

## **The Police Retirement System of St. Louis**

### **Actuarial Valuation Report as of October 1, 2024**

**Produced by Cheiron**

**February 2025**

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## ***Letter Of Transmittal***

February 26, 2025

Board of Trustees  
The Police Retirement System of St. Louis  
2020 Market Street  
St. Louis, Missouri 63101

Dear Members of the Board:

At your request, we have conducted an actuarial valuation of The Police Retirement System of St. Louis as of October 1, 2024. The valuation is organized as follows:

- In Section I, **Board Summary**, we describe the purpose of an actuarial valuation and summarize the key results found in this valuation.
- The **Main Body** of the report presents details on the System's:
  - Section II - Identification and Assessment of Risk
  - Section III - Assets
  - Section IV - Liabilities
  - Section V - Contributions
  - Section VI - Financial Statement Information
- In the **Appendices**, we conclude our report with detailed information describing the System's membership (Appendix A), actuarial assumptions and methods employed (Appendix B), a summary of pertinent Plan Provisions (Appendix C), and the System's historical information (Appendix D).

Information required by GASB Statements No. 67 and No. 68 for the year ending September 30, 2024 has been provided in a separate report.

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

In preparing our report, we relied on information (some oral and some written) supplied by The Police Retirement System of St. Louis staff. This information includes, but is not limited to the Plan Provisions, employee data, and financial information. In accordance with Actuarial Standard of Practice No. 23, *Data Quality*, we performed an informal examination of the obvious characteristics of the data for reasonableness and consistency and found the data to be appropriate for Actuarial Valuation purposes.

The results of this report rely on future System experience conforming to the underlying assumptions. To the extent that actual System experience deviates from the underlying assumptions, the results will vary accordingly.

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 actuarial report was prepared for The Police Retirement System of St. Louis for the purposes described herein and for the use by the Plan Auditor in completing an audit related to the matters herein. Other users of this valuation report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

Sincerely,  
Cheiron



Michael J. Noble, FSA, FCA, MAAA, EA  
Principal Consulting Actuary



Patrick T. Nelson, FSA, CERA, MAAA, EA  
Consulting Actuary

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**SECTION I – BOARD SUMMARY**

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

- The financial condition of the System,
- Past and expected trends in the financial progress of the System,
- The employer’s contributions for the fiscal year ending 2025, and
- Information required by the financial statements.

In the balance of this Board Summary, we present (A) the key findings of this valuation including a summary of all key financial results, (B) an examination of the historical trends, and (C) the projected financial outlook for the System. There were no changes to the actuarial assumptions, methods, or plan provisions since the October 1, 2023 valuation.

**A. Key Findings of this Valuation**

The key results of the October 1, 2024 actuarial valuation are as follows:

- The Funding Policy Contribution Requirement decreased from \$40,188,941 as of October 1, 2023 to \$36,665,685 as of October 1, 2024. This translates to a rate as a percent of total compensation decrease from 54.99% as of October 1, 2023 to 53.01% as of October 1, 2024. The primary reason for the decrease in the contribution rate was the decrease in active member payroll as well as the gains on both liabilities and actuarial value of assets. The Funding Policy Contribution is based on the Aggregate Funding Method which determines contributions based on the expected future salaries of the current active population, which decreased from the prior year.
- The number of active plan members decreased from 933 to 884 and the valuation compensation decreased from \$71.4 million to \$67.5 million during the year due to large numbers of non-vested terminations and retirements.
- The unfunded Entry Age Normal (EAN) actuarial liability for The Police Retirement System of St. Louis decreased from \$251 million on October 1, 2023 to \$216 million on October 1, 2024. This is the amount of the EAN actuarial liability minus the Actuarial Value of Assets.
- The System’s funding ratio, the ratio of Actuarial Value of Assets to the EAN actuarial liabilities, increased from 77.7% as of October 1, 2023 to 80.7% as of October 1, 2024. The reasons for the increase in funding ratio are:
  - During the year ended September 30, 2024, the System’s assets earned 18.48% on a market value basis, but due to smoothing of prior investment gains and losses, the return on the actuarial asset value was 7.93% (as compared to 7.00% assumed). This resulted in an actuarial gain on investments of \$9.6 million.
  - On the liability side, the System experienced a gain on liabilities of \$13.4 million due to plan experience. The primary contributors to this gain were salary increases less than expected, decreases in DROP account balances due to the decrease in DROP members, and more members terminating prior to retirement eligibility than expected.

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**SECTION I – BOARD SUMMARY**

Table I-1 below summarizes key results of the valuation with respect to the System's membership, assets and liabilities, and contributions. The results are presented and compared for both the current and prior Plan Year.

<b>Table I-1</b> <b>The Police Retirement System of St. Louis</b> <b>Summary of Principal Results</b>			
<b>Valuation as of October 1:</b>	<b>2023</b>	<b>2024</b>	<b>Change</b>
<b><u>Participant Counts</u></b>			
Active Participants	933	884	(5.25%)
DROP Participants (active)	29	19	(34.48%)
Retired and Disabled Participants	1,465	1,449	(1.09%)
Surviving Spouses and Children	509	523	2.75%
<b>Total</b>	<b>2,936</b>	<b>2,875</b>	<b>(2.08%)</b>
Total Valuation Compensation <sup>1</sup>	\$ 71,374,819	\$ 67,546,886	(5.36%)
Average Valuation Compensation <sup>2</sup>	73,745	74,519	1.05%
Average Age <sup>2</sup>	41.04	41.74	1.71%
Average Service <sup>2</sup>	13.42	14.11	5.14%
<b><u>Assets and Liabilities</u></b>			
EAN Actuarial Liability	\$ 1,121,824,144	\$ 1,121,530,065	(0.03%)
Actuarial Value of Assets	871,099,654	905,442,978	3.94%
Unfunded Actuarial Liability	\$ 250,724,490	\$ 216,087,087	(13.81%)
Funded Ratio	77.7%	80.7%	
Market Value of Assets (MVA)	832,553,398	949,896,929	14.09%
Funded Ratio (MVA basis)	74.2%	84.7%	
Present Value of Future Benefits	1,218,592,744	1,211,069,192	(0.62%)
Present Value of Future Member Contributions	34,420,909	31,443,644	(8.65%)
<b><u>Summary of Costs</u></b>			
Total Expected Compensation	\$ 68,307,272	\$ 64,644,855	(5.36%)
Aggregate Normal Cost Rate	53.09%	50.40%	
Aggregate Normal Cost	\$ 36,264,331	\$ 32,581,007	(10.16%)
Expected Administrative Expenses	1,340,000	1,744,000	30.15%
Total Contribution Rate	54.99%	53.01%	
Funding Policy Contribution <sup>3</sup>	\$ 40,188,941	\$ 36,665,685	(8.77%)

<sup>1</sup> Total Valuation Compensation is the total annual compensation in effect for all employees (including DROP participants) as of the valuation date.

<sup>2</sup> Average Valuation Compensation, Average Age, and Average Service do not include current DROP participants but do include former DROP participants who have returned to active service.

<sup>3</sup> Funding Policy Contribution includes interest to the end of year.

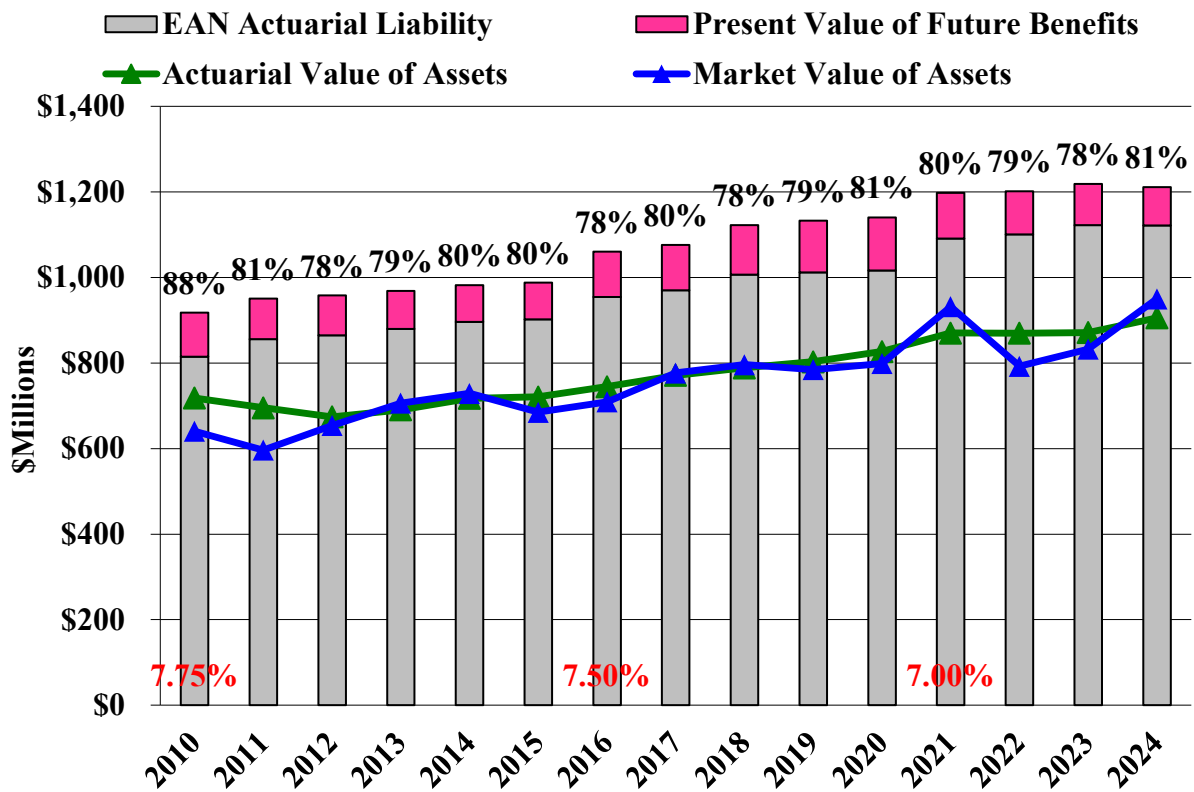
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SECTION I – BOARD SUMMARY

B. Historical Trends

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

Assets and Liabilities



The above chart compares the Actuarial Value of Assets to the actuarial liabilities and shows the funded ratio, which is a comparison of the Actuarial Value of Assets and Entry Age Normal (EAN) Actuarial Liability. There was an increase in the Market Value of Assets from \$833 million to \$950 million, returning 18.48%. With the asset smoothing method in place, the Actuarial Value of Assets has tracked a smoother path through the volatility of the Market Value of Assets. As can be seen in the graph, the Actuarial Value of Assets also increased slightly from 2023 to 2024, returning 7.93%.

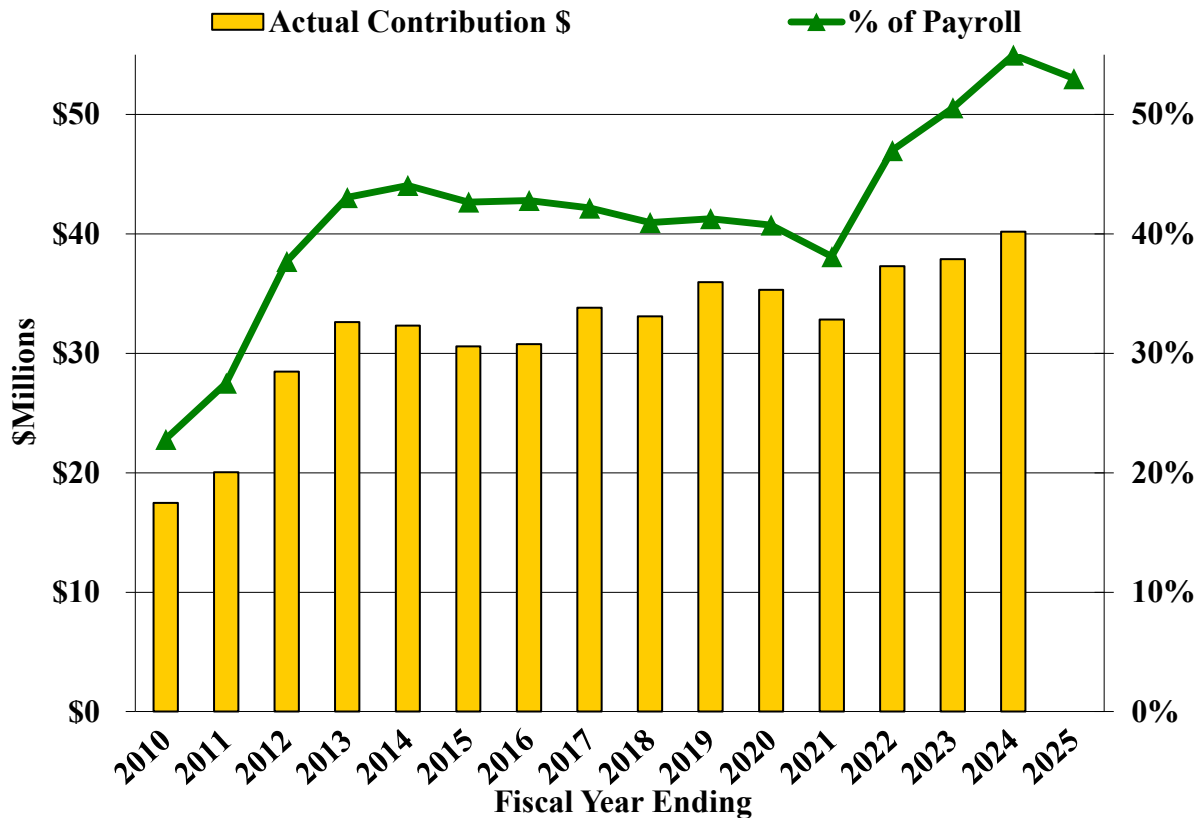
The top of the pink bar represents the Present Value of Future Benefits (PVFB), which is used in the calculation of the funding policy contribution under the Aggregate Cost Method.

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SECTION I – BOARD SUMMARY

Contribution Rates

The yellow bars in this graph show the dollar amount of employer contributions made to the System (depicted on the left-hand scale) since Fiscal Year Ending 2010. The green line shows the actuarial contribution rate as a percent of payroll (depicted on the right-hand scale). The sharp increases in contributions from 2010 to 2013 reflect the large investment losses that occurred in 2008 and 2009. The actuarial employer contribution rate decreased from 54.99% of payroll in 2024 to 53.01% of payroll for the fiscal year ending 2025 due to gains on both assets and liabilities during the year. The decrease for FYE 2025 follows the large increase for the prior year which was a result of lower payroll and asset and liability losses.

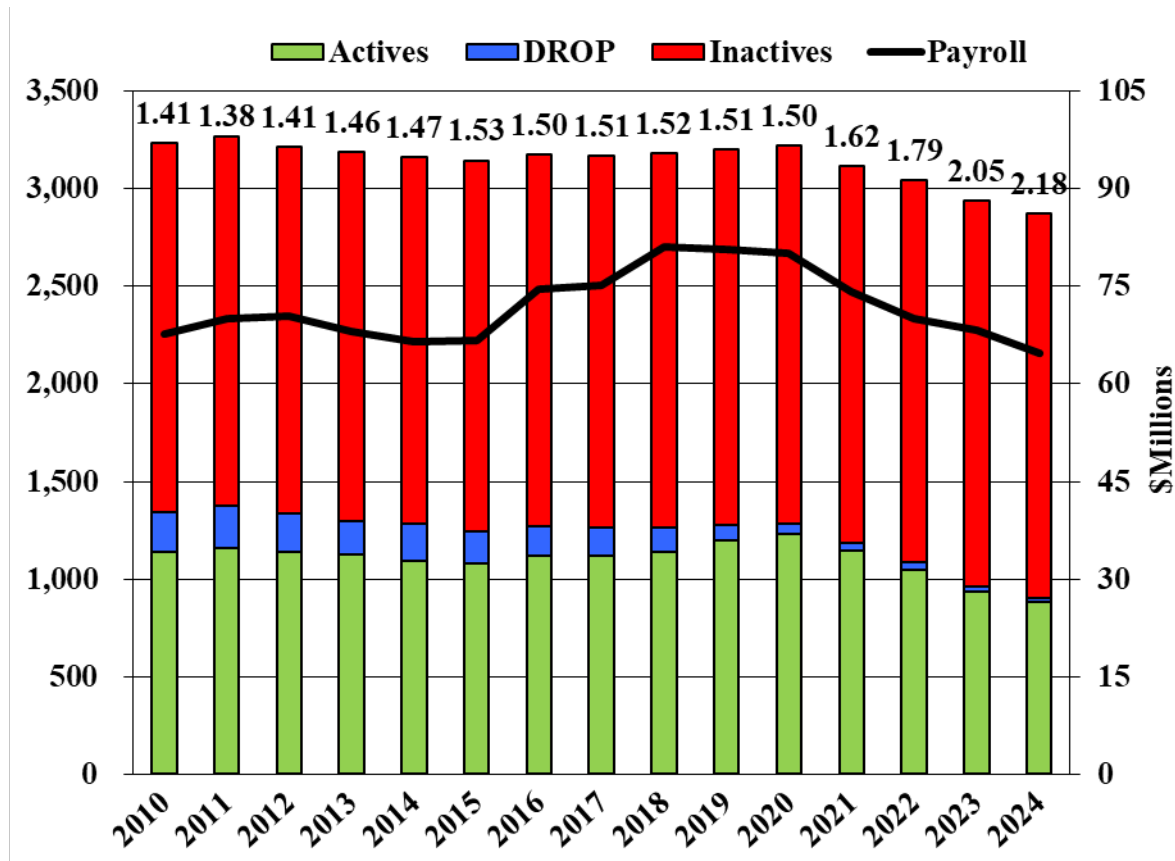




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**SECTION I – BOARD SUMMARY**

**Participant Trends**



The above chart provides a measure for the maturity of the System by comparing the ratio of inactive members (retirees and beneficiaries) to active members (including current DROP participants). The inactive-to-active ratio has generally increased since 2010 from 1.41 inactive participants per active to 2.18 inactive participants per active member today. This indicates a more mature System, and the System will experience more volatility in contribution rates when actuarial gains and losses are recognized. The black line represents the total plan payroll since the 2010 valuation which is measured against the scale on the right.

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C. Future Expected Financial Trends

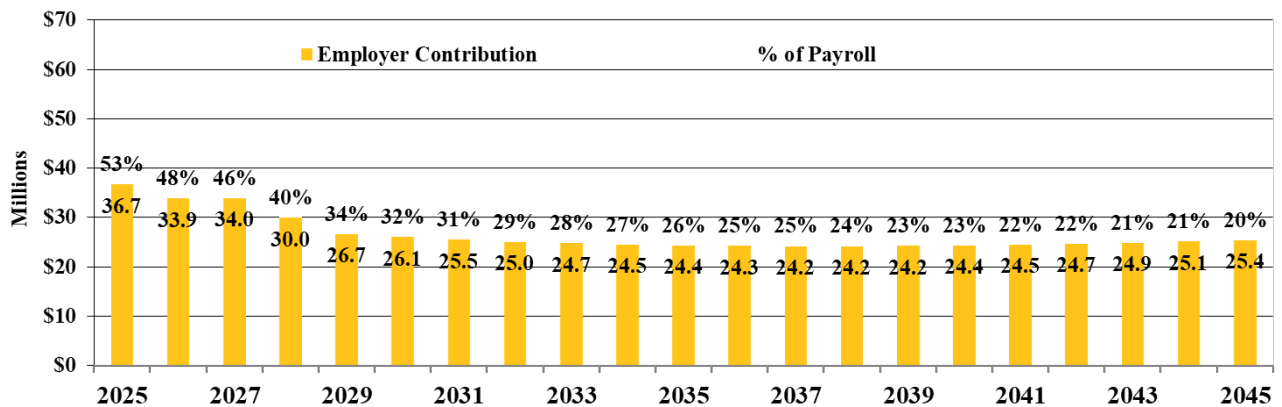
The analysis of projected financial trends is perhaps the most important component of this valuation. In this section, we present the implications of the October 1, 2024 valuation results in terms of (1) the projected employer contributions and (2) projected System’s funded status (ratio of assets over liabilities). We assume future investment returns of 7.00% each year. The projections also assume that there will be no future gains or losses on the liability.

1. Contribution Rate Projections

The first set of charts shows the employer’s projected actuarially determined contribution rates (gold bars). The years shown in the charts are plan years beginning October 1.

Baseline Returns of 7.00%

The chart below shows that the Funding Policy Contribution Requirement will change from 53% to 20% of pay by 2045. These projections assume that the System earns the assumed investment rate of 7.00% on market value, but also that the total payroll increases at 3.0% each year. The expected contributions in dollars gradually decrease as prior investment gains are fully recognized.



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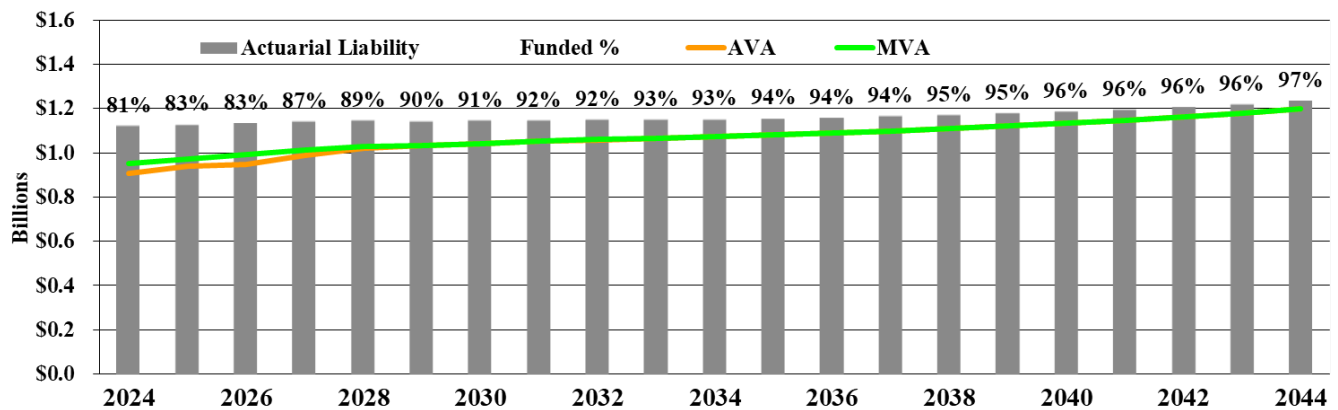
SECTION I – BOARD SUMMARY

2. Asset and Liability Projections

This next projection chart compares the Market Value of Assets (green line) and the actuarial or smoothed value of assets (gold line) to the System's Entry Age Normal actuarial liability (gray bars). In addition, at the top of each bar, we show the System's funded ratio (ratio of Actuarial Value of Assets to actuarial liability). The projections assume that the actuarially determined contributions, as shown in the previous chart, are made each year. The years shown in the chart signify the valuation date as of October 1.

**Baseline Returns of 7.00%**

Assuming that the System earns the assumed investment rate of 7.00%, the funded ratio rises quickly from 81% to 89% over the next four years as the gains on assets are smoothed in, and then gradually increases up to 97% during the 20-year period.



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**SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK**

Actuarial valuations are based on a set of assumptions about future economic and demographic experience. These assumptions represent a reasonable estimate of future experience, but actual future experience will undoubtedly be different and may be significantly different. This section of the report is intended to identify the primary risks to the System, provide some background information about those risks, and provide an assessment of those risks. Some of the charts within this section compare measures calculated for The City of St. Louis Police Retirement System to plans within the Public Plans Database. Information regarding this data can be found at <https://publicplansdata.org/>.

**Identification of Risks**

The fundamental risk to a pension plan is that the contributions needed to pay the benefits become unaffordable. The contributions needed to support the System may differ significantly from expectations. While there are a number of factors that could lead to contribution amounts deviating from expectations, we believe the primary sources are:

- Investment risk,
- Interest rate risk,
- Longevity and other demographic risks, and
- Assumption change risk.

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

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SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

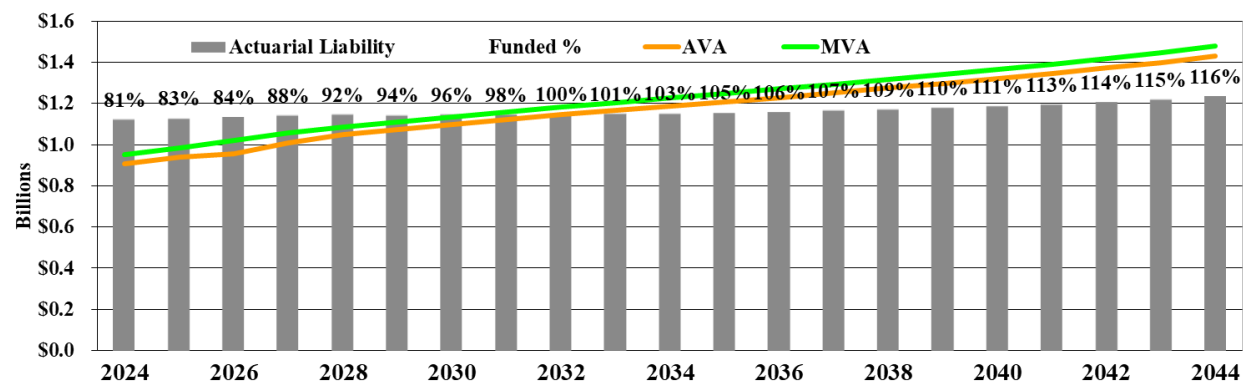
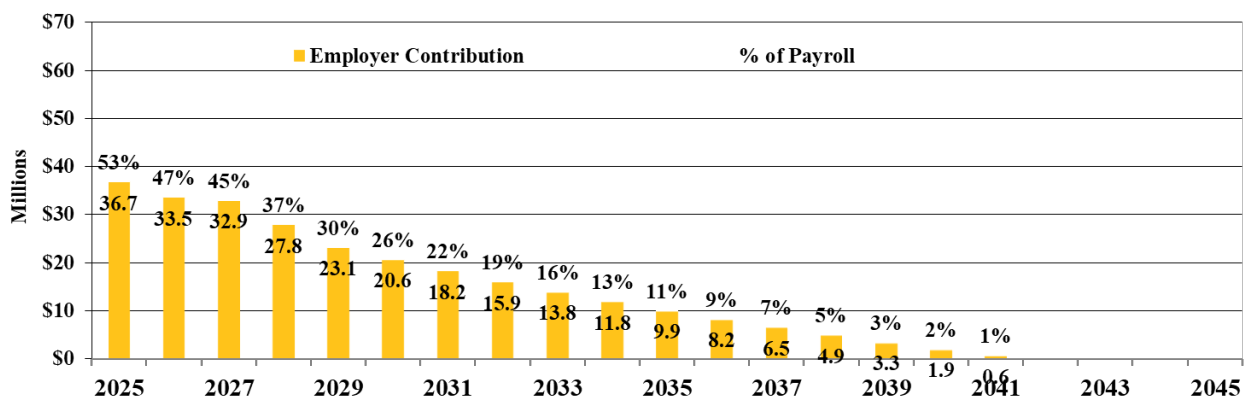
*Investment Risk* is the potential for investment returns to be different than expected. Lower investment returns than anticipated will increase the Unfunded Actuarial Liability necessitating higher contributions in the future unless there are other gains that offset these investment losses. The potential volatility of future investment returns is determined by the System’s asset allocation, and the affordability of the investment risk is determined by the amount of assets invested relative to the size of the plan sponsor or other contribution base.

For stress testing purposes, we include two scenarios to illustrate the impact actual investment returns may have on future funded status and contribution amounts compared to the baseline scenario presented at the end of Section I of this report. The two scenarios are (1) optimistic returns of 8.50% each year and (2) pessimistic returns of 5.50% each year.

As with the baseline, we present the implications of the October 1, 2024 valuation results in terms of the projected employer contributions, and projected System’s funded status (ratio of assets over liabilities).

**Optimistic Returns of 8.50%**

If the System earns 1.50% greater than the assumed rate in each year of the projection, the actuarially determined contribution rate will continuously decrease and no longer be needed as of 2042 due to the asset surplus that is built up. The funded ratio is projected to increase to 100% by 2032 and 116% by the end of the 20-year projection period.

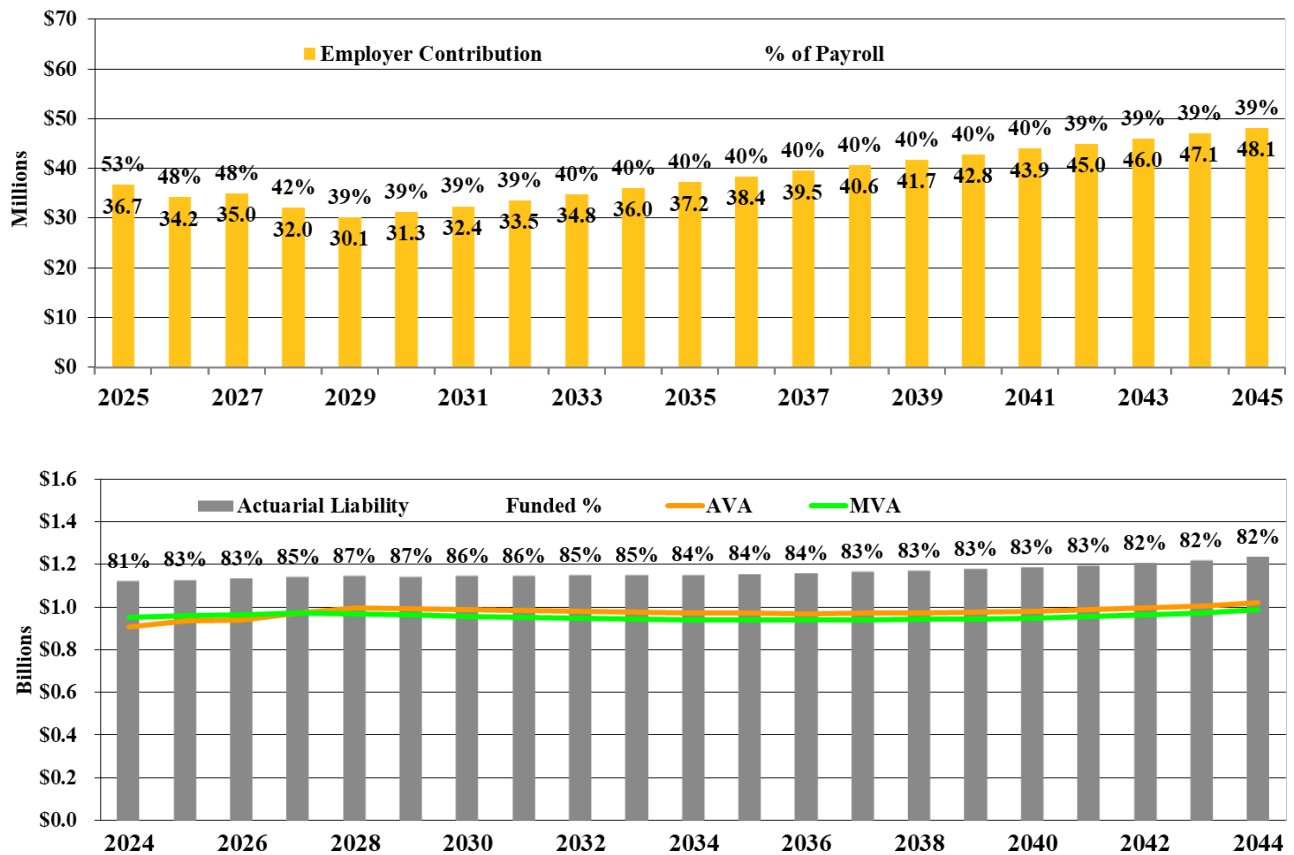


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**Pessimistic Returns of 5.50%**

If the System earns 1.50% less than the assumed rate in each year of the projection, the actuarially determined contribution rate will decrease to around 39% of projected payroll by 2029 and remain around that level through the end of the projection period. The funded ratio will rise to 87% by 2028 as deferred gains are recognized but then decline to 82% by the end of the 20-year projection period as investment losses hinder the asset growth of the System, despite the continuously increasing dollar amount of contributions going into the System.

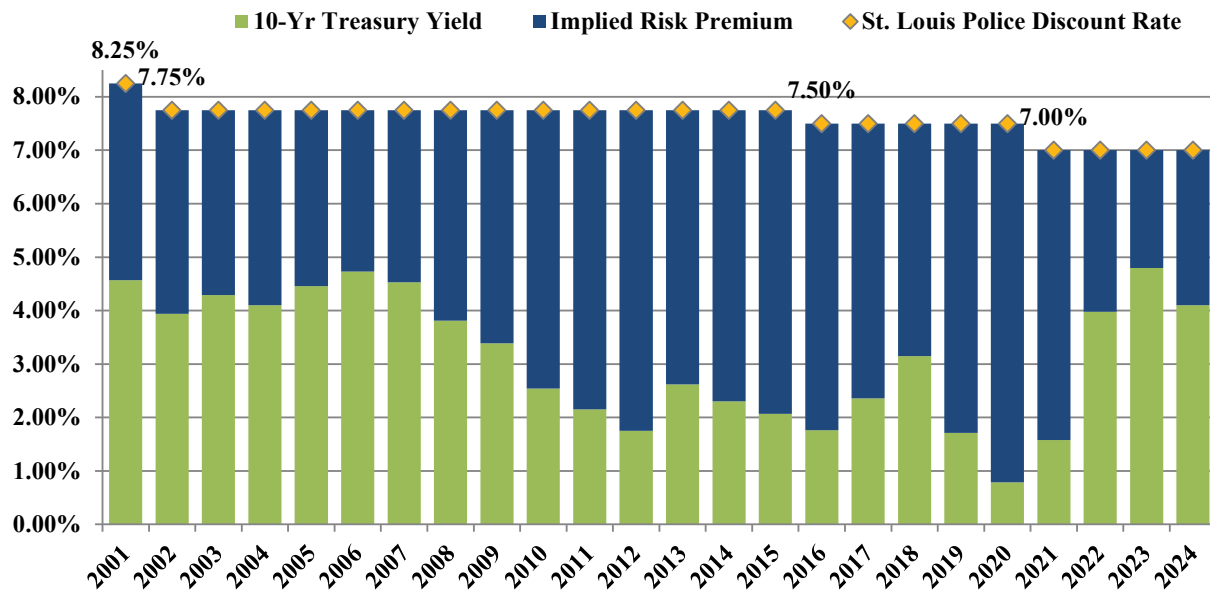


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SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

*Interest rate risk* is the potential for interest rates to be different than expected. For public plans, short-term fluctuations in interest rates have little or no effect because 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 System's assumed rate of return. The difference is a simple measure of the amount of investment risk taken. As interest rates generally declined through 2020, 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. Over the past four years, 10-year Treasury bond yields have increased from 0.79% as of October 2020, to 4.80% in October 2023. The bond yields have since decreased slightly to 4.10% as of October 2024. If these higher Treasury bond yields persist, plans may be able to achieve the expected returns with less exposure to investment risk. However, if these higher Treasury bond yields prove temporary, plans could quickly find the pressure returning to further reduce discount rates or increase their exposure to investment risk.

Historical Implied Risk Premium



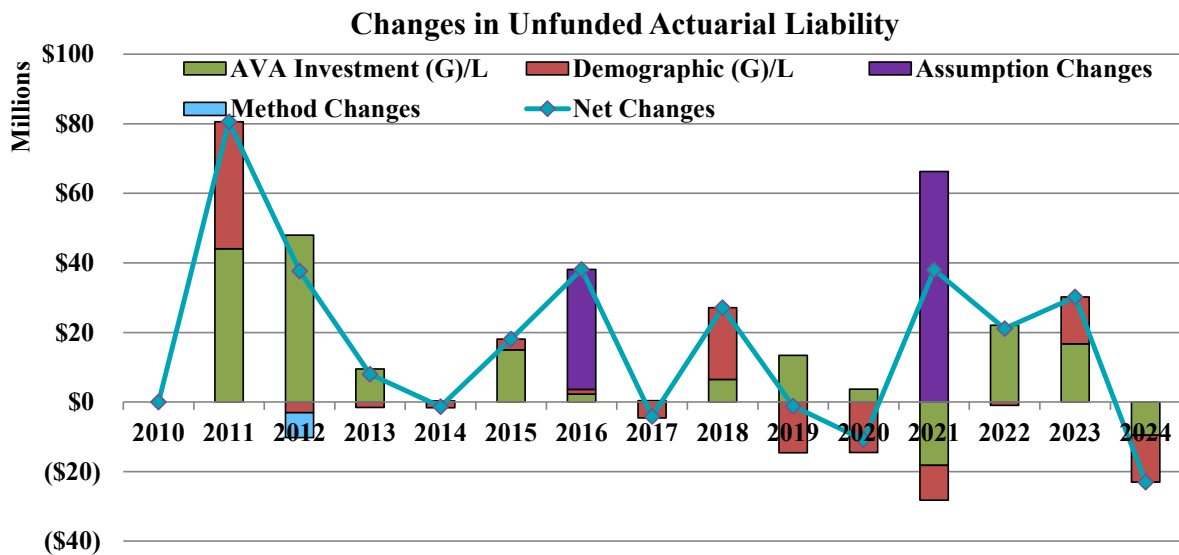
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**SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK**

*Longevity and other demographic risks* are the potentials for demographic experience to be different than expected. One example is if the population of working officers decreases, the payroll will not grow as expected. Generally, longevity and other demographic risks emerge slowly over time and are often dwarfed by other changes, particularly those due to investment returns.

*Assumption change risk* is the potential for the environment to change such that future valuation assumptions are different than the current assumptions. Increases in UAL from assumption changes were related to experience studies in which demographic and economic assumptions were adjusted. Assumption change risk is an extension of the other risks identified, but rather than capturing the risk as it is experienced, it captures the cost of recognizing a change in environment when the current assumptions have become outdated. This is demonstrated in the chart below in 2016 and 2021 when updated assumptions were adopted.

The chart below shows how many of the risks mentioned impact the financial status of the System. While a lot of attention is given to the demographic assumptions, which have recently seen larger fluctuations, the primary force on the health of the System will be the return on investments earned each year.





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**Low-Default-Risk Obligation Measure (LDROM)**

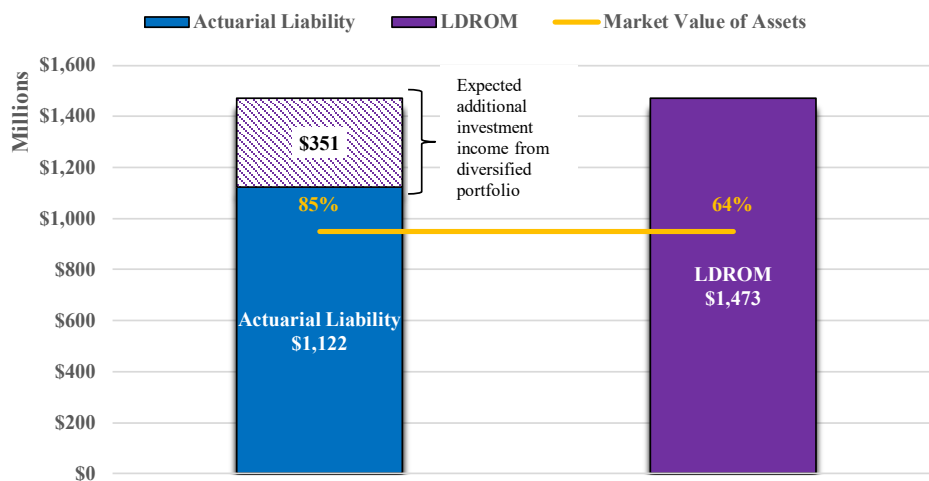
The System invests in a diversified portfolio to achieve the best possible return at an acceptable level of risk. The lowest investment risk portfolio for a pension plan would be composed entirely of low-default-risk fixed income securities whose cash flows match the cash flows needs of the System. However, such a portfolio would have a lower expected rate of return (4.62% as of September 30, 2024) than the diversified portfolio (7.00%). Low-Default-Risk Obligation Measure (LDROM) represents what the Entry Age Actuarial Liability would be if the System's assets were invested in such a portfolio. As of September 30, 2024, the LDROM is \$1.47 billion<sup>4</sup> compared to the Entry Age Actuarial Liability of \$1.12 billion for the System in total. The \$0.35 billion difference can be viewed as the expected savings from taking on the investment risk of the diversified portfolio. Alternatively, it can be viewed as the potential cost of eliminating the investment risk of the non-fixed income allocations of the diversified portfolio.

If the System were to invest in the LDROM portfolio, the funded ratios would decrease, and contribution requirements would increase. The security of the System's pension benefits relies on the current assets, future investment earnings, and the ability and willingness of the Plan Sponsor to make future contributions. If the System were to invest in the LDROM portfolio, it would not change the current assets, but it would likely reduce future investment earnings. However, the volatility of future investment earnings and future contributions would be significantly reduced.

The chart below compares assets to:

- The Actuarial Liability using the expected rate of return of 7.00%, and
- The Low-Default-Risk Obligation Measure based on an expected return of 4.62%.

The Entry Age Actuarial Liability is shown as the blue bar, the LDROM as the purple bar and the Market Value of Assets as the gold line. The resulting funded ratio is shown in the bars. The difference between these liabilities represents the expected savings from investing in a diversified portfolio.



<sup>4</sup> Based on a discount rate equal to the September 30, 2024 FTSE Pension Liability Curve of 4.62% (determined as the single equivalent rate by matching Plan cashflows to the yield curve), and all other assumptions and methods as used to calculate the Entry Age Actuarial Liability.

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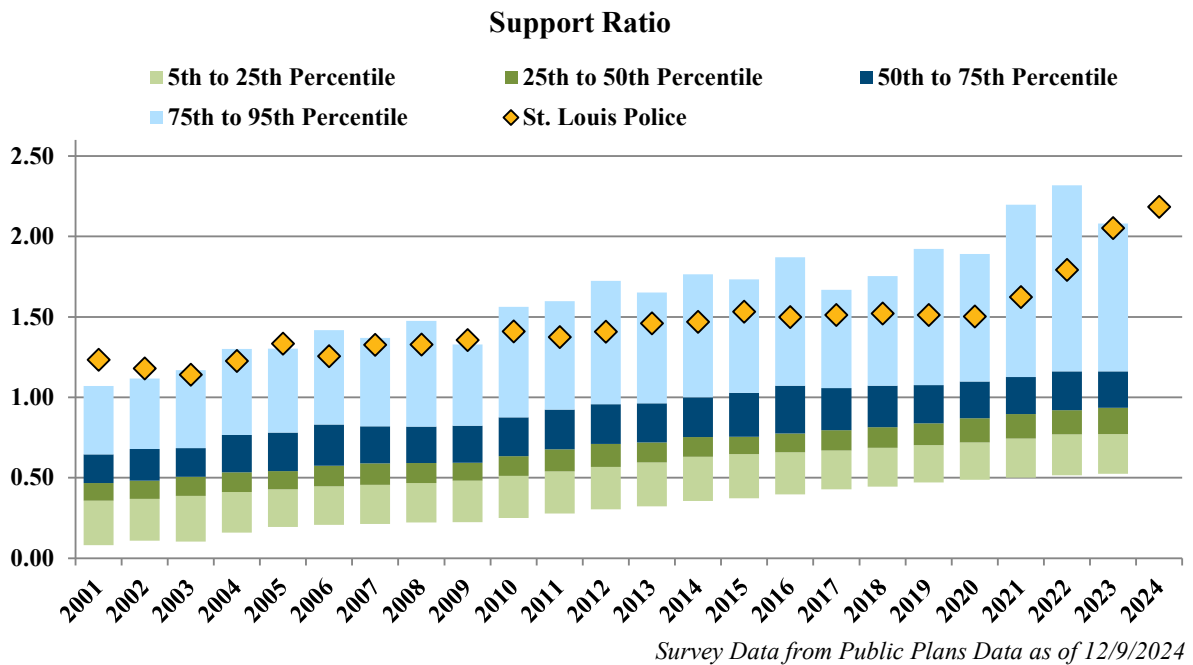
Plan Maturity Measures

The future financial condition of a mature pension plan is more sensitive to each of the risks identified above than a less mature plan. It is useful to understand the maturity of the System compared to other plans and how maturity has changed over time.

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

Inactives per Active (Support Ratio)

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.



The graph above shows the distribution from the 5<sup>th</sup> to 95<sup>th</sup> percentile of support ratios for the plans in the Public Plans Database. The yellow diamond shows that on this measure, The Police Retirement System of St. Louis is in the upper quartile when compared to the other plans in the database.

Whereas the support ratios for the plan database as a whole have increased over the period as the plans mature, the System's support ratio has increased quickly over the last few years, and remains among the 75<sup>th</sup> to 95<sup>th</sup> percentile of the Public Plans Database, meaning that the System is more mature than the average plan in the Database.

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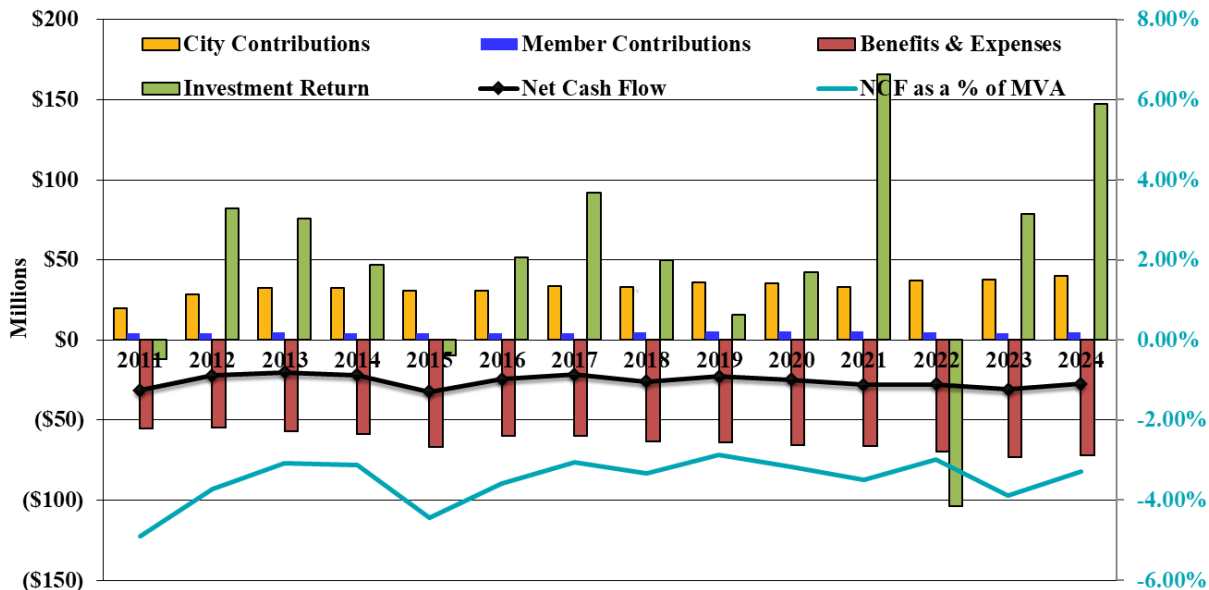
**SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK**

**Net Cash Flow**

The net cash flow of the plan as a percentage of the beginning of year assets indicates the sensitivity of the plan to short-term investment returns. Net cash flow is equal to contributions less benefit payments and administrative expenses. Net cash flow is an important maturity measure, as it impacts the ability to have funds available to meet benefit payments without having to make difficult investment decisions, especially during volatile markets. Mature plans can have large amounts of benefit payments compared to contributions, particularly if they are well funded, because investment returns will keep assets growing. This has been the situation for the System, which has had a consistent small negative cash flow for the last ten plus years but has still had growth in assets due to generally positive investment returns.

When a plan has a large negative net cash flow, investment losses in the short-term are compounded by the net withdrawal from the plan leaving a smaller asset base to try to recover from the investment losses. Large negative cash flows can also create liquidity issues.

The following chart shows the City contributions (yellow bars) and member contributions (blue bars) coming into the System, compared to the benefits and expenses (red bars). As a result of increasing City and member contributions, the net cash flow (black line) remained generally steady from 2011 to 2024 between negative \$20 and \$30 million. The System thus relies on investment returns to make up the difference. As shown here, the actual investment returns (green bars) have fluctuated over time. Finally, the net cash flow as a percent of assets is shown by the teal line (right-hand axis).



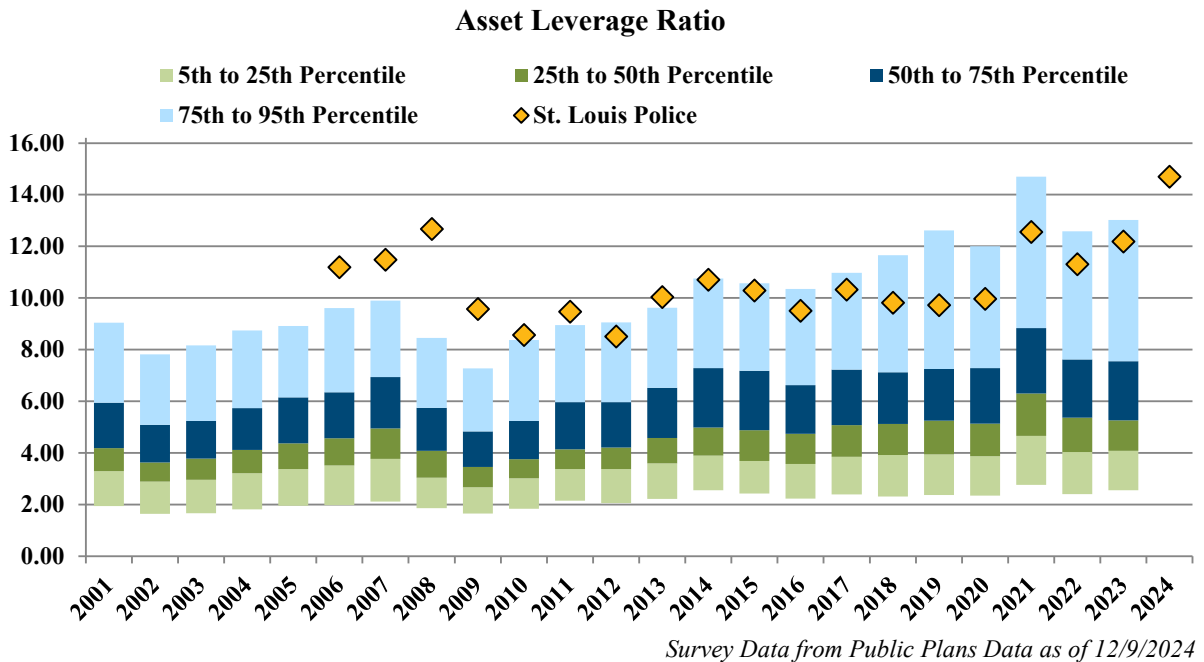
The System is currently at a negative net cash flow of around 3% per year, which means that assets need to earn at least this amount in order to increase from year to year. Negative net cash flow remains an important metric to monitor as the System continues to mature.

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SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

Leverage Ratios

Leverage or volatility ratios measure the size of the System compared to its revenue base more directly. The Market Value of Asset (MVA) leverage ratio compares the MVA of the system to the payroll, which is the base for generating contributions. A MVA leverage ratio of 15, for example, means that if the System experiences a 10% loss on assets compared to the expected return, the loss would be equivalent to 150% of payroll. The same investment loss for a system with an asset leverage ratio of 5 would be equivalent to 50% of payroll.



The chart above shows the distribution from the 5<sup>th</sup> to 95<sup>th</sup> percentile of asset leverage ratios for the plans in the Public Plans Database. The System's asset leverage ratio, as shown by the yellow diamond, has frequently exceeded the 95<sup>th</sup> percentile in comparison with other plans in the Database. This means unexpected investment returns will have a larger impact on contributions for the System than it would for plans with a lower ratio. The significant increase in the PRS ratio for 2021 was due to the large increase in the market value of assets combined with a decrease in valuation compensation which has continued through 2024.

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**SECTION III – ASSETS**

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

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

- **Disclosure** of the System's assets as of October 1, 2023 and October 1, 2024,
- Statement of the **changes** in market values during the year,
- Development of the **Actuarial Value of Assets**, and
- An estimate of **investment return**.

**Disclosure**

There are two types of asset values disclosed in this valuation, the Market Value of Assets and the Actuarial Value of Assets. The market value represents a "snapshot" or "cash-out" value that provides the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace. As a result, the Actuarial Value of Assets that reflect smoothing of annual investment returns is more suitable for determining relatively stable contribution rates.

Table III-1 below discloses and compares each asset value as of September 30, 2023 and 2024.

Table III-1 Statement of Assets at Market Value as of September 30,			
Assets	2023	2024	% Change
Cash	\$ 9,230,595	\$ 9,976,961	8.09%
Money market funds	17,740,544	10,890,306	(38.61%)
Collective equity investment funds	267,518,424	347,592,042	29.93%
Corporate stocks	114,453,903	118,524,357	3.56%
Real estate securities fund	58,282,534	53,819,394	(7.66%)
Collective fixed income investment funds	65,171,280	57,178,212	(12.26%)
Corporate bonds	47,727,849	59,474,367	24.61%
Government securities	20,810,590	26,003,528	24.95%
Mortgage backed securities	26,197,570	42,934,453	63.89%
Hedge funds	20,037,118	22,484,374	12.21%
Partnership interest	167,491,968	179,486,765	7.16%
Investment property	1,036,400	1,061,200	2.39%
Receivables	22,051,978	23,342,216	5.85%
Capital assets, net of depreciation	47,369	32,330	(31.75%)
Misc. Liabilities	(5,244,724)	(2,903,576)	(44.64%)
Market Value of Assets	\$ 832,553,398	\$ 949,896,929	14.09%

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**SECTION III – ASSETS**

**Changes in Market Value**

Table III-2 below shows the components of change between the Market Value of Assets as of September 30, 2023 and September 30, 2024.

<b>Table III-2 Changes in Market Values</b>		
<b>Value of assets --September 30, 2023</b>		<b>\$ 832,553,398</b>
<b><u>Additions</u></b>		
Payments from Members	\$ 4,930,601	
Employer Contributions	40,188,941	
Interest and Dividends	11,003,247	
Investment Return	<u>143,599,256</u>	
<b>Total Additions</b>	<b>199,722,045</b>	
<b><u>Deductions</u></b>		
Investment Expenses	\$ 3,828,019	
Benefit Payments	72,251,866	
Refunds of Employee Contributions	4,597,614	
Administrative Expenses	<u>1,701,015</u>	
<b>Total Deductions</b>	<b>82,378,514</b>	
<b>Value of assets --September 30, 2024</b>		<b>\$ 949,896,929</b>

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**SECTION III – ASSETS**

**Actuarial Value of Assets**

The next table, Table III-3, shows how the Actuarial Value of Assets is developed. The Actuarial Value of Assets method was initialized at market value as of October 1, 2005.

The Actuarial Value of Assets represents a “smoothed” value developed by the actuary to reduce, or eliminate, volatile results which could develop from short-term fluctuations in the Market Value of Assets. For this System, the actuarial value has been calculated by taking the Market Value of Assets less 80% of the investment gain/(loss) during the preceding year, less 60% of the investment gain/(loss) during the second preceding year, less 40% of the investment gain/(loss) during the third preceding year, and less 20% of the investment gain/(loss) in the fourth preceding year. If the Actuarial Value of Assets is less than 80% or more than 120% of the market value, an adjustment is made to the actuarial value to bring the value within this corridor. The table below illustrates the calculation of the Actuarial Value of Assets for the October 1, 2024 valuation.

Table III-3 Development of Actuarial Value of Assets		
1. Actuarial Value of Assets at September 30, 2023		\$ 871,099,654
2. Employer contributions		40,188,941
3. Payments from members		4,930,601
4. Benefit payments and administrative expenses		(78,550,495)
5. Expected return at 7.00%		<u>58,205,083</u>
6. Expected value at September 30, 2024		\$ 895,873,784
7. Actual return on assets at September 30, 2024		<u>150,774,484</u>
8. Investment gain / (loss) [7. – 5.]		\$ 92,569,401
	<b>Total</b>	<b>Excluded Portion</b>
Exclude 0% of 2020 gain/(loss)	\$ (13,761,834)	\$ 0
Exclude 20% of 2021 gain/(loss)	107,934,901	21,586,980
Exclude 40% of 2022 gain/(loss)	(160,746,735)	(64,298,694)
Exclude 60% of 2023 gain/(loss)	21,850,240	13,110,144
Exclude 80% of 2024 gain/(loss)	92,569,401	<u>74,055,521</u>
9. Total excluded gain/(loss) for AVA calculation		\$ 44,453,951
10. Market Value of Assets at September 30, 2024		\$ 949,896,929
11. Actuarial Value of Assets at September 30, 2024 [10. – 9.]		\$ 905,442,978
12. Actuarial Value of Assets gain / (loss) [11. – 6.]		\$ 9,569,194

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**SECTION III – ASSETS**

**Investment Performance**

The Market Value of Assets (MVA) returned 18.48% during the plan year ending September 30, 2024, which is greater than the assumed 7.00% return. A return of 7.93% was experienced on the Actuarial Value of Assets (AVA) due to the continued recognition of the 2022 investment loss, but still resulting in an actuarial gain for the year. Below we show additional historical returns.

Table III-4 Historical Returns		
	MVA	AVA
2008	-14.10%	6.30%
2009	0.80%	4.30%
2010	11.70%	3.50%
2011	-1.87%	2.00%
2012	14.34%	0.13%
2013	12.02%	5.54%
2014	6.93%	7.17%
2015	-1.17%	5.41%
2016	7.89%	7.24%
2017	13.43%	7.08%
2018	6.71%	6.29%
2019	2.24%	5.56%
2020	5.69%	6.84%
2021	21.40%	9.57%
2022	-11.24%	4.23%
2023	10.33%	4.85%
2024	18.48%	7.93%



**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**SECTION IV – LIABILITIES**

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

- **Disclosure** of the System’s liabilities as of October 1, 2023 and October 1, 2024 and
- Statement of **changes** in these liabilities during the year.

**Disclosure**

Several types of measures of liability are calculated and presented in this report. Each type is distinguished by the purpose for which the measure is used.

- **Present Value of Future Benefits:** This measure represents the amount of money needed today to fully fund all benefits of the System both earned as of the valuation date and those expected to be earned in the future by current plan participants, under the current plan provisions, if all assumptions are met. This measure of liability is used under the Aggregate Cost Method in the calculation of the required contribution.
- **Entry Age Normal Actuarial Liability:** Calculated as of the valuation date as the present value of benefits allocated to service prior to that date. This liability is used for disclosure of the unfunded actuarial liability in financial statements.

These liabilities are for funding purposes and are not appropriate for measuring the cost of settling plan liabilities by purchasing annuities or paying lump sums.

Table IV-1, which follows, discloses each of these measures of liability for the current and prior valuations.

<b>Table IV-1 Measures of Liability</b>		
	<b>October 1, 2023</b>	<b>October 1, 2024</b>
<b><u>Present Value of Future Benefits</u></b>		
Active Participants	\$ 321,155,652	\$ 324,360,223
DROP and Re-entered Participants	155,914,198	140,436,478
Retired, Disabled, and Beneficiaries	<u>741,522,893</u>	<u>746,272,491</u>
<b>Present Value of Future Benefits (PVB)</b>	<b>\$ 1,218,592,744</b>	<b>\$ 1,211,069,192</b>
<b><u>Entry Age Normal Actuarial Liability</u></b>		
Active Participants	\$ 224,387,052	\$ 234,821,096
DROP and Re-entered Participants	155,914,198	140,436,478
Retired, Disabled, and Beneficiaries	<u>741,522,893</u>	<u>746,272,491</u>
<b>Entry Age Normal Actuarial Liability (EAN AL)</b>	<b>\$ 1,121,824,144</b>	<b>\$ 1,121,530,065</b>

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**SECTION IV – LIABILITIES**

**Changes in Entry Age Normal (EAN) Actuarial Liability**

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

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

The unfunded EAN actuarial liability will change because of all of the above and also due to changes in plan assets resulting from:

- Employer contributions
- Investment earnings
- Changes to the method used to measure plan assets

In each valuation, we report on those elements of change that are of particular significance, potentially affecting the long-term financial outlook of the System. Below, we present key changes in liabilities since the last valuation.

In the table that follows, we show the components of change in the actuarial liability between October 1, 2023 and October 1, 2024.

Table IV-2	
	EAN Actuarial Liability
Liabilities as of October 1, 2023	\$ 1,121,824,144
Liabilities as of October 1, 2024	1,121,530,065
Liability Increase/(Decrease)	(294,079)
Change Due to:	
Plan Amendments	\$ 0
Assumption Changes	0
Experience (Gain)/Loss	(13,424,876)
Benefits Accumulated and Other Sources	13,130,797

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**SECTION IV – LIABILITIES**

In addition, we break down the change in actuarial liability further by showing the total actuarial (gain)/loss by source, as shown in Table IV-3 below.

<b>Table IV-3 (Gain)/Loss by Source as of October 1, 2024</b>	
Inactive mortality more than expected	\$ (1,185,365)
New entrants	312,489
Salary increase less than expected for continuing actives	(6,426,601)
COLA increase greater than expected	153,804
Actives retiring later than expected	(1,780,334)
Actives terminating earlier than expected	(1,594,604)
Active mortality/disability	(1,585,269)
Active members entering DROP	(253,688)
Change to retiree DROP balances	(4,943,092)
Future benefit for DROP participants more than expected	106,897
Benefit payments more than expected	3,663,597
Miscellaneous changes	<u>883,401</u>
<b>Total Liability (Gain)/Loss</b>	<b>\$ (13,424,876)</b>

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**SECTION V – CONTRIBUTIONS**

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to properly maintain the funding status of the system. Typically, the actuarial process will use a funding technique that will result in a pattern of contributions that is both stable and predictable.

For this system, the funding method employed is the **Aggregate Actuarial Cost Method**. This method is known as a spread-gain method. The chief characteristic of a spread-gain method is that the difference between the Actuarial Value of Assets and the present value of total benefit obligations is funded over the future working lifetime of current participants in the form of a continually resetting normal cost.

Table V-1 below presents and compares the employer contribution rates for the System for this valuation and the prior one. The Funding Policy Contribution is the end of year value of the calculated Normal Cost.

<b>Table V-1</b> <b>Employer Contribution Rate</b>		
	<b>October 1, 2023</b>	<b>October 1, 2024</b>
1. Present Value of Future Benefits	\$ 1,218,592,744	\$ 1,211,069,192
2. Actuarial Value of Assets (AVA)	\$ 871,099,654	\$ 905,442,978
3. Present Value of Future Member Contributions	<u>34,420,909</u>	<u>31,443,644</u>
4. Total Assets [2. + 3.]	\$ 905,520,563	\$ 936,886,622
5. Present Value of Future Normal Contributions [1. – 4.]	\$ 313,072,181	\$ 274,182,570
6. Present Value of Future Salaries	\$ 589,718,819	\$ 543,974,058
7. Normal Cost Rate [5. ÷ 6.]	53.09%	50.40%
8. Expected Salaries of Active Participants	\$ 68,307,272	\$ 64,644,855
9. Normal Cost [7. × 8.]	36,264,331	32,581,007
10. Expected Administrative Expenses	\$ 1,340,000	\$ 1,744,000
11. Funding Policy Contribution Requirement [(9. + 10.) + interest]	\$ 40,188,941	\$ 36,665,685

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**SECTION VI – FINANCIAL STATEMENT INFORMATION**

The Government Finance Officers Association (GFOA) maintains a checklist of items to be included in a public retirement system's Annual Comprehensive Financial Report (ACFR) in order to receive recognition for excellence in financial reporting. Although the Police Retirement System does not issue an ACFR under GFOA guidelines, we have included certain schedules in this section for possible inclusion within the System's audited financial statements.

Table VI-1 is a history of gains and losses in actuarial liability, Table VI-2 shows the funding progress of EAN actuarial liability using the Actuarial Value of Assets, and Table VI-3 shows the funding progress using the Market Value of Assets.

<b>Table VI-1</b> <b>Analysis of Financial Experience</b> <b>Gain and Loss in Unfunded Actuarial Liability During Years Ended September 30</b> <b>Resulting from Differences Between Assumed Experience and Actual Experience</b> <i>Gain (or Loss) for Year ending September 30,</i>						
<b>Type of Activity</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
Investment Income	\$(13,454,291)	\$ (3,684,697)	\$ 18,223,488	\$(22,108,386)	\$(16,746,395)	\$ 9,569,194
Combined Liability Experience	<u>14,608,527</u>	<u>14,526,008</u>	<u>9,998,562</u>	<u>994,924</u>	<u>(13,449,515)</u>	<u>13,424,876</u>
Gain (or Loss) During Year from Financial Experience	\$ 1,154,236	\$ 10,841,311	\$ 28,222,050	\$(21,113,462)	\$(30,195,910)	\$ 22,994,070
Non-Recurring Gain (or Loss) Items	<u>0</u>	<u>0</u>	<u>(66,249,565)</u>	<u>0</u>	<u>0</u>	<u>0</u>
Composite Gain (or Loss) During Year	\$ 1,154,236	\$ 10,841,311	\$(38,027,515)	\$(21,113,462)	\$(30,195,910)	\$ 22,994,070

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
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**SECTION VI – FINANCIAL STATEMENT INFORMATION**

<b>Table VI-2</b> <b>Schedule of Funding Progress under Entry Age Normal Method – AVA</b>						
<b>Valuation Date October 1,</b>	<b>Actuarial Value of Assets</b>	<b>Actuarial Liability (AL) Entry Age</b>	<b>Unfunded AL (UAL)</b>	<b>Funded Ratio</b>	<b>Covered Payroll<sup>1</sup></b>	<b>UAL as a Percent of Covered Payroll [(b) – (a)] / (c)</b>
	<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(a) / (b)</b>	<b>(c)</b>	
2006	\$709,290,911	\$ 754,021,412	\$ 44,730,501	94.1%	\$ 62,178,772	71.9%
2007	752,501,900	775,668,726	23,166,826	97.0%	63,834,814	36.3%
2008	752,273,226	803,417,002	51,143,776	93.6%	68,572,905	74.6%
2009	727,139,060	799,587,050	72,447,990	90.9%	71,095,081	101.9%
2010	718,136,742	814,926,868	96,790,126	88.1%	67,593,989	143.2%
2011	695,421,570	855,617,994	160,196,424	81.3%	70,076,650	228.6%
2012	674,080,072	864,762,285	190,682,213	77.9%	70,327,982	271.1%
2013	690,731,190	879,906,781	189,175,591	78.5%	68,073,148	277.9%
2014	717,381,498	895,655,967	178,274,469	80.1%	66,555,276	267.9%
2015	720,811,717	901,758,011	180,946,294	79.9%	66,724,796	271.2%
2016	744,511,885	954,458,462	209,946,577	78.0%	74,596,522	281.4%
2017	771,337,887	969,815,612	198,477,725	79.5%	75,188,904	264.0%
2018	788,583,290	1,006,338,776	217,755,486	78.4%	81,052,498	268.7%
2019	802,729,613	1,011,520,173	208,790,560	79.4%	80,666,728	258.8%
2020	826,704,556	1,016,164,499	189,459,943	81.4%	80,147,552	236.4%
2021	870,155,717	1,090,963,859	220,808,142	79.8%	74,159,451	297.7%
2022	869,557,531	1,100,695,002	231,137,471	79.0%	70,046,987	330.0%
2023	871,099,654	1,121,824,144	250,724,490	77.7%	68,307,272	367.1%
2024	905,442,978	1,121,530,065	216,087,087	80.7%	64,644,855	334.3%

<sup>1</sup> Covered payroll is the total compensation expected to be paid during the valuation year.

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**SECTION VI – FINANCIAL STATEMENT INFORMATION**

**Table VI-3**  
**Schedule of Funding Progress under Entry Age Normal Method – MVA**

Valuation Date October 1,	Market Value of Assets (a)	Actuarial Liability (AL) Entry Age (b)	Unfunded AL (UAL) (b) – (a)	Funded Ratio (a) / (b)	Covered Payroll <sup>1</sup> (c)	UAL as a Percent of Covered Payroll [(b) – (a)] / (c)
2006	\$ 741,695,643	\$ 754,021,412	\$ 12,325,769	98.4%	\$ 62,178,772	19.8%
2007	808,886,286	775,668,726	(33,217,560)	104.3%	63,834,814	-52.0%
2008	656,903,659	803,417,002	146,513,343	81.8%	68,572,905	213.7%
2009	608,956,042	799,587,050	190,631,008	76.2%	71,095,081	268.1%
2010	640,405,653	814,926,868	174,521,215	78.6%	67,593,989	258.2%
2011	596,324,758	855,617,994	259,293,236	69.7%	70,076,650	370.0%
2012	653,862,993	864,762,285	210,899,292	75.6%	70,327,982	299.9%
2013	706,276,668	879,906,781	173,630,113	80.3%	68,073,148	255.1%
2014	729,065,355	895,655,967	166,590,612	81.4%	66,555,276	250.3%
2015	684,894,768	901,758,011	216,863,243	76.0%	66,724,796	325.0%
2016	709,237,644	954,458,462	245,220,818	74.3%	74,596,522	328.7%
2017	776,579,478	969,815,612	193,236,134	80.1%	75,188,904	257.0%
2018	796,160,410	1,006,338,776	210,178,366	79.1%	81,052,498	259.3%
2019	784,752,472	1,011,520,173	226,767,701	77.6%	80,666,728	281.1%
2020	798,650,278	1,016,164,499	217,514,221	78.6%	80,147,552	271.4%
2021	931,812,852	1,090,963,859	159,151,007	85.4%	74,159,451	214.6%
2022	792,414,640	1,100,695,002	308,280,362	72.0%	70,046,987	440.1%
2023	832,553,398	1,121,824,144	289,270,746	74.2%	68,307,272	423.5%
2024	949,896,929	1,121,530,065	171,633,136	84.7%	64,644,855	265.5%

<sup>1</sup> Covered payroll is the total compensation expected to be paid during the valuation year.

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**APPENDIX A – MEMBERSHIP INFORMATION**

Participant Data Reconciliation					
	Actives	DROP	Retirees	Surviving Spouses and Children	Total
<b>Participants as of October 1, 2023</b>	<b>933</b>	<b>29</b>	<b>1,465</b>	<b>509</b>	<b>2,936</b>
New Entrants	49				49
Return to Active					0
Nonvested terminations	(73)				(73)
Retired	(28)	(6)	34		0
Entered into DROP	(1)	1			0
Re-Entry from DROP	5	(5)			0
Deaths without beneficiary			(14)	(25)	(39)
Deaths with Beneficiary			(39)	48	9
Disabled	(1)		1		0
Benefits Expired				(9)	(9)
Data Correction			2		2
Net Change	(49)	(10)	(16)	14	(61)
<b>Participants as of October 1, 2024</b>	<b>884</b>	<b>19</b>	<b>1,449</b>	<b>523</b>	<b>2,875</b>



**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
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**APPENDIX A – MEMBERSHIP INFORMATION**

Distribution of Active Participants									
Age	Years of Service								Total
	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 34	35 +	
Under 20									<b>0</b>
20 – 24	29 \$50,432								<b>29</b> <b>\$50,432</b>
25 – 29	73 \$56,135	27 \$63,553							<b>100</b> <b>\$58,138</b>
30 – 34	46 \$57,220	67 \$65,577	23 \$73,952						<b>136</b> <b>\$64,167</b>
35 – 39	22 \$57,037	30 \$66,025	53 \$77,072	30 \$80,391	1 \$76,388				<b>136</b> <b>\$72,121</b>
40 – 44	5 \$59,352	16 \$66,929	24 \$73,991	105 \$80,902	10 \$84,350	1 \$75,972			<b>161</b> <b>\$77,997</b>
45 – 49	2 \$65,191	9 \$67,678	9 \$75,985	44 \$79,685	42 \$85,682	2 \$93,483			<b>108</b> <b>\$80,695</b>
50 – 54	1 \$66,773	4 \$69,505	3 \$75,517	16 \$82,877	33 \$85,432	41 \$88,914	1 \$91,728		<b>99</b> <b>\$85,392</b>
55 – 59				4 \$84,663	14 \$85,066	45 \$90,168	14 \$90,341	1 \$80,496	<b>78</b> <b>\$88,877</b>
60 – 64	1 \$179,971				2 \$80,287	25 \$90,534	9 \$88,904		<b>37</b> <b>\$92,001</b>
65 +									<b>0</b>
<b>Total</b>	<b>179</b> <b>\$56,543</b>	<b>153</b> <b>\$65,675</b>	<b>112</b> <b>\$75,642</b>	<b>199</b> <b>\$80,791</b>	<b>102</b> <b>\$85,189</b>	<b>114</b> <b>\$89,731</b>	<b>24</b> <b>\$89,860</b>	<b>1</b> <b>\$80,496</b>	<b>884</b> <b>\$74,519</b>

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
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**APPENDIX A – MEMBERSHIP INFORMATION**

Statistics for Active Participants

	Count	Age	Average Service	Average Compensation
As of October 1, 2024				
Continuing	832	42.5	14.9	\$ 76,053
New	52	29.8	1.4	49,976
Total	884	41.8	14.1	74,519
As of October 1, 2023				
Continuing	898	41.4	13.9	\$ 74,429
New	35	30.9	1.0	56,203
Total	933	41.0	13.4	73,745

Statistics for DROP Participants

	Count	Age	Service	Average Compensation	DROP Account Balance	Monthly Benefit Amount
As of October 1, 2024	19	52.7	23.1	\$ 88,019	\$111,605	\$ 3,278
As of October 1, 2023	29	52.2	23.84	\$ 88,642	\$110,621	\$ 3,417

Statistics for Inactive Participants

	Count	Total Monthly Benefits	Average Monthly Benefits
As of October 1, 2024			
Service Retirees	1,285	\$4,206,832	\$ 3,274
Ordinary Disabilities	18	28,998	1,611
Accidental Disabilities	146	430,766	2,950
Surviving Spouses	471	769,345	1,633
Children	52	37,894	729
Total	1,972	\$5,473,835	\$ 2,776
As of October 1, 2023			
Service Retirees	1,301	\$4,143,551	\$ 3,185
Ordinary Disabilities	17	26,842	1,579
Accidental Disabilities	147	432,878	2,945
Surviving Spouses	453	727,926	1,607
Children	56	40,061	715
Total	1,974	\$5,371,258	\$ 2,721

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
**OCTOBER 1, 2024 ACTUARIAL VALUATION REPORT**

**APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS**

**A. Actuarial Assumptions**

**1. Mortality Rates**

Actives, Ordinary: Pub-2010 Safety Employee Below-Median Income Weighted mortality, projected fully generationally with Scale MP-2020

Actives, Accidental: 0.03% per year for all ages in addition to ordinary mortality

Healthy Retirees: Pub-2010 Safety Healthy Retiree Below-Median Income Weighted mortality, projected fully generationally with Scale MP-2020

Disabled Retirees: Pub-2010 Safety Disabled Retiree mortality, projected fully generationally with Scale MP-2020

Beneficiaries: Pub-2010 General Retiree Below-Median Income Weighted mortality, projected fully generationally with Scale MP-2020

**2. Disability**

10% of disabilities are assumed ordinary and the remaining 90% are accidental disabilities.

Age	Disability (%)
25	0.256
35	0.508
45	0.940
55	1.000
60	1.000

**3. Withdrawal Rates before Retirement**

Years of Service	Withdrawal (%)
0	13.0
1	12.0
2	11.0
3	10.0
4	9.0
5	8.0
6	7.0
7	6.0

Years of Service	Withdrawal (%)
8	5.0
9	4.0
10	3.5
11	3.0
12	2.5
13	2.0
14	1.5
15+	1.5

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**APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS**

**4. DROP Rates**

<b>Years of Service</b>	<b>DROP Rate (%)</b>
20	40
21	15
22-29	5
30	65

**5. Retirement Rates**

<b>Years of Service</b>	<b>Retirement Rate (%)</b>
20	14
21	10
22-23	8
24-26	4
27-29	2
30	35

DROP and retirement rates are additive, so at 30 years of service, the chance of either entering DROP or retirement is 100%. All members are assumed to retire by age 65.

**6. Marriage**

75% of male active members and 50% of female active members are assumed to be married. The male spouse is assumed to be three years older than the female.

**7. Children**

Each member is assumed to have 1.5 children at retirement, disability or death; the child is assumed to be 30 years younger than the member and to receive benefits until he or she is 20 years old.

**8. DROP Participation**

Members participate in DROP based on their completed service; see table for rates

- No disability is assumed while in DROP
- One-third of participants are expected to retire from DROP after four years
- One-third of participants are expected to re-enter the plan after five years in DROP, remain active in the plan for two years, and then retire
- One-third of participants are expected to re-enter the plan after five years in DROP, remain active in the plan for eight years, and then retire

**9. Special Advisor and Consultant Benefits**

Assumed to be paid to all eligible members

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
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**APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS**

**10. Form of Payment**

There are no optional forms of payment; automatic survivor benefits are paid to all members.

**11. Investment Return**

7.00% compounded annually for funding purposes, net of investment expenses

**12. Salary Increases**

Wage inflation is assumed to be 3.0%. Individual salaries are expected to increase according to the following table, which includes wage inflation and promotion.

Service	Salary Increase (%)
0-9	6.25
10-19	3.50
20+	3.00

**13. Cost of Living Adjustments**

2.5% per year

**14. Administrative Expenses**

Prior year actual expenses increased by the assumed inflation rate (2.5%) rounded up to the nearest \$1,000.

**15. Interest on Member Contributions**

4% per year

**16. Rationale for Actuarial Assumptions**

The actuarial assumptions were adopted by the Board of Trustees based upon recommendations made in an actuarial experience study performed by Cheiron covering the years 2015 through 2020 subsequent to the October 1, 2020 valuation. The rationale for such changes is contained in the experience study report presented to the Board on June 23, 2021 and in a discount rate review presented to the Board on September 29, 2021.

**17. Changes in Actuarial Assumptions since last actuarial valuation**

None.

## **APPENDIX B – ACTUARIAL ASSUMPTIONS AND METHODS**

### **B. Actuarial Methods**

The actuarial methods include an actuarial cost method and an asset smoothing method described below. These methods, combined with reasonable assumptions, produce a Reasonable Actuarially Determined Contribution as defined in Actuarial Standard of Practice No. 4. The methods were 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 Value of Assets**

The Market Value of Assets less unrecognized returns in each of the last five years, but no earlier than October 1, 2005. Initial unrecognized return is equal to the difference between the actual market return and expected return on the Actuarial Value of Assets and is recognized over a five-year period. The actuarial value is further adjusted, if necessary, to be within 20% of the market value. The actuarial asset value was initialized at the market value as of October 1, 2005.

#### **2. Actuarial Cost Method**

For determining contributions, the cost method used in this valuation is the Aggregate Cost method. Under this method, the difference between the present value of future benefits and the Actuarial Value of Assets is allocated as a level percentage over the future salary of the participants.

There is no actuarial accrued liability with this method. For accounting purposes, the actuarial accrued liability is determined under the entry age normal method.

#### **3. Valuation Software**

Cheiron utilizes ProVal, an 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 examined the reasonableness of the input data and assumptions, reviewed sample calculations for accuracy, reconciled the actuarial gain loss, and find the aggregate results reasonable and appropriate. We are not aware of any material inconsistencies, unreasonable output resulting from the aggregation of assumptions, material limitations or known weaknesses that would affect this actuarial valuation.

Projections in this valuation were developed using P-scan, our proprietary tool for the intended purpose of developing projections. The projections shown in this report cover multiple individual scenarios and the variables are not necessarily correlated. We are not aware of any material inconsistencies, unreasonable output resulting from the aggregation of assumptions, material limitations or known weaknesses that would affect the projections shown in this report.

#### **4. Changes in Actuarial Methods since Last Valuation**

None.

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
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**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**1. Effective Date and Plan Year**

The Plan was established on October 1, 1929, under the provisions of what are now Sections 86.010 to 86.193 inclusive, R.S. Mo. 1969. The Alternative Police Retirement System of St. Louis was established on October 1, 1957, under the provisions of Sections 86.2000 to 86.366 inclusive, R.S. Mo. 1969.

**2. Participation**

All persons who become police officers in the City of St. Louis will become members as a condition of their employment.

**3. Employer Contributions**

The City makes annual contributions, which together with the contributions of the members, are sufficient to provide for the benefits payable by the System.

The City also contributes the amount needed, in addition to the existing assets of the former Police Pension Fund Association and Police Retirement System, to continue the benefits granted by the former system which were in force at the establishment of the new system and to pay certain additional pensions to surviving spouses of members who had belonged to the former systems and who were previously on the pension payroll of the former systems.

**4. Participant Contributions**

Members contribute at the rate of 7% of their compensation. The Board of Trustees shall annually determine the interest rate to be credited on members' contributions.

**5. Service Considered**

Creditable Service at retirement shall consist of service rendered by the member as a police officer since last becoming a member, plus any prior service certified on a prior service certificate. No service is included for periods that a member participates in DROP.

**6. Compensation Considered**

The annual salary that a member earns based on the member's rank or position as defined in the applicable salary matrix, plus additional compensation for academic work and shift differential. Earnable compensation shall not include overtime, standby time, court time, non-uniform time, or unused vacation time.

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**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**7. Average Annual Compensation**

The average earnable compensation of the member during the member's last two years of creditable service.

**8. Normal Retirement Age**

Effective August 1, 1979, a member may retire upon completion of 20 years of service, regardless of age, or upon attainment of age 55. Retirement is compulsory at age 65. Upon request of the Board of Police Commissioners, the Board of Trustees may permit a member to defer retirement up to one year at a time.

**9. Normal Retirement Benefit (Service Retirement Allowance)**

The monthly retirement allowance consists of 2% of the Average Annual Compensation for each year of service up to 25 years, plus 4% of such Average Annual Compensation for each additional year of service up to five additional years. Upon completion of at least 30 years of service, the monthly retirement allowance will be 75% of the Average Annual Compensation.

Allowances will be increased up to 3% annually. The annual increase is limited to the lesser of 3% or the increase in the Consumer Price Index City Average (CPI) for all urban consumers for the 12-month period ending in June (four months prior to the beginning of the Plan Year). Historical cumulative increases in the CPI in excess of the 3% annual limit may be added to the current year increase when necessary to bring the current year increase up to the 3% limit. Cumulative increases for retirees and surviving spouses cannot exceed 30%.

**10. Disability Benefit**

*Ordinary Causes*

Upon the occurrence of a disability due to causes that are not the result of an accident in the actual performance of duty, a member who has completed five years of Creditable Service is eligible to receive a retirement allowance.

In the event of ordinary disability before being eligible for service retirement, a member receives a retirement allowance of 90% of his accrued service retirement allowance. The minimum allowance payable is 25% of his Average Annual Compensation. An additional 15% of his Average Annual Compensation is paid for each unmarried dependent child under age 18. If disabled after eligibility for service retirement, the service retirement is still payable.

*Accident in the Actual Performance of Duty*

Upon the occurrence of disability due to causes resulting from an accident in the actual performance of duty, regardless of the age or length of service of the member, a member is eligible to receive a retirement allowance equal to 75% of his Average Annual Compensation. At the discretion of the Board of Trustees, if the member is unable to perform any work of any kind, he may receive an annual pension not to exceed his annual compensation at the date of disablement. In addition, an allowance may be granted to cover surgical, medical, and hospital expenses resulting from the accident.



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**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**11. Death Benefit**

*Ordinary Causes Prior to Retirement*

Upon the death of a member in service which is not the result of an accident in the actual performance of duty, a benefit is paid to the member's dependents.

The surviving spouse receives an annuity after the member's death of 40% of the Average Annual Compensation of the deceased member plus 15% additional for each unmarried dependent child under age 18. If no surviving spouse, the benefit is shared by the dependent children, but not more than one-half of the surviving spouse's benefit shall be paid for one child. If no surviving spouse or dependent children, accumulated member contributions are returned to the designated beneficiary.

*Accident in the Actual Performance of Duty Prior to Retirement*

Upon the death of a member as a result of an accident in the actual performance of duty, a benefit is paid to the member's dependents. The surviving spouse receives an annuity after the member's death of 75% of the Average Annual Compensation of the deceased member plus 15% additional for each unmarried dependent child under age 18. If no surviving spouse, the benefit is shared by the dependent children, but not more than one-half of the surviving spouse's benefit shall be paid for one child. If no surviving spouse or dependent child, an amount equal to the surviving spouse's benefit is paid to a dependent father or mother of a deceased member until remarriage or death.

*Death Benefit after Retirement*

Upon the death of a member retired from service, ordinary disability or accidental disability, the surviving spouse receives an annuity after the member's death of 40% of the deceased member's Average Annual Compensation plus an additional 15% for each unmarried dependent child under age 18. If there is no surviving spouse, the entire death benefit is shared by the dependent children, but one child may not be paid more than one-half of the surviving spouse's benefit. The surviving spouse of a service retiree will receive an increase of up to 3% annually, subject to the same conditions as the increases to service retirees.

If a member, retired because of the accidental disability, dies before receiving benefits for five years, the surviving spouse receives an additional pension of 10% of the deceased member's Average Annual Compensation.

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**12. Disabled Child Over Age 18**

Whenever benefits are provided for an unmarried dependent child under age 18, such child who was disabled prior to age 18 will receive benefits after age 18 as long as disabled and not confined to a public institution.

**13. Student Benefits Ages 18 to 22**

Whenever benefits are provided for an unmarried dependent child under age 18, such child may receive benefits through age 22 as long as he or she remains a full-time student.

**14. Special Consultant Benefits**

Any retiree or any surviving spouse of a retiree or active member whose benefit is less than \$650 per month upon application will be employed by the Board of Trustees and paid a consultant's benefit such that his or her total benefit will equal \$650.

**15. Special Advisor Benefits**

Any retiree or any surviving spouse who is older than age 60 can become a special advisor and be eligible for an additional benefit equal to \$10 per month for each full year over age 60.

**16. Return of Contributions**

Upon service retirement or death while active or disability due to an accident in the actual performance of duty or ordinary disability, contributions without interest are refunded. Upon the withdrawal from service of a member prior to retirement, the entire amount of the member's contributions with interest accumulation is returned to the member. If at the termination of all benefits with respect to a member, the total of all benefit payments to date is less than the member's accumulated contributions at retirement or prior to death, the difference is paid to his or her beneficiary, or if no such beneficiary is living, to the estate of the beneficiary last entitled to benefits. Upon death, member contributions are returned to the surviving spouse of the member who died prior to receiving a refund of their contributions.

**17. Form of Payment**

There are no optional forms of payment; automatic survivor benefits are paid to all members.

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS**  
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**APPENDIX C – SUMMARY OF PLAN PROVISIONS**

**18. Deferred Retirement Option Plan (DROP)**

Any member who has at least 20 years of service or has attained the age of 55 may elect to participate in the DROP. A member electing to participate in the DROP will continue in active employment and will not receive any direct retirement allowance payments during participation in the DROP. No one may participate in the DROP for a period exceeding five years.

Upon the start of the participation in the DROP, the members' contributions will cease. During the period of participation in the DROP, the amount that the member would have received as a service retirement allowance, if the member had retired, is deposited monthly in the member's DROP account. A member's DROP account earns interest equal to the rate of return earned by the System's investment portfolio (net of investment expenses) during the prior plan year on a market value basis, beginning in the first plan year after the member begins DROP participation. The DROP account is paid in a lump sum or a series of 120 monthly installments when a member retires.

The member's service retirement allowance is not adjusted for any cost-of-living increases for any period prior to the member's retirement. Service earned during the period of participation in DROP is not creditable service and is not counted in the determination of any service retirement allowance or surviving spouses or dependents' benefits. A member who has elected to participate in DROP may re-enter the System.

Upon re-entry, a member is no longer eligible to participate in the DROP and will be required to make contributions of 7% of compensation. If the member remains active for at least two years following re-entry and retires, or if the member terminates due to death or disability at any time following re-entry, the member's benefit upon retirement will be based on creditable service and Plan provisions in effect at retirement. If the member terminates other than due to death or disability within two years following re-entry, the member's benefit upon retirement will be equal to the member's benefit at the time of entry into DROP plus any benefit accruals since re-entry. Additional benefit accruals will be based on the member's Average Annual Compensation earned while in DROP and Plan provisions in effect at retirement.

The member's contributions without interest will be paid to the member upon retirement or to the member's surviving spouse if the member dies before retirement.

**19. Changes Since Last Valuation**

None.

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**APPENDIX D – HISTORICAL INFORMATION**

The Police Retirement System of St. Louis became operative on October 1, 1929, under the provisions of what are now Sections 86.010 to 86.193 inclusive, R.S. Mo. 1969. The Alternative Police Retirement System of St. Louis became operative on October 1, 1957, under the provisions of Sections 86.200 to 86.366 inclusive, R.S. Mo. 1969.

The administration and operation of the Retirement System are under the direction of a 10-member Board of Trustees. There are two ex-officio members, three members appointed by the mayor, three members elected by the employees, and two members elected by the retirees. All applications for benefits are passed upon by the Board. The methods used to determine the funding policy requirement are specified by State statute.

As of December 1, 2019, Mr. Mark Lawson is employed as the Executive Director to the Board of Trustees. The Board of Trustees has appointed a Medical Board and has appointed Dr. Russell C. Cantrell as its chairman. This Medical Board passes on all medical examinations as required by law.

The Board of Trustees has employed Cheiron as actuaries for the System.

The Board of Trustees has employed Hochschild, Bloom & Company LLP, Certified Public Accountants, to audit the operation of the System.

The 69th General Assembly of the Missouri State Legislature adopted legislation which created the Alternative Police Retirement System of St. Louis, which began operation as of October 1, 1957. All police officers in service on that date became members of the alternative system unless they filed a notice of election to remain under the old system.

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**APPENDIX D – HISTORICAL INFORMATION**

Subsequent changes in the System are outlined in the table below:

<b>Session of General Assembly</b>	<b>Year</b>	<b>Change</b>
73rd	1965	Increase in benefits by change in formula from 1/70 to 1/60 of average compensation for each year of service.
74th	1967	<ul style="list-style-type: none"> <li>a) Increases in service retirement allowances based on increases in the Consumer Price Index (cap of 10%);</li> <li>b) Increases in ordinary disability allowances of members with dependent children; and</li> <li>c) Increases in allowances to survivors of retired members.</li> </ul>
75th	1969	<ul style="list-style-type: none"> <li>a) Lowering retirement age in steps until it reaches 55 in 1973; and</li> <li>b) Increase in benefits by a gradual change in formula until it reaches 1/55 in 1973.</li> </ul>
76th	1972	<ul style="list-style-type: none"> <li>a) Benefits based on 3-year final average salary, rather than 5 years; and</li> <li>b) Increase in benefits to surviving spouses of service retirees, based on cost-of-living, on the same basis as an increase to service retirees.</li> </ul>
77th	1973	Increase in cost-of-living adjustments to service retirees and their surviving spouses, from 1% to 3% (cap of 25%).
78th	1975	Increase in benefits to 1/50.
79th	1977	Allowing normal retirement after 25 years of service.
80th	1979	<ul style="list-style-type: none"> <li>a) Increasing benefits by 2% for each year of service greater than 25 years with a 70% overall maximum; and</li> <li>b) Allowing normal retirement after 20 years of service.</li> </ul>
81st	1981	<ul style="list-style-type: none"> <li>a) Allowing refund of member contributions without interest upon service retirement, and</li> <li>b) Special consultant allowance for retirees added to provide a minimum monthly retirement income of \$350.</li> </ul>
82nd	1983	<ul style="list-style-type: none"> <li>a) Allowing refund of member contributions without interest upon death while active after completing 20 years of service;</li> </ul>

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
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**APPENDIX D – HISTORICAL INFORMATION**

<b>Session of General Assembly</b>	<b>Year</b>	<b>Change</b>
		<ul style="list-style-type: none"> <li>b) Special consultant allowance for surviving spouses added to provide a minimum monthly surviving spouse's income of \$200, and</li> <li>c) Name changed to the Police Retirement System of St. Louis.</li> </ul>
82nd	1984	Upon approval of the Board, allowing refund of member contributions without interest to those who are receiving a service retirement benefit and retired prior to September 28, 1981.
83rd	1986	Special consultant allowance for retirees to provide a minimum monthly retirement benefit of \$400. Special consultants for surviving spouses to provide a minimum monthly retirement benefit of \$250.
*	1989	Special consultant allowance for surviving spouses to provide a minimum monthly retirement benefit of \$400.
85th	1990	<ul style="list-style-type: none"> <li>a) An additional monthly benefit to current and future retirees of \$10 per month for each year past age 60. The effective date for this improvement is July 1, 1994.</li> <li>b) Provides for the addition of two retirees to the Board of Trustees and an additional Board member appointed by the mayor.</li> <li>c) Provides for the refund of member contributions for retirees prior to September 28, 1981.</li> </ul>
87th	1993	Special consultant allowance for retirees and surviving spouses to provide a minimum monthly retirement benefit of \$550.
87th	1994	Allows for the return of employee contributions to all surviving spouses of members who die prior to receiving a refund of their contributions.
88th	1995	Adoption of the Deferred Retirement Option Plan.
89th	1997	<ul style="list-style-type: none"> <li>a) Maximum cumulative cost of living allowance for retirees and beneficiaries increased from 25% to 30% beginning with October 1, 1997 increases.</li> <li>b) Effective August 28, 1997, upon approval of the Board, allowing refund of member contributions without interest to retirees deemed to be 100% disabled due to an accident in the actual performance of duty.</li> </ul>

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\* Revised interpretation of state statutes by System's Legal Advisor.

**THE POLICE RETIREMENT SYSTEM OF ST. LOUIS  
OCTOBER 1, 2024 ACTUARIAL VALUATION REPORT**

**APPENDIX D – HISTORICAL INFORMATION**

<b>Session of General Assembly</b>	<b>Year</b>	<b>Change</b>
90th	1999	<ul style="list-style-type: none"> <li>a) Special consultant allowance for current and future retirees and surviving spouses to provide a minimum monthly retirement benefit of \$650 effective August 18, 1999.</li> <li>b) An additional monthly benefit to current and future surviving spouses of \$10 per month for each year past age 60 effective August 12, 1999.</li> <li>c) Increase benefit to future surviving spouses of service and disability retirees to 40% of Average Annual Compensation effective October 1, 1999. Special consultant allowance to current surviving spouses of service and disability retirees to increase benefit to 40% of Average Annual Compensation effective October 1, 1999.</li> <li>d) Increase benefit to future dependent children of members to 15% of Average Annual Compensation effective October 1, 1999. Special consultant allowance to current dependent children of members equal to the greater of \$100 per month or 5% of Average Annual Compensation effective October 1, 1999.</li> <li>e) Increase service retirement allowance to 75% of Average Annual Compensation for members with at least 30 years of service effective August 12, 1999.</li> <li>f) Increase benefit to future accidental death surviving spouses to 75% of Average Annual Compensation effective October 1, 1999. Special consultant allowance to current accidental death surviving spouses to increase benefit to 75% of Average Annual Compensation.</li> </ul>
91st	2001	<ul style="list-style-type: none"> <li>a) Benefits based on 2-year Average Annual Compensation effective October 1, 2001.</li> <li>b) Allow for a refund of member contributions without interest for any member who becomes disabled in the line of duty effective October 1, 2001.</li> <li>c) Allow one-time re-entry into the System from DROP effective October 1, 2001.</li> </ul>
91st	2002	Allow retiree organizations to request information and internal administration change regarding rulemaking by the Plan.
92nd	2003	Technical corrections to DROP.

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**APPENDIX D – HISTORICAL INFORMATION**

<b>Session of General Assembly</b>	<b>Year</b>	<b>Change</b>
92nd	2004	Redefine quorum.
93rd	2005	Remove limit of three children for disability and death benefits.
93rd	2006	Add the required compliance language for minimum distributions and direct rollovers.
94th	2007	Add a fiduciary education requirement.
96th	2011	Update required compliance language for minimum distributions, limit on benefits, direct rollovers and death while on military leave.  Permit System to accept rollovers of after-tax amounts from other plans.
98th	2013	Reduce service requirement for ordinary disability to five years upon reaching 80% funded ratio (this provision was triggered October 1, 2014).
99th	2014	Participants convicted of a felony offense which is committed in direct connection with or directly related to the participant's duties as an employee shall not be eligible to receive any retirement benefits with the exception of a refund of participant's plan contributions including interest
102nd	2023	Surviving spouses of deceased members shall not be required to forfeit receipt of their benefits upon remarriage. Additionally, surviving spouses who have previously forfeited benefits due to remarriage, may apply to have their survivor benefits prospectively reinstated.





*Classic Values, Innovative Advice*