

The background of the cover is a light blue gradient. In the center, there is a large, stylized illustration of an open book. The pages of the book are white and feature a wavy, water-like pattern. Above the book, a large, light blue Gateway Arch is superimposed over a city skyline of various skyscrapers. Several white, stylized clouds are scattered in the sky above the arch and city.

Annual Comprehensive **Financial Report**

Public School Retirement System of the City of St. Louis, Missouri

A Pension Trust Fund for Public School Employees

For the Fiscal Years Ended: December 31, 2023 & 2022

Begin Here 



Public School Retirement System of the City of St. Louis

A Pension Trust Fund for Public School Employees

3641 Olive Street

Suite 300

St. Louis, Missouri 63108-3601

(314) 534-7444

www.psrstl.org

Annual Comprehensive Financial Report

For the Fiscal Years Ended December 31, 2023 and 2022

Prepared by:
Susan Kane, CEBS
Executive Director

Mission Statement



The mission of the Public School Retirement System of the City of St. Louis is to enhance the well-being and financial security of its members, retirees and beneficiaries through benefit programs and services which are soundly financed and prudently administered in an effective and efficient manner.

Mission Statement Principles

The Retirement System adopts the following principles advocated by the National Council on Teacher Retirement, and with respect to such principles hereby pledges as follows:

- 1. Courteous Service.** To give members prompt and courteous service and provide complete and accurate information.
- 2. Member Statements.** To provide each active member with an annual statement that includes the member's accrued service credit, employee contributions, and other related information.
- 3. Information.** To provide new participants in the system a summary plan description that clearly and simply summarizes the benefit provisions of the plan. The System will make available information on changes made in benefits.
- 4. Annual Reports.** Full disclosure of financial, actuarial, and investment information in a detailed annual report that will be available for members, elected officials, and the public.
- 5. Financial Audits.** To prepare or cause to be prepared an annual financial statement in accordance with generally accepted accounting principles and have an annual audit of the System's financial statement in accordance with generally accepted auditing standards.
- 6. Actuarial Studies.** To have an annual or biennial actuarial valuation performed by an enrolled actuary in accordance with actuarial standards and an actuarial experience study at least every five years.
- 7. Adequate Funding.** To work to obtain adequate funding of all promised benefits and to ensure the financial integrity of this System.
- 8. Independence of Retirement Systems.** To work for a retirement system which functions as an independent retirement trust, separate from state and local government. Such independence includes the power of trustees to set actuarial assumptions, appoint professionals such as actuaries and attorneys on whom they must rely to carry out their responsibilities, and to establish a budget for the System which ensures the delivery of high quality, cost-effective service to their members.
- 9. Exclusive Benefit.** To act for the exclusive benefit of the members as fiduciaries entrusted with the management and payment of retirement benefits.
- 10. Prudent Investments.** To adopt comprehensive objectives, methods for evaluation of performance, and policies which ensure both the prudent investment of plan assets and the achievement of the highest possible investment return.
- 11. Ethical Conduct.** To adhere to the highest standards of conduct set out in the terms of the trust, state statute or other law.
- 12. State and Local Government Authority.** To support the continuation of state and local pension plan oversight by the respective state or local government to ensure that decisions are made at the appropriate level of government.

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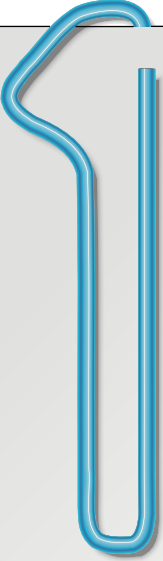
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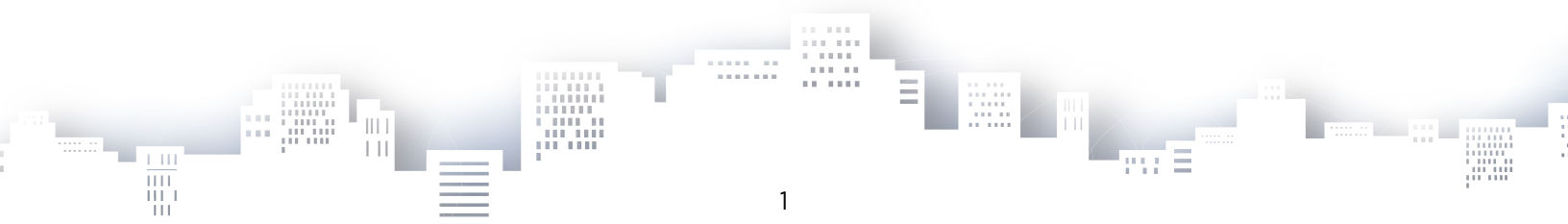


Introductory Section

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The mission of the Public School Retirement System of the City of St. Louis is...



Introductory Section



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**Public School Retirement System
of the City of St. Louis
Missouri**

For its Annual Comprehensive
Financial Report
For the Fiscal Year Ended

December 31, 2022

Christopher P. Morrill

Executive Director/CEO



Introductory Section



Board of Trustees

An eleven-member Board of Trustees is responsible for general administration of the Retirement System and investing System assets. Active members elect five trustees: one administrator, two teachers and two non-teachers. Retired members elect two trustees: one retired teacher and one retired non-teacher. The St. Louis Public Schools (“SLPS”) Board of Education appoints four trustees. The length of term of office is four years. The following individuals serve on the Public School Retirement System of the City of St. Louis Board of Trustees.

Elected by Active Members	Term Ends	Trustee Representation
Sheila Goodwin	12-31-2024	Active Teacher
Bobbie Richardson	12-31-2025	Active Non-Teacher
Shanise Johnson	12-31-2026	Active Non-Teacher
Yvette Levy	12-31-2027	Active Administrator
Albert Sanders	12-31-2027	Active Teacher

Elected by Retired Members	Term Ends	Trustee Representation
Dorris Walker	09-30-2025	Retired Non-Teacher
Louis Cross	09-30-2027	Retired Teacher

SLPS Appointments	Term Ends	Trustee Representation
Martel Mann	12-31-2024	SLPS Board of Education
Angela Banks	12-31-2025	SLPS Board of Education
Christina Bennett	12-31-2026	SLPS Board of Education
Emily Hubbard	12-31-2027	SLPS Board of Education

Introductory Section



**Public School Retirement System
of the City of St. Louis**

3641 Olive Street, Suite 300
St. Louis, MO 63108-3601

**Office of the
Executive Director**

**Phone: (314) 534-7444
Fax: (314) 533-0531**

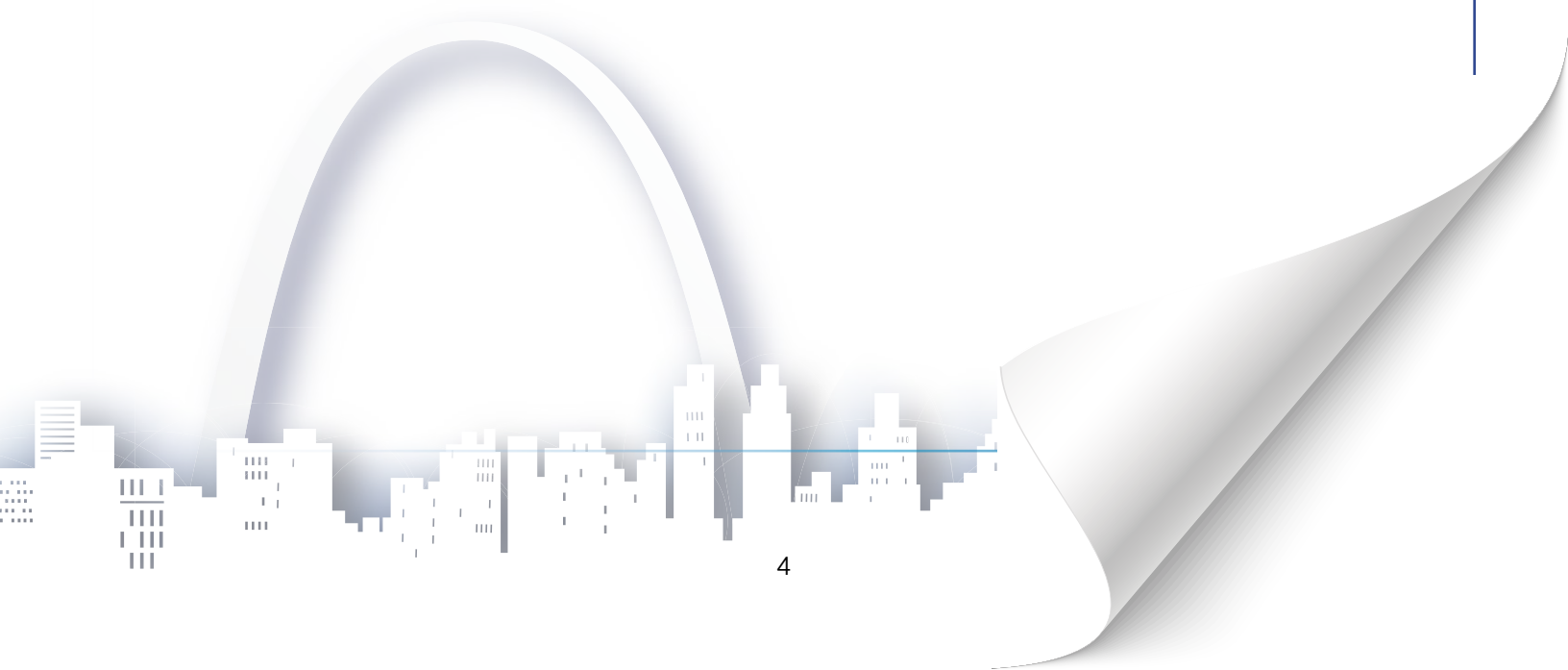
June 1, 2024

To the Board of Trustees and Members of the Retirement System:

I am pleased to present the Annual Comprehensive Financial Report (Annual Report) for the Public School Retirement System of the City of St. Louis (“PSRSSTL”, “System”, “fund” or “plan”) for the fiscal years ended December 31, 2023 and December 31, 2022. Management of the System is responsible for the content in this report. To the best of my knowledge, I believe the information in this report is accurate, in all material respects, and presented in a manner that fairly portrays the financial position and operations of the plan for fiscal years 2023 and 2022.

Overview of the Retirement System

The Public School Retirement System of the City of St. Louis was established January 1, 1944. Through acts of the Missouri Legislature, the System provides retirement benefits to employees of the St. Louis Public Schools District, the System, a number of Charter Schools located in the St. Louis Public Schools District and certain past employees of Harris-Stowe State College. The System’s members are covered by Social Security and eligible for Social Security benefits in addition to retirement benefits provided by the plan.



Introductory Section

**Financial Information**

An independent certified accounting firm performs a financial audit each year. The financial statements of the System are prepared in conformity with accounting principles generally accepted in the U.S.A. (GAAP) within guidelines established by the Governmental Accounting Standards Board (GASB). Management uses internal controls to help protect the System's assets from loss due to unauthorized use or erroneous disposition. These internal controls are constrained to keep costs from outweighing the benefits derived from them so there are natural limits to preventing all errors or instances of fraud. Management is confident that within reason, not absolute assurance, the financial statements meet the important objective of providing information free of material misstatements. Please refer to the Management Discussion and Analysis ("MD&A") in the Financial Section for an overview of the System's financial highlights that includes a review of the additions and deductions from the plan during 2023 and 2022.

Investment Activities

The overall investment return for the plan during 2023 was 11.43%, which was higher than the actuarial assumed rate of return of 7.0% adopted by the Board of Trustees in 2021. Thus, the investments added value to the fund for the year. In comparison to other public plans in the Public Fund Defined Benefit Universe, the System's investment return for 2023 ranked in the 82nd percentile when compared to other public pension plans while maintaining similar risk as the peer group.

The Board of Trustees governs investments of the fund through the adoption of investment policies and guidelines, amended as needed, that define the plan's objectives, monitoring procedures and performance measures. The Investment Policies and Operating Guidelines lay out specific parameters for performance expectations, eligible investments, and portfolio characteristics. Key to the success of this governance is the determination of an Asset Allocation Policy. The policy is reviewed by the Board of Trustees at least annually and modified as needed to maximize returns while minimizing risk within the accepted investment guidelines of the System. Through advice from the Investment Consultant, management and staff are primarily responsible for implementing and monitoring the Asset Allocation Policy adopted by the Board of Trustees. Detailed investment information can be found in the Investment Section.

Funding Status and Valuation Results

The System is a defined benefit plan, which means that certain benefit provisions are used in a formula to determine each member's retirement benefit. The formula to calculate retirement benefits for members hired on or before December 31, 2017, is credited service (years of service) multiplied by average compensation (final average salary for three consecutive years) multiplied by 2% (pension multiplier). For members hired for the first time on or after January 1, 2018, the pension multiplier is 1.75%, which changes the retirement benefits formula for these members.

Introductory Section



Each year, the System has an actuarial valuation conducted by an independent Actuary. The actuarial valuation has two main purposes: (1) to determine the annual required contribution (ARC), the portion of covered payroll, that employers must pay during a given year, including actuarially determined contributions that would ensure assets are available for benefit obligations into the future and to guarantee actuarial soundness of the fund and (2) to measure the relative financial health of the System.

To determine the relative financial health of the System, the Actuary calculates the plan's actuarial accrued liability using the System's benefit provisions and actuarial assumptions in effect at the time of the calculation. The actuarial accrued liability is then compared to the actuarial value of assets to arrive at a percentage or Funded Ratio. The Funded Ratio measures the ability of the System to pay retirement benefits over the course of time, usually the next 30 years. For plan year 2022, the Funded Ratio was 73.6%, which is the sixth year in a row that the Funded Ratio for the System remained below 80%. The main reason for the low measurements is due to the downgrade of the retirement system's assumed rate of return (discount rate) from 8.0% to 7.5%, in plan year 2017 and then down to 7.0% in 2021.

The Actuary calculates an ARC that is adequate to fund the normal costs of the plan that includes the unfunded actuarial accrued liability amortized over a 30-year period. The Actuary presents the annual Actuarial Valuation Report to the Board of Trustees for consideration. Once the Board of Trustees accepts the actuarial valuation for the year, the employers are notified of the ARC as governed by state statute.

Legislative Information

There were no major legislative changes in 2023 that directly affected the System. The last major change to the System's plan provisions occurred in 2017. For more details on the 2017 changes, please refer to the legislative history of the plan summarized on the last page of the Statistical Section.

Professional Services

Certain professional services are provided to the System by retained consultants. The required opinion letters from the Actuary, Buck Global, LLC, and Independent Certified Public Accountants, Anders Minkler Huber & Helm LLP, are contained in the appropriate sections of this report.

The retained consultants that provide professional services to the System appear at the end of this section. Investment professionals that provide brokerage and investment management services to the System can be found on pages 77-79 in the Investment Section.

Introductory Section



Certificate of Achievement

Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Public School Retirement System of the City of St. Louis for its comprehensive annual financial report for the fiscal year ended December 31, 2022. This was the twelfth consecutive year the System has achieved this prestigious award. In order to be awarded a Certificate of Achievement, the System must publish an easily readable and efficiently organized annual comprehensive financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. The System believes our current annual comprehensive financial report continues to meet the Certificate of Achievement Program’s requirements and the System is submitting it to GFOA to determine its eligibility for another certificate.

Acknowledgments

I would like to thank the Board of Trustees, staff and consultants for their assistance in preparing this report. The dedication of these groups contributes to the System’s continued stability.

Sincerely,

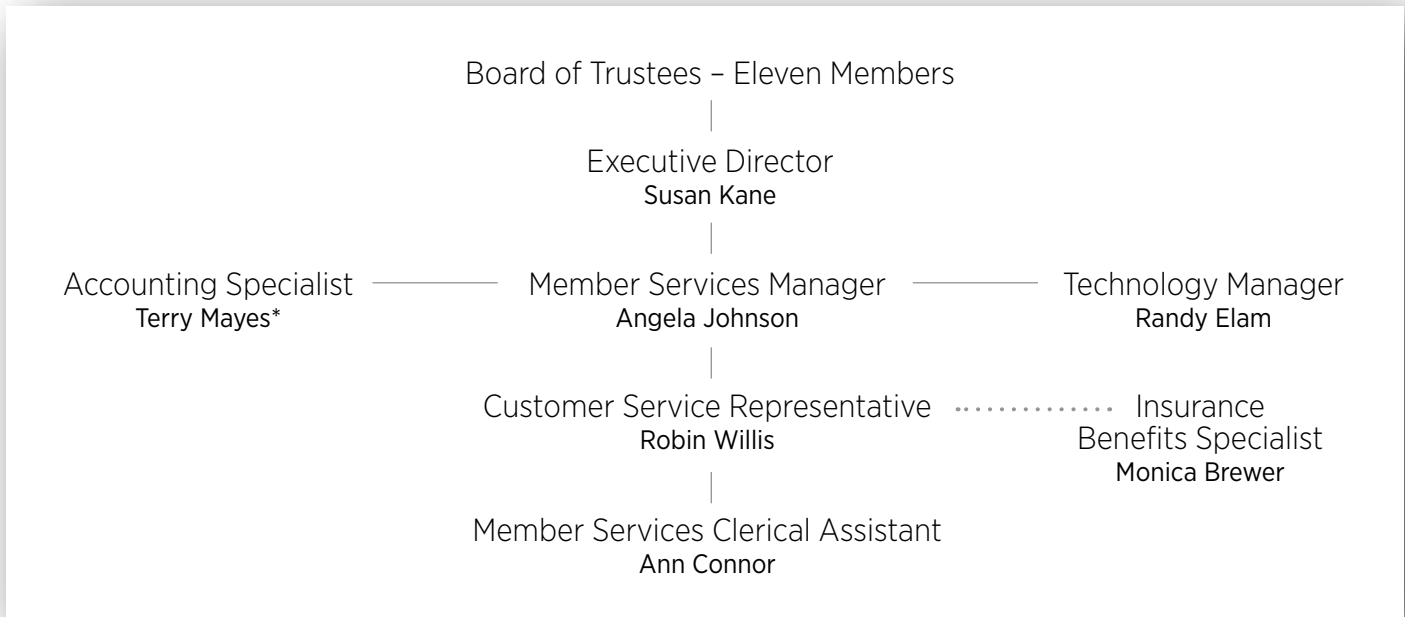
Susan Kane

Susan Kane, CEBS
Executive Director

Introductory Section



Organizational Chart



Denotes some work-flow supervision
 *Terry Mayes retired effective April 1, 2024.

Providers of Professional Services

Actuarial Services

Buck, a Gallagher Company
 Michael Ribble,
 St. Louis, MO

Investment Consultant

Mariner*
 Gwelda Swilley, Jeff Kuchta
 Winter Park, FL

Computer Programming Consultant

Jupiter Consulting Services, LLC
 St. Louis, MO

Auditor

Anders Minkler Huber & Helm LLP
 Jeanne M. Dee, CPA/CGMA
 St. Louis, MO

Legal Counsel

Husch Blackwell**
 David Eckhardt
 St. Louis, MO

Computer Networking Consultant

Blade Technologies, Inc.
 St. Louis, MO

Insurance Consultant

Gallagher Benefit Services, Inc.
 (A division of Arthur J. Gallagher & Co.)
 Diane Laflash
 Worcester, MA

Property Management

Intelica CRE
 St. Louis, MO

*AndCo was purchased by Mariner in April 2024 and the name was changed to Mariner.
 **Husch Blackwell is the Legal Counsel for PSRSSTL as of April 1, 2024. PSRSSTL legal counsel in 2023 was Hartnett Reyes-Jones.



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Required Supplementary Information – Unaudited

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- 49 Schedules of the System's Proportionate Share of the Net Pension Liability – Unaudited
- 50 Schedules of Annual Money-Weighted Rate of Return on Investments – Unaudited
- 51 Schedules of Employer Contributions – Unaudited

Other Supplementary Information

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Independent Auditors' Report



Independent Auditors' Report

The Board of Trustees
Public School Retirement System of the City of St. Louis
St. Louis, Missouri

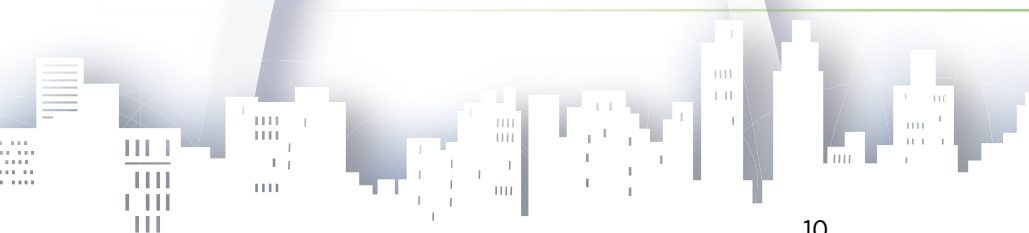
Opinion

We have audited the accompanying financial statements of Public School Retirement System of the City of St. Louis (the "System"), which comprise the statements of fiduciary net position as of December 31, 2023 and 2022, and the related statements of changes in fiduciary net position for the years then ended, and the related notes to the financial statements.

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of Public School Retirement System of the City of St. Louis as of December 31, 2023 and 2022, and the changes in its fiduciary net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the System and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



Financial Section

***Responsibilities of Management for the Financial Statements***

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the System's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the System's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Financial Section



Required Supplementary Information

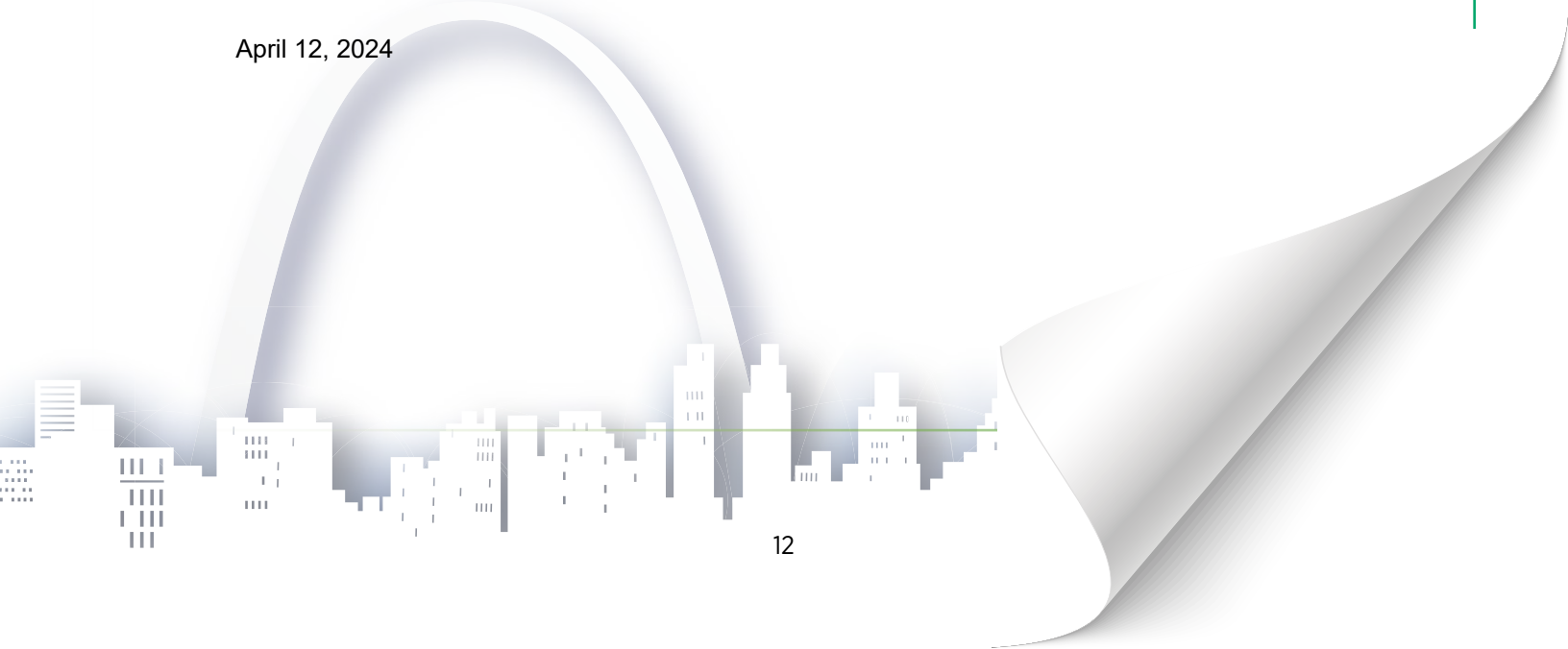
Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis and the other required supplementary information, as listed in the Table of Contents, be presented to supplement the basic financial statements. Such information is the responsibility of management and although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the System's basic financial statements. The other supplementary information on pages 44 - 50 is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audits of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Anders Minkler Heber & Helms LLP

April 12, 2024



Financial Section



Management's Discussion and Analysis Year Ended December 31, 2023

The Management Discussion and Analysis ("MD&A") for the Public School Retirement System of the City of St. Louis ("PSRSSTL") provides an overview of PSRSSTL financial activities for the fiscal year ended December 31, 2023. This MD&A is presented as required supplementary information to the financial statements and should be read in conjunction with the PSRSSTL financial statements, notes to the financial statements, required supplementary information, and other supplementary information.

The basic financial statements contained in this section of the MD&A consist of:

- The Condensed Statements of Fiduciary Net Position illustrate the System's assets, liabilities, and resulting fiduciary net position where $\text{Assets} + \text{Deferred Outflows} - \text{Deferred Inflows} - \text{Liabilities} = \text{Fiduciary Net Position}$ held in trust for pension benefits available at the end of a fiscal year. These statements are a snapshot of the financial position of the System at specific points in time.
- The Condensed Statements of Changes in Fiduciary Net Position summarize the System's financial transactions throughout a fiscal year where $\text{Additions} - \text{Deductions} = \text{Change in Fiduciary Net Position}$. These statements support the change from the prior year's net position on the Statements of Fiduciary Net Position.
- The Notes to the Financial Statements are an integral part of these basic financial statements and contain information that helps better understand them.
- The required supplementary MD&A information, the Required Supplementary Information, and Other Supplementary Information following the Notes to the Financial Statements provide detailed historical information that is useful in evaluating the condition of the retirement plan administered by PSRSSTL.

The deferred outflow of resources on December 31, 2023, was \$441,474, which was more than a 33% increase from the prior year. On December 31, 2022, the deferred outflow of resources was \$331,381, which was more than a 54% increase from December 31, 2021. The deferred outflow of resources on December 31, 2021 was \$214,501.

The deferred inflows of resources as of December 31, 2023 was \$63,147, which is a more than 85% decrease from the prior year. As of December 31, 2022, the deferred inflows of resources was \$413,750, which was a decrease of 31% from the prior year. The deferred inflows of resources on December 31, 2021 was \$606,659.

The System's fiduciary net position was \$849,019,915 at December 31, 2023, which represents an increase of \$31,151,936 from December 31, 2022. This increase was due to investment returns during the 2023 fiscal year that were above the System's assumed rate of return. The performance results increased the System's asset values for most investment categories at December 31, 2023.

The System's investment returns were 11.43% in fiscal year 2023, -10.99% in fiscal year 2022, and 12.4% in fiscal year 2021. The System's investment return in fiscal year 2023, when compared to fiscal year 2022, represents increases in investment values for most asset categories even though volatility continued in the financial markets during the one year period. Predicting conditions in the marketplace is always challenging yet the Board of Trustees stands behind a sound Asset Allocation Policy by remaining focused on active monitoring of its money managers and long-term investment objectives. The actuarial assumed rate of return set by the Board of Trustees changed to 7.0% in fiscal year 2021.

Financial Section



Additions to fiduciary net position were \$144.9 million, -\$39.1 million, and \$173.2 million for fiscal years 2023, 2022, and 2021 respectively. The two highest additions to fiduciary net position in 2023 were net investment income of \$84.3 million and employer contributions of \$37.9 million. The main additions to fiduciary net position in 2022 were employer contributions of \$41.0 million and member contributions of \$22.8 million. The main additions to fiduciary net position in 2021 were net investment income of \$116.0 million and employer contributions of \$41.2 million.

Deductions from fiduciary net position were \$113.7 million, \$115.9 million and \$115.2 million in fiscal years 2023, 2022 and 2021, respectively. Overall, most deductions, decreased from the prior year, with the largest decrease coming in health care subsidies from 2023 to 2022. The increase in fiduciary net position between fiscal years 2022 and 2021 was due mainly to the large increase in refunds of member contributions.

Financial Statements

The PSRSSTL financial report consists of two financial statements, (1) the Statements of Fiduciary Net Position, and (2) the Statements of Changes in Fiduciary Net Position. The Statements of Fiduciary Net Position provide details concerning PSRSSTL assets and liabilities other than long-term benefit obligations. However, PSRSSTL assets are the only source available to the System to pay pension benefits. The Statements of Changes in Fiduciary Net Position provide details regarding PSRSSTL financial activity during fiscal year 2023 that caused the change in fiduciary net position from fiscal year 2022 to fiscal year 2023.

Additionally, the financial report contains notes, supplementary information and actuarial data that provide further information to use while analyzing the System's financial statements.

Financial Analysis

On December 31, 2023, total assets and deferred outflow of resources of the System were \$851,177,970. Total assets consisted of cash, receivables, investments and an office building. When compared to fiscal year 2022, total assets and deferred outflows in fiscal year 2023 increased by 3.8%, or \$31,505,633, and can be attributed to higher than expected investment returns.

On December 31, 2023, total liabilities and deferred inflow of resources of the System were \$2,158,055. Total liabilities consisted of accounts payable and accrued expenses and net pension liability. Total liabilities and deferred inflows in fiscal year 2023, when compared to fiscal year 2022, increased by \$353,697, primarily because of the increase in the System's net pension liability as required by GASB Statement No. 68.

On December 31, 2023, the fiduciary net position restricted for pensions was \$849,019,915, an increase of 3.8%, or \$31,151,936, from fiscal year 2022.

Financial Section



On December 31, 2022, total assets and deferred outflow of resources of the System were \$819,672,337. Total assets consisted of cash, receivables, investments and an office building. When compared to fiscal year 2021, total assets and deferred outflows in fiscal year 2022 decreased by 15.9%, or \$155,269,386, and can be attributed to lower than expected investment returns.

On December 31, 2022, total liabilities and deferred inflow of resources for the System were \$1,804,358. Total liabilities consisted of accounts payable, accrued expenses, and net pension liability. Total liabilities and deferred inflows in fiscal year 2022, when compared to fiscal year 2021, decreased by \$309,709, primarily because of the decrease in the deferred inflows of resources.

On December 31, 2022, the fiduciary net position restricted for pensions was \$817,867,979, a decrease of 15.9%, or \$154,959,677, from fiscal year 2021.

Condensed Statements of Fiduciary Net Position

	FY 2023	FY 2022	FY 2021	FY 2023 % Change	FY 2022 % Change
Assets					
Cash	\$ 9,523,512	\$ 9,892,457	\$ 9,538,225	(3.7)%	3.7%
Receivables	1,161,497	1,207,769	809,964	(3.8)%	49.1%
Investments	838,634,625	806,772,242	962,858,918	3.9 %	(16.2)%
Property and Building, net	<u>1,416,862</u>	<u>1,468,488</u>	<u>1,520,115</u>	(3.5)%	(3.4)%
Total Assets	850,736,496	819,340,956	974,727,222	3.8 %	(15.9)%
Deferred Outflows of Resources					
Deferred Outflows of Resources	441,474	331,381	214,501	33.2%	54.5%
Total Assets and Deferred Outflows of Resources	851,177,970	819,672,337	974,941,723	3.8%	(15.9)%
Liabilities					
Accounts Payable and Accrued Expenses	1,024,443	676,761	818,796	51.4%	(17.3)%
Net Pension Liability	<u>1,070,465</u>	<u>713,847</u>	<u>688,612</u>	50.0 %	3.7 %
Total Liabilities	2,094,908	1,390,608	1,507,408	50.6%	(7.7)%
Deferred Inflows of Resources					
Deferred Inflows of Resources	63,147	413,750	606,659	(84.7)%	(31.8)%
Total Liabilities and Deferred Inflows of Resources	2,158,055	1,804,358	2,114,067	19.6%	(14.6)%
Fiduciary Net Position	\$ 849,019,915	\$ 817,867,979	\$ 972,827,656	3.8%	(15.9)%

Financial Section

**Revenues – Additions to Fiduciary Net Position**

The assets available to finance PSRSSTL pension benefits are accumulated through receipt of employer and member contributions as well as through earnings on investments. For fiscal year 2023, employer contributions were approximately \$37.9 million; member contributions were approximately \$24.6 million; and investments gained a net amount of approximately \$84.3 million. For fiscal year 2022, employer contributions were approximately \$41.0 million; member contributions were approximately \$22.8 million; and investments lost a net amount of approximately \$103.8 million. For fiscal year 2021, employer contributions were approximately \$41.2 million; member contributions were approximately \$20.9 million; and investments gained a net of approximately \$116.0 million.

Employer and member contributions combined decreased by \$1.3 million in fiscal year 2023 compared to \$1.7 million in fiscal year 2022. These fluctuations in the contribution amounts are primarily due to the decrease of the employer contribution rate from 14.0% of covered compensation in fiscal year 2022 to 13.5% in fiscal year 2023, and the decrease from 15.0% of covered compensation in fiscal year 2020 to 14.50% in fiscal year 2021.

The PSRSSTL Actuary determines the amount of employer contributions required to maintain actuarial soundness of the System as part of the annual actuarial valuation report. However, through legislation passed in 2017, beginning with plan year 2018, the employer contribution rate was decreased to 16.0% of covered compensation. This rate will decrease by 0.5% in each future plan year until reaching a minimum of 9.0% and remain at 9.0% of covered compensation in all subsequent plan years.

An active member contribution rate of 5.00% of covered compensation was effective from July 1, 1999 through December 31, 2017. In 2018, through legislation passed in 2017, the active member contribution rate was increased to 5.50% of covered compensation for members hired before January 1, 2018. This rate will increase by 0.50% per year until reaching 9.00%. After that, the contribution rate will remain at 9.00% of covered compensation. The legislation requires new active members hired on or after January 1, 2018, to immediately contribute at a rate of 9.00%.

Net investment income was \$84.3, -\$103.8 million, and \$116.0 million in fiscal years 2023, 2022 and 2021, respectively. These fluctuations in net investment income occurred because the investment earning rates were 11.43%, -10.99%, and 12.4% in fiscal years 2023, 2022 and 2021, respectively. Net investment income or (loss) reflects gross investment income or (loss) less investment expenses, such as investment manager, investment advisor and custodial fees.

Financial Section

**Expenses – Deductions From Fiduciary Net Position**

The primary deductions from fiduciary net position were payments of retirement benefits, survivor benefits, disability benefits, retiree healthcare subsidies and refunds to members who have retired or terminated employment. PSRSSTL operating expenses in fiscal year 2023 were approximately 0.20% of assets, while operating expenses were approximately 0.16% and 0.21% of assets for 2022 and 2021, respectively.

Condensed Statements of Changes in Fiduciary Net Position

	FY 2023	FY 2022	FY 2021	FY 2023 % Change	FY 2022 % Change
Additions					
Employer Contributions	\$ 37,930,116	\$ 41,034,190	\$ 41,226,981	(7.6)%	(0.5)%
Member Contributions	24,617,494	22,794,266	20,880,189	8.0 %	9.2 %
Net Investment Income (loss)	84,324,668	(103,834,311)	116,054,836	(181.2)%	(189.5)%
Rental Income	179,383	173,594	170,397	3.3 %	1.9 %
Other Income (loss)	<u>(2,112,674)</u>	<u>744,900</u>	<u>(5,071,188)</u>	(383.6)%	(114.7)%
Total Additions	144,938,987	(39,087,361)	173,261,215	470.8%	(122.6)%
Deductions					
Retirement Benefits	98,131,494	98,918,142	99,362,102	(0.8)%	(0.4)%
Survivor Benefits	2,922,340	2,975,242	2,987,195	(1.8)%	(0.4)%
Disability Benefits	3,002,947	3,196,493	3,347,554	(6.1)%	(4.5)%
Health Care Subsidies	675,513	2,005,848	2,093,653	(66.3)%	(4.2)%
Operating Expenses	1,665,012	1,319,797	1,523,071	26.2 %	(13.3)%
Refunds to members	<u>7,389,745</u>	<u>7,456,794</u>	<u>5,896,938</u>	(0.9)%	26.5 %
Total Deductions	113,787,051	115,210,513	115,210,513	(1.8)%	0.6 %
Change in Fiduciary Net Position	\$ 31,151,936	\$(154,959,677)	\$ 58,050,702	120.1 %	(366.9)%
Net Position Restricted for Pensions, Beginning of Year	\$ 817,867,979	\$ 972,827,656	\$914,776,954	(15.9)%	6.3 %
Net Position Restricted for Pensions, End of Year	\$849,019,915	\$ 817,867,979	\$972,827,656	3.8 %	(15.9)%

Financial Section



Financial Summary

For over 25 years, the PSRSSTL Investment Consultant has consistently calculated the System's investment performance; thereby, providing a valid basis on which performance can be compared with other public pension funds. For instance, the System's investments have provided consistent returns with cumulative PSRSSTL investment performance ranking in the top 50% of similar public pension plans for the last 25 years through the period ended December 31, 2023.

The fiduciary net position over this same time frame has fluctuated from a low of \$780 million in fiscal year 1997 to a high of \$1.15 billion in fiscal year 2007. At the end of fiscal year 2023, the fiduciary net position was \$849.0 million. These fluctuations in the value of the System's fiduciary net position can be attributed to volatile financial market conditions, particularly due to the concerns over inflation and rising interest rates in the current year, and other volatile market changes in other years that caused substantial losses of investment returns in several fiscal years followed by large investment gains in other fiscal years.

Until fiscal year 2017, using the Governmental Accounting Standards Board ("GASB") calculation method implemented in 1992, the funded status of PSRSSTL remained stable by fluctuating within the range of 80.5% to 88.6% for 26 fiscal years. The funded ratio of a plan compares its assets to its liabilities; thereby, on an actuarial basis, measuring a plan's ability to fulfill future financial obligations to its members. The funded ratios of the PSRSSTL for fiscal years 2023, 2022, and 2021 were 73.3%, 73.6%, and 78.7%, respectively. The dip in the System's funded ratio beginning with fiscal year 2017 was primarily due to the change in the System's actuarial assumed rate of return (discount rate) from 8.0% to 7.5%. This assumed rate of return is now 7.0% effective in 2021.

The Board of Trustees and the PSRSSTL Actuary assume that the PSRSSTL will continue to be funded on a sound actuarial basis provided required member and employer contributions are made as recommended, a prudent and well-diversified Asset Allocation Policy remains in place, quality investment managers continue to be selected, and the financial markets dodge sustained volatility. However, during fiscal year 2017, the Missouri General Assembly, in cooperation with then Governor Eric Greitens, enacted changes to the System's calculations for the required annual employer and member contributions that jeopardize the System's actuarial soundness. Unless this legislation is overturned or replaced, these changes will have adverse effects on the System and its ability to meet future financial obligations to its members. It is assumed that the Board of Trustees will fulfill its fiduciary duty to the System's membership by continuing to take the appropriate legal action against the legislation.

Despite the continued volatility in the market in 2023, the System experienced an investment return higher than anticipated. In addition to positive investment returns, investment expenses dropped by over 7% in 2023 when compared to 2022.

Requests for Information

This report is intended to provide the Board of Trustees, PSRSSTL members, and other interested parties a general overview of PSRSSTL financial matters. If any reader has questions about this report or needs additional financial information, contact the Public School Retirement System of the City of St. Louis.

Financial Section



Statements of Fiduciary Net Position December 31, 2023 and 2022

Assets

	2023	2022
Cash	\$ 9,523,512	\$ 9,892,457
Receivables		
Accrued Interest and Dividends	878,219	634,538
Other Receivables	<u>283,278</u>	<u>573,231</u>
Total Receivables	1,161,497	1,207,769
Investments, at Fair Value		
Cash equivalents	27,701,835	42,341,245
Bonds		
U.S. Government and Agency Issues	42,407,500	27,967,198
Corporate	23,284,426	24,014,626
Foreign Investments (Bonds and Stocks)	83,077,338	82,019,025
Common and Preferred Stocks	170,482,041	183,586,017
Mutual and Co-Mingled Funds	341,063,608	300,787,261
Real Estate Partnerships	48,396,585	56,478,101
Limited Partnerships	<u>102,221,292</u>	<u>89,578,769</u>
Total Investments	838,634,625	806,772,242
Property and Building, net	1,416,862	1,468,488
Total Assets	850,736,496	819,340,956
Deferred Outflows of Resources		
Deferred Outflows of Resources Related to Pensions	441,474	331,381
Liabilities		
Accounts Payable and Accrued Expenses	1,024,443	676,761
Net Pension Liability	<u>1,070,465</u>	<u>713,847</u>
Total Liabilities	2,094,908	1,390,608
Deferred Inflows of Resources		
Deferred Inflows of Resources Related to Pensions	63,147	413,750
Net Position		
Net Position Restricted for Pensions	\$849,019,915	\$817,867,979

See notes to financial statements starting on page 21.

Financial Section



Statements of Changes in Fiduciary Net Position December 31, 2023 and 2022

	2023	2022
Additions		
Employer contributions		
St. Louis Public Schools	\$ 23,639,359	\$ 26,692,454
Sick Leave Conversion	21,515	43,815
Charter Schools	14,186,314	14,215,977
Retirement System	82,928	81,944
Plan Member Contributions		
Sick Leave Conversion	15,872,635	14,446,251
Charter Schools	8,695,350	8,302,053
Retirement System	49,509	45,962
	<u>62,547,610</u>	<u>63,828,456</u>
Investment Income (loss)		
Cash Equivalents	1,179,109	367,482
Bonds		
U.S. Government and Agency Issues	2,147,336	(4,761,512)
Corporate	1,133,259	(3,421,071)
Foreign Investments (Bonds and Stocks)	17,841,006	(12,723,638)
Common and Preferred Stocks	27,327,114	(40,066,025)
Mutual and Co-Mingled Funds	42,063,299	(47,535,456)
Limited Partnerships	3,014,354	5,279,783
Real Estate Partnerships	(6,741,215)	2,950,606
	<u>87,964,262</u>	<u>(99,909,831)</u>
Less Investment Expenses	<u>3,639,594</u>	<u>3,924,480</u>
Net Investment Income	84,324,668	(103,834,311)
Rental Income	179,383	173,594
Other Miscellaneous Income (loss)	(2,112,674)	744,900
Net Additions	144,938,987	(39,087,361)
Deductions		
Benefits Paid		
Retirement Benefits	98,131,494	98,918,142
Survivor Benefits	2,922,340	2,975,242
Disability Benefits	3,002,947	3,196,493
Health Care Subsidies	675,513	2,005,848
	<u>104,732,294</u>	<u>107,095,725</u>
Operating Expenses	1,665,012	1,319,797
Contribution Refunds Due to Death or Resignation	7,389,745	7,456,794
Total Deductions	<u>113,787,051</u>	<u>115,872,316</u>
Net Increase in Net Position	31,151,936	(154,959,677)
Net Position Restricted for Pensions, Beginning of Year	<u>817,867,979</u>	<u>972,827,656</u>
Net Position Restricted for Pensions, End of Year	\$ 849,019,915	\$ 817,867,979

Financial Section



Notes to Financial Statements December 31, 2023 and 2022

1. Description of System

General

The Public School Retirement System of the City of St. Louis (the “System”) is the administrator of a cost-sharing multiple-employer defined benefit pension plan existing under provisions of the Revised Statutes of the State of Missouri (the “Statutes”) to provide retirement benefits for all employees of the Board of Education of the City of St. Louis, of the Charter Schools located within the St. Louis School District, and of all employees of the System. The System issues a Comprehensive Annual Financial Report (“Annual Report”), a publicly available financial report that can be obtained at www.psrstl.org.

An eleven member Board of Trustees (the “Board”) is responsible for general administration of the System and investing the System’s assets. Trustees are appointed by plan members and the Board of Education of the City of St. Louis.

Membership and Eligibility

All persons employed on a full-time basis are members of the System as a condition of employment. Membership statistics, as of the latest actuarial valuations, are as follows:

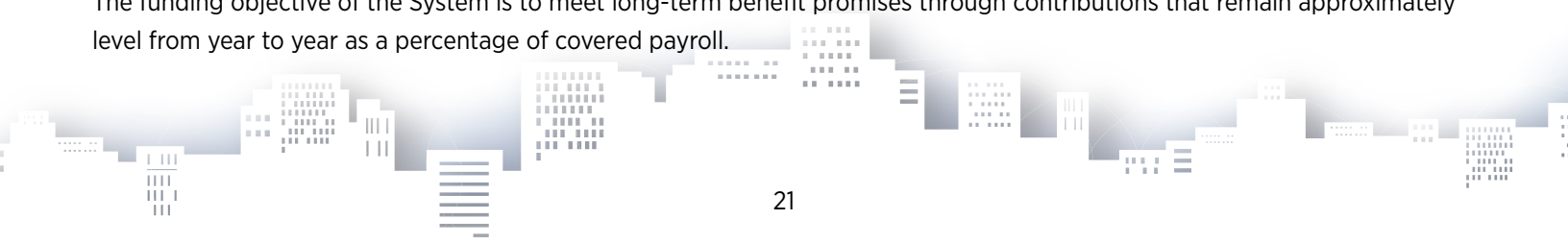
	January 1, 2023	January 1, 2022
Active Members	4,940	4,594
Inactive Members	<u>4,568</u>	<u>4,256</u>
Total Members Not Retired	9,508	8,850
Retired Members		
Service and survivors	4,106	4,144
Disability	<u>204</u>	<u>219</u>
	4,310	4,363
Total Membership	13,818	13,213

Vesting

Full vesting on termination of employment after at least five years of service is provided if contributions remain with the System. The full benefit is payable at age 65 or at a reduced early retirement benefit prior to age 65.

Funding Policy

The funding objective of the System is to meet long-term benefit promises through contributions that remain approximately level from year to year as a percentage of covered payroll.



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Benefits

Upon retirement at age 65, or at any age if age plus years of credited service equals or exceeds 80 (Rule of 80), or 85 (Rule of 85) if terminated prior to August 28, 2017, members receive monthly payments for life or yearly benefits equal to years of credited service multiplied by 2% of average final compensation or 1.75% of average final compensation if hired on or after January 1, 2018, but not to exceed 60% of average final compensation. Early retirement can occur prior at age 60 with five years of service or at the age the Rule of 80 or Rule of 85 is satisfied. The service retirement allowance is reduced five ninths of one percent for each month of commencement prior to age 65 or the age at which the Rule of 80 (Rule of 85 if terminated prior to August 28, 2017) would have been satisfied had the employee continued working until that age, if earlier.

