier 1	Tier 2	Total
Unfunded actuarial liability, 6/30/2023	\$ 1,182,798	\$ (13,986)	\$ 1,168,812
Interest	78,360	(927)	77,433
Expected unfunded actuarial liability payment with interest	(145,861)	1,334	(144,527)
Change in assumptions/methods	0	0	0
Expected unfunded actuarial liability, 6/30/2024	\$ 1,115,297	\$ (13,579)	\$1,101,718
Actual unfunded actuarial liability	1,131,351	(12,153)	1,119,198
Experience Gain or (Loss)	\$ (16,054)	\$ (1,426)	\$ (17,480)
Portion due to investment experience	17,784	573	\$ 18,357
Portion due to salary experience	(52,518)	(6,931)	(59,449)
Portion due to retirement experience	730	(1)	729
Portion due to termination experience	4,314	821	5,135
Portion due to mortality experience	1,221	484	1,705
Portion due to disability experience	2,654	925	3,579
Portion due to other asset and liability experience	9,761	2,703	12,464
Total	\$ (16,054)	\$ (1,426)	\$ (17,480)

Dollar amounts in thousands

Other liability gains this year include approximately \$2.4 million due to fewer new entrants than anticipated and \$6.7 million in data corrections – primarily the removal of beneficiaries for retirees receiving the automatic form of payment either because the beneficiary was not eligible or had died in a prior year. Other asset experience includes contributions and administrative expenses that differ from expected.



SECTION V – MEASURES OF LIABILITY

Table V-5 below shows a five-year history of sources of liability gain and loss. Salary increases have been the primary source of losses and disability rates have been the primary source of gains.

Table V-5

Historical Sources of Liability Gain or (Loss)											
Year Ending June 30th											
Source	2020	2021	2022	2023	2024	Total					
Salary increases	14,405	(9,202)	(24,411)	(71,972)	(59,449)	(150,629)					
Retirement	1,099	(2,685)	(4,524)	(1,986)	729	(7,367)					
Termination	(4,229)	(6,401)	(2,269)	(4,826)	5,135	(12,590)					
Mortality	(2,648)	5,753	2,043	3,934	1,705	10,787					
Disability	7,377	3,353	7,701	6,235	3,579	28,245					
Other	(653)	2,456	1,196	(1,005)	12,880	14,874					
Total	15,351	(6,726)	(20,264)	(69,620)	(35,421)	(116,680)					



SECTION VI – CONTRIBUTIONS

Under the contribution allocation procedure employed by the Plan, the total contribution has three components: the normal cost, assumed administrative expenses, and the Unfunded Actuarial Liability contribution. The normal cost rate was developed in Section V. This section develops the UAL and administrative expense contribution rates and divides the contributions between the members and the City.

Table VI-1 below shows the outstanding balance, remaining period, and amortization payments for each component of the Tier 1 member UAL as of June 30, 2024.

Table VI-1

Tier 1 Member UAL Amortization Bases and Payments											
				Remaining	Amortization Payment						
Source	Date	Balance		Period	Fire			Police	Total		
Reclassified Classics	6/30/2016	\$	38	10.0	\$	2	2 5	\$ 3 \$	5		
Reclassified Fed Svc	6/30/2016		13	N/A		()	3	3		
Reclassified Rehires	6/30/2016		136	N/A		()	18	18		
Total Members		\$	187		\$	2	2	\$ 24 \$	26		
Retirement			94			1		12	13		
COLA			93			1	l	12	13		

Dollar amounts in thousands

The components attributable to reclassifying members from Tier 2 to Tier 1 due to rehire or prior Federated service are paid by the individually affected members at fixed special contribution rates of 1.96% and 0.87%, respectively. These special contribution rates cease for an individual member when their portion of the UAL has been paid off, so the "remaining period" varies by individual and has not been calculated in aggregate. The payments for reclassified classic members are paid by all classic members.

Table VI-2 below shows the calculation of the classic member special contribution rate for FYE 2025 and FYE 2026.

Table VI-2

Classic Member Contribution Rate												
	Fiscal Year Ending 2025						Fiscal Year Ending 2026					
	Retirement		COLA			Total	Retirement		COLA		Total	
Classic UAL Payment	\$	2.5	\$	2.8	\$	5.3	\$	2.4	\$	2.6	\$	5.0
Expected Classic Payrol	11				\$	3,972					\$	4,251
Classic Member Rate		0.06%		0.07%		0.13%		0.06%		0.06%		0.12%



SECTION VI – CONTRIBUTIONS

Table VI-3 on the following page shows the outstanding balance, remaining period, and amortization payments for each component of the Tier 1 City UAL as of June 30, 2024. Each component is amortized over the remaining period shown in the table, with payments assumed to increase by 2.50% each year. The UAL payments are allocated between Police and Fire in proportion to the Tier 1 UAL for each calculated using the Office of Retirement Services' division of assets. At the bottom of the table, the total is divided into the portion attributable to the basic retirement benefits and the portion attributable to COLA benefits. These amounts are used to set separate contribution rates for the basic retirement benefits and the COLA benefits portions of the Plan.



SECTION VI – CONTRIBUTIONS

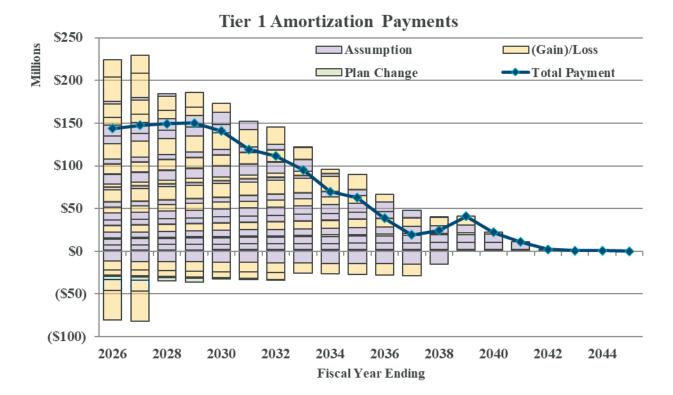
Table VI-3

Tie	r 1 City U	AL Amort	ization Bas	es and Payı	ments	
			Remaining	Amoi	rtization Paym	ent
Source	Date	Balance	Period	Fire	Police	Total
Experience	6/30/2007	(23,599)	2.0	(843)	(11,986)	(12,830)
Assumptions	6/30/2007	7,196	3.0	175	2,484	2,659
Experience	6/30/2009	53,991	2.0	1,929	27,423	29,352
Assumptions	6/30/2009	56,278	5.0	852	12,114	12,967
Experience	6/30/2010	38,835	2.0	1,388	19,725	21,112
Assumptions	6/30/2010	48,411	6.0	623	8,851	9,473
Experience	6/30/2011	(65,699)	2.0	(2,347)	(33,370)	(35,717)
Assumptions	6/30/2011	35,667	7.0	401	5,696	6,097
Experience	6/30/2012	58,205	4.0	1,081	15,364	16,445
SRBR Elimination	6/30/2012	(14,195)	4.0	(264)	(3,747)	(4,011)
Assumptions	6/30/2012	74,838	8.0	750	10,655	11,405
Experience	6/30/2013	42,167	5.0	638	9,077	9,715
Assumptions	6/30/2013	20,957	9.0	190	2,702	2,892
Experience	6/30/2014	(40,246)	7.0	(452)	(6,427)	(6,879)
Assumptions	6/30/2014	43,732	10.0	364	5,170	5,533
Experience	6/30/2015	(6,666)	7.0	(75)	(1,065)	(1,139)
Assumptions	6/30/2015	73,914	11.0	569	8,090	8,660
Experience	6/30/2016	107,699	7.0	1,210	17,199	18,409
Assumptions	6/30/2016	61,919	12.0	445	6,327	6,772
Measure F (Rehires)	6/30/2016	2,213	8.0	46	292	337
Experience	6/30/2017	78,089	8.0	782	11,118	11,900
Assumptions	6/30/2017	(115,558)	13.0	(781)	(11,099)	(11,880)
Measure F (Classic/Fed)	6/30/2018	74	9.0	1	9	10
Experience	6/30/2018	32,454	9.0	294	4,185	4,479
Assumptions	6/30/2018	68,582	14.0	438	6,228	6,666
Experience	6/30/2019	118,380	10.0	984	13,994	14,978
Assumptions	6/30/2019	74,882	15.0	454	6,461	6,915
Experience	6/30/2020	63,312	11.0	487	6,930	7,417
Assumptions	6/30/2020	69,169	16.0	401	5,695	6,095
Experience	6/30/2021	(95,278)	12.0	(685)	(9,736)	(10,421)
Assumptions	6/30/2021	11,808	17.0	66	931	997
Experience	6/30/2022	1,556	13.0	11	149	160
Assumptions	6/30/2022	57	18.0	0	4	5
Experience	6/30/2023	80,146	14.0	512	7,278	7,790
Assumptions	6/30/2023	8,387	19.0	43	613	656
Experience	6/30/2024	16,054	15.0	97	1,385	1,483
2024 UAL Payment	5, 2 5, 2 02 f	143,434	20.0			1,103
Total City		\$ 1,131,165		\$ 9,783 \$	138,719 \$	148,503
Retirement		602,241		5,382	76,342	81,724
COLA		528,924		4,401	62,377	66,779



SECTION VI – CONTRIBUTIONS

The chart below shows the future payment schedule for the Tier 1 amortization bases. Assumption changes are shown in purple, experience gain or loss bases in gold, and plan changes in green. The blue line shows the net scheduled payment for each year.





SECTION VI – CONTRIBUTIONS

Table VI-4 below shows the outstanding balance, remaining period, and amortization payments for each component of the Tier 2 UAL as of June 30, 2024. Each component is amortized from the valuation date in which it was first recognized with payments assumed to increase 2.50% each year. All components of the Tier 2 UAL are split evenly between the members and the City.

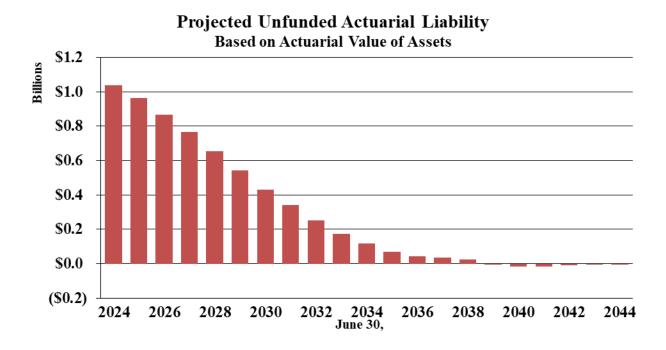
Table VI-4

	Tie	r 2	UAL A	mc	ortization	Bases			
			Outstandi	ng	Balance	Remaining	A	Amortization	Payment
Source	Date		Fire		Police	Period		Fire	Police
Members and City									
Experience	6/30/2014	\$	0	\$	(18)	7.0	\$	0 \$	(3)
Assumptions	6/30/2014		0		(4)	10.0		0	(0)
Experience	6/30/2015		30		13	7.0		5	2
Assumptions	6/30/2015		6		(15)	11.0		1	(2)
Experience	6/30/2016		(41)		(94)	7.0		(7)	(16)
Assumptions	6/30/2016		16		75	12.0		2	8
Measure F (Rehires)	6/30/2016		157		508	8.0		24	77
Experience	6/30/2017		328		595	8.0		50	91
Assumptions	6/30/2017		(128)		(433)	13.0		(13)	(44)
Experience	6/30/2018		(391)		(818)	9.0		(54)	(113)
Assumptions	6/30/2018		129		380	14.0		13	37
Experience	6/30/2019		(65)		13	10.0		(8)	2
Assumptions	6/30/2019		(193)		(10)	15.0		(18)	(1)
Experience	6/30/2020		(139)		(2,005)	11.0		(16)	(235)
Assumptions	6/30/2020		(154)		382	16.0		(14)	34
Experience	6/30/2021		(993)		(4,136)	12.0		(109)	(452)
Assumptions	6/30/2021		16		105	17.0		1	9
Experience	6/30/2022		(356)		(2,943)	13.0		(37)	(303)
Assumptions	6/30/2022		0		0	18.0		0	0
Experience	6/30/2023		(212)		(423)	14.0		(21)	(41)
Assumptions	6/30/2023		(1,411)		(1,350)	19.0		(110)	(106)
Experience	6/30/2024		1,886		(461)	15.0		174	(43)
Total Tier 2		\$	(1,517)	\$	(10,637)		\$	(137) \$	(1,099)
Retirement			(1,456)		(10,422)			(144)	(1,111)
COLA			(61)		(215)			7	12



SECTION VI – CONTRIBUTIONS

The chart below shows the projected aggregate balance of the UAL based on the Actuarial Value of Assets for the Plan under the amortization schedules shown above, assuming all expected payments are made and all assumptions are met. This projection includes new amortization bases for the unrecognized investment gains and losses that will be recognized over the next four years.





SECTION VI – CONTRIBUTIONS

In addition to the UAL payments shown in Table VI-1 (page 35), Tier 1 members pay 3/11ths of the normal cost (excluding reciprocity normal cost). Tier 2 members pay half of the normal cost, half of the administrative expenses, and half of the UAL payments shown in Table VI-4 on page 39.

Assumed administrative expenses equal the prior year's actual administrative expenses increased by the wage inflation assumption to the year of the contribution. Administrative expenses are allocated to tier groups in proportion to each group's Market Value of Assets. Table VI-5 below shows the development of the administrative expense rates for FYE 2026.

Table VI-5

	Adn	inistra	tive	Expen	se E	By Grou	p				
		Fir	e			Poli	ce				
	7	Tier 1	Tier 2		Tier 1		Tier 2			Total	
Market Assets	\$ 2,	203,730	\$:	50,880	\$2	,699,291	\$14	-2,558	\$ 5,096,460		
Retirement	1,	249,751	4	40,182	1.	,497,766	11	2,672	2,900,371		
COLA	!	953,979		10,698		1,201,525		29,887		196,088	
Total Admin Expense	\$	3,601	\$	85	\$	4,411	\$	229	\$	8,326	
Member Expense Rate		0.00%	0	.09%		0.00%	0.	10%		0.05%	
Retirement		0.00%	C	0.07%	0.00%		0.08%			0.04%	
COLA		0.00%	C	0.02%	0.00%		0.02%			0.01%	
City Expense Rate	5.58%		0	.09%		6.52%	0.10%			2.78%	
Retirement	3.17%		0.07%		3.62%		0.08%		1.57%		
COLA		2.41%	0.02%		2.90%		0.02%			1.21%	



SECTION VI – CONTRIBUTIONS

Table VI-6 below shows the member contribution rates for FYE 2026 by Tier split between Police and Fire groups. All Tier 1 members contribute the normal cost rate. Certain Tier 1 members also pay a portion of the cost under Measure F either individually or as a part of a designated group as described above. The Measure F UAL rates shown in the table are averaged over the entire Tier 1 payroll. Individuals may pay at a substantially higher rate.

Table VI-6

Fiscal Year Ending 2026 Member Contribution Rates											
		Fire			Police						
	Retirement	COLA	Total	Retirement	COLA	Total					
Tier 1											
Normal Cost	8.16%	3.84%	12.00%	7.08%	3.31%	10.39%					
Measure F UAL	0.00%	0.00%	0.00%	0.02%	0.02%	0.04%					
Total	8.16%	3.84%	12.00%	7.10%	3.33%	10.43%					
Tier 2											
Normal Cost	11.81%	3.20%	15.01%	10.64%	2.91%	13.55%					
Admin Expense	0.07%	0.02%	0.09%	0.08%	0.02%	0.10%					
UAL	<u>-0.07%</u>	<u>-0.02%</u>	<u>-0.09%</u>	-0.08%	<u>-0.02%</u>	<u>-0.10%</u>					
Total	11.81%	3.20%	15.01%	10.64%	2.91%	13.55%					



SECTION VI – CONTRIBUTIONS

Table VI-7 below shows the estimated dollar amounts of the City's contributions assuming contributions are made throughout the fiscal year.

Table VI-7

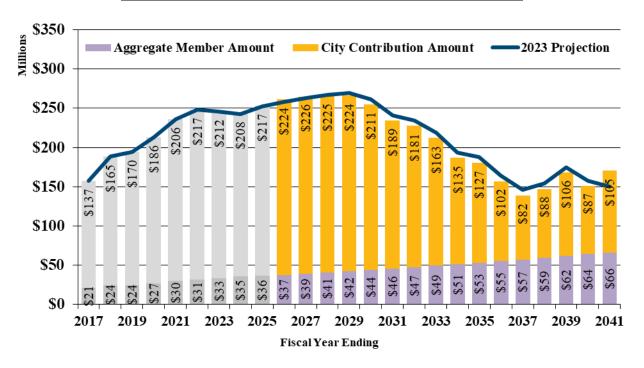
Fisca	Fiscal Year Ending 2026 Estimated City Contributions Contribution Amounts Throughout the Year												
				Fire					Police				
	Re	tirement		COLA		Total	Re	tirement		COLA		Total	
Tier 1 UAL Payment	\$	5,558	\$	4,545	\$	10,102	\$	78,830	\$	64,411	\$	143,241	
Tier 1 Admin Expenses	\$	2,042	\$	1,559	\$	3,601	\$	2,447	\$	1,963	\$	4,411	
Tier i Adrimi Expenses		3.17%		2.41%		5.58%		3.62%		2.90%		6.52%	
Tier 1 Normal Cost	\$	14,138	\$	6,641	\$	20,779	\$	13,271	\$	6,137	\$	19,408	
Tier i Normai Cost		21.93%		10.30%		32.23%		19.61%		9.06%		28.67%	
Tier 2 Contribution	\$	5,590	\$	1,515	\$	7,104	\$	12,173	\$	3,329	\$	15,503	
Tier 2 Contribution		11.81%		3.20%		15.01%		10.64%		2.91%		13.55%	
Total Contribution	\$	27,327 24.44%	\$	14,260 12.75%	\$	41,587 37.19%	\$ 1	106,722 58.61%	\$	75,840 41.65%	\$	182,562 100.26%	



SECTION VI – CONTRIBUTIONS

The chart below shows historical and projected aggregate contribution amounts for the Plan compared to those projected in the prior valuation. The purple bars are member contribution amounts for Police and Fire for both Tier 1 and Tier 2. The gold bars are city contribution amounts for Police and Fire for both Tier 1 and Tier 2. The gray bars represent historical amounts. The projected amounts assume that all assumptions are met. The blue line represents the projection from the prior valuation.

Historical and Projected Aggregate Contribution Amounts





SECTION VII – ACTUARIAL SECTION OF THE ACFR

The Government Finance Officers Association (GFOA) maintains a checklist of items to be included in the System's Annual Comprehensive Financial Report (ACFR) to receive recognition for excellence in financial reporting. The GFOA lists the schedules in this section for inclusion in the Actuarial Section of the System's ACFR.

Table VII-1

		Schedule	of Funding	Progress	S	
Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Liability (AL)	Unfunded Actuarial Liability	Funded Ratio	Covered Payroll	Unfunded AL as a % of Covered Payroll
6/30/2024	\$ 5,013,631	\$ 6,132,829	\$ 1,119,198	81.8%	\$ 285,349	392%
6/30/2023	4,739,742	5,908,554	1,168,812	80.2%	271,893	430%
6/30/2022	4,495,687	5,650,481	1,154,794	79.6%	263,395	438%
6/30/2021	4,210,447	5,441,660	1,231,213	77.4%	252,558	487%
6/30/2020	3,851,948	5,235,335	1,383,387	73.6%	240,798	575%
6/30/2019	3,706,302	4,988,427	1,282,125	74.3%	235,818	544%
6/30/2018	3,596,590	4,696,428	1,099,838	76.6%	218,429	504%
6/30/2017	3,439,922	4,464,402	1,024,480	77.1%	203,816	503%
6/30/2016	3,303,550	4,355,990	1,052,440	75.8%	194,072	542%
6/30/2015	3,212,776	4,058,410	845,634	79.2%	184,733	458%



SECTION VII – ACTUARIAL SECTION OF THE ACFR

Table VII-2

		So	chedule of F	unded Lia	bilities by T	'ype		
		Actu	arial Liability	For				
			Retirees,	Remaining				
		Active	Beneficiaries	Active		Porti	ion of Actu	arial
Actuarial	N	Iember	and Other	Members'		Liabi	lity Cover	ed by
Valuation	Cor	tributions	Inactives	Liability	Reported	Rej	ported Ass	ets
Date		(A)	(B)	(C)	Assets	(A)	(B)	(C)
6/30/2024	\$	315,372	\$ 4,543,892	\$ 1,273,565	\$ 5,013,631	100%	100%	12%
6/30/2023		312,277	4,351,041	1,245,236	4,739,742	100%	100%	6%
6/30/2022		316,682	4,085,699	1,248,100	4,495,687	100%	100%	7%
6/30/2021		315,820	3,875,560	1,250,280	4,210,447	100%	100%	2%
6/30/2020		315,240	3,655,447	1,264,648	3,851,948	100%	97%	0%
6/30/2019		308,023	3,446,977	1,233,427	3,706,302	100%	99%	0%
6/30/2018		304,454	3,227,859	1,164,115	3,596,590	100%	100%	6%
6/30/2017		299,933	3,050,871	1,113,598	3,439,922	100%	100%	8%
6/30/2016		294,535	2,999,773	1,061,682	3,303,550	100%	100%	1%
6/30/2015		285,538	2,819,410	953,462	3,212,776	100%	100%	11%



SECTION VII – ACTUARIAL SECTION OF THE ACFR

In the exhibit below, non-recurring items include changes in assumptions and changes in plan provisions.

Table VII-3

	Analysis of Financial Experience Gain or (Loss) for Year(s) Ending on Valuation Date Due To:												
Actuarial Valuation Date	Investment Income	C	ss) for Year ombined Liability sperience	(s) Ending on V Total Financial Experience		n-Recurring Items	Total Experience						
6/30/2024 6/30/2023 6/30/2022 6/30/2021 6/30/2020 6/30/2019 6/30/2018 6/30/2016	\$ 18,35 (5,28 22,55 117,19 (89,53 (116,23 (53,61 (50,88 (106,78	0) 0 5 8) 2) 5) 2) 5)	(35,836) (70,885) (20,703) (6,608) 19,032 (27,406) 13,448 (57,971) (54,528) 7,291	\$ (17,479) (76,165) 1,847 110,587 (70,506) (143,638) (40,167) (108,853) (161,313) 10,097	\$	0 (5,679) (58) (12,389) (73,524) (80,853) (76,425) 127,571 (72,680) (90,004)	\$ (17,479) (81,844) 1,789 98,198 (144,030) (224,491) (116,592) 18,718 (233,993)						



APPENDIX A – MEMBERSHIP INFORMATION

Data Assumptions and Methods

In preparing our data, we relied on information supplied by the San José Department of Retirement Services. This information includes, but is not limited to, plan provisions, employee data, and financial information. Our methodology for obtaining the data used for the valuation is based upon the following assumptions and practices:

- Records on the "Active" data file are considered to be Active if they do not have a reason for termination.
- Records on any of the data files are considered to be Inactive if they have a reason for termination of deferred vested or leave of absence/inactive.
- Records on the "Retiree" and "Beneficiary/QDRO" files are considered in pay status if they do not have a date of death, are not inactive, and have not withdrawn from the plan.
- All active employees are assumed to accrue a full year of service in all future years.
- Salary for the year commencing on the valuation date is defined as the greater of:
 - o Annualized "compensation rate 2," increased with one year of wage inflation and one-half year of merit increase; and,
 - o "Pensionable compensation" for the year ending on the valuation date, increased with one year of wage inflation and one year of merit increase.
- The annual benefit for deferred vested members is set to be the accrued benefit provided. If an accrued benefit is not provided, then an annual benefit is estimated at the later of their current age and assumed retirement age, using the benefit service provided and annualized "compensation rate 2."
- We assume any member found in last year's "Retiree" file and not in this year's file is deceased without a beneficiary and should be removed from the valuation data.
- We assume all deceased members with payments continuing to a beneficiary have already been accounted for in the "Retiree" file.
- If a spouse continuance amount is not provided on a Tier 1 retiree or disabled member's record, it is assumed to equal the member's benefit, multiplied by 37.5%, and divided by the member's benefit multiplier at retirement.



Table A-1

	Act	ive Mem	ber Data			
	June	30, 2023	J	une 30, 202	4	
	1	Cotal	Fire	Police	Total	% Change
<u>Tier 1</u>						
Count		862	386	387	773	-10.3%
Averages						
Current Age		47.4	48.3	47.7	48.0	1.3%
Eligibility Service		19.0	19.0	20.0	19.5	2.6%
Benefit Service		18.2	18.2	19.1	18.7	2.7%
Expected Pensionable Earnings	\$	177,508	\$ 183,691	\$ 201,209	\$ 192,461	8.4%
<u>Tier 2</u>						
Count		833	255	612	867	4.1%
Averages						
Current Age		33.0	35.2	32.8	33.5	1.7%
Eligibility Service		4.2	4.9	4.8	4.9	15.0%
Benefit Service		4.1	4.5	4.8	4.7	14.4%
Expected Pensionable Earnings	\$	142,714	\$ 147,648	\$ 161,643	\$ 157,527	10.4%
<u>Total</u>						
Count		1,695	641	999	1,640	-3.2%
Averages						
Current Age		40.3	43.1	38.6	40.3	0.1%
Eligibility Service		11.8	13.4	10.7	11.8	0.1%
Benefit Service		11.3	12.8	10.3	11.3	0.1%
Expected Pensionable Earnings	\$	160,409	\$ 169,352	\$ 176,971	\$ 173,993	8.5%



Table A-2

	Scheo	dule	of Active M	ember Data	
Valuation Year	Active Count		Annual Payroll	Monthly Average Pay	Percent Change in Average Pay
2024	1,640	\$	285,349,000	\$ 14,499	8.47%
2023	1,695		271,893,000	13,367	6.33%
2022	1,746		263,395,000	12,571	3.81%
2021	1,738		252,558,000	12,110	3.13%
2020	1,709		240,798,000	11,742	5.66%
2019	1,638		218,429,000	11,113	1.02%
2018	1,544		203,816,000	11,000	12.69%
2017	1,577		184,733,000	9,762	2.96%
2016	1,654		188,189,000	9,481	5.18%
2015	1,707		184,645,000	9,014	-11.51%



Table A-3

	I	Payee Mem	be	r Data	
	Jun	ne 30, 2023		June 30, 2024	%Change
Retired					
Count		1,347		1,363	1.2%
Average Age		65.0		65.5	0.7%
Average Annual Benefit	\$	125,951	\$	129,543	2.9%
Service Disability					
Count		820		847	3.3%
Average Age		70.6		70.4	-0.4%
Average Annual Benefit	\$	111,269	\$	115,290	3.6%
Non-Service Disability					
Count		28		27	-3.6%
Average Age		60		60.7	1.4%
Average Annual Benefit	\$	57,168	\$	58,335	2.0%
Beneficiaries & SADROs					
Count		403		414	2.7%
Average Age		70.1		70.3	0.2%
Average Annual Benefit	\$	53,152	\$	54,414	2.4%
Total					
Count		2,598		2,651	2.0%
Average Age		67.5		67.7	0.3%
Average Annual Benefit	\$	109,283	\$	112,531	3.0%



APPENDIX A – MEMBERSHIP INFORMATION

Table A-4

	Schedule of Retirees and Beneficiaries Added to and Removed from Rolls														
	В	Beginning Added to Rolls Annual Annual		Removed from Rolls Annual			End of Period Annual			% Increase in Annual		verage Annual			
Period	Count	A	llowances	Count	Al	lowances	Count	Alle	owances	Count Allowances		Allowances	All	Allowances	
2023-2024	2,598	\$	283,918	170	\$	25,781	117	\$	11,379	2,651	\$	298,320	5.1%	\$	112,531
2022-2023	2,518		266,635	143		22,750	63		5,467	2,598		283,918	6.5%		109,283
2021-2022	2,438		251,318	146		21,212	66		5,895	2,518		266,635	6.1%		105,892
2020-2021	2,380		237,230	121		18,787	63		4,699	2,438		251,318	5.9%		103,084
2019-2020	2,318		224,303	112		16,936	50		4,009	2,380		237,230	5.8%		99,676
2018-2019	2,250		211,220	122		17,005	54		3,922	2,318		224,303	6.2%		96,766
2017-2018	2,192		200,197	120		15,558	62		4,535	2,250		211,220	5.5%		93,876
2016-2017	2,149		190,897	87		11,816	44		2,516	2,192		200,197	4.9%		91,331
2015-2016	2,108		182,185	72		10,843	31		2,131	2,149		190,897	4.8%		88,831
2014-2015	2,032		170,872	115		13,700	39		2,387	2,108		182,185	6.6%		86,426

Annual Allowances in Thousands



APPENDIX A – MEMBERSHIP INFORMATION

Table A-5

		ıber Data			
	June	30, 2023	June	e 30, 2024	%Change
<u>Tier 1</u>					
Terminated Vested / Reciprocal					
Count		185		192	3.8%
Average Age		47.8		48.0	0.3%
Average Annual Benefit	\$	27,041	\$	29,448	8.9%
Average Contribution Balance with Interest	\$	134,508	\$	143,724	6.9%
Non-Vested Terminated					
Count		26		26	0.0%
Average Age		43.5		44.5	2.4%
Average Annual Benefit	\$	10,916	\$	11,057	1.3%
Average Contribution Balance with Interest	\$	62,990	\$	65,469	3.9%
Total					
Count		211		218	3.3%
Average Age		47.3		47.6	0.6%
Average Annual Benefit	\$	25,054	\$	27,255	8.8%
Average Contribution Balance with Interest	\$	125,695	\$	134,391	6.9%
Tier 2					
Terminated Vested / Reciprocal					
Count		29		47	62.1%
Average Age		34.6		36.2	4.7%
Average Annual Benefit	\$	11,768	\$	11,167	-5.1%
Average Contribution Balance with Interest	\$	62,798	\$	62,581	-0.3%
Non-Vested Terminated					
Count		134		160	19.4%
Average Age		34.9		35.4	1.5%
Average Annual Benefit	\$	1,814	\$	2,618	44.3%
Average Contribution Balance with Interest	\$	15,061	\$	16,820	11.7%
Total		•		•	
Count		163		207	27.0%
Average Age		34.9		35.6	2.2%
Average Annual Benefit	\$	3,585	\$	4,559	27.2%
Average Contribution Balance with Interest	\$	23,554	\$	27,210	15.5%
<u>Total</u>		•		•	
Count		374		425	13.6%
Average Age		41.9		41.8	-0.3%
Average Age Average Annual Benefit	\$	15,697	\$	16,201	3.2%
Average Contribution Balance with Interest	\$	81,179	\$ \$	82,188	1.2%

For inactive members, benefit is calculated using the assumptions and methods outlined in Appendix A if not provided in the data



Table A-6

		Distrib	ution of A	ctive Mem	bers as of J	June 30, 202	24		
			Y	ears of Bene	fit Service				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 and Up	Total
Under 25	8	6	0	0	0	0	0	0	14
25 to 29	46	140	21	0	0	0	0	0	207
30 to 34	20	140	145	7	0	0	0	0	312
35 to 39	10	73	139	46	7	0	0	0	275
40 to 44	5	19	56	66	94	7	0	0	247
45 to 49	1	6	21	38	106	79	14	0	265
50 to 54	0	2	6	10	56	90	47	0	211
55 to 59	0	2	2	2	19	33	33	3	94
60 to 64	0	0	2	1	2	6	4	0	15
65 to 69	0	0	0	0	0	0	0	0	0
70 and up	0	0	0	0	0	0	0	0	0
Total Count	90	388	392	170	284	215	98	3	1,640

		Distribution	n of Avera	ge Expected	l Salary as	of June 30	, 2024		
			Y	ears of Benef	it Service				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 and Up	Total
Under 25	\$125,809	\$136,592	\$0	\$0	\$0	\$0	\$0	\$0	\$130,430
25 to 29	126,303	145,417	169,078	0	0	0	0	0	143,570
30 to 34	125,310	148,531	173,793	181,420	0	0	0	0	159,521
35 to 39	133,440	149,025	173,459	183,036	194,939	0	0	0	167,667
40 to 44	142,890	147,928	172,579	178,942	194,276	217,954	0	0	181,325
45 to 49	118,222	146,822	174,656	183,042	189,997	204,023	225,232	0	192,579
50 to 54	0	155,537	171,825	182,279	185,450	193,101	214,997	0	194,474
55 to 59	0	175,443	180,479	169,855	184,554	187,490	204,283	242,124	193,755
60 to 64	0	0	174,535	155,403	227,233	193,426	184,426	0	190,480
65 to 69	0	0	0	0	0	0	0	0	0
70 and up	0	0	0	0	0	0	0	0	0
Avg. Salary	\$ 127,663 \$	147,434 \$	173,303 \$	181,019 \$	190,537 \$	197,072 \$	211,604	\$ 242,124 \$	173,993



APPENDIX A – MEMBERSHIP INFORMATION

Chart A-1

Active Count Distribution ■ Tier 1 ■ Tier 2 < 25 25 - 29 30 - 34 35 - 39 40 - 44 45 - 49 50 - 54 55 - 59 60 - 64 Age Group



Table A-7

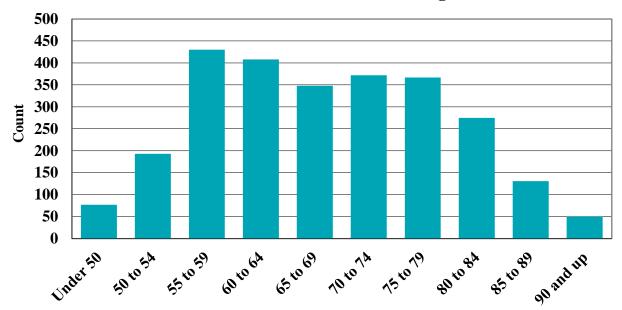
	I	Retirees :	and Disa	bled by A	Attained	Age and	Benefit	Effective	e Date		
Benefit					Ag	ge .					
Effective	Under 50	50 to 54	55 to 59	60 to 64			75 to 79	80 to 84	85 to 89 90	and up	Total
Pre-2006	0	1	1	16	15	116	226	204	98	24	701
PYE 2006	0	0	0	0	6	11	11	2	0	0	30
PYE 2007	0	0	2	1	14	32	8	2	0	0	59
PYE 2008	0	2	2	0	18	29	6	0	0	0	57
PYE 2009	0	0	1	4	53	64	20	3	0	0	145
PYE 2010	1	0	1	7	79	35	5	0	0	0	128
PYE 2011	2	1	4	37	52	11	1	0	0	0	108
PYE 2012	2	3	3	31	21	7	1	0	0	0	68
PYE 2013	4	2	6	28	9	3	1	0	0	0	53
PYE 2014	2	5	3	29	11	1	0	0	0	0	51
PYE 2015	5	3	15	58	10	2	1	0	0	0	94
PYE 2016	1	5	26	20	4	0	0	0	0	0	56
PYE 2017	5	5	24	29	4	0	0	0	0	0	67
PYE 2018	1	6	34	22	3	1	0	0	0	0	67
PYE 2019	1	2	49	27	1	0	1	0	0	0	81
PYE 2020	1	4	49	25	3	1	0	0	0	0	83
PYE 2021	6	27	51	13	2	0	0	0	0	0	99
PYE 2022	5	33	52	8	0	0	0	0	0	0	98
PYE 2023	2	44	42	16	1	0	0	0	0	0	105
PYE 2024	4	40	36	2	3	1	1	0	0	0	87
Total	42	183	401	373	309	314	282	211	98	24	2,237
Average Ag	e at Retiren	ne nt/Dis ab	ility	52.5							
Average Cu	rrent Age			67.3							
Average An	nual Pension	n	\$	123,287							



Table A-8

Distribution of Retirees, Disabled Members, and Beneficiaries as of June 30, 2024							
Age	Count	An	nual Benefit				
Under 50	77	\$	4,272,318				
50 to 54	193		21,619,923				
55 to 59	430		47,752,962				
60 to 64	408		46,331,393				
65 to 69	348		45,378,472				
70 to 74	372		48,961,680				
75 to 79	367		41,808,067				
80 to 84	275		27,136,134				
85 to 89	131		11,877,133				
90 and up	50		<u>3,181,705</u>				
Total	2,651	\$	298,319,787				

Chart A-2
Count Distribution of Members Receiving Benefits





APPENDIX A – MEMBERSHIP INFORMATION

Chart A-3

Distribution of Annual Benefit Payments

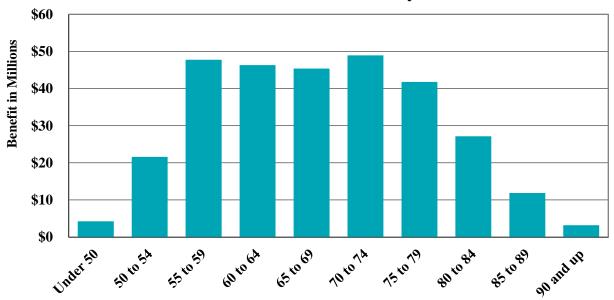




Table A-9

		Changes	in Plan M	lembers	hin		
		Vested	III I Iaii IV.	rembers	In-Pay		
		Terminated/	Non-Vested		III I uj	Beneficiary /	
TIER 1	Active	Reciprocal	Terminated	Retired	Disabled	SADRO	Total
June 30, 2023	862	185	26	1,347	848	403	3,671
New Entrants	0	0	0	0	0	0	0
Rehires	1	(1)	0	0	0	0	0
Non-Vested Terms	(1)	0	1	0	0	0	0
Vested Deferrals	(20)	20	0	0	0	0	0
Refunds	0	0	(1)	0	0	0	(1)
Disabilities	(3)	0	0	(49)	52	0	0
Retirements	(66)	(13)	0	79	0	0	0
SADROs	0	(4)	0	0	0	4	0
Deaths	(1)	0	0	(14)	(28)	21	(22)
Beneficiary Deaths	0	0	0	Û	0	(23)	(23)
Benefits Expiring	0	0	0	0	0	(4)	(4)
Adjustments	1	5	0	0	(1)	13	18
June 30, 2024	773	192	26	1,363	871	414	3,639
TIER 2							
June 30, 2023	833	29	134	0	0	0	996
New Entrants	89	0	4	0	0	0	93
Rehires	3	(1)	(2)	0	0	0	0
Non-Vested Terms	(26)	(2)	28	0	0	0	0
Vested Deferrals	(23)	23	0	0	0	0	0
Refunds	(7)	0	(4)	0	0	0	(11)
Disabilities	(2)	0	0	0	2	0	0
Retirements	0	0	0	0	0	0	0
Deaths	0	0	0	0	0	0	0
Beneficiary Deaths	0	0	0	0	0	0	0
Benefits Expiring	0	0	0	0	0	0	0
Adjustments	0	(2)	0	0	1	0	(1)
June 30, 2024	867	47	160	0	3	0	1,077
TOTAL							,
June 30, 2023	1,695	214	160	1,347	848	403	4,667
New Entrants	89	0	4	0	0	0	93
Rehires	4	(2)	(2)	0	0	0	0
Non-Vested Terms	(27)	(2)	29	0	0	0	0
Vested Deferrals	(43)	43	0	0	0	0	0
Refunds	(7)	0	(5)	0	0	0	(12)
Disabilities	(5)	0	0	(49)	54	0	0
Retirements	(66)	(13)	0	79	0	0	0
SADROs	0	(4)	0	0	0	4	0
Deaths	(1)	0	0	(14)	(28)	21	(22)
Beneficiary Deaths	0	0	0	0	0	(23)	(23)
Benefits Expiring	0	0	0	0	0	(4)	(4)
Adjustments	1	3	0	0	0	13	17
ū.							
Adjustments June 30, 2024	1 1,640	3 239	0 186	0 1,363	0 874	13 414	17 4,716



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

The economic assumptions used in this report were adopted by the Board of Administration at its October 3, 2024 meeting based on our recommendations. Please refer to the presentation for that meeting for the rationale for each assumption. The demographic assumptions were adopted at the Board's November 2, 2023 meeting based on our input and recommendations from our experience study covering plan experience through June 30, 2023. Please refer to the experience study report and presentations for both the October 5, 2023 and November 2, 2023 Board meetings for the rationale for each of the assumptions.

1. Discount Rate

6.625% net of investment expenses. The long-term expected return on assets based on Meketa's capital market assumptions for the 10-year and 20-year time horizons are 7.2% and 8.4%, respectively. The Board applied a margin for adverse deviation to maintain the assumption of 6.625%.

2. Price Inflation

2.50% per annum.

3. Amortization Payment Growth

2.50% per annum.

4. Wage Inflation

Reflect currently bargained across-the-board increases and 3.00% per annum (0.50% real wage growth) thereafter. For this valuation, Fire members have bargained increases of 6.00% effective July 1, 2024, 4.00% effective July 1, 2025, 1.00% effective January 1, 2026, and 3.50% effective July 1, 2026. Police members have an ongoing non-pensionable 4.00% retention pay that becomes pensionable as well as a bargained increase of 3.00% effective July 1, 2024.



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

5. Merit Salary Increase Rate

The following merit component is added to wage inflation, based on an individual member's years of service:

Table B-1

Merit Salary Increases					
Years of Service	Increase				
0	6.50%				
1	6.50				
2	6.25				
3	5.75				
4	5.25				
5	4.25				
6	2.50				
7	1.50				
8	1.00				
9	0.80				
10+	0.60				

6. Rates of Retirement

Rates of retirement are based on age and service according to the following Tables B-2, B-3, and B-4. Tier 1 rates only apply when the member is eligible for unreduced benefits.

Table B-2

	Tier 1 Rates of Retirement						
.	Police Years of Service			Fire Years of Service			
Age	<25	25 – 29	30+	<25	25 – 29	30+	
50	0.0%	55.0%	60.0%	0.0%	45.0%	50.0%	
51	0.0	45.0	60.0	0.0	30.0	50.0	
52	0.0	35.0	60.0	0.0	40.0	50.0	
53	0.0	35.0	60.0	0.0	40.0	50.0	
54	0.0	35.0	60.0	0.0	40.0	50.0	
55	30.0	40.0	60.0	30.0	40.0	100.0	
56	30.0	45.0	60.0	25.0	40.0	100.0	
57	30.0	50.0	60.0	20.0	40.0	100.0	
58 - 61	45.0	50.0	60.0	27.5	40.0	100.0	
62+	100.0	100.0	100.0	100.0	100.0	100.0	



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Table B-3

Police Tier 2 Rates of Retirement							
	Years of Service						
Age	5 - 19	20 - 24	25 – 29	30+			
50 – 56	2.0%	2.0%	2.0%	5.0%			
57 – 59	7.5	10.0	20.0	100.0			
60 - 61	10.0	20.0	35.0	100.0			
62 - 64	25.0	50.0	75.0	100.0			
65+	100.0	100.0	100.0	100.0			

Table B-4

Fire Tier 2 Rates of Retirement							
	Years of Service						
Age	5 - 19	20 - 24	25 – 29	30+			
50 – 56	1.0%	1.0%	1.0%	2.5%			
57 – 59	5.0	7.5	15.0	100.0			
60 - 61	7.5	15.0	25.0	100.0			
62 - 64	20.0	35.0	50.0	100.0			
65+	100.0	100.0	100.0	100.0			

Tier 1 vested terminated members are assumed to retire at age 50 if they have 25 or more years of service or at age 55 if they have less than 25 years of service. Tier 2 vested terminated members are assumed to retire at age 60.



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

7. Rates of Termination

Rates of termination are shown in Table B-5 below.

Table B-5

	Rates of Termination	
Service	Police	Fire
0	11.00%	8.50%
1	8.00	4.00
2	6.25	2.75
3	5.00	1.75
4	4.25	1.25
5	3.75	1.00
6	3.55	0.90
7	3.40	0.80
8	3.30	0.70
9	3.25	0.60
10	3.25	0.50
11	3.25	0.50
12	3.15	0.50
13	2.95	0.50
14	2.75	0.50
15	2.25	0.50
16	1.75	0.50
17	1.50	0.50
18	1.25	0.50
19+	1.00	0.50

Termination rates do not apply once retirement rates apply.

Tier 1 members who terminate with less than 10 years of service and Tier 2 members who terminate with less than 5 years of service are assumed to receive a refund of contributions. For terminating employees who are not assumed to receive a refund, 75% are assumed to subsequently work for a reciprocal employer and receive 3.00% pay increases per year.

8. Rates of Disability

For Police and Fire, disability rates are equal to the CalPERS Police Officers & Firefighters (POFF) industrial and non-industrial rates multiplied by 104%. Sample disability rates of active participants are provided in Table B-6.



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

Table B-6

Rates of Disabili	Rates of Disability at Selected Ages				
Age	Rate				
25	0.12%				
30	0.20				
35	0.33				
40	0.52				
45	0.80				
50	1.17				
55	1.65				
60	2.24				
65	2.96				

All disabilities are assumed to be duty-related.

9. Rates of Mortality

Mortality rates for actives, retirees, beneficiaries, terminated vested, and reciprocals are based on the sex-distinct employee and annuitant mortality tables shown below. Future mortality improvements are reflected by applying the SOA MP-2021 projection scale on a generational basis from the base year of 2010.

Table B-7

Base Mortality Tables		
Category	Male	Female
	0.972 times the 2010 Public	0.972 times the 2010 Public
Healthy	Safety Above Median Income	Safety Above Median Income
Retirees	Mortality Table (Pub(s)-2010(A))	Mortality Table (Pub(s)-2010(A))
	for Healthy Retirees	for Healthy Retirees
Dischlad	0.915 times the Public Safety	0.915 times the Public Safety
Disabled Retiree	Mortality Table (PubS-2010) for	Mortality Table (PubS-2010) for
	Disabled Retirees	Disabled Retirees
	1.032 times the 2010 General	1.032 times the 2010 General
Beneficiaries	Member Mortality Table (PubG-	Member Mortality Table (PubG-
	2010) for Healthy Retirees	2010) for Healthy Retirees
	0.979 times the 2010 Public	0.979 times the 2010 Public
Healthy	Safety Above Median Income	Safety Above Median Income
Non-Annuitant	Mortality Table (Pub(s)-2010(A))	Mortality Table (Pub(s)-2010(A))
	for Healthy Employees	for Healthy Employees

It is assumed that 50% of active deaths are service-related.



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

10. Family Composition

Percentage married is shown in the following Table B-8. Women are assumed to be three years younger than men.

Table B-8

Percentage Married		
Gender	Percentage	
Males	85%	
Females	85%	

11. Administrative Expenses

Administrative expenses are assumed to equal the prior year's actual administrative expenses increased by the wage inflation assumption to the year of the contribution. Administrative expenses are allocated to tier groups in proportion to each groups' Market Value of Assets.

12. Changes Since Last Valuation

None.



APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS

B. 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.

1. Actuarial Cost Method

The Entry Age Actuarial Cost Method was used for active employees, whereby the normal cost is computed as the level annual percentage of pay required to fund the retirement benefits between each member's date of hire and assumed retirement. The Actuarial Liability is the difference between the present value of future benefits and the present value of future normal cost. The Unfunded Actuarial Liability is the difference between the Actuarial Liability and the Actuarial Value of Assets.

2. Asset Valuation Method

For the purposes of determining contributions, we use a smoothed Actuarial Value of Assets that dampens the effects of volatility in the market value of assets on the pattern of contributions.

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 and benefit payments during the year. Any difference between this amount and the actual net investment earnings is considered a gain or loss. Finally, the Actuarial Value of Assets is restricted to a corridor between 80 percent and 120 percent of the Market Value of Assets.

As adopted by the Board at their November 2, 2023 meeting based on our input, effective for this valuation, the remaining unrecognized investment gains and losses were combined with the investment gain for 2023 and will be recognized over five years. The primary impact of this change is to align the recognition of the large gain for 2021 with the large loss for 2022 to produce a smoother pattern of contributions.

3. Amortization Method

Actuarial gains and losses and plan changes are amortized over a 15-year period beginning with the valuation date in which they first arise. Changes in methods and assumptions are amortized over a 20-year period beginning with the valuation date on which they are effective. Amortization payments are assumed to increase by 2.5% each year. Some amortization periods have been adjusted in prior years to smooth the pattern of future contributions.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 1

1. Membership Requirement

Participation in the plan is immediate upon the first day of employment with the City of San José as a police officer or firefighter except for the following:

- Independent contractors,
- Person in City service principally for training or educational purposes,
- Auxiliary or voluntary police officers or firefighters,
- Part-time or non-salaried employees, and
- Employees receiving credit in any other retirement or pension system.

Persons eligible for Tier 1 membership include:

- Any police officer hired prior to August 4, 2013 or any firefighter hired prior to January 2, 2015.
- Any person who was a member of this plan as an employee of the police department prior to August 4, 2013, and terminated employment with the city, and returned to employment with the city in a position covered by this plan on or after August 4, 2013.
- Any person who was a member of this plan as an employee of the fire department prior to January 2, 2015, and terminated employment with the city, and returned to employment with the city in a position covered by this plan on or after January 2, 2015.
- Any person accepting employment in the police department or fire department of the city on or after January 1, 2013, who is otherwise eligible for this plan and who was an active member in another California public retirement system with which this plan has reciprocity under Part 16, and who has a break in service of less than six months from that covered employment and employment with the city.

2. Final Compensation

The highest twelve consecutive months of compensation in covered employment. However, in determining Final Compensation, no compensation in the last 12 months of employment that exceeds 108% of compensation during the 12 months immediately preceding the last 12 months shall be considered. Compensation excludes overtime pay and expense allowances.

3. Credited Service

Years of service in covered employment plus service purchased for military leave of absence, Federated service, and unpaid leaves of absence.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 1

4. Contributions

a. Member:

The amount needed to fund 3/11ths of normal cost (excluding normal cost for reciprocal benefits and excluding administrative expenses) calculated under the Entry Age actuarial cost method.

b. Employer:

The Employer contributes the remaining amounts necessary to fund the Plan in accordance with the Board's funding policy.

5. Service Retirement

Eligibility

Age 55 with 20 years of service, age 50 with 25 years of service, age 70 with no service requirement, or any age with 30 years of service. Reduced benefits are also available at age 50 with 20 years of service.

Benefit

Police: 2.5% of Final Compensation for each year of credited service up to 20 years

plus 4.0% of Final Compensation for each year of credited service in excess of

20, subject to a maximum of 90% of Final Compensation.

Fire: For members with less than 20 years of service, 2.5% of Final Compensation

for each year of credited service. For members with 20 or more years of service, 3.0% of Final Compensation for each year of service, subject to a

maximum of 90% of Final compensation.

6. Service-Connected Disability Retirement

Eligibility

No age or service requirement.

Benefit

Police: 50% of Final Compensation plus 4.0% of Final Compensation for each year of

credited service in excess of 20, subject to a maximum of 90% of Final

Compensation.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 1

Fire: For members with less than 20 years of service, 50% of Final Compensation.

For members with 20 or more years of service, 3.0% of Final Compensation for each year of service, subject to a maximum of 90% of Final

Compensation.

7. Non-Service-Connected Disability Retirement

Eligibility

Two years of service.

Benefit

For members with less than 20 years of service, 32% of Final Compensation plus 1% of Final Compensation for each year of service in excess of two. For members with 20 or more years of service, the benefit amount equals the amount that would be calculated under the service retirement formula.

8. Non-Service-Connected Death

Less than 2 Years of Service:

Lump sum benefit equal to the greater of accumulated employee contributions with interest or \$1,000.

Active members ineligible for service retirement and disabled retirees on a non-service-connected disability:

Spouse receives 24% of Final Compensation plus 0.75% of Final Compensation for each year of service in excess of two, subject to a maximum of 37.5% of Final Compensation. If a member has eligible dependent children, an additional benefit is payable as follows:

1 Child: 25% of Final Compensation 2 Children: 37.5% of Final Compensation

3+ Children: 50% of Final Compensation

The total benefit payable to a family is limited to 75% of Final Compensation.

If a member does not have a spouse or eligible dependent children, a lump sum benefit equal to the greater of accumulated employee contributions with interest or \$1,000.

Active members eligible for service retirement, service retirees, and disabled retirees on a service-connected disability:

Spouse receives the greater of 37.5% of Final Compensation or 50% of the member's service retirement benefit, subject to a maximum of 42.5% of Final Compensation for Police and 45% of Final Compensation for Fire. Eligible dependent children will receive



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 1

the same benefit as defined under the non-service-connected death for disabled retirees or members ineligible for service retirement. The total benefit payable to a family is limited to 75% of Final Compensation.

If a member does not have an eligible surviving spouse or surviving domestic partner or eligible surviving children, the member's estate receives a lump sum death benefit of \$1,000.

Deferred vested members eligible for service retirement:

Spouse receives 1.875% of Final Compensation for each year of service, subject to a maximum of 37.5% of Final Compensation. Eligible dependent children receive the same benefit as defined under the non-service-connected death for active members ineligible for service retirement. The total benefit payable to a family is limited to 75% of Final Compensation.

If a member does not have a spouse or eligible dependent children, a lump sum benefit is paid to the member's estate equal to the greater of accumulated employee contributions with interest or \$1,000.

9. Service-Connected Death

Spouse receives the greater of 37.5% of Final Compensation or 50% of the member's service retirement benefit, subject to a maximum of 42.5% of Final Compensation for Police and 45% of Final Compensation for Fire. If a member has eligible dependent children, an additional benefit of 25% of Final Compensation is payable for each eligible dependent child. The total benefit payable to a family is limited to 75% of Final Compensation.

If a member does not have a spouse or eligible dependent children, a lump sum benefit equal to the greater of accumulated employee contributions with interest or \$1,000 is paid to the member's estate.

10. Termination Benefits

Less than 10 Years of Service:

Lump sum benefit equal to the accumulated employee contributions with interest at 2% per annum. For members not covered by the VEBA, the lump sum also includes an amount equal to the employee contributions made to the 401(h) account accumulated with interest at 2% per annum.

10 or more years of credited service:

The amount of the service retirement benefit, payable at the later of age 55 or 20 years from date of membership.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 1

11. Post-retirement Cost-of-Living Benefit

Benefits are increased every February 1 by 3.0%.

12. Changes Since Last Valuation

None.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 2

1. Membership Requirement

Any police officer who is hired by the City on or after August 4, 2013, or any firefighter who is hired by the City on or after January 2, 2015, and who does not meet the eligibility requirements for Tier 1.

2. Final Compensation

The highest average monthly compensation of the member during any thirty-six consecutive months of covered employment. Compensation excludes overtime pay and expense allowances.

3. Credited Service

One year of service credit is given for 2,080 or more hours of city service rendered in any calendar year. A partial year (fraction with the numerator equal to the hours worked, and the denominator equal to 2,080) is given for each calendar year with less than 2,080 hours worked.

4. Member Contributions

50% of total Tier 2 contributions to the pension plan, including, but not limited to administrative expenses, normal cost, and Unfunded Actuarial Liability. Increases in members' Unfunded Actuarial Liability contribution are limited to one-third of one percent of compensation each year. Contributions cannot be less than 50% of normal cost.

5. Unreduced Service Retirement

Eligibility

Age 57 with five years of service.

Benefit – Member

2.4% of Final Compensation for each year of credited service up to 20 years, plus 3.0% of Final Compensation for each year of credited service between 20 years and 25 years, plus 3.4% of Final Compensation for each year of credited service in excess of 25 years, subject to a maximum of 80% of Final Compensation.

<u>Benefit – Survivor</u>

50% joint and survivor annuity.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 2

6. Early Service Retirement

Eligibility

Age 50 with five years of service.

Benefit - Member

Reduced 7% per year for each year between age 57 and the member's age at retirement.

7. Service-Connected Disability Retirement

Eligibility

No age or service requirement.

Benefit - Member

The greater of:

- Monthly benefit equivalent to 50% of Final Compensation,
- The service retirement benefit, if eligible for service retirement,
- A service retirement benefit actuarially reduced from age 50, if not eligible for service retirement.

8. Non-Service-Connected Disability Retirement

Eligibility

Five years of service.

Benefit - Member

1.8% of Final Compensation for each year of credited service if less than age 50, or the service pension benefit if older than age 50.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 2

9. Death Before Retirement

If death occurs before retirement eligibility is reached and after two years of service

Monthly benefit equal to 24% of Final Compensation plus 0.75% of Final Compensation for each year of service in excess of two, up to a maximum of 37.5% of Final Compensation

If death occurs after retirement eligibility is reached

Benefit equivalent to what the spouse would have received if the employee was retired at the time of death.

Employees killed in the line of duty

Monthly benefit equal to the greater of:

- 37.5% of Final Compensation or
- 50% of what the employee would have received if retired at the time of death.

10. Withdrawal Benefits

Less than five years of credited service

Lump sum benefit equal to the accumulated employee contributions with interest.

Five or more years of credited service

The amount of the service retirement benefit, actuarially reduced for early retirement, and payable when retirement eligibility is reached.

11. Benefit Forms

Retiree may choose an optional settlement at retirement that reduces their allowance to provide a higher survivorship allowance to their spouse/domestic partner.

12. Post-retirement Cost-of-Living Benefit

Benefits are increased every February 1 by the change in the December CPI-U for San José-San Francisco-Oakland, subject to a cap of 2.0%. The first COLA after retirement shall be prorated based on the number of months retired.

13. Changes Since Last Valuation

There have been no changes in plan provisions since the last valuation.



APPENDIX C – SUMMARY OF PLAN PROVISIONS TIER 2

Note: The summary of major plan provisions is designed to outline principal plan benefits. If the Department of Retirement Services should find the plan summary not in accordance with the actual provisions, the actuary should immediately be alerted so the proper provisions are valued.



APPENDIX D – GLOSSARY OF TERMS

1. Actuarial Liability

The Actuarial Liability is the difference between the present value of future benefits and the present value of total future normal costs. This is also referred to by some actuaries as the "accrued liability" or "actuarial accrued liability." The Actuarial Liability represents the amount of assets a plan should have as of a valuation date according to the actuarial cost method.

2. Actuarial Assumptions

Estimates of future experience with respect to rates of mortality, disability, turnover, retirement rate or rates of investment income, and salary increases. Demographic actuarial assumptions (rates of mortality, disability, turnover, and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (price inflation, wage inflation, and investment income) are generally based on expectations for the future that may differ from the Plan's past experience.

3. Actuarial Cost Method

A mathematical budgeting procedure for allocating the dollar amount of the present value of future benefits between future normal cost and Actuarial Liability.

4. Actuarial Gain (Loss)

The difference between actual experience and the anticipated experience based on the actuarial assumptions during the period between two actuarial valuation dates.

5. Actuarial Present Value

The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at the discount rate and by probabilities of payment.

6. Actuarially Determined Contribution

The payment to the Plan as determined by the actuary using a contribution allocation procedure. It may or may not be the actual amount contributed to the Plan.

7. Amortization Method

A method for determining the amount, timing, and pattern of payment of the Unfunded Actuarial Liability.



APPENDIX D – GLOSSARY OF TERMS

8. Asset Valuation Method

The method used to develop the Actuarial Value of Assets from the Market Value of Assets typically by smoothing investment returns above or below the assumed rate of return over a period of time.

9. Contribution Allocation Procedure

A procedure typically using an actuarial cost method, an asset valuation method, and an amortization method to develop the Actuarially Determined Contribution.

10. Discount Rate

The rate of interest used to discount future benefit payments to determine the actuarial present value. For purposes of determining an Actuarially Determined Contribution, the discount rate is typically based on the long-term expected return on assets.

11. Funded Status or Funding Ratio

Either the Market or Actuarial Value of Assets divided by the Actuarial Liability. For purposes of this report, the funded status represents the proportion of the actual assets as of the valuation date compared to the assets expected by the actuarial cost method. These measures are for contribution budgeting purposes and are not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.

12. Normal Cost

The portion of the present value of future benefits allocated to the current year by the actuarial cost method.

13. Present Value of Future Benefits

The actuarial present value of all benefits both earned as of the valuation date and expected to be earned in the future by current plan members based on current plan provisions and actuarial assumptions.

14. Unfunded Actuarial Liability (UAL)

The Unfunded Actuarial Liability is the difference between Actuarial Liability and either the Market or the Actuarial Value of Assets. This value is sometimes referred to as "unfunded actuarial accrued liability." It represents the difference between the actual assets and the amount of assets expected by the actuarial cost method as of the valuation date.