In lieu of the benefit paid over the lifetime of the participant, reduced benefit options are available for survivor and beneficiary payments.

Members are eligible, after accumulation of five years of credited service, for disability benefits prior to eligibility of normal retirement. Survivor benefits are available for beneficiaries of members who die after at least 18 months of active membership.

The System pays a portion of health insurance premiums for retirees under Section 169.476 of the Statutes, as an expense of the System.

Benefits are recorded when paid.

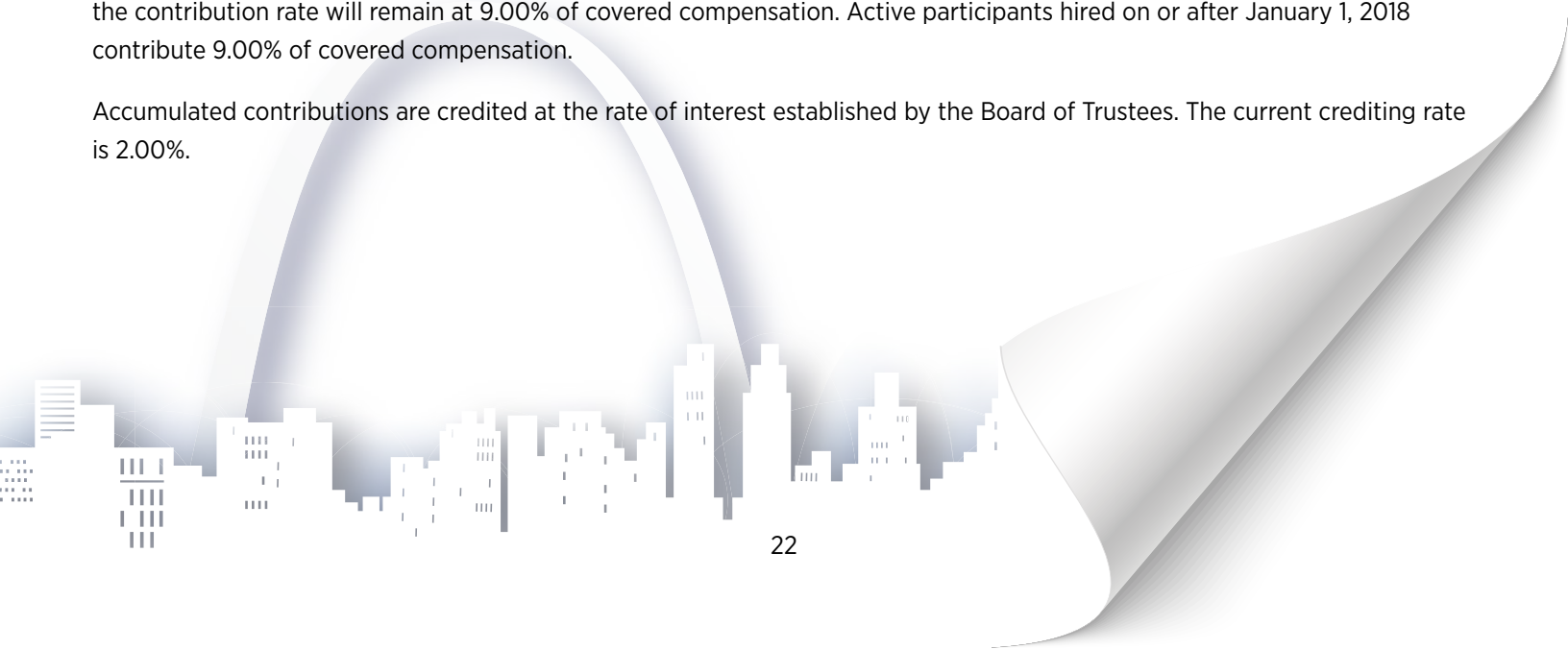
Return of Contributions Upon Death

If, after the death of a participant, no further monthly amounts are payable to a beneficiary under an optional form of payment or under the survivor benefit provisions, the participant's beneficiary shall be paid the excess, if any, of the participant's accumulated contributions over all payments made to, or on behalf of, the deceased participant.

Contributions by Participants

Active participants hired before January 1, 2018 contributed 8.00% and 7.50% of covered compensation for the years ended December 31, 2023 and 2022, respectively. This rate increases 0.50% per year until it reaches 9.00%. After this, the contribution rate will remain at 9.00% of covered compensation. Active participants hired on or after January 1, 2018 contribute 9.00% of covered compensation.

Accumulated contributions are credited at the rate of interest established by the Board of Trustees. The current crediting rate is 2.00%.



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Contributions by Employers

The System’s statutory required contribution rate applied to St. Louis Public Schools and the Retirement System was 14.00% and 14.50% of annual payroll for the years ended December 31, 2023 and 2022, respectively. For all other employers, the System’s contractually required contribution rate was set at 13.50% and 14.00% of covered payroll for the years ended December 31, 2023 and 2022, respectively.

Contributions to the pension plan for System employees were \$82,928 and \$81,944 for the years ended December 31, 2023 and 2022 respectively.

Expenses

Operating expenses are paid out of investment income.

Investment Policy

The System’s policy in regards to the allocation of invested assets is established and may be amended by the System’s Board of Trustees. Investments are managed on a total return basis with a long-term objective of maintaining a fully funded status for the benefits provided through the pension plan. The following was the System’s adopted asset allocation policy as of June 23, 2022:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Domestic Equity	31.5 %	7.5 %
International Equity	16.5 %	8.5 %
Domestic Bonds	16.6 %	2.5 %
International Bonds	8.4 %	3.5 %
Real Estate	7.0 %	4.5 %
Alternative Assets	<u>20.0 %</u>	<u>5.9 %</u>
Total/Average	100.0 %	5.9 %

The long-term real return expectations remove the 2.5 percent inflation rate embedded in each nominal return assumption.

The 5.0 percent target allocation to Global Equity is allocated 3.5 percent to Domestic Equity and 1.5 percent to International Equity.

The 9.0 percent target allocation to Global Multi-Sector Fixed Income is allocated 3.6 percent to Domestic Bonds and 5.4 percent International Bonds.

Alternative Assets include the target allocations to Global Asset Allocation, Hedge Funds, Private Equity and Private Debt. The Alternative Assets return assumption is based on an aggregation of multiple global asset class assumptions.





2. Summary of Significant Accounting Policies

Basis of Presentation and Accounting

The financial statements of the System have been prepared in accordance with the criteria established by the Governmental Accounting Standards Board (“GASB”), which is the source of authoritative accounting principles generally accepted in the United States of America (“GAAP”), as applied to governmental units. The System’s financial statements are prepared using the accrual basis of accounting.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

Receivables

Receivables consist of pending interest and dividends payable on investments held at the end of the year. Other receivables are amounts due to the System from members or family members of a deceased member for overpaid benefits.

Investment Valuation

Investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 4 for discussion of fair value measurements. Short-term investments are reported at cost, which approximates fair value. Securities traded on national or international exchanges are valued at the latest reported sales price at current exchange rates.

Limited Partnerships

Fair values of the limited partnership investments are based on valuations of the underlying companies of the limited partnerships as reported by the general partner. Certain limited partnerships reflect values on a quarter lag basis due to the nature of those investments and the time it takes to value them.

Alternative Investments

For alternative investments where no readily ascertainable fair value exists, management, in consultation with their investment advisors, values these investments in good faith based upon audited financial statements, cash flow analysis, purchase and sales of similar investments, other practices used within the industry, or other information provided by the underlying investment advisors. The estimated fair value of these investments may differ significantly from values that would have been used had a ready market existed.

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Investment Income

Investment income includes: realized gains (losses), unrealized appreciation (depreciation), dividends, interest, and other investment income. Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

Investment Expenses

Investment expenses consist of investment manager, investment advisor, limited partnership, and custodial bank fees.

Fair Value Measurements

The System follows guidance issued by the GASB on fair value measurements, which establishes a framework for measuring fair value, clarifies the definition of fair value within that framework, and expands disclosures about the use of fair value measurements. This guidance applies whenever fair value is the applicable measurement. The three general valuation techniques used to measure fair value are the market approach, cost approach, and income approach.

Furniture and Equipment

Acquisitions of furniture and equipment are charged to operating expense when purchased. The value of furniture and equipment owned by the System is deemed to be immaterial in relation to the total assets of the System.

Property and Building

The System records property, building, and related improvements at cost while expenditures for normal repairs and maintenance, which do not extend the useful life of the assets, are charged to operations as incurred. The System uses the straight-line method for the depreciation of the building and improvements over the estimated life of 40 years.

Long-Lived Asset Impairment

The System evaluates the recoverability of the carrying value of long-lived assets whenever events or circumstances indicate the carrying amount may not be recoverable. If a long-lived asset is tested for recoverability and the undiscounted estimated future cash flows expected to result from the use and eventual disposition of the asset are less than the carrying amount of the asset, the asset cost is adjusted to fair value and an impairment loss is recognized as the amount by which the carrying amount of a long-lived asset exceeds its fair value. The System does not believe any impairment exists as of December 31, 2023 and 2022.

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Deferred Outflows and Inflows of Resources

In addition to assets and liabilities, the statements of fiduciary net position will sometimes include separate sections for deferred outflows and inflows of resources. Deferred outflows of resources represent a consumption of net assets that applies to future periods and deferred inflows of resources represent the acquisition of net assets that applies to future periods. The System has deferred outflows and inflows in the statements of fiduciary net position that relate to pension related deferrals required by GASB Statement No. 68.

Pensions

Pension-related expenses, liabilities, deferred outflows of resources, and deferred inflows of resources have been determined on the same basis as they are reported by the System. For this purpose, benefit payments are recognized when due and payable in accordance with the benefit terms.

Subsequent Events

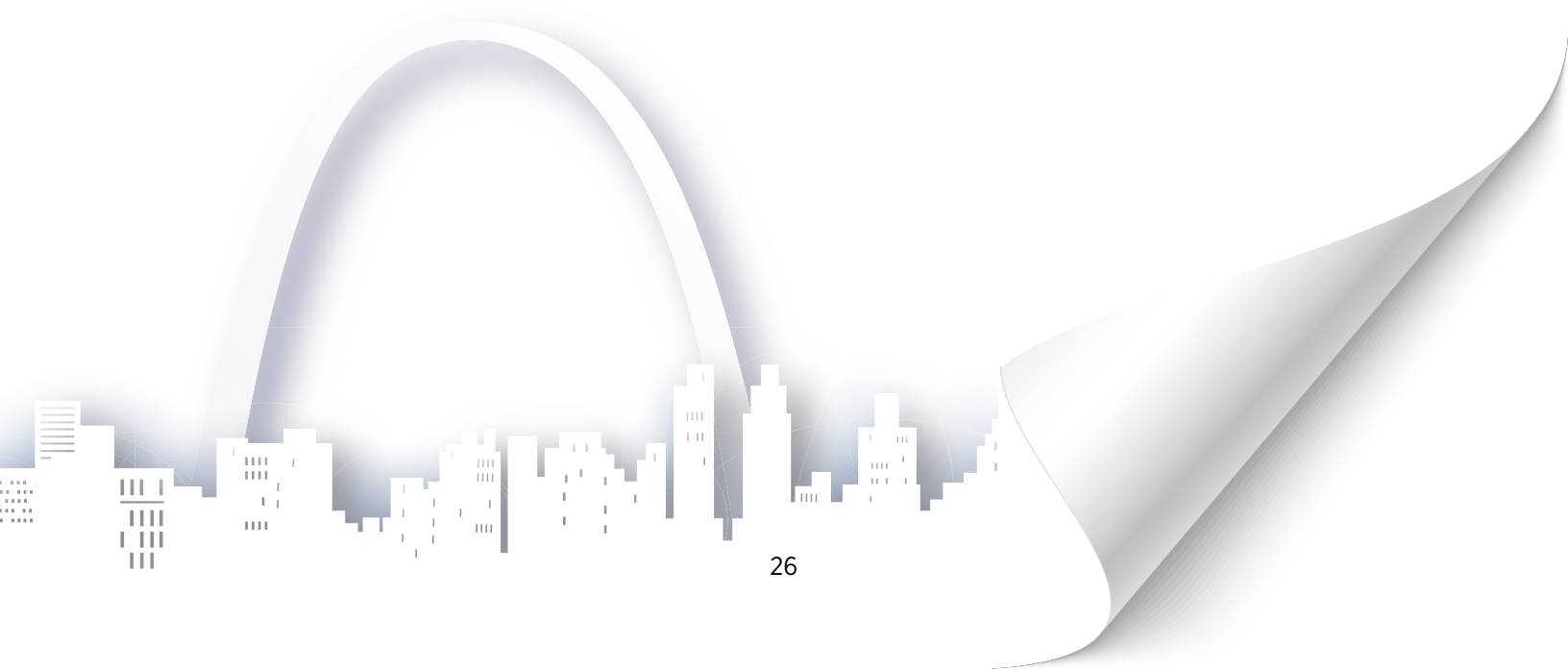
The System has evaluated subsequent events through April 12, 2024, the date the financial statements were available to be issued.

Recent Accounting Pronouncements

GASB Statement No. 101: *Compensated Absences* will be effective for the fiscal year ending December 31, 2024.

GASB Statement No. 102: *Certain Risk Disclosures* will be effective for the fiscal year ending December 31, 2025.

Based on preliminary analysis, the System does not expect the new guidance to have a significant impact on its financial statements.



Financial Section



3. Investments

At December 31, 2023 and 2022, investments consisted of the following:

2023	Fair Value	Cost
Cash Equivalents	\$ 27,701,835	\$ 27,701,835
Bonds		
U.S. Government and Agency Issues	42,407,500	43,655,139
Corporate	23,284,426	24,557,323
Foreign Investments (Bonds and Stocks)	83,077,338	75,161,912
Common and Preferred Stocks	170,482,041	128,644,326
Mutual and Co-Mingled Funds	341,063,608	207,920,668
Real Estate Partnerships	48,396,585	71,763,617
Limited Partnerships	<u>102,221,292</u>	<u>99,790,453</u>
	<u>\$838,634,625</u>	<u>\$679,195,273</u>
2022	Fair Value	Cost
Cash Equivalents	\$ 42,341,245	\$ 42,341,245
Bonds		
U.S. Government and Agency Issues	27,967,198	31,627,324
Corporate	24,014,626	29,204,790
Foreign Investments (Bonds and Stocks)	82,019,025	83,030,978
Common and Preferred Stocks	183,586,017	157,451,421
Mutual and Co-Mingled Funds	300,787,261	207,776,469
Real Estate Partnerships	56,478,101	71,057,149
Limited Partnerships	<u>89,578,769</u>	<u>85,428,316</u>
	<u>\$806,772,242</u>	<u>\$707,917,692</u>



4. Fair Value Measurements

The framework for measuring fair value establishes a fair value hierarchy which prioritizes the inputs to valuation techniques used to measure fair value into Levels 1, 2, and 3. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy are described as follows:

Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical instruments in active markets.

Level 2 Inputs to the valuation methodology include quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in inactive markets, inputs other than quoted prices that are observable for the instrument, or inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

Investments that are measured at fair value using the net asset value (“NAV”) per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy.

The fair value amounts presented in the tables are intended to permit reconciliation of the fair value hierarchy to the line items presented in the statements of fiduciary net position. The instrument’s fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Carrying amounts of certain financial instruments such as cash, receivables, accounts payable, and accrued expenses approximate fair value due to their short maturities or because the terms are similar to market terms. There have been no changes in the methodologies used at December 31, 2023 and 2022.

Following is a description of the valuation methodologies used for investments measured at fair value.

Level 1 Investments consist of publicly traded common and preferred stocks and mutual funds. These investments are valued using the closing price reported on the active market on which the individual securities are traded.

Level 2 Investments consist of corporate and foreign bonds and stocks, U.S. government securities and agency issues, and cash equivalent accounts. These securities are valued using pricing models maximizing the use of observable inputs for similar securities. This includes basing value on yields currently available on comparable securities of issuers with similar credit ratings.

Level 3 Investments consist of real estate partnerships and limited partnerships. Real estate partnerships are valued at fair value as determined by the general partner. Limited partnerships are valued based on valuations of the underlying companies of the limited partnerships as reported by the general partner.

Financial Section



Investments also consist of co-mingled funds. These securities are valued at the NAV based on shares held by the System at year-end. The NAV is used as a practical expedient to estimate fair value.

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the System believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following table presents the fair value measurements of instruments recognized in the accompanying statements of fiduciary net position measured at fair value on a recurring basis and the level within the fair value hierarchy in which the fair value measurements are categorized at December 31, 2023 and 2022:

2023	Fair Value Measurements			
	Total	Level 1	Level 2	Level 3
Cash Equivalents	\$ 27,701,835	\$ -	\$ 27,701,835	\$ -
U.S. Government and Agency Issues	42,407,500	-	42,407,500	-
Corporate Bonds	23,284,426	-	23,284,426	-
Foreign Investments	83,077,338	-	83,077,338	-
Common and Preferred Stocks	170,482,041	170,482,041	-	-
Mutual Funds	239,054,806	239,054,806	-	-
Real Estate Partnerships	48,396,585	-	-	48,396,585
Limited Partnerships	<u>102,221,292</u>	-	-	<u>102,221,292</u>
Total Assets in Fair Value Hierarchy	736,625,823	\$409,536,847	\$176,471,099	\$150,617,877
Investments Measured at NAV	<u>102,008,802</u>			
	\$838,634,625			
2022				
Cash Equivalents	\$ 42,341,245	\$ -	\$ 42,341,245	\$ -
U.S. Government and Agency Issues	27,967,198	-	27,967,198	-
Corporate Bonds	24,014,626	-	24,014,626	-
Foreign Investments	82,019,025	-	82,019,025	-
Common and Preferred Stocks	183,586,017	183,586,017	-	-
Mutual Funds	195,428,613	195,428,613	-	-
Real Estate Partnerships	56,478,101	-	-	56,478,101
Limited Partnerships	<u>89,578,769</u>	-	-	<u>89,578,769</u>
Total Assets in Fair Value Hierarchy	701,413,594	\$379,014,630	\$176,342,094	\$146,056,870
Investments Measured at NAV	<u>105,358,648</u>			
	\$806,772,242			

Financial Section



Investments measured at fair value based on NAV per share practical expedient as of December 31, are as follows:

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
December 31, 2023				
Co-mingled Funds	\$102,008,802	N/A	Daily	30 days
December 31, 2022				
Co-mingled Funds	\$105,358,648	N/A	Daily	30 days

The following table provides a summary of changes in fair value of the System's Level 3 assets for the years ended December 31, 2023 and 2022, as follows:

	Limited Partnerships	Real Estate Partnerships	Total
December 31, 2021			
Realized Gains	\$ 79,213,149	\$ 54,001,917	\$133,215,066
Unrealized Gains (losses)	3,638,927	29,379	3,668,306
Purchases, Sales, Issuances, and Settlements (net)	(868,982)	882,239	13,257
Investment Income, net	5,178,501	-	5,178,501
Management fees	2,417,174	2,038,987	4,456,161
	-	(474,421)	(474,421)
December 31, 2022			
Realized Gains	\$89,578,769	\$ 56,478,101	\$146,056,870
Unrealized Gains (losses)	1,768,702	60,645	1,829,347
Purchases, Sales, Issuances, and Settlements (net)	(1,719,614)	(8,787,984)	(10,507,598)
Investment Income, net	9,634,010	(915,771)	8,718,239
Management fees	2,959,425	1,986,125	4,945,550
	-	(424,531)	(424,531)
December 31, 2023			
	\$102,221,292	\$48,396,585	\$ 150,617,877

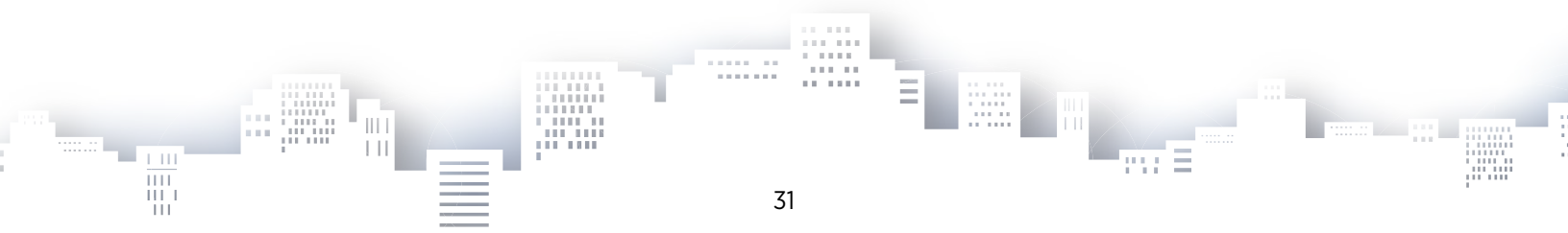
Financial Section



All assets have been valued using a market approach, except for Level 3 assets. Fair values in Level 2 are calculated using quoted market prices for similar assets in markets that are not active. The following table describes the valuation technique used to calculate fair values for assets in Level 3. Annually, management determines if the current valuation techniques used in the fair value measurements are still appropriate and evaluates and adjusts the unobservable inputs used in the fair value measurements based on third-party information. There were no changes in the valuation techniques during the current year.

	Fair Value	Valuation Technique	Unobservable Inputs
December 31, 2023			
Limited Partnerships	\$102,221,292	Basis in LLC	Undistributed Income
Real Estate Partnerships	\$48,396,585	Basis in LLC	Undistributed Income
December 31, 2022			
Limited Partnerships	\$89,578,769	Basis in LLC	Undistributed Income
Real Estate Partnerships	\$56,478,101	Basis in LLC	Undistributed Income

The significant unobservable inputs used in the fair value measurement of the System’s investments in limited partnerships are the original cost of the investment in the partnership plus the cumulative net income of the partnership through the end of the most recent fiscal year. Significant increases or decreases in the partnership’s cumulative net income as of December 31, 2023 and 2022 could result in a significantly higher or lower fair value measurement.



Financial Section



5. Risks and Uncertainties

Custodial Credit Risk

Financial instruments that potentially subject the System to concentrations of custodial credit and market risk consist principally of cash and investments. The System places its temporary cash investments with major financial institutions. At December 31, 2023, the System had approximately \$10,223,000 in cash on deposit at US Bank. These balances were insured by the Federal Deposit Insurance Corporation (“FDIC”) for \$250,000. The remaining balances are collateralized by US Bank’s assets held jointly in the name of US Bank, N.A. and the System, held by the Federal Home Loan Bank of Cincinnati as Trustee. Regulations require that government entities, in case of bank failure, have collateral to cover losses that could exceed the FDIC limit of \$250,000. The fair value of the collateralized securities at December 31, 2023 was \$11,000,000. A significant portion of the System’s investments are held in trust by US Bank of St. Louis, N.A.

On December 8, 2023 and December 28, 2022, the System received \$23,660,874 and \$26,736,269, respectively, from the St. Louis Board of Education for the 2023 and 2022 St. Louis Public Schools’ annual regular pension contribution and sick leave conversion contribution and held it in a cash equivalents account until investment allocations were implemented.

The System invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such change could materially affect the amounts reported in the accompanying statements of fiduciary net position.

Concentration of Credit Risk

At December 31, 2023 and 2022, the System had the following concentrations, defined as investments (other than those issued or guaranteed by the U.S. Government) in any one organization that represent 5% or more of net position held in trust for pension benefits.

Investments	Fair Value	Percentage of Total Net Position
2023		
UBS Realty Investors, LLC	\$48,396,585	5.7%
Causeway	\$50,875,194	6.0%
Fidelity Institutional Asset Mgmt	\$44,199,969	5.2%
Mellon Capital Management	\$49,395,186	5.8%
Edgar Lomax Company	\$69,192,117	8.2%
2022		
UBS Realty Investors, LLC	\$56,478,101	6.9%
Causeway	\$48,057,015	5.9%
Fidelity Institutional Asset Mgmt	\$42,377,586	5.2%
Mellon Capital Management	\$42,886,573	5.2%
Edgar Lomax Company	\$73,437,780	9.0%

Financial Section

**Credit Risk of Debt Securities**

The System's debt investments as of December 31, 2023 were rated by Moody's Investor Services ("Moody's") and the ratings are presented using the Moody's rating scale. The System's policy to limit credit risk is that the overall average quality of each high-grade domestic fixed income portfolio shall be AA or better and the average quality rating of securities held in a domestic high-yield portfolio shall be B or better. The overall average quality of each global fixed income portfolio shall be A or better. Non-rated issues are allowed as long as the quality is sufficient to maintain the overall average rating noted.

As of December 31, 2023, the System held the following fixed income investments with respective Moody's quality ratings or equivalent rating. Obligations of the U.S. Government or obligations explicitly guaranteed by the U.S. Government are not considered to have credit risk. Foreign investments not considered to have credit risk such as stocks and cash equivalents are not included in the following:

Quality Rating	Corporate Bonds	Foreign Government and Corporate Obligations	U.S. Government and Agency Issues	Total
Aaa	\$ 1,095,374	\$ 87,861	\$ 16,972,109	\$ 18,155,344
Aa1	105,220	-	-	105,220
Aa2	115,118	-	216,706	331,824
Aa3	516,047	-	434,964	951,011
A1	1,959,899	182,516	-	2,142,415
A2	1,230,595	-	-	1,230,595
A3	2,173,382	-	108,684	2,282,066
Baa1	1,354,624	51,141	-	1,405,765
Baa2	3,949,861	695,248	-	4,645,109
Baa3	3,299,385	424,589	-	3,723,974
Ba1	1,390,962	36,085	-	1,427,047
Ba2	603,880	-	-	603,880
Ba3	417,128	116,893	-	534,021
B1	467,913	128,122	-	596,035
B2	199,942	7,738	-	207,680
B3	195,829	-	-	195,829
Caa1	32,710	-	-	32,710
Caa2	43,230	-	-	43,230
Not rated	<u>4,133,327</u>	<u>22,819</u>	<u>24,675,037</u>	<u>28,831,183</u>
Total	\$23,284,426	\$1,753,012	\$42,407,500	\$67,444,938

Financial Section



As of December 31, 2022, the System held the following fixed income investments with respective Moody's quality ratings or equivalent rating.

Quality Rating	Corporate Bonds	Foreign Government and Corporate Obligations	U.S. Government and Agency Issues	Total
Aaa	\$ 2,626,479	\$ 164,124	\$ 14,067,812	\$16,858,415
Aa1	12,195	-	-	12,195
Aa2	137,023	-	-	137,023
Aa3	235,212	-	370,906	606,118
A1	682,121	-	-	682,121
A2	1,138,747	-	-	1,138,747
A3	520,214	-	141,816	662,030
Baa1	995,503	86,320	-	1,081,823
Baa2	2,163,784	-	-	2,163,784
Baa3	3,410,262	474,295	-	3,884,557
Ba1	884,832	35,190	-	920,022
Ba2	397,921	-	-	397,921
Ba3	305,484	116,157	-	421,641
B1	305,512	61,844	-	367,356
B2	146,559	75,287	-	221,846
B3	170,958	12,712	-	183,670
Caa1	43,060	-	-	43,060
Caa2	11,266	-	-	11,266
Not rated	9,827,494	1,474,420	13,386,664	24,688,578
Total	\$24,014,626	\$2,500,349	\$ 27,967,198	\$54,482,173



Financial Section

**Foreign Currency Risk**

Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The System does not have a formal policy to limit foreign currency risk. The System's exposure to foreign currency risk in U.S. Dollars as of December 31, 2023 is as follows:

Currency	Cash Equivalents	Equities	Total
British Pound Sterling	\$17,957	\$21,068,898	\$21,086,855
Canadian Dollar	5	2,002,320	2,002,325
Danish Krone	-	446,270	446,270
Euro	51,236	25,942,741	25,993,977
Hong Kong Dollar	-	1,604,694	1,604,694
Indonesian Rupee	-	29,305	29,305
Israeli New Sheqel	-	53,131	53,131
Japanese Yen	8,437	6,037,823	6,046,260
Korean Won	-	2,788,919	2,788,919
Mexican Peso	-	80,115	80,115
Norwegian Krone	-	62,534	62,534
Singapore Dollar	-	690,688	690,688
Swedish Krona	-	677,689	677,689
Swiss Franc	63	4,730,604	4,730,667
Thai Baht	-	142,038	142,038
	<u>\$77,698</u>	<u>\$66,357,769</u>	<u>\$66,435,467</u>
Foreign Investment Denominated in U.S. Dollars			<u>16,719,569</u>
			<u>\$83,155,036</u>

The System's exposure to foreign currency risk in U.S. Dollars as of December 31, 2022 is as follows:

Currency	Cash Equivalents	Equities	Total
British Pound Sterling	\$54,255	\$ 17,211,264	\$ 17,265,519
Canadian Dollar	3,451	1,847,275	1,850,726
Danish Krone	-	380,027	380,027
Euro	59,550	25,785,754	25,845,304
Hong Kong Dollar	-	2,668,961	2,668,961
Japanese Yen	19,520	5,430,935	5,450,455
Korean Won	-	1,887,099	1,887,099
Swedish Krona	-	769,147	769,147
Swiss Franc	2,736	5,091,638	5,094,374
Thai Baht	-	315,229	315,229
	<u>\$139,512</u>	<u>\$61,387,329</u>	<u>\$61,526,841</u>
Foreign Investment Denominated in U.S. Dollars			<u>20,631,696</u>
			<u>\$ 82,158,537</u>

Financial Section



Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The System’s fixed income investments are managed in accordance with policies established by the Board that are specific as to the degree of interest rate risk that can be taken. The System’s policies established by the Board manage the interest rate risk within the portfolio using various methods, including effective duration, option adjusted duration, average maturity, and segmented time distribution, which reflects total fair value of investments maturing during a given time period. The System does not have a specific investment policy on interest rate risk. However, domestic bond managers are limited to seven years average duration and global bond managers cannot differ from the passive benchmark by more than two years as a means of managing its exposure to fair value losses arising from increasing interest rates.

The segmented time distribution of the various investment types of the System’s debt securities at December 31, 2023 is as follows:

Type	2023 Fair Value	Less Than 1 Year	1 to 5 Years	6 to 10 Years	More Than 10 Years
Corporate Bonds	\$23,284,426	\$213,658	\$8,988,438	\$ 6,547,857	\$ 7,534,473
Foreign Government and Corporate Obligations	1,753,012	-	1,105,522	229,253	418,237
U.S. Government and Agency Issues	<u>42,407,500</u>	<u>4,388</u>	<u>4,037,228</u>	<u>6,448,440</u>	<u>31,917,444</u>
Total	\$67,444,938	\$218,046	\$ 14,131,188	\$13,225,550	\$39,870,154

The segmented time distribution of the various investment types of the System’s debt securities at December 31, 2022 is as follows:

Type	2022 Fair Value	Less Than 1 Year	1 to 5 Years	6 to 10 Years	More Than 10 Years
Corporate Bonds	\$24,014,626	\$46,080	\$ 7,301,162	\$ 6,353,403	\$ 10,313,981
Foreign Government and Corporate Obligations	2,500,349	-	678,147	697,398	1,124,804
U.S. Government and Agency Issues	<u>27,967,198</u>	<u>4,871</u>	<u>5,402,114</u>	<u>3,034,226</u>	<u>19,525,987</u>
Total	\$54,482,173	\$ 50,951	\$13,381,423	\$10,085,027	\$30,964,772

Financial Section



6. Property and Building

Property and building as of December 31, consists of:

	2023	2022
Land	\$ 229,451	\$ 229,451
Building	2,065,061	2,065,061
Tenant Improvements	<u>158,120</u>	<u>158,120</u>
	2,452,632	2,452,632
Less accumulated depreciation	<u>1,035,770</u>	<u>984,144</u>
Property and Building, net	<u>\$1,416,862</u>	<u>\$1,468,488</u>

Depreciation expense totaled \$51,626 for each of the years ended December 31, 2023 and 2022.

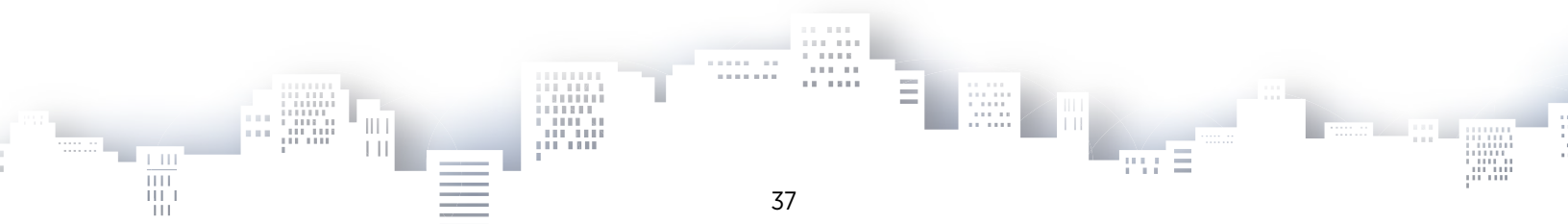
7. Occupancy

The System occupies offices in a building it owns. Occupancy expenses for the years ended December 31, 2023 and 2022 were \$43,125 and \$40,532, respectively.

The System leases a portion of its building to an unrelated party. The current lease agreement extends the term to May 2024 with an annual rent of \$177,288. Rental income received for the years ended December 31, 2023 and 2022 totaled \$179,383 and \$173,594, respectively.

8. Tax Status of Plan

The Internal Revenue Service has determined and informed the System by a letter dated December 15, 2016, that the System and related trust and amendments are designed in accordance with the applicable sections of the Internal Revenue Code (“IRC”). Management believes that the System is designed and is currently being operated in compliance with the applicable requirements of the IRC and therefore believes that the System is qualified and the related trust is tax-exempt.



Financial Section



9. Retirement Plan of the System

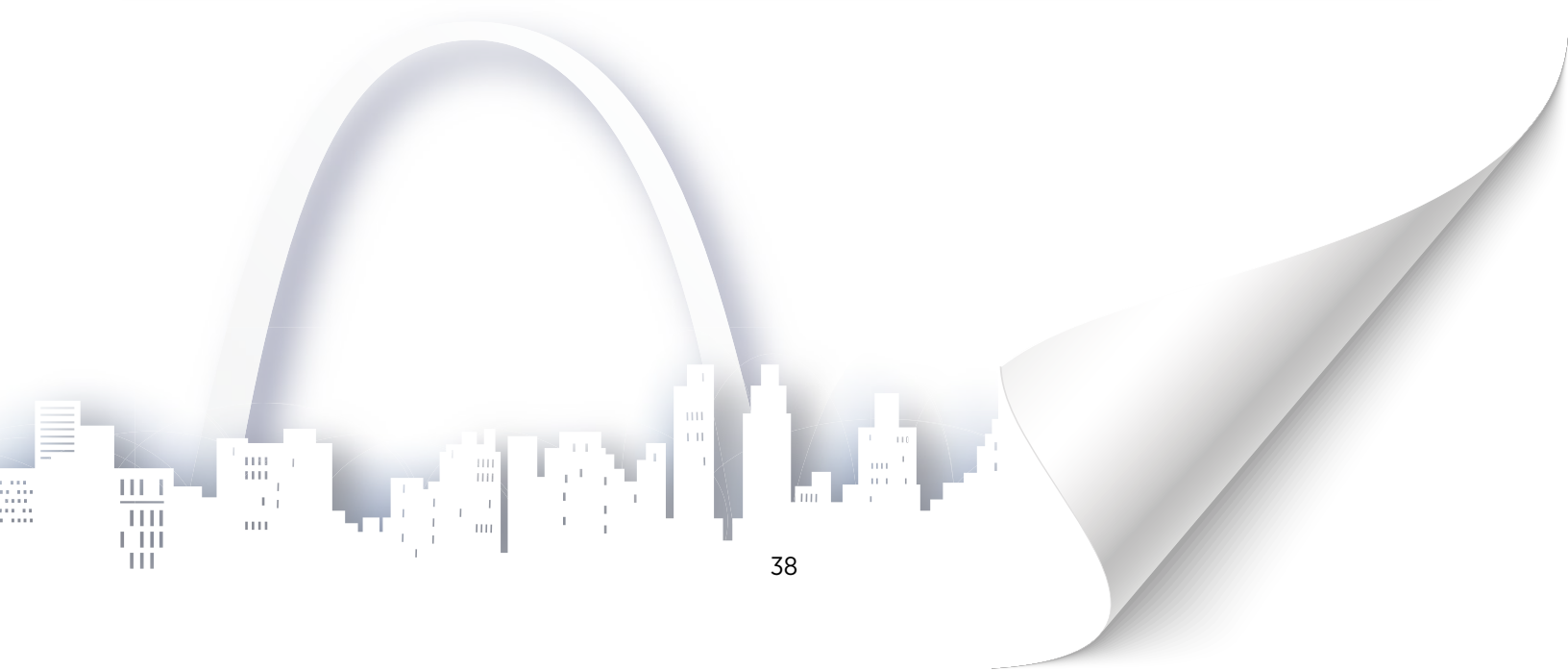
Pension Liabilities, Pension Expense, Deferred Outflows and Deferred Inflows of Resources Related to Pensions

At December 31, 2023 and 2022, the System reported a liability of \$1,070,465 and \$713,847, respectively, as its proportionate share of the net pension liability. The net pension liability was measured as of December 31, 2022 and 2021, respectively, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date.

The System’s proportionate share of the net pension liability was based on the System’s actual employer’s compensation relative to the actual compensation of all participating employers for the System’s plan years ended December 31, 2022 and 2021. At December 31, 2022 and 2021, the System’s portion was 0.24%.

For the year ended December 31, 2023, the System recognized pension expense of \$(75,259) consisting of the current year contribution, pension liability adjustment, and amortization of deferred outflows and inflows of resources. At December 31, 2023, the System reported deferred outflows and inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Difference Between Expected and Actual Experience	\$ 19,503	\$20,614
Changes in Assumptions	11,017	-
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	212,461	-
Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	115,565	42,533
System Contributions Subsequent to the Measurement Date of December 31, 2022	<u>82,928</u>	<u>-</u>
Total	<u>\$441,474</u>	<u>\$63,147</u>



Financial Section



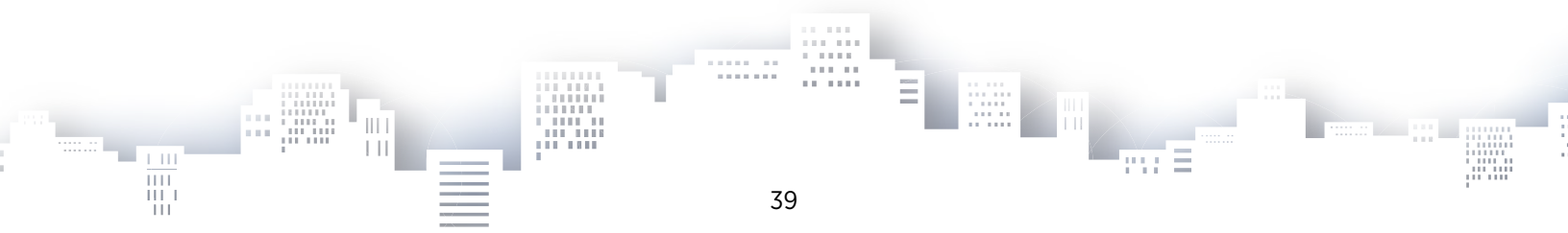
For the year ended December 31, 2022, the System recognized pension expense of \$(233,541) consisting of the current year contribution, pension liability adjustment, and amortization of deferred outflows and inflows of resources. At December 31, 2022, the System reported deferred outflows and inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Difference Between Expected and Actual Experience	\$ 4,917	\$ 37,612
Changes in Assumptions	19,927	198,933
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	-	116,385
Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	225,492	60,820
System Contributions Subsequent to the Measurement Date of December 31, 2021	<u>81,943</u>	<u>-</u>
Total	\$331,381	\$413,750

The System’s total pension liability in the December 31, 2022 and 2021 actuarial valuation was determined using the actuarial assumptions disclosed in Note 12.

Deferred outflows of resources of \$82,928 resulting from the System’s contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended December 31, 2024. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense in the System’s year ending December 31 as follows:

Year	Amount
2024	\$ 37,556
2025	79,390
2026	78,969
2027	<u>99,484</u>
Total	\$295,399



Financial Section



Discount Rate

The discount rate used to measure the total pension liability was 7.00 percent for each of the years ended December 31, 2023 and 2022. The projection of cash flows used to determine the discount rate assumed that System contributions will continue to follow the funding policy established prior to the year ended December 31, 2023. Based on those assumptions, the System’s contributions will continue to follow the current funding policy.

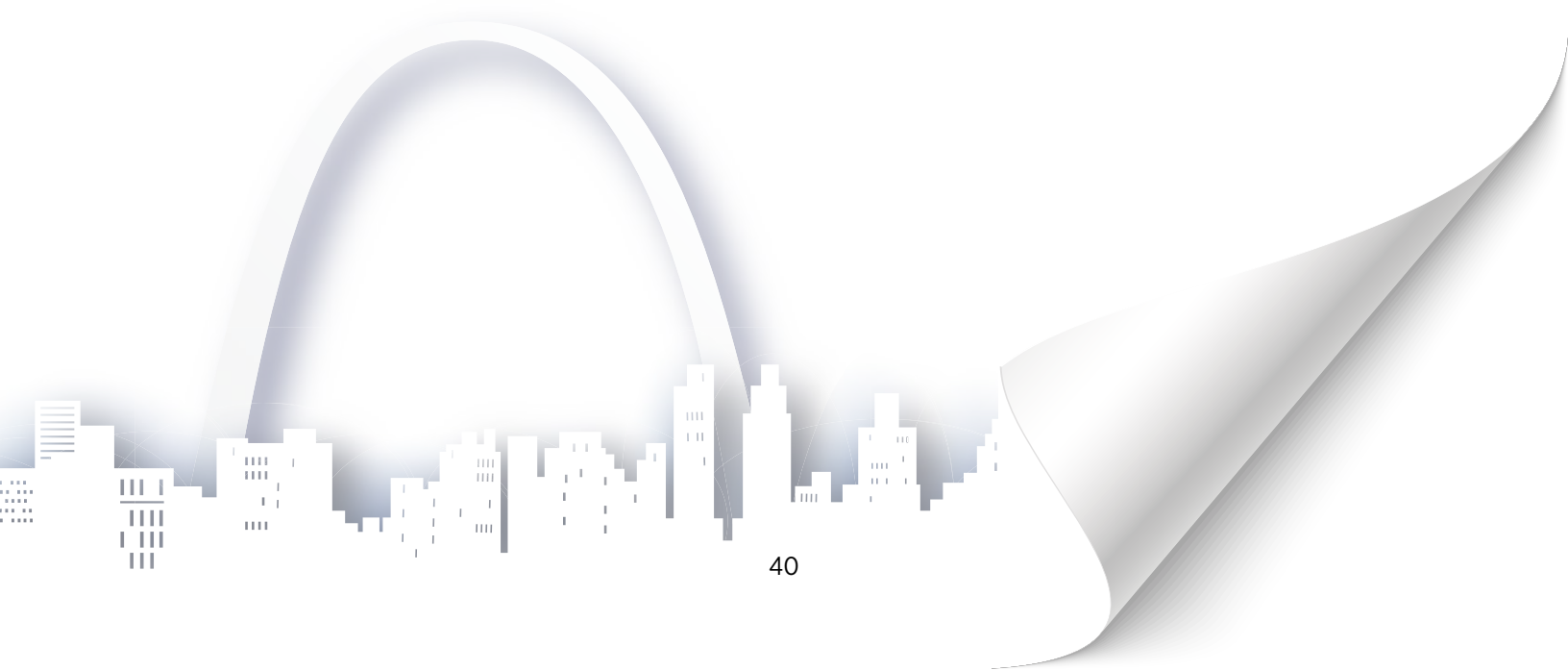
Sensitivity of the System’s Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the System’s proportionate share of the net pension liability calculated using the discount rate of 7.00 percent for the years ended December 31, 2023 and 2022 as well as what the System’s proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

System’s Proportionate Share of the Net Pension Liability	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Year Ended December 31, 2023	\$ 1,384,718	\$1,070,465	\$ 843,287
Year Ended December 31, 2022	\$1,008,266	\$ 713,847	\$460,866

10. Annual Money-Weighted Rate of Return

The annual money-weighted rate of return was 5.99 percent for the years ended December 31, 2023 and 2022. The annual money-weighted rate of return expresses investment performance, net of investment expense, and adjusted for the changing amounts actually invested.



Financial Section

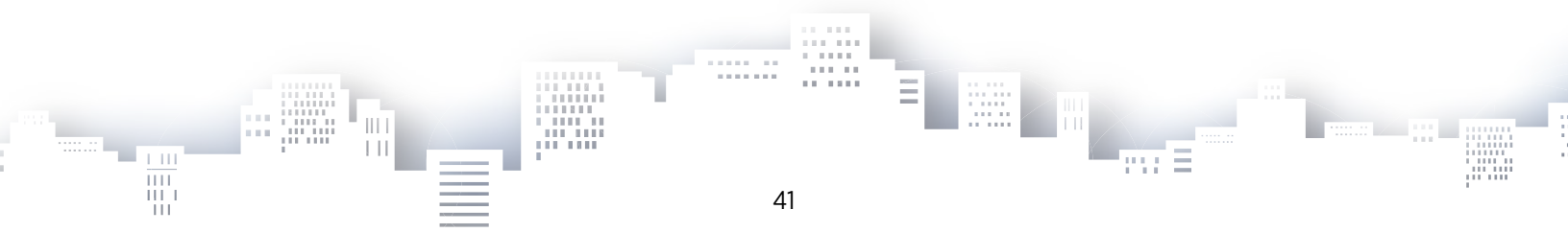


11. Funding Status

The funded status as of January 1, which is the most recent actuarial date is as follows:

	2023	2022
Actuarial value of assets	\$940,664,216	\$943,201,853
Actuarial accrual liability (AAL)	\$1,284,040,175	\$1,279,847,074
Unfunded AAL (UAAL)	\$343,375,959	\$336,645,221
Funded ratio	73.3 %	73.7 %
Annual covered payroll	\$285,949,641	\$259,440,417
UAAL as a percentage of payroll	120.1 %	129.8 %

The funded ratio decreased by 0.4% from the previous year.



Financial Section



Additional information regarding assumptions used in the actuarial valuation is as follows:

	January 1, 2023	January 1, 2022
Actuarial Cost Method	Entry age normal	Entry age normal
Rate of Investment Return	7.00%, net of expenses	7.00%, net of expenses
Participant Account Interest Crediting Rate	2.00%	5.00%
Turnover or Withdrawal Rates	Various by age and year of membership based on actual experience	Various by age and year of membership based on actual experience
Mortality and Death Rates	<p>a) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP-2021. The mortality assumption for retired participants receiving benefits increased by 2% for males and 10% for females.</p> <p>b) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP-2021.</p>	<p>a) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP-2021. The mortality assumption for retired participants receiving benefits increased by 2% for males and 10% for females.</p> <p>b) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP-2021.</p>
Disability Rates	PubT/G-2010 Mortality Disability Table, amount weighted, projected fully generationally using projection scale MP-2021.	PubT/G-2010 Mortality Disability Table, amount weighted, projected fully generationally using projection scale MP-2021.
Rates of Retirement Between the Ages of 55 and 70	Various based on actual experience of the System	Various based on actual experience of the System
Rate of Salary Increases	Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and at the rate of 3.5% per year thereafter	Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and at the rate of 3.5% per year thereafter
Asset Valuation Method	The smoothed market value method	The smoothed market value method

Effective January 1, 2022, amortization is based on a fifteen (15) year closed, level dollar amount. All future changes in the accrued liability due to amendments, experience gains and losses, and assumption changes are amortized over a 15-year closed, layered method.



12. Employers' Net Pension Liability

The components of the net pension liability (the retirement system's liability determined in accordance with GASB Statement No. 67 less the fiduciary net position) as of December 31, 2023, are shown in the *Schedule of Net Pension Liability* below.

Actuarial valuation of an ongoing plan involves estimates of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The last experience study was performed in 2021. The net pension liability as of December 31, 2023 and 2022 is \$434,531,408 and \$454,771,409, respectively, based on actuarial valuations. The 2023 valuation was performed as of June 2022, with a measurement date of January 1, 2023, rolled forward and updated to December 31, 2023 using generally accepted actuarial procedures. The 2022 valuation was performed as of June 2021, with a measurement date of January 1, 2022, rolled forward and updated to December 31, 2022 using generally accepted actuarial procedures.

Schedule of Net Pension Liability

The components of the net pension liability of all participating employers at December 31, 2023 and 2022, are as follows:

	2023	2022
Total Pension Liability	\$1,283,551,323	\$1,272,639,388
Less: Fiduciary Net Position	<u>849,019,915</u>	<u>817,867,979</u>
Employers' Net Pension Liability	\$ 434,531,408	\$ 454,771,409
Plan Net Position as a Percentage of Total Pension Liability	66.15%	64.27%

Financial Section



Sensitivity of Net Pension Eligibility to Changes in the Discount Rate

The following presents the net pension liability at December 31, 2023, calculated using the discount rate of 7.00 percent, as well as what the net pension liability would have been if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the current rate:

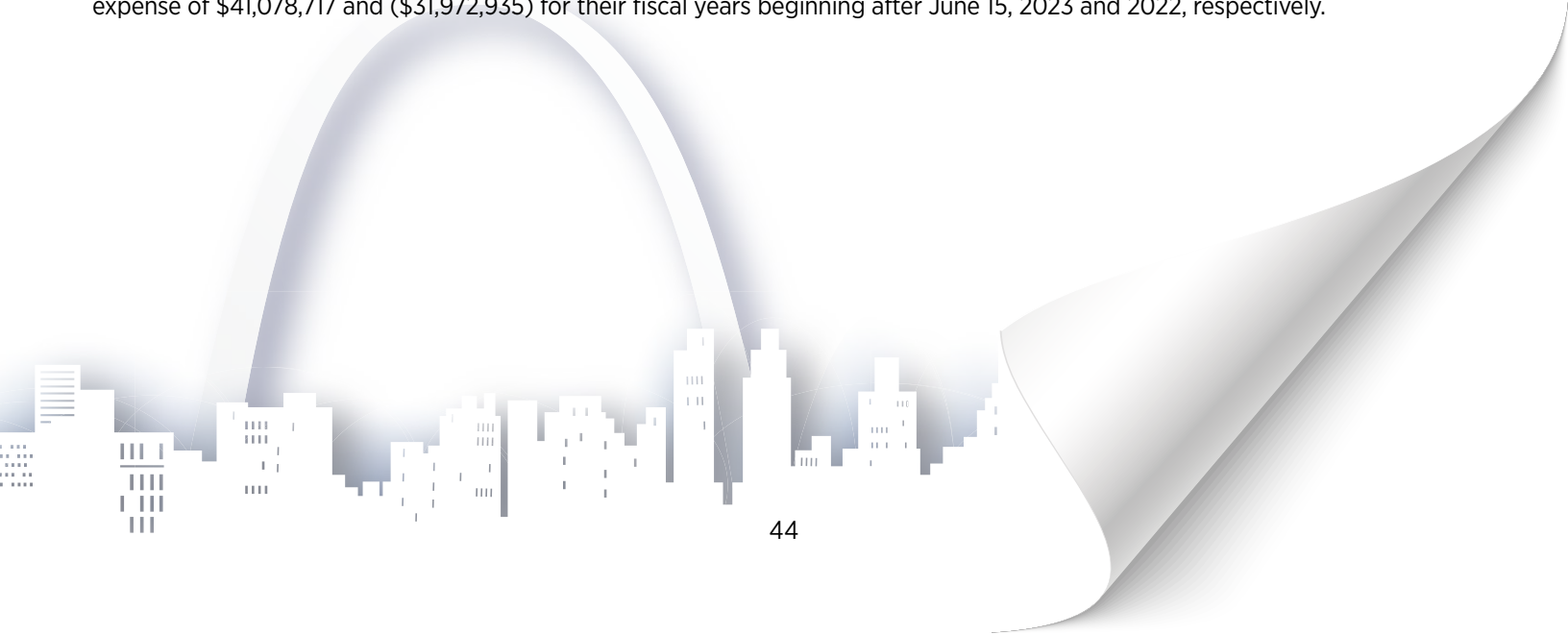
Net Pension Liability – 2023	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
	\$577,666,111	\$434,531,408	\$330,442,105


The following presents the net pension liability at December 31, 2022, calculated using the discount rate of 7.00 percent, as well as what the net pension liability would have been if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the current rate:

Net Pension Liability – 2022	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
	\$576,965,826	\$454,771,409	\$351,369,418

The projection of cash flows used to determine the discount rate assumed that System contributions will continue to follow the current funding policy. Based on those assumptions, the System’s contributions will continue to follow the current funding policy.

Under GASB Statement No. 68, employers participating in the plan would recognize a proportionate share of total pension expense of \$41,078,717 and (\$31,972,935) for their fiscal years beginning after June 15, 2023 and 2022, respectively.





Public School Retirement System of the City of St. Louis

Required Supplementary
Information – Unaudited



Financial Section



Schedules of Changes of Employer Net Pension Liability

for the Years Ended December 31,
Required Supplementary Information

	2023	2022	2021
Total Pension Liability			
Service Cost	\$ 23,932,967	\$ 21,576,380	\$ 21,761,352
Interest	86,902,165	86,429,627	93,253,627
Changes of Benefit Terms	-	(1,389,661)	-
Difference Between Expected and Actual Experience	12,198,842	11,135,437	(22,232,218)
Changes of Assumptions	-	-	11,880,738
Benefit Payments	<u>(112,122,039)</u>	<u>(114,552,519)</u>	<u>(113,687,442)</u>
Net Change in Total Pension Liability	10,911,935	3,199,264	(9,023,943)
Total Pension Liability - Beginning	<u>1,272,639,388</u>	<u>1,269,440,124</u>	<u>1,278,464,067</u>
Total Pension Liability - Ending	\$1,283,551,323	\$1,272,639,388	\$1,269,440,124
Plan Fiduciary Net Position			
Employer Contributions	\$ 37,930,116	\$ 41,034,190	\$ 41,226,981
Employee Contributions	24,617,494	22,794,266	20,880,189
Net Investment Income	82,391,377	(102,915,817)	111,154,045
Benefit Payments Including Refunds of Employee Contributions	(112,122,039)	(114,552,519)	(113,687,442)
Administrative Expense	(1,665,012)	(1,319,797)	(1,523,071)
Other	<u>-</u>	<u>-</u>	<u>-</u>
Net Change in Plan Fiduciary Net Position	31,151,936	(154,959,677)	58,050,702
Plan Fiduciary Net Position - Beginning	<u>817,867,979</u>	<u>972,827,656</u>	<u>914,776,954</u>
Plan Fiduciary Net Position - Ending	<u>\$ 849,019,915</u>	<u>\$ 817,867,979</u>	<u>\$ 972,827,656</u>
Net Pension Liability - Ending	<u>\$ 434,531,408</u>	<u>\$ 454,771,409</u>	<u>\$ 296,612,468</u>
Total Pension Liability	\$1,283,551,323	\$1,272,639,388	\$1,269,440,124
Less: Plan Fiduciary Net Position	<u>849,019,915</u>	<u>817,867,979</u>	<u>972,827,656</u>
Employer Net Pension Liability	\$ 434,531,408	\$ 454,771,409	\$ 296,612,468
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	66.15 %	64.27 %	76.63 %
Covered Payroll	\$ 285,949,641	\$ 259,440,417	\$ 264,676,845
Employer Net Pension Liability as a Percentage of Covered Payroll	152 %	175 %	112 %

The blended rate was changed from 7.50 percent to 7.00 percent at December 31, 2021.

The interest crediting rate updated from 5.0 percent to 2.0 percent effective January 1, 2023.

Financial Section



	2020	2019	2018
Total Pension Liability			
Service Cost	\$ 23,374,806	\$ 40,762,465	\$ 41,332,913
Interest	92,951,028	78,546,085	79,257,906
Changes of Benefit Terms	-	-	-
Difference Between Expected and Actual Experience	3,525,167	(631,432)	(21,350,805)
Changes of Assumptions	-	(392,633,162)	-
Benefit Payments	<u>(112,681,273)</u>	<u>(113,101,170)</u>	<u>(114,010,652)</u>
Net Change in Total Pension Liability	7,169,728	(387,057,214)	(14,770,638)
Total Pension Liability - Beginning	<u>1,271,294,339</u>	<u>1,658,351,553</u>	<u>1,673,122,191</u>
Total Pension Liability - Ending	\$ 1,278,464,067	\$ 1,271,294,339	\$ 1,658,351,553
Plan Fiduciary Net Position			
Employer Contributions	\$ 41,822,334	\$ 43,902,706	\$ 48,797,779
Employee Contributions	17,607,279	17,019,685	14,248,567
Net Investment Income	76,895,738	127,614,501	(41,671,079)
Benefit Payments Including			
Refunds of Employee Contributions	(112,681,273)	(113,101,170)	(1,996,982)
Administrative Expense	(1,906,813)	(1,590,013)	(1,613,506)
Other	<u>(255,913)</u>	<u>-</u>	<u>-</u>
Net Change in Plan Fiduciary Net Position	21,481,352	73,845,709	(94,632,367)
	<u>893,295,602</u>	<u>819,449,893</u>	<u>914,082,260</u>
Plan Fiduciary Net Position - Beginning	\$ 914,776,954	\$ 893,295,602	\$ 819,449,893
Plan Fiduciary Net Position - Ending	\$ 363,687,113	\$ 377,998,737	\$ 838,901,660
Net Pension Liability - Ending	\$ 1,278,464,067	\$ 1,271,294,339	\$ 1,658,351,553
Total Pension Liability	<u>914,776,954</u>	<u>893,295,602</u>	<u>819,449,893</u>
Less: Plan Fiduciary Net Position	\$ 363,687,113	\$ 377,998,737	\$ 838,901,660
Employer Net Pension Liability			
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	71.55 %	70.27 %	49.41 %
	\$ 272,973,377	\$ 263,772,380	\$ 265,773,659
Covered Payroll			
Employer Net Pension Liability as a Percentage of Covered Payroll	133 %	143 %	316 %

The blended rate was changed from 4.78 percent to 7.50 percent at December 31, 2019.

Financial Section



	2017	2016	2015	2014
Total Pension Liability				
Service Cost	\$ 19,950,269	\$ 19,260,511	\$ 19,136,245	\$ 18,728,870
Interest	92,276,865	92,358,115	93,242,628	93,305,719
Changes of Benefit Terms	18,979,978	-	-	-
Difference Between Expected and Actual Experience	(8,215,370)	6,392,416	(10,065,347)	(10,065,347)
Changes of Assumptions	397,218,720	70,532,232	-	-
Benefit Payments	<u>(112,950,471)</u>	<u>(113,608,409)</u>	<u>(113,384,329)</u>	<u>(113,082,656)</u>
Net Change in Total Pension Liability	407,259,991	74,934,865	(11,070,803)	(1,048,067)
Total Pension Liability - Beginning	<u>1,265,862,200</u>	<u>1,190,927,335</u>	<u>1,201,998,138</u>	<u>1,203,046,205</u>
Total Pension Liability - Ending	\$ 1,673,122,191	\$ 1,265,862,200	\$ 1,190,927,335	\$ 1,201,998,138
Plan Fiduciary Net Position				
Employer Contributions	\$ 41,077,344	\$ 39,519,979	\$ 40,708,503	\$ 41,757,458
Employee Contributions	12,591,552	12,652,029	11,664,711	11,887,933
Net Investment Income	124,796,919	44,492,088	(5,342,651)	35,000,792
Benefit Payments Including				
Refunds of Employee Contributions	(112,950,471)	(113,608,409)	(113,384,329)	(113,082,656)
Administrative Expense	(1,613,506)	(1,554,314)	(1,466,261)	(1,350,393)
Other	-	-	(431,423)	-
Net Change in Plan Fiduciary Net Position	63,901,838	(18,498,627)	(68,251,450)	(25,786,866)
Plan Fiduciary Net Position - Beginning	<u>850,180,422</u>	<u>868,679,049</u>	<u>936,930,499</u>	<u>962,717,365</u>
Plan Fiduciary Net Position - Ending	\$ <u>914,082,260</u>	\$ <u>850,180,422</u>	\$ <u>868,679,049</u>	\$ <u>936,930,499</u>
Net Pension Liability - Ending	\$ <u>759,039,931</u>	\$ <u>415,681,778</u>	\$ <u>322,248,286</u>	\$ <u>265,067,639</u>
Total Pension Liability	\$ 1,673,122,191	\$ 1,265,862,200	\$ 1,190,927,335	\$ 1,201,998,138
Less: Plan Fiduciary Net Position	<u>914,082,260</u>	<u>850,180,422</u>	<u>868,679,049</u>	<u>936,930,499</u>
Employer Net Pension Liability	\$ 759,039,931	\$ 415,681,778	\$ 322,248,286	\$ 265,067,639
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	54.63 %	67.16 %	72.94 %	77.95 %
Covered Payroll	\$ 260,223,066	\$ 252,127,288	\$ 245,699,583	\$ 243,280,015
Employer Net Pension Liability as a Percentage of Covered Payroll	292 %	165 %	131 %	109 %

Financial Section



Schedules of the System's Proportionate Share of the Net Pension Liability – Unaudited for the Years Ended December 31, Required Supplementary Information

	2023	2022	2021	2020	2019
System's Proportion of the Net Pension Liability	0.24 %	0.24 %	0.19 %	0.21 %	0.19 %
System's Proportionate Share of the Net Pension Liability	\$1,070,465	\$ 713,847	\$688,612	\$1,051,687	\$1,621,273
System's Covered Payroll	\$589,410	\$560,925	\$446,482	\$509,484	\$453,896
System's Proportionate Share of the Net Pension Liability as a Percentage of Its Covered Payroll	181.67 %	127.26 %	154.20 %	206.40 %	357.19 %
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	64.27 %	76.63 %	71.55 %	70.25 %	49.41 %

*The amounts presented for each fiscal year were determined as of December 31 of the previous year.

	2018	2017	2016	2015	2014
System's Proportion of the Net Pension Liability	0.23 %	0.21 %	0.20 %	0.22 %	0.22 %
System's Proportionate Share of the Net Pension Liability	\$1,727,361	\$876,434	\$649,399	\$570,232	\$517,013
System's Covered Payroll	\$535,096	\$478,280	\$454,115	\$472,849	N/A
System's Proportionate Share of the Net Pension Liability as a Percentage of Its Covered Payroll	322.81 %	183.25 %	143.00 %	120.59 %	N/A
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	54.63 %	67.16 %	72.94 %	77.95 %	72.30 %

*The amounts presented for each fiscal year were determined as of December 31 of the previous year.

Financial Section



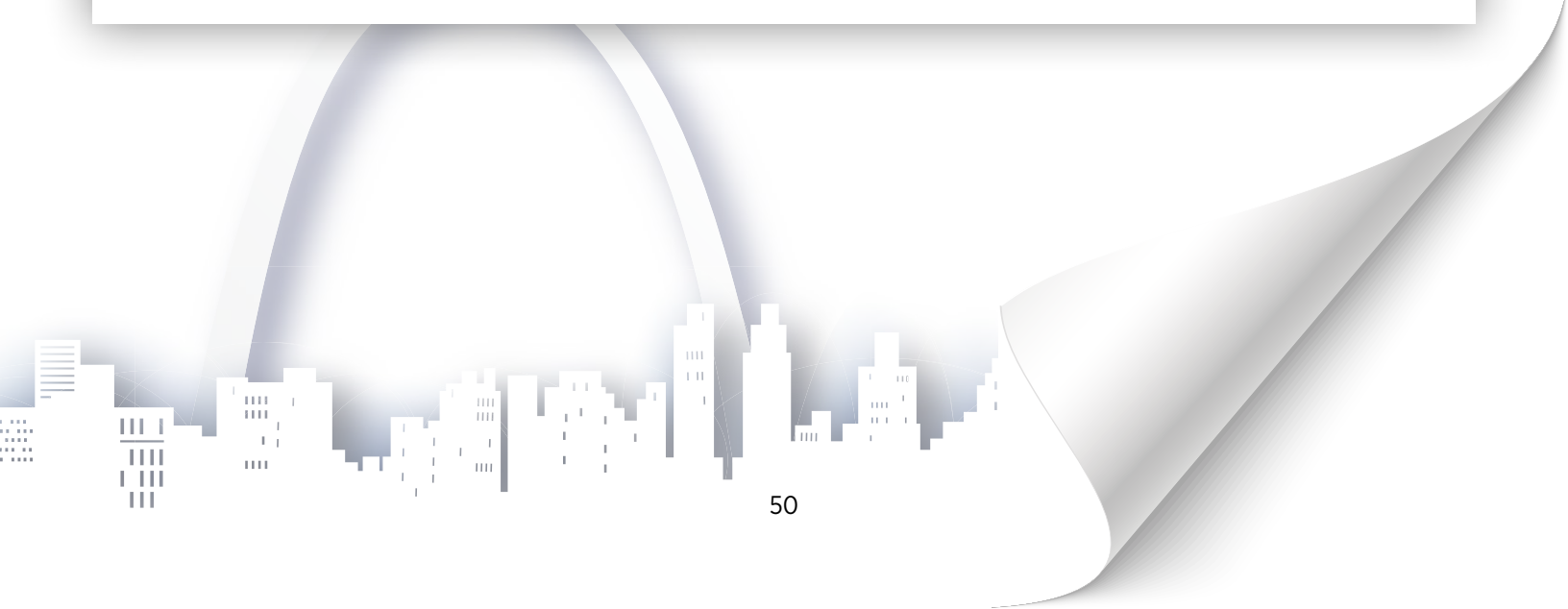
Schedules of Annual Money-Weighted Rate of Return on Investments – Unaudited for the Years Ended December 31, Required Supplementary Information

The System began tracking the annual money-weighted rate of return during the fiscal year ended December 31, 2014. The annual money-weighted rate of return for future years will appear in the following schedule as they occur.

Year Ended December 31,	2023	2022	2021	2020	2019
Annual Money-Weighted Rate of Return, Net of Investment Expense, Adjusted for the Changing Amounts Actually Invested	5.99 %	5.99 %	6.13 %	8.90 %	16.83 %

The System began tracking the annual money-weighted rate of return during the fiscal year ended December 31, 2014. The annual money-weighted rate of return for future years will appear in the following schedule as they occur.

Year Ended December 31,	2018	2017	2016	2015	2014
Annual Money-Weighted Rate of Return, Net of Investment Expense, Adjusted for the Changing Amounts Actually Invested	(5.09)%	15.55 %	5.52 %	(1.00)%	3.93 %



Financial Section



Schedules of Employer Contributions – Unaudited December 31, 2023

Required Supplementary Information

Total Board of Education, Retirement System, and Charter Schools

Year Ended December 31,	Actuarially Determined Contribution	Statutory Annual Required Contribution	Contributions Recognized by the Plan	Contributions Deficiency (Excess)	Covered Payroll	Contributions Recognized by the Plan as a Percentage of Covered Payroll
2014	\$37,267,278	\$38,597,230	\$40,168,793	\$(2,901,515)	\$225,893,514	17.78%
2015	\$38,597,230	\$37,210,752	\$39,602,486	\$(1,005,256)	\$243,280,015	16.28%
2016	\$37,210,752	\$39,657,956	\$38,805,161	\$(1,594,409)	\$245,699,583	15.79%
2017	\$39,657,956	\$49,693,589	\$40,664,374	\$(1,006,418)	\$252,127,288	16.13%
2018	\$49,693,589	\$42,533,354	\$48,495,557	\$1,198,032	\$260,223,066	18.64%
2019	\$47,096,163	\$40,884,719	\$43,710,302	\$3,385,861	\$265,773,659	16.45%
2020	\$49,429,863	\$40,946,007	\$41,705,205	\$7,724,658	\$263,772,380	15.81%
2021	\$49,622,726	\$38,378,143	\$41,116,998	\$8,505,728	\$272,973,377	15.06%
2022	\$45,259,945	\$36,321,658	\$40,990,375	\$4,269,570	\$264,676,845	15.49%
2023	\$37,037,171	\$38,602,623	\$37,908,601	\$(871,430)	\$259,440,417	14.61%

Board of Education

Year Ended December 31,	Actuarially Determined Contribution	Statutory Annual Required Contribution	Contributions Recognized by the Plan	Contributions Deficiency (Excess)	Covered Payroll	Contributions Recognized by the Plan as a Percentage of Covered Payroll
2014	\$31,555,696	\$31,072,850	\$31,555,696	-	\$191,273,081	16.50%
2015	\$31,072,850	\$29,007,501	\$31,072,850	-	\$195,853,519	15.87%
2016	\$29,007,501	\$30,459,434	\$29,007,501	-	\$191,534,175	15.14%
2017	\$30,459,434	\$37,376,323	\$30,459,434	-	\$193,647,262	15.73%
2018	\$37,376,323	\$31,344,663	\$37,376,323	-	\$195,723,057	19.10%
2019	\$34,715,003	\$29,884,664	\$31,344,663	\$3,370,340*	\$195,904,143	16.00%
2020	\$36,133,150	\$29,106,335	\$29,884,664	\$6,248,486*	\$192,817,182	15.50%
2021	\$35,274,153	\$26,692,454	\$29,106,335	\$6,167,818*	\$194,042,234	15.00%
2022	\$31,478,829	\$23,639,359	\$26,692,454	\$4,786,375*	\$184,085,888	14.50%
2023	\$24,105,039	\$24,990,980	\$23,639,359	\$465,680*	\$168,852,563	14.00%

*The Board of Education paid the statutory required contribution that was recognized by the System a year in arrears.

The actuarial determined contribution is determined from the prior year census; therefore the contributions are recognized one year in arrears.

Financial Section



Retirement System

Year Ended December 31,	Actuarially Determined Contribution	Statutory Annual Required Contribution	Contributions Recognized by the Plan	Contributions Deficiency (Excess)	Covered Payroll	Contributions Recognized by the Plan as a Percentage of Covered Payroll
2014	\$85,590	\$83,960	\$85,590	-	\$518,799	16.50%
2015	\$83,960	\$79,497	\$83,960	-	\$529,203	15.87%
2016	\$79,497	\$74,644	\$79,497	-	\$524,915	15.14%
2017	\$74,644	\$100,565	\$74,644	-	\$474,551	15.73%
2018	\$100,565	\$98,558	\$100,565	-	\$526,616	19.10%
2019	\$98,558	\$64,408	\$98,558	-	\$556,184	17.72%
2020	\$75,452	\$75,904	\$74,309	\$1,143	\$402,634	18.46%
2021	\$91,988	\$80,206	\$80,206	\$11,782	\$506,024	15.85%
2022	\$94,588	\$81,944	\$81,944	\$12,644	\$553,144	14.81%
2023	\$83,558	\$82,355	\$82,928	\$630	\$585,315	14.17%

The actuarial determined contribution is determined from the prior year census; therefore the contributions are recognized one year in arrears.

Charter Schools

Year Ended December 31,	Actuarially Determined Contribution	Statutory Annual Required Contribution	Contributions Recognized by the Plan	Contributions Deficiency (Excess)	Covered Payroll	Contributions Recognized by the Plan as a Percentage of Covered Payroll
2014	\$5,625,992	\$7,440,420	\$8,527,507	\$(2,901,515)*	\$34,101,634	25.01%
2015	\$7,440,420	\$8,123,754	\$8,445,676	\$(1,005,256)*	\$46,897,293	18.01%
2016	\$8,123,754	\$9,123,878	\$9,718,163	\$(1,594,409)*	\$53,640,493	18.12%
2017	\$9,123,878	\$12,216,701	\$10,130,296	\$(1,006,418)*	\$58,005,475	17.46%
2018	\$12,216,701	\$11,090,133	\$11,018,669	\$1,198,032*	\$63,973,393	17.22%
2019	\$12,282,602	\$10,935,647	\$12,267,081	\$15,521*	\$69,313,332	17.70%
2020	\$13,221,261	\$11,763,768	\$11,746,232	\$1,475,029*	\$70,552,564	16.65%
2021	\$14,256,585	\$11,605,483	\$11,930,457	\$2,326,128*	\$78,425,119	15.21%
2022	\$13,686,528	\$12,600,355	\$14,215,977	\$(529,449)*	\$80,037,813	17.76%
2023	\$12,848,574	\$13,529,288	\$14,186,314	\$(1,337,740)*	\$90,002,539	15.76%

*Charter Schools report and pay employer contributions in the current year as service is credited.

The actuarial determined contribution is determined from the prior year census; therefore the contributions are recognized one year in arrears.

Financial Section




Additional information related to the actuarial valuation on the previous page follows:

	2023	2022
Actuarial Cost Method	Entry age normal	Entry age normal
Rate of Investment Return	7.00%, net of expenses	7.00%, net of expenses
Participant Account Interest Crediting Rate	2.00%	5.00%
Turnover or Withdrawal Rates	Various by age and year of membership based on actual experience	Various by age and year of membership based on actual experience
Mortality and Death Rates	a) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP- 2021. The mortality assumption for retired participants receiving benefits increased by 2% for males and 10% for females. b) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP- 2021.	a) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP- 2021. The mortality assumption for retired participants receiving benefits increased by 2% for males and 10% for females. b) PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP- 2021.
Disability Rates	PubT/G-2010 Mortality Disability Table, amount weighted, projected fully generationally using projection scale MP-2021.	PubT/G-2010 Mortality Disability Table, amount weighted, projected fully generationally using projection scale MP-2021.
Rates of Retirement Between the Ages of 55 and 70	Various based on actual experience of the System	Various based on actual experience of the System
Rate of Salary Increases	Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and at the rate of 3.5% per year thereafter	Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and at the rate of 3.5% per year thereafter
Asset Valuation Method	The smoothed market value method	The smoothed market value method

The UFAAL was originally determined and frozen as of January 1, 1981. Effective January 1, 2006, the UFAAL was re-determined and is being amortized over thirty (30) years.

Effective January 1, 2022, amortization is based on a fifteen (15) year closed, level dollar amount. All future changes in the accrued liability due to amendments, experience gains and losses, and assumption changes are amortized over a 15-year closed, layered method.



Public School Retirement System of the City of St. Louis

Other Supplementary Information



Financial Section



Schedules of Operating Expenses Years Ended December 31, 2023 and 2022

	2023	2022
Actuarial Services	\$ 127,405	\$ 135,165
Accounting and Auditing Fees	107,799	90,968
Computer Programming and Consulting	132,433	78,005
Conventions, Conferences, Seminars – Trustees (see below)	33,172	34,911
Depreciation Expense	51,627	51,627
Dues and Subscriptions	9,384	8,575
Health Insurance Consulting	76,343	49,843
Insurance – Group Health	82,280	81,286
Insurance – Casualty and Bonding	146,877	117,324
Legal Fees and Expenses	104,853	106,648
Miscellaneous Expense	27,173	24,959
Occupancy Expense	43,125	40,532
Office Repairs and Maintenance	67,762	44,112
Office Supplies and Expenses	14,867	12,729
Payroll Taxes	39,780	38,902
Pension Expense	(75,259)	(233,541)
Postage	74,030	64,047
Printing and Publishing	29,176	19,447
Salaries – Administrative and Clerical	525,904	510,123
Telephone	13,150	12,685
Utilities	<u>33,131</u>	<u>31,450</u>
Total Operating Expenses	<u>\$1,665,012</u>	<u>\$1,319,797</u>

Trustees' Expenses

The Trustees attended conferences and business meetings in connection with business of the System. The Trustees received no salaries but were allowed expenses relating to their attendance at such events as follows:

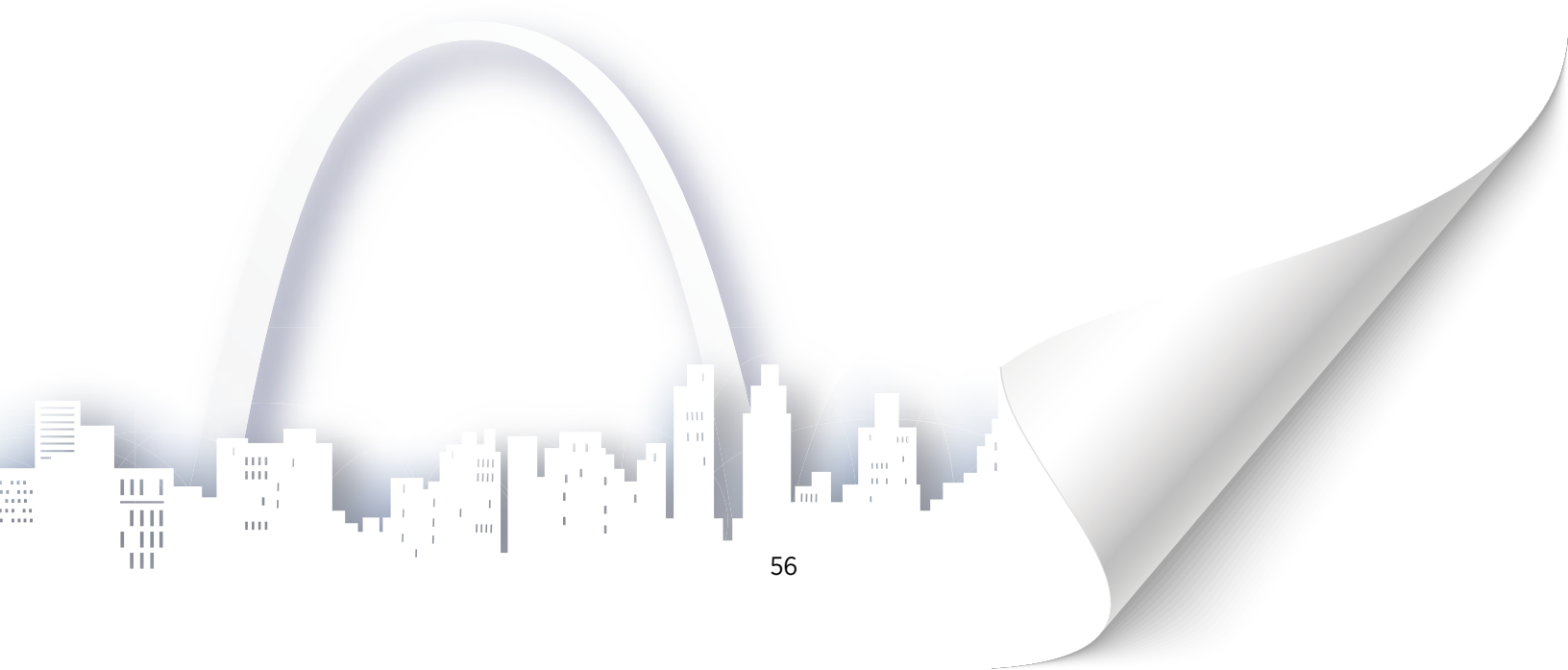
	2023	2022
Lodging, Meals, and Miscellaneous	\$ 12,161	\$ 11,181
Transportation and Registration	<u>21,011</u>	<u>23,730</u>
Total Trustees' Expenses	<u>\$33,172</u>	<u>\$ 34,911</u>

Financial Section



Schedules of Investment Expenses Years Ended December 31, 2023 and 2022

	2023	2022
Investment Management Fees		
Causeway Capital Management	\$ 314,958	\$ 271,509
Earnest Partners	49,094	27,273
Edgar Lomax Company	307,918	304,663
Fidelity Institutional Asset Management	241,813	260,145
Invesco Global Performance	146,883	241,022
Intech Investment Management	2,435	104,662
Lazard Asset Management	163,481	198,127
Loomis Sayles & Company, LP	125,208	229,110
Manulife Asset Management	115,998	107,816
Mellon Capital Management	18,642	11,658
Systematic Financial Management	294,398	287,904
TCW Asset Management Company	191,880	181,253
UBS Realty Investors LLC	424,531	474,421
US Bank Trust	101,418	102,682
Westfield Capital Management	264,051	246,637
Whitebox Multi-Strategy Fund, L.P.	379,941	355,046
Xponance	<u>277,874</u>	<u>300,166</u>
Total Investment Management Fees	3,420,523	3,704,094
AndCo LLC	190,000	189,250
Banking Services	<u>29,071</u>	<u>31,136</u>
Total Investment Expenses	<u>\$3,639,594</u>	<u>\$3,924,480</u>

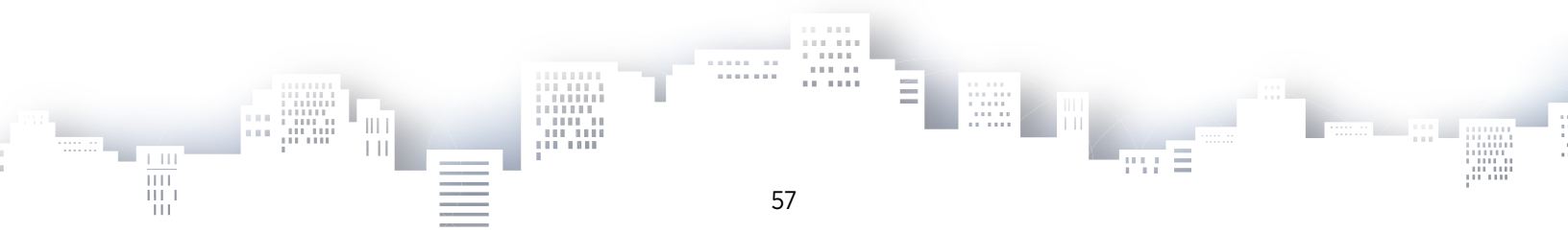


Financial Section



Schedules of Professional/Consultant Fees Years Ended December 31, 2023 and 2022

	2023	2022
Actuarial Services	\$127,405	\$ 135,165
Accounting and Auditing Fees	107,799	90,968
Building Property Management	43,125	40,532
Health Insurance Consulting	76,343	49,843
Legal Expenses	104,853	106,648
Technology Consulting	<u>132,433</u>	<u>78,005</u>
Total Fees	\$591,958	\$ 501,161



Financial Section



Schedules of Limited Partnerships Years Ended December 31, 2023 and 2022

Partnership Name	Style	Investments at Fair Value as of December 31, 2023
Alidade Capital Fund V, LP.	Private Equity & Private Debt	\$ 882,406
Asia Alternatives Capital Partners VI, L.P.	Private Equity & Private Debt	4,501,204
Asia Alternatives Delaware VI, L.P.	Private Equity & Private Debt	194,944
Bain Capital Special Situations Asia II, L.P.	Private Equity & Private Debt	1,756,843
BIG Real Estate Fund I, L.P.	Private Equity & Private Debt	5,322,707
BIG Real Estate Fund II, L.P.	Private Equity & Private Debt	4,095,245
Brightwood Capital Fund IV, L.P.	Private Equity & Private Debt	9,370,055
Crayhill Principal Strategies Fund II, L.P.	Private Equity & Private Debt	3,629,586
ElmTree U.S. Net Lease Fund IV, L.P.	Private Equity & Private Debt	653,047
Fairview Private Markets Fund VI, L.P.	Private Equity & Private Debt	1,078,814
Fort Washington Private Equity Investors IX, L.P.	Private Equity & Private Debt	16,607,379
GCM Grosvenor Advance Fund, L.P.	Private Equity & Private Debt	8,312,622
HarbourVest Global Fund, L.P.	Private Equity & Private Debt	2,884,180
Kayne Anderson Real Estate Partners VI, L.P.	Private Equity & Private Debt	3,072,760
Landmark Equity Partners XIV, L.P.	Private Equity & Private Debt	299,606
Landmark Equity Partners XV, L.P.	Private Equity & Private Debt	1,917,773
Landmark Equity Partners XVI, L.P.	Private Equity & Private Debt	9,808,765
MC Credit Partner, L.P.	Private Equity & Private Debt	5,192,211
Mesirow Financial Private Equity Partnership Fund III, L.P.	Private Equity & Private Debt	117,090
Mesirow Financial Private Equity Partnership Fund V, L.P.	Private Equity & Private Debt	6,226,752
Monroe Capital Private Credit Fund II L.P.	Private Equity & Private Debt	1,677,698
Monroe Capital Private Credit Fund III L.P.	Private Equity & Private Debt	9,534,541
Pantheon Global Secondary Fund III B, L.P.	Private Equity & Private Debt	109,050
Strategic Value Capital Solutions Fund II, L.P.	Private Equity & Private Debt	2,568,844
Vista Foundation Fund II, L.P.	Private Equity & Private Debt	2,407,170
		<u>\$102,221,292</u>

Financial Section



Schedules of Limited Partnerships Years Ended December 31, 2023 and 2022

Partnership Name	Style	Investments at Fair Value as of December 31, 2022
Alidade Capital Fund V, L.P.	Private Equity & Private Debt	\$ 1,102,028
Asia Alternatives Capital Partners VI, L.P.	Private Equity & Private Debt	2,126,449
Asia Alternatives Delaware VI, L.P.	Private Equity & Private Debt	66,146
Bain Capital Special Situations Asia II, L.P.	Private Equity & Private Debt	553,961
BIG Real Estate Fund I, L.P.	Private Equity & Private Debt	5,484,831
BIG Real Estate Fund II, L.P.	Private Equity & Private Debt	2,655,842
Brightwood Capital Fund IV, L.P.	Private Equity & Private Debt	9,873,103
Crayhill Principal Strategies Fund II, L.P.	Private Equity & Private Debt	2,482,838
ElmTree U.S. Net Lease Fund IV, L.P.	Private Equity & Private Debt	3,523,742
Fairview Private Markets Fund IV, L.P.	Private Equity & Private Debt	673,429
Fort Washington Private Equity Investors IX, L.P.	Private Equity & Private Debt	17,391,888
GCM Grosvenor Advance Fund, L.P.	Private Equity & Private Debt	5,865,170
HarbourVest Global Fund, L.P.	Private Equity & Private Debt	1,786,427
Kayne Anderson Real Estate Partners VI, L.P.	Private Equity & Private Debt	1,480,131
Landmark Equity Partners XIV, L.P.	Private Equity & Private Debt	383,667
Landmark Equity Partners XV, L.P.	Private Equity & Private Debt	2,245,821
Landmark Equity Partners XVI, L.P.	Private Equity & Private Debt	8,594,623
MC Credit Partner, L.P.	Private Equity & Private Debt	4,019,720
Mesirow Financial Private Equity Partnership Fund III, L.P.	Private Equity & Private Debt	224,550
Mesirow Financial Private Equity Partnership Fund V, L.P.	Private Equity & Private Debt	4,322,809
Monroe Capital Private Credit Fund II L.P.	Private Equity & Private Debt	2,738,926
Monroe Capital Private Credit Fund III L.P.	Private Equity & Private Debt	9,469,690
Pantheon Global Secondary Fund III B, L.P.	Private Equity & Private Debt	110,756
Vista Foundation Fund II, L.P.	Private Equity & Private Debt	2,402,222
		<u>\$89,578,769</u>

Financial Section

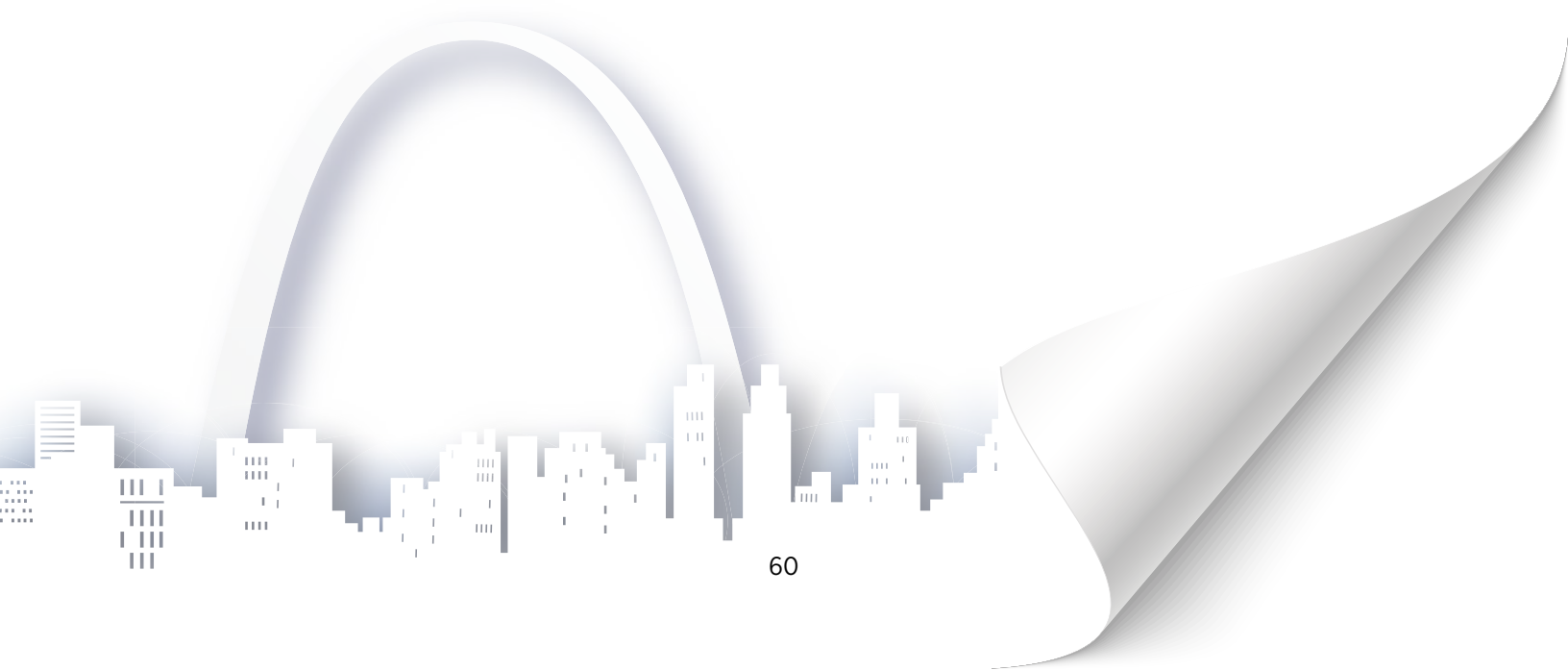


Schedules of Required Annual Contribution Years Ended December 31, 2023 and 2022

As determined by the actuary, the required annual contribution is as follows at January 1, 2023:

	Board of Education	Retirement System	Charter Schools	Total
Actuarially Determined Employer Contribution (ADEC):				
Normal Cost Contribution	\$ 16,026,862	\$ 53,182	\$ 8,676,410	\$ 24,756,454
Actuarial Accrued Liability Contribution	24,515,502	81,350	13,271,877	37,868,729
Member Contributions	<u>(15,723,981)</u>	<u>(52,177)</u>	<u>(8,512,440)</u>	<u>(24,288,598)</u>
ADEC	\$ 24,818,383	\$ 82,355	\$ 13,435,847	\$ 38,336,585
Covered Payroll	\$ 185,118,414	\$614,280	\$100,216,947	\$285,949,641
ADEC as % of Covered Payroll	13.41 %	13.41 %	13.41 %	13.41 %
Statutory Annual Required Contribution (ARC):				
Covered Payroll	\$ 185,118,414	\$614,280	\$100,216,947	\$285,949,641
Statutory Annual Required Contribution	<u>13.50 %</u>	<u>13.50 %</u>	<u>13.50 %</u>	<u>13.50 %</u>
ARC	\$24,990,986	\$ 82,928	\$ 13,529,288	\$ 38,603,202

The actuarial and statutory determined contribution is determined from the prior year census for the Board of Education and Retirement System; therefore the contributions are recognized one year in arrears.



Financial Section



Schedules of Required Annual Contribution Years Ended December 31, 2023 and 2022

As determined by the actuary, the required annual contribution is as follows at January 1, 2022:

	Board of Education	Retirement System	Charter Schools	Total
Actuarially Determined Employer Contribution (ADEC):				
Normal Cost Contribution	\$ 14,525,814	\$ 50,353	\$ 7,742,614	\$ 22,318,781
Actuarial Accrued Liability Contribution	23,255,821	80,615	12,395,920	35,732,356
Member Contributions	<u>(13,676,596)</u>	<u>(47,410)</u>	<u>(7,289,960)</u>	<u>(21,013,966)</u>
ADEC	\$ 24,105,039	\$ 83,558	\$ 12,848,574	\$ 37,037,171
Covered Payroll	\$168,852,563	\$ 585,315	\$90,002,539	\$259,440,417
ADEC as % of Covered Payroll	14.28 %	14.28 %	14.28 %	14.00 %
Statutory Annual Required Contribution (ARC):				
Covered Payroll	\$ 168,852,563	\$585,315	\$90,002,539	\$259,440,417
Statutory Annual Required Contribution	<u>14.28 %</u>	<u>14.00 %</u>	<u>14.00 %</u>	<u>14.00 %</u>
ARC	\$ 23,639,359	\$ 81,944	\$ 12,600,355	\$ 36,321,658

The actuarial and statutory determined contribution is determined from the prior year census for the Board of Education and Retirement System; therefore the contributions are recognized one year in arrears.

Financial Section



Schedule of Actuarial Present Values of Projected Benefit Payments

000's Omitted December 31, 2023

Fiscal Year Ending 12/31	Beginning Fiduciary Net Position	Benefit Payments			Present Value of Benefit Payments		
		Benefit Payments	Funded Portion	Unfunded Portion	Funded Portion at 7.00%	Unfunded Portion at 4.31%	Using a Single Discount Rate of 7.00%
2024	\$ 849,020	\$ 109,364	\$ 109,364	\$ -	\$ 105,726	\$ -	\$ 105,726
2025	\$ 854,279	\$ 107,456	\$ 107,456	\$ -	\$ 97,085	\$ -	\$ 97,085
2026	\$ 858,007	\$ 105,737	\$ 105,737	\$ -	\$ 89,283	\$ -	\$ 89,283
2027	\$ 860,093	\$ 103,633	\$ 103,633	\$ -	\$ 81,781	\$ -	\$ 81,781
2028	\$ 861,351	\$ 102,415	\$ 102,415	\$ -	\$ 75,533	\$ -	\$ 75,533
2029	\$ 861,186	\$ 101,923	\$ 101,923	\$ -	\$ 70,252	\$ -	\$ 70,252
2030	\$ 859,044	\$ 101,311	\$ 101,311	\$ -	\$ 65,262	\$ -	\$ 65,262
2031	\$ 855,113	\$ 100,543	\$ 100,543	\$ -	\$ 60,530	\$ -	\$ 60,530
2032	\$ 849,553	\$ 99,885	\$ 99,885	\$ -	\$ 56,200	\$ -	\$ 56,200
2033	\$ 842,191	\$ 99,159	\$ 99,159	\$ -	\$ 52,142	\$ -	\$ 52,142
2034	\$ 833,586	\$ 98,255	\$ 98,255	\$ -	\$ 48,286	\$ -	\$ 48,286
2035	\$ 824,860	\$ 97,128	\$ 97,128	\$ -	\$ 44,610	\$ -	\$ 44,610
2036	\$ 816,318	\$ 96,039	\$ 96,039	\$ -	\$ 41,224	\$ -	\$ 41,224
2037	\$ 808,005	\$ 94,814	\$ 94,814	\$ -	\$ 38,036	\$ -	\$ 38,036
2038	\$ 800,163	\$ 93,636	\$ 93,636	\$ -	\$ 35,106	\$ -	\$ 35,106
2039	\$ 792,859	\$ 92,402	\$ 92,402	\$ -	\$ 32,377	\$ -	\$ 32,377
2040	\$ 786,276	\$ 91,343	\$ 91,343	\$ -	\$ 29,912	\$ -	\$ 29,912
2041	\$ 780,326	\$ 90,084	\$ 90,084	\$ -	\$ 27,570	\$ -	\$ 27,570
2042	\$ 775,310	\$ 88,914	\$ 88,914	\$ -	\$ 25,432	\$ -	\$ 25,432
2043	\$ 771,268	\$ 87,729	\$ 87,729	\$ -	\$ 23,451	\$ -	\$ 23,451
2044	\$ 768,347	\$ 86,586	\$ 86,586	\$ -	\$ 21,631	\$ -	\$ 21,631
2045	\$ 766,649	\$ 85,456	\$ 85,456	\$ -	\$ 19,952	\$ -	\$ 19,952
2046	\$ 766,294	\$ 84,286	\$ 84,286	\$ -	\$ 18,392	\$ -	\$ 18,392
2047	\$ 767,474	\$ 83,172	\$ 83,172	\$ -	\$ 16,961	\$ -	\$ 16,961
2048	\$ 770,306	\$ 81,959	\$ 81,959	\$ -	\$ 15,620	\$ -	\$ 15,620
2049	\$ 775,061	\$ 81,057	\$ 81,057	\$ -	\$ 14,438	\$ -	\$ 14,438
2050	\$ 781,614	\$ 80,155	\$ 80,155	\$ -	\$ 13,343	\$ -	\$ 13,343
2051	\$ 790,143	\$ 79,088	\$ 79,088	\$ -	\$ 12,304	\$ -	\$ 12,304
2052	\$ 801,012	\$ 77,757	\$ 77,757	\$ -	\$ 11,306	\$ -	\$ 11,306
2053	\$ 814,707	\$ 76,340	\$ 76,340	\$ -	\$ 10,374	\$ -	\$ 10,374
2054	\$ 831,578	\$ 74,950	\$ 74,950	\$ -	\$ 9,518	\$ -	\$ 9,518
2055	\$ 851,868	\$ 73,206	\$ 73,206	\$ -	\$ 8,689	\$ -	\$ 8,689
2056	\$ 876,219	\$ 71,369	\$ 71,369	\$ -	\$ 7,917	\$ -	\$ 7,917
2057	\$ 905,054	\$ 69,300	\$ 69,300	\$ -	\$ 7,184	\$ -	\$ 7,184
2058	\$ 938,968	\$ 67,093	\$ 67,093	\$ -	\$ 6,500	\$ -	\$ 6,500
2059	\$ 978,496	\$ 64,807	\$ 64,807	\$ -	\$ 5,868	\$ -	\$ 5,868
2060	\$ 1,024,154	\$ 62,421	\$ 62,421	\$ -	\$ 5,282	\$ -	\$ 5,282
2061	\$ 1,076,506	\$ 59,883	\$ 59,883	\$ -	\$ 4,736	\$ -	\$ 4,736
2062	\$ 1,136,206	\$ 57,312	\$ 57,312	\$ -	\$ 4,236	\$ -	\$ 4,236
2063	\$ 1,203,840	\$ 54,740	\$ 54,740	\$ -	\$ 3,781	\$ -	\$ 3,781
2064	\$ 1,279,996	\$ 52,159	\$ 52,159	\$ -	\$ 3,367	\$ -	\$ 3,367
2065	\$ 1,365,316	\$ 49,586	\$ 49,586	\$ -	\$ 2,992	\$ -	\$ 2,992
2066	\$ 1,460,463	\$ 47,031	\$ 47,031	\$ -	\$ 2,652	\$ -	\$ 2,652
2067	\$ 1,566,136	\$ 44,497	\$ 44,497	\$ -	\$ 2,345	\$ -	\$ 2,345
2068	\$ 1,683,083	\$ 41,995	\$ 41,995	\$ -	\$ 2,068	\$ -	\$ 2,068
2069	\$ 1,812,093	\$ 39,530	\$ 39,530	\$ -	\$ 1,820	\$ -	\$ 1,820

Financial Section



Schedule of Projection of Fiduciary Net Position 000's Omitted

December 31, 2023

Year	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2024	\$ 849,020	\$ 59,535	\$ 109,364	\$ 1,707	\$ 56,795	\$ 854,279
2025	\$ 854,279	\$ 55,791	\$ 107,456	\$ 1,749	\$ 57,142	\$ 858,007
2026	\$ 858,007	\$ 52,239	\$ 105,737	\$ 1,793	\$ 57,377	\$ 860,093
2027	\$ 860,093	\$ 49,205	\$ 103,633	\$ 1,838	\$ 57,524	\$ 861,351
2028	\$ 861,351	\$ 46,544	\$ 102,415	\$ 1,884	\$ 57,590	\$ 861,186
2029	\$ 861,186	\$ 44,171	\$ 101,923	\$ 1,931	\$ 57,541	\$ 859,044
2030	\$ 859,044	\$ 41,997	\$ 101,311	\$ 1,979	\$ 57,362	\$ 855,113
2031	\$ 855,113	\$ 39,945	\$ 100,543	\$ 2,029	\$ 57,067	\$ 849,553
2032	\$ 849,553	\$ 37,947	\$ 99,885	\$ 2,079	\$ 56,655	\$ 842,191
2033	\$ 842,191	\$ 36,544	\$ 99,159	\$ 2,131	\$ 56,141	\$ 833,586
2034	\$ 833,586	\$ 36,167	\$ 98,255	\$ 2,185	\$ 55,547	\$ 824,860
2035	\$ 824,860	\$ 35,871	\$ 97,128	\$ 2,239	\$ 54,954	\$ 816,318
2036	\$ 816,318	\$ 35,645	\$ 96,039	\$ 2,295	\$ 54,376	\$ 808,005
2037	\$ 808,005	\$ 35,504	\$ 94,814	\$ 2,353	\$ 53,821	\$ 800,163
2038	\$ 800,163	\$ 35,447	\$ 93,636	\$ 2,411	\$ 53,296	\$ 792,859
2039	\$ 792,859	\$ 35,474	\$ 92,402	\$ 2,472	\$ 52,817	\$ 786,276
2040	\$ 786,276	\$ 35,545	\$ 91,343	\$ 2,534	\$ 52,382	\$ 780,326
2041	\$ 780,326	\$ 35,668	\$ 90,084	\$ 2,597	\$ 51,997	\$ 775,310
2042	\$ 775,310	\$ 35,856	\$ 88,914	\$ 2,662	\$ 51,678	\$ 771,268
2043	\$ 771,268	\$ 36,107	\$ 87,729	\$ 2,728	\$ 51,429	\$ 768,347
2044	\$ 768,347	\$ 36,426	\$ 86,586	\$ 2,797	\$ 51,259	\$ 766,649
2045	\$ 766,649	\$ 36,793	\$ 85,456	\$ 2,866	\$ 51,174	\$ 766,294
2046	\$ 766,294	\$ 37,217	\$ 84,286	\$ 2,938	\$ 51,187	\$ 767,474
2047	\$ 767,474	\$ 37,709	\$ 83,172	\$ 3,012	\$ 51,307	\$ 770,306
2048	\$ 770,306	\$ 38,255	\$ 81,959	\$ 3,087	\$ 51,546	\$ 775,061
2049	\$ 775,061	\$ 38,864	\$ 81,057	\$ 3,164	\$ 51,910	\$ 781,614
2050	\$ 781,614	\$ 39,525	\$ 80,155	\$ 3,243	\$ 52,402	\$ 790,143
2051	\$ 790,143	\$ 40,241	\$ 79,088	\$ 3,324	\$ 53,040	\$ 801,012
2052	\$ 801,012	\$ 41,009	\$ 77,757	\$ 3,407	\$ 53,850	\$ 814,707
2053	\$ 814,707	\$ 41,840	\$ 76,340	\$ 3,492	\$ 54,863	\$ 831,578
2054	\$ 831,578	\$ 42,721	\$ 74,950	\$ 3,580	\$ 56,099	\$ 851,868
2055	\$ 851,868	\$ 43,640	\$ 73,206	\$ 3,669	\$ 57,586	\$ 876,219
2056	\$ 876,219	\$ 44,602	\$ 71,369	\$ 3,761	\$ 59,363	\$ 905,054
2057	\$ 905,054	\$ 45,607	\$ 69,300	\$ 3,855	\$ 61,462	\$ 938,968
2058	\$ 938,968	\$ 46,652	\$ 67,093	\$ 3,951	\$ 63,920	\$ 978,496
2059	\$ 978,496	\$ 47,739	\$ 64,807	\$ 4,050	\$ 66,776	\$ 1,024,154
2060	\$ 1,024,154	\$ 48,858	\$ 62,421	\$ 4,151	\$ 70,066	\$ 1,076,506
2061	\$ 1,076,506	\$ 50,012	\$ 59,883	\$ 4,255	\$ 73,826	\$ 1,136,206
2062	\$ 1,136,206	\$ 51,201	\$ 57,312	\$ 4,362	\$ 78,107	\$ 1,203,840
2063	\$ 1,203,840	\$ 52,426	\$ 54,740	\$ 4,471	\$ 82,941	\$ 1,279,996
2064	\$ 1,279,996	\$ 53,688	\$ 52,159	\$ 4,582	\$ 88,373	\$ 1,365,316
2065	\$ 1,365,316	\$ 54,982	\$ 49,586	\$ 4,697	\$ 94,448	\$ 1,460,463
2066	\$ 1,460,463	\$ 56,310	\$ 47,031	\$ 4,814	\$ 101,208	\$ 1,566,136
2067	\$ 1,566,136	\$ 57,673	\$ 44,497	\$ 4,935	\$ 108,706	\$ 1,683,083
2068	\$ 1,683,083	\$ 59,071	\$ 41,995	\$ 5,058	\$ 116,992	\$ 1,812,093
2069	\$ 1,812,093	\$ 60,507	\$ 39,530	\$ 5,185	\$ 126,122	\$ 1,954,007



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to enhance the well-being and financial security of its members, retirees and beneficiaries....





MARINER

April 29, 2024

The Board of Trustees
Public School Retirement System of the City of St. Louis
3641 Olive Street, Suite 300
St. Louis, MO 63108

Dear Board Members,

As we reflect on the capital markets during 2023 and the objectives of the System, Mariner and the Board has continued progress in implementing changes to the Fund to improve the performance with initiatives including:

- Continued implementation of the revised asset allocation and investment manager structure that was approved by the Board in 2022.
- Ongoing rebalancing and liquidity planning to provide for benefit payments and expenses while maintaining compliance with the Systems Investment Policy Statement and Operating Guidelines.
- Restructuring of the System's Core Fixed Income component to align with revised market expectations in a higher interest rate environment.
- Review of outstanding private equity, private debt, and private real estate fund commitments along with a pacing study to determine ongoing capital commitment requirements to maintain compliance with policy ranges to these asset classes. As a result, selection of a private equity manager and private debt manager to continue building out this program.
- Continued review and enforcement of the MWDBE brokerage mandates of the Systems separate account managers, resulting in full compliance by all managers for the year
- Review and negotiation of investment management fees to ensure that the System is paying reasonable and customary fees in line with or better than peer averages.
- Review of the System's current custodian, selection of a new custodian after a search process was completed and outlining a transition plan to the new custodian.

Investment Section



The overall objective of the Public School Retirement System of the City of St. Louis is to provide service, disability, death and vested retirement benefits, and other postemployment benefits to Members and their Beneficiaries. To ensure a solid foundation for the future of the System, the investment program is designed to achieve the actuarial assumed rate of return in the long term, while prudently managing the risks and costs of the portfolio.

Asset Allocation and Investment Results

The System employs an asset allocation that is well diversified, optimally structured within asset classes, limits uncompensated risks, and maintains an adequate level of liquidity to satisfy ongoing benefit payments and expenses.

At December 31, 2023, the asset allocation of the System was 49.8% equities, 21.0% fixed income, 2.7% liquid global asset allocation strategies, 6.3% hedge funds, 7.4% real estate, 6.9% private equity, 3.6% private debt, and 2.4% cash.

During the year ending December 31, 2023, the System returned +11.4% gross of fees, well ahead the actuarial return assumption. Although the return trailed the benchmark policy index and median Public Pension fund for the year, the System continues to operate at a lower level of investment risk that is beneficial in protecting downside during volatile market environments. While the market environment over the past two years has presented a challenge, the restructuring of the System's investments has resulted in a ranking near the top one-third of the Public Pension Fund Universe for this latest 2-year period. Results for the last 3 years and now better than median in the Universe. Over the trailing 5-year period ending December 31, 2023, the System earned an annualized rate of return of 7.88%, ranking in the 77th percentile of the comparative universe. As the benefits of a revised investment structure accrue, the expectation is that longer-term results will move in line with median Public Pension Fund results.

Assets increased from \$807.2 million at the end of fiscal year 2022 to approximately \$841.4 million as of year-end 2023.

Economy and Markets

Many of the world's Central banks remained vigilant in their stance against inflation going into the new year. Signs of cooling price pressures have shown up in most regions around the world, and many central banks have chosen to pause on their rate hiking cycle, much in line with the US Fed's stance.

Geopolitical risk around the world continues to be a headwind for global growth and economic stability. In addition to the conflict in Ukraine, tensions increased in the Middle East in October between Israel and Palestine, which impacted performance in the region and may provide pressure on emerging markets in the coming quarters.

Short-term interest rates remained consistent across most developed markets as central banks continued their tight policy stance with an eye towards potential rate cuts in the indeterminate future.

Investment Section



Global Equity Markets

2023 closed with both US and international equity markets affirming their recovery from the disappointing performance of 2022. Growth sectors significantly outpaced value sectors during the year .

During the 2023 calendar year, US equity markets posted their strongest performance since 2021. The large-cap S&P 500 Index finished 2023 with an exceptional 26.3% return. The weakest relative performance for the year was from the Russell 2000 Index, which still climbed 16.9%.

International markets also reverted from their poor performance of the year prior. The MSCI EAFE Index was the best international index performer, returning 18.2%, while the MSCI Emerging Markets Index added a more tempered, but still solid, 9.8%.

Global Fixed Income Markets

Bond markets were broadly higher for the year. Investment-grade corporate bonds were the best-performing sector of the US Aggregate Index and gained 8.5% for the year. Treasuries lagged at +4.1% during the year but were still a welcome relief from 2022's negative bond market results. The bellwether fixed income benchmark, the Bloomberg US Aggregate Index, climbed 5.5% in 2023.

Non-US bonds exceeded their domestic counterparts for the quarter, lifting the 5.7% return of the Bloomberg Global Aggregate ex-US Index past the 5.5% return of US Aggregate Index for the year. Rising interest rates, elevated inflation, and geopolitical risks have hindered non-US index performance. Some of those headwinds eased in the fourth quarter, contributing to the index's positive performance for the calendar year.

Real Assets and Alternatives

Private equity markets experienced some challenges in the year with higher financing costs, a tempered growth outlook, and contracting valuation multiples. Fundraising continued to decline from a peak in 2021 with less active deal flow. Buyout strategies experienced stronger interest during the year while venture capital deal volume was lower.

Private debt fundraising was lower in 2023 with direct lending impacted the most. Results were generally strong in the asset class for the year as most deals were structured with floating interest rates. An uptick in default rates, however, worked against some results.

Real estate markets continued to be impacted by lower demand in some sectors, slowing rent growth and occupancy, and higher financing costs. Investors shifted away from core and core-plus strategies seeking liquidity, where available, but generally running into redemption gates. Opportunistic real estate strategies with a capital appreciation focus were the net beneficiaries of the shift. While multifamily and industrial properties remained most attractive, valuations in these sectors have experienced some contraction.

Investment Section



Diversified hedge funds provided a solid nominal return of nearly 10% for the year as managers were able to participate in the strong equity market results, while dampening the impacts of short-term market downturns. Sub strategies with higher net equity exposure performed the best, along with fixed income strategies tied to a trend in higher interest rates. Non-directional strategies with a bias toward lower market volatility were also successful as market volatility trended lower than 5-year averages during 2023.

In Closing

While inflation and rising interest rates represented the greatest headwinds for the System’s assets in 2023, gradually moderating inflation data has moved the Fed closer to the end of the current rate cycle. It’s important to reiterate that the structure of the System’s asset allocation, asset class compositions and manager selection are designed to withstand different types of market conditions and maximize the probability of meeting the actuarial return assumption and liquidity requirements over longer market cycles.

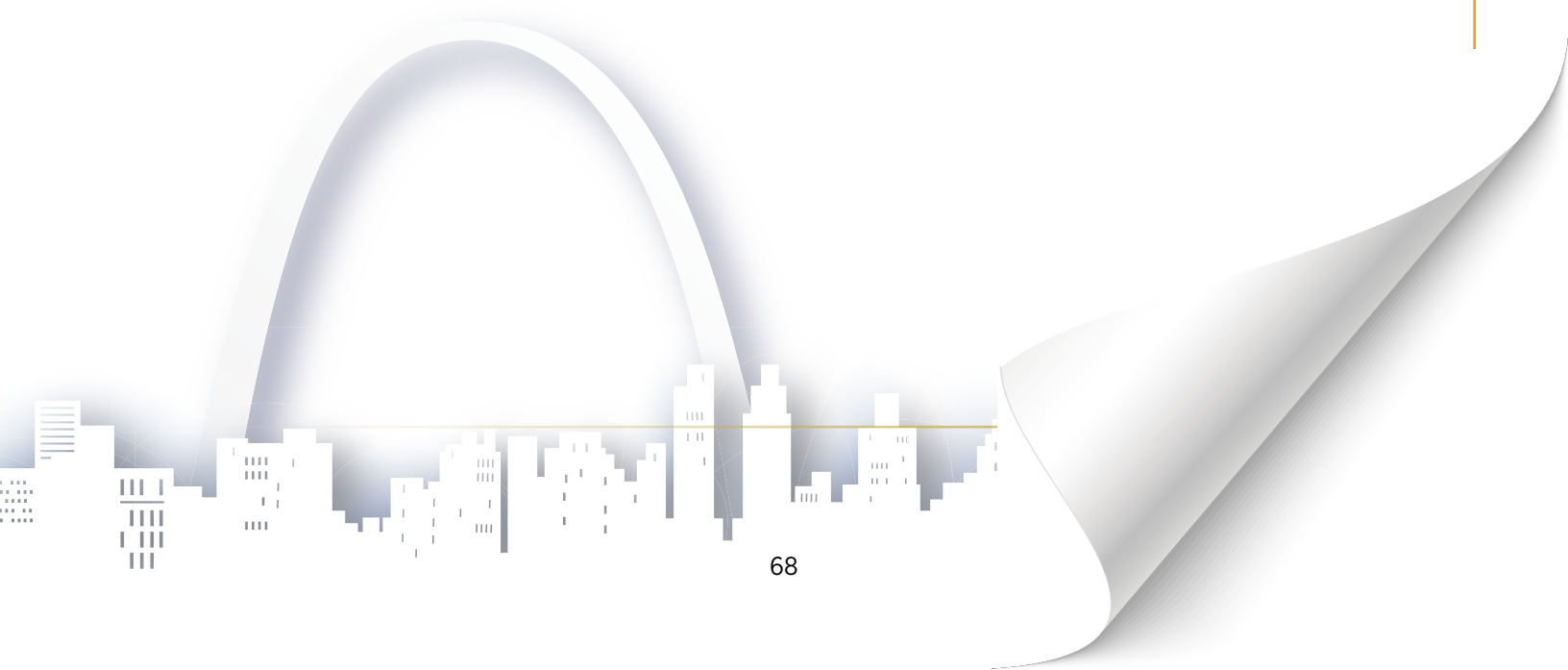
Sincerely,

Gwelda Swilley

Gwelda Swilley
Senior Institutional Advisor

Jeff Kuchta

Jeff Kuchta
Senior Institutional Advisor



Investment Section



Investment Policies

Pursuant to the Rules & Regulations established by the PSRSSTL Board of Trustees, the System’s assets are invested according to *Rule XIV. – Investment Policies*. The following is a summary of the System’s Investment Goals under Rule XIV., Section 3:

Assets of the System shall be invested in a manner designed to preserve and enhance principal over the long term, both in real and nominal terms. Total return, consistent with prudent investment management, is the primary goal of the System. Total return, as used herein, includes income less expenses plus realized and unrealized gains and losses in the System’s assets. The Trustees will establish, in the Investment and Operating Guidelines, both real and nominal long-term target rates of return for the Fund that are projected to provide a high probability of achieving the System’s long-term investment objectives within acceptable risk levels. The Trustees shall establish, in the Investment and Operating Guidelines, additional performance expectations for the Fund as a whole and for each asset classification within the Fund. Total Fund risk exposure and risk adjusted returns will be regularly evaluated and compared to such peer group or groups that the Trustees and investment consultant may from time to time select.

Investment and Operating Guidelines

PSRSSTL has issued Investment and Operating Guidelines to steer the System’s fiduciaries, including staff, investment consultants, investment professionals and investment managers, in the course of investing and administering the Fund’s assets, and to measure the performance of the Fund and its investment managers. The guidelines contain specific directives for the following:

- | | |
|---------------------------------------|---|
| Performance Objectives by Asset Class | Asset Allocation Policy |
| Operating Guidelines by Asset Class | Liquidity Assumption for Benefit Payments |
| Standards of Investment Performance | Watch List / Probation Process |
| Reporting Requirements | Use of Guidelines by Investment Managers |

Code of Ethics Policy

The Board of Trustees has adopted a Code of Ethics Policy that prohibits conflicts of interest and requires representatives of the Fund to act with the highest level of ethical responsibility in the performance of their duties. All Trustees, employees, professionals and vendors are required to acknowledge their understanding of the policy on an annual basis.

Investment Policies and Operating Guidelines Review

The Investment Policies and Operating Guidelines may be amended or modified from time to time by the Trustees, in the manner provided in the PSRSSTL Rules and Regulations, upon consideration of the advice and recommendations from the System’s retained professionals, including the actuary, accountant, investment managers, investment consultant, and attorney. The Investment Policies and Operating Guidelines are regularly reviewed by the Board of Trustees to ensure their relevance to the current needs of the Fund and to communicate any material changes thereto to the investment managers.

To view or print the PSRSSTL Investment Policies and Guidelines, please visit
<http://www.psrstl.org/about-us/rules-regulations-statutes/>

Investment Section



For the fiscal year ended December 31, 2023, the System's portfolio posted a gain of 11.43%, ranking 82nd within the Investment Metrics Universe of Public Funds. For the three-year and five-year periods ending December 31, 2023, the System's portfolio ranked 49th and 77th, returning 3.86% and 7.88%, respectively.

Investment returns for the System's total portfolio and asset class components for one-year, three-year and five-year periods ending December 31, 2023, are set forth below:

Investment Category	Annualized Returns for Periods Ended ¹		
	December 31, 2023, gross of fees		
	One Year	Three Years	Five Years
PSRS Total Portfolio	11.43%	3.86%	7.88%
Allocation Index ²	10.93%	3.60%	7.70%
PSRS Domestic Equity	20.86%	7.81%	13.43%
Russell 3000	25.96%	8.51%	15.16%
PSRS International Equity	22.66%	6.10%	10.38%
MSCI EAFE	18.24%	4.02%	8.16%
PSRS Emerging Market Equity	19.07%	-2.52%	-0.18%
MSCI Emerging Markets	20.09%	-2.69%	-1.40%
PSRS Global Equity	17.03%	4.70%	10.63%
MSCI All Country World	22.20%	6.57%	12.36%
Global Asset Allocation	9.50%	1.83%	5.86%
GAA Custom Benchmark	16.47%	1.77%	7.44%
PSRS Fixed Income	6.53%	-1.65%	2.27%
Custom Benchmark	6.05%	-2.96%	1.33%
PSRS Hedge Funds	9.63%	5.86%	6.90%
HFRI FOFs Composite	6.59%	2.33%	5.19%
PSRS Real Estate	-9.01%	3.54%	2.66%
NCREIF	-8.39%	6.04%	5.26%

¹The investment returns in the schedule are annualized by calculating the time weighted rates of return for the time periods.

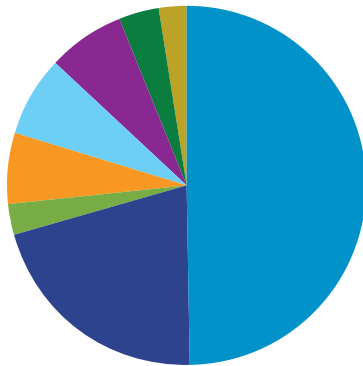
²The Allocation Index is comprised of various equity, fixed income, hedge fund, real estate and Treasury bill indices in proportion to the asset weights within the System.

Investment Section



Following is the System’s asset allocation at the fiscal year ended December 31, 2023:

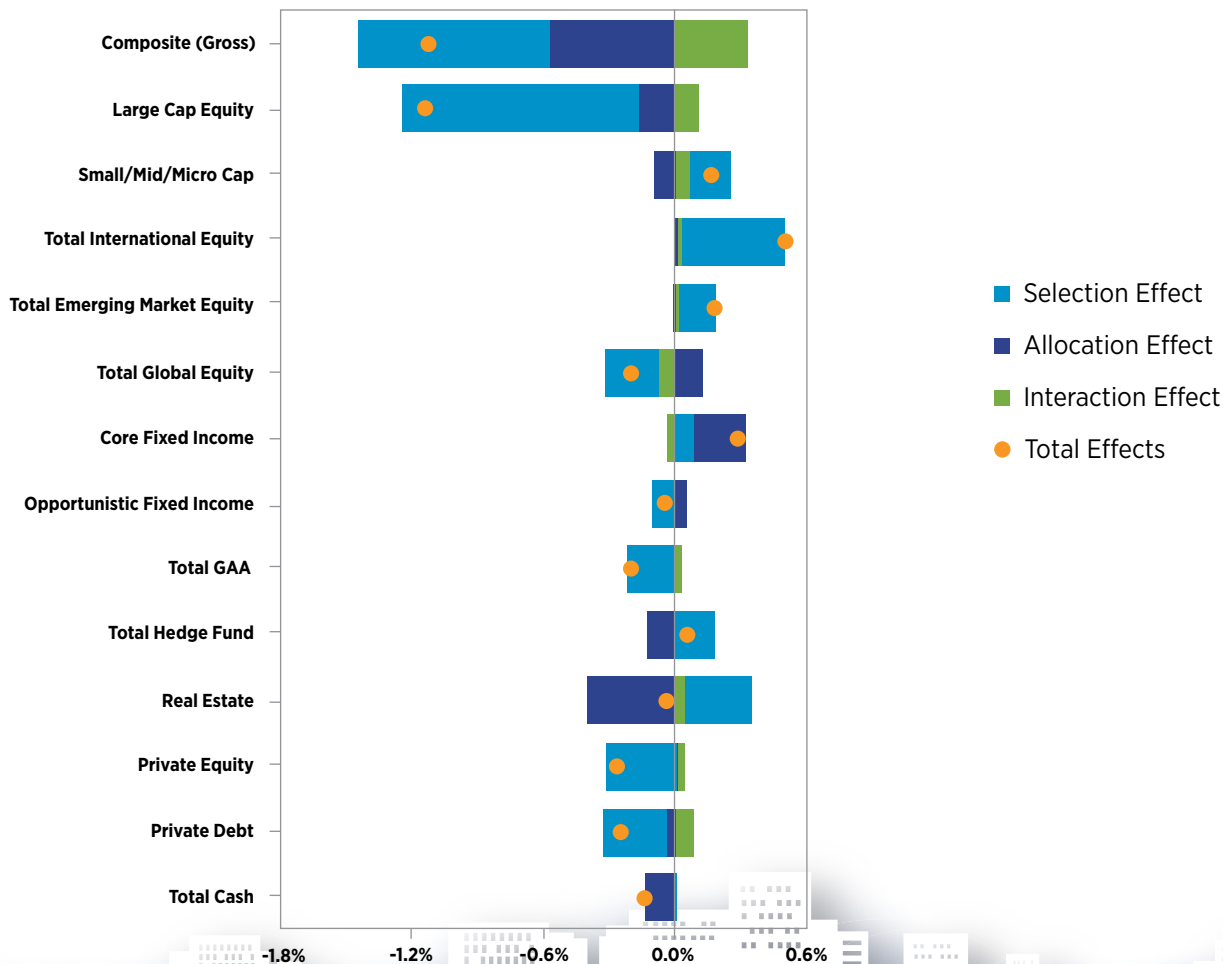
December 23: \$841,365,464



Allocation		
	Market Value	Allocation
Equity	\$418,654,110	49.8
Fixed Income	\$176,515,599	21.0
GAA	\$23,117,727	2.7
Hedge Fund	\$52,646,090	6.3
Real Estate	\$62,415,601	7.4
Private Equity	\$58,076,619	6.9
Private Debt	\$30,017,893	3.6
Cash	\$19,921,825	2.3

Following is the System’s relative performance attribution by asset class for the fiscal year ended December 31, 2023:

Attribution Effects Relative to Allocation Index 1 Year Ending December 31, 2023



Investment Section



Schedule of Investments Year Ended December 31, 2023

Investment Category	% of FV	Fair Value (FV)	Cost	FV Over (Under) Cost
Cash Equivalents	3.30%	\$ 27,701,835	\$ 27,701,835	\$ 0
U.S. Government and Agency Issues	5.05%	42,407,500	43,655,139	(1,247,639)
Corporate Bonds	2.80%	23,284,426	24,557,323	(1,272,897)
Foreign Investments (bonds & stocks)	9.92%	83,077,338	75,161,912	7,915,426
Common and Preferred Stocks	20.32%	170,482,041	128,644,326	41,837,715
Mutual and Co-Mingled Funds	40.66%	341,063,608	207,920,668	133,142,940
Real Estate Partnerships	5.77%	48,396,585	71,763,617	(23,367,032)
Limited Partnerships	12.18%	102,221,292	99,790,453	2,430,839
Total	100.0%	\$838,634,625	\$679,195,273	\$159,439,352

Fair Value of All Assets Years Ended December 31, 2021 - 2023

Investment Category	December 31, 2021		December 31, 2022		December 31, 2023	
	Fair Value	Total	Fair Value	Total	Fair Value	Total
Cash, Receivables, Cash Equivalents	\$ 51,328,283	6.26%	\$ 42,341,245	5.23%	\$38,386,844	4.51%
Property and Building	1,520,115	0.16%	1,468,488	0.18%	1,416,862	0.16%
U.S. Government & Agency Issued Bonds	28,800,098	2.95%	27,967,198	3.45%	42,407,500	4.99%
Corporate Bonds	32,828,877	3.38%	24,014,626	3.00%	23,284,426	2.74%
Foreign Investments (bonds and stocks)	94,236,786	9.66%	82,019,025	10.14%	83,077,338	9.76%
Common and Preferred Stocks	230,724,806	23.67%	183,586,017	22.70%	170,482,041	20.03%
Mutual and Co-Mingled Funds	402,073,191	41.24%	300,787,261	37.19%	341,063,608	40.07%
Real Estate Partnerships	54,001,917	5.54%	56,478,101	7.00%	48,396,585	5.69%
Limited Partnerships	79,213,149	8.12%	89,578,769	11.07%	102,221,292	12.00%
Other Assets	214,501	0.02%	331,381	0.04%	441,474	0.05%
Total	\$974,941,723	100.0%	\$819,672,337	100.0%	\$851,177,970	100.0%

Investment Section



Asset Allocation and Investment Managers As of December 31, 2023

Asset Class	Management Style	Relative to Total Portfolio						Asset Class	
		Fair Value		Target Value		Variance		Fair Value	
Money Managers		Value	%	Value	%	Value	%	Value	%
Large Cap Growth Domestic Equities		65,060	7.7%	42,093	5.0%	22,967	2.7%		
Mellon Large Cap Stock Index Fund	Large Cap Growth							27,233	41.9%
TCW Asset Management	Large Cap Growth							37,827	58.1%
Large Cap Core Domestic Equities		24,854	3.0%	16,837	2.0%	8,017	1.0%	24,854	100.0%
Mellon Stock Index Fund	Large Cap Core								
Large Cap Value Domestic Equities		69,250	8.2%	42,093	5.0%	27,157	3.2%	69,250	100.0%
The Edgar Lomax Company	Large Cap Value								
Mid/Small/Micro Cap Domestic Equities		82,110	9.8%	75,767	9.0%	6,343	0.8%		
Westfield Capital Management	Small Cap Growth							26,585	32.4%
Systematic Financial Management	Small Cap Value							27,659	33.7%
Dimensional Fund Advisors (DFA)	Micro Cap							27,866	33.9%
Global Tactical Asset Allocation		23,118	2.7%	25,256	3.0%	(2,138)	-0.3%		
	Balanced Fund							0	0.0%
	Balanced Fund							0	0.0%
PIMCO	Balanced Fund							23,118	100.0%
Global Equities		49,431	5.9%	42,093	5.0%	7,338	0.9%		
ARGA	Global Equities							0	0.0%
Combined Account	Global Equities							49,431	100.0%
Foresight Global Investors (FGI)	Global Equities							0	0.0%
Martin Investment Management (MIM)	Global Equities							0	0.0%
Redwood Global	Global Equities							0	0.0%
International Equities		127,928	15.2%	185,209	22.0%	(57,281)	-6.8%		
Dimensional Fund Advisors (DFA)	Emerging Markets							16,890	13.2%
Invesco Trust Company	Emerging Markets							15,907	12.4%
Open	Emerging Markets Small Cap							0	0.0%
Fidelity Institutional Asset Management	International Equities							44,200	34.6%
Causeway	International Equities							50,931	39.8%
Core Domestic Bonds		70,243	8.3%	84,186	10.0%	(13,943)	-1.7%		
EARNEST Partners	Core Domestic Bonds							21,806	31.0%
Manulife Investment Management	Core Domestic Bonds							48,437	69.0%
Xponance, Inc. (formerly Piedmont Investment Advisors)	Core Domestic Bonds							0	0.0%
Absolute Return Domestic Bonds		33,568	4.0%	37,884	4.5%	(4,316)	-0.5%		
Loomis Sayles	Unconstrained Fixed Income							33,568	100.0%
Treasury Inflation-Protected Securities		22,162	2.6%	25,256	3.0%	(3,094)	-0.4%		
Mellon TIPS Index Fund	TIPS							22,162	100.0%
Emerging Markets Debt		22,851	2.7%	25,256	3.0%	(2,405)	-0.3%		
Lazard Asset Management	Emerging Markets							22,851	0.0%
Global Multi-Sector Bonds		27,691	3.3%	37,884	4.5%	(10,193)	-1.2%		
Neuberger Berman Trust Co.	Global Opportunistic Bonds							27,691	100.0%
Hedged Strategies		52,280	6.2%	42,093	5.0%	10,187	1.2%		
EnTrustPermal ²	Fund of Funds							114	0.2%
Grosvenor Capital Management	Fund of Funds							25,367	48.5%
Whitebox Advisors	Multi-Strategy Direct							26,799	51.3%
Real Estate		48,397	5.7%	58,930	7.0%	(10,533)	-1.3%		
UBS Trumbull Property & Income Funds	Commercial Real Estate							48,397	100.0%
Private Markets		102,996	12.2%	101,023	12.0%	1,973	0.2%		
Private Equity, Private Debt, Private Real Estate	Limited Partnerships							102,996	100.0%
Cash		19,922	2.4%	0	0.0%	19,922	2.4%		
U.S. Bank (checking & operating accounts)	Cash Accounts							19,922	
Total (000's Omitted)		\$841,861	100.0%	\$841,861	100.0%			\$841,861	

Investment Section



Portfolio Characteristics Total Domestic Equity SMAs As of December 31, 2023

Portfolio Characteristics (Benchmark: Russell 3000 Index)

	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$)	216,868,982,575	618,100,953,824
Median Mkt. Cap (\$)	5,688,257,675	2,174,667,120
Price/Earnings Ratio	18.3	22.8
Price/Book Ratio	2.9	4.1
5 Yr. EPS Growth Rate (%)	13.8	16.6
Current Yield (%)	2.0	1.5
Beta (5 Years, Monthly)	0.98	1.00
Number of Stocks	295	2,976

Top Ten Equity Holdings (Benchmark: Russell 3000 Index)

	Port Wt	Bench Wt
FedEx Corp.	2.7	0.1
Intel Corp	2.0	0.5
General Dynamics Corp	2.0	0.1
NVIDIA Corporation	1.9	2.5
Dow Inc	1.9	0.1
Verizon Communications Inc	1.9	0.3
Amgen Inc	1.8	0.3
Microsoft Corp	1.8	6.0
Chevron Corp	1.7	0.6
ServiceNow Inc	1.6	0.3
% of Portfolio	19.3	10.8

Investment Section

**Top Ten Contributors (Benchmark: Russell 3000 Index)**

	Port Wt	Bench Wt	Active Wt	1 Year Return	CTR (%)
NVIDIA Corporation	1.1	0.9	0.2	239.0	2.7
Amazon.com Inc	1.2	2.0	-0.8	80.9	1.0
Microsoft Corp	1.6	4.8	-3.2	58.2	1.0
Intel Corp	0.9	0.3	0.6	94.6	0.8
ServiceNow Inc	0.8	0.2	0.6	82.0	0.7
Alphabet Inc	1.0	1.3	-0.3	58.8	0.6
Meta Platforms Inc	0.3	0.7	-0.4	194.1	0.5
Apple Inc	1.0	5.2	-4.2	49.0	0.5
First Citizens BancShares Inc	0.5	0.0	0.5	87.7	0.5
SALESFORCE INC	0.4	0.3	0.1	98.5	0.4
% of Portfolio	8.8	15.7	-6.9		8.6

Top Ten Detractors (Benchmark: Russell 3000 Index)

	Port Wt	Bench Wt	Active Wt	1 Year Return	CTR (%)
Pfizer Inc	1.4	0.8	0.6	-41.2	-0.6
Walgreens Boots Alliance Inc	1.5	0.1	1.4	-25.1	-0.4
Chevron Corp	1.9	0.9	1.0	-13.6	-0.3
CVS Health Corp	1.9	0.3	1.6	-12.5	-0.2
Enphase Energy Inc	0.4	0.1	0.3	-50.1	-0.2
National Vision Holdings Inc	0.3	0.0	0.3	-46.0	-0.1
Exelon Corp	0.9	0.1	0.8	-14.0	-0.1
Metlife Inc.	2.0	0.1	1.9	-5.5	-0.1
Exxon Mobil Corp	1.7	1.2	0.5	-6.2	-0.1
Coca-Cola Co (The)	1.8	0.7	1.1	-5.2	-0.1
% of Portfolio	13.8	4.3	9.5		-2.2

Investment Section



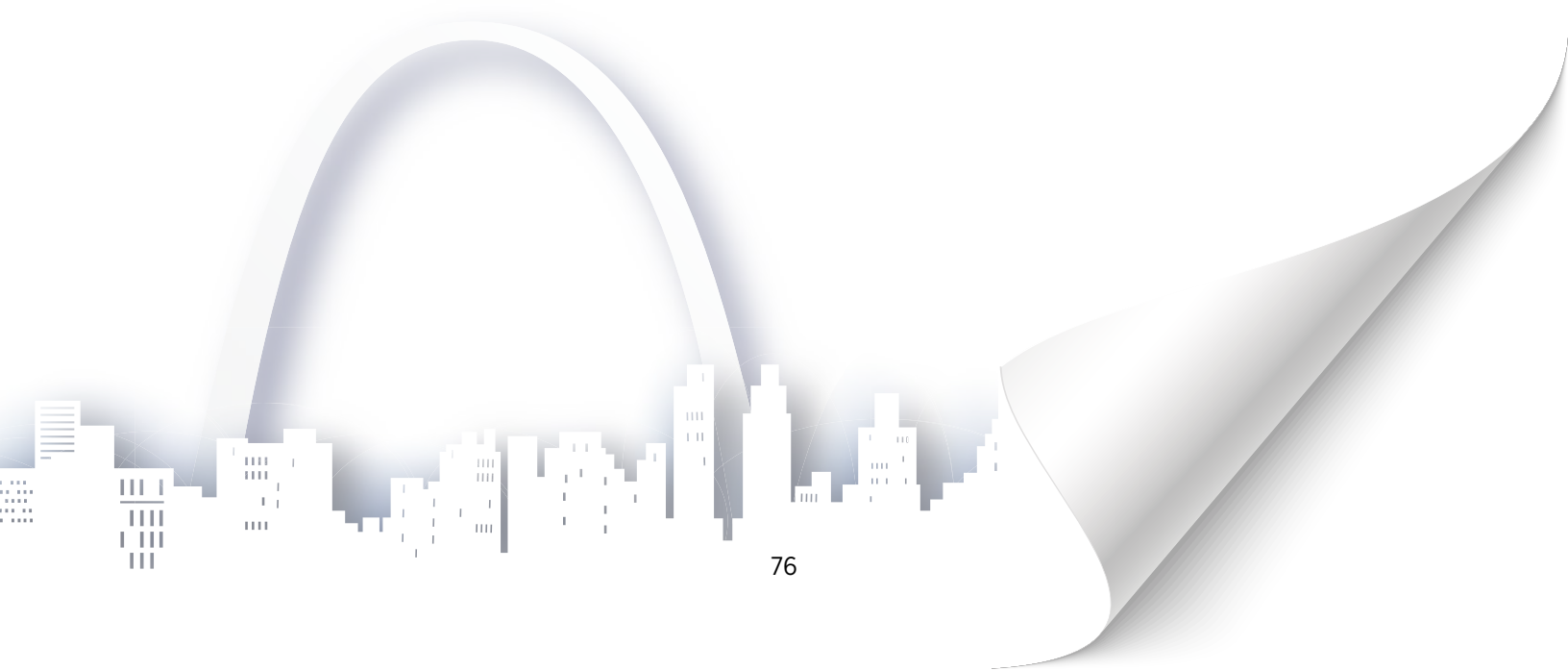
Domestic Bond Investments

A complete list of portfolio holdings is available for a fee based on preparation time and the cost of materials. The information shown reflects securities held for the fiscal year ended December 31, 2023, excluding pooled or mutual funds.

PSRSSTL Domestic Bond Portfolio Performance & Characteristics

2023 Return	6.3%
Average Yield to Maturity	5.0%
Average Duration	6.2 Years
Average Quality Rating	AA / A
Five-Year Annualized Return	1.4%

PSRSSTL Domestic Bond Portfolio Quality Ratings	Percentage of PSRSSTL Domestic Bond Portfolio (%)
AAA	6.3
AA	64.2
A	8.7
BBB	17.0
BB and Below	3.7
Not Rated	0.1



Investment Section



Brokerage Commissions Paid Year Ended December 31, 2023

Company	Commissions
B RILEY SECURITIES	\$278.80
BAIRD & COMPANY	\$1,094.85
BARCLAYS CAPITAL	\$3,000.97
BERENBERG	\$6,438.08
BMO CAPITAL MARKETS	\$84.40
BOFA SECURITIES, INC.	\$963.68
BTIG, LLC	\$73.60
CACEIS BANK	\$422.36
CANACCORD GENUITY INC.	\$5.60
CANTOR FITZGERALD & CO.	\$50.78
CAP INSTITUTIONAL SERVICES INC	\$11,559.10
CDSL	\$78.88
CIBC WORLD MARKET SECURITIES	\$122.42
CITIGROUP	\$19,278.54
CL KING	\$2,776.50
CLSA	\$3,257.99
CLEARSTREAM	\$133.50
COWEN AND COMPANY, LLC	\$894.28
CREDIT SUISSE SECURITIES	\$571.29
DBS VICKERS	\$220.44

Company	Commissions
DAIWA	\$1,325.81
DAVIDSON	\$6.40
DEUTSCHE BANK	\$181.38
EUROMOBILIARE	\$314.11
EVERCORE	\$1,160.97
EXANE	\$643.22
GOLDMAN SACHS & CO. LLC	\$3,750.75
GUGGENHEIM SECURITIES, LLC	\$479.30
GUZMAN & COMPANY	\$5,055.06
HONG KONG BANK	\$403.96
HSBC SECURITIES, Inc.	\$2,896.08
INDEBANK	\$382.57
INSTINET	\$10,578.77
INVESTMENT TECHNOLOGY GROUP	\$778.31
JB CAPITAL MARKETS	\$15.78
J.P. MORGAN SECURITIES LLC	\$3,856.6
JANNEY MONTGOMERY SCOTT INC.	\$133.60
JEFFERIES LLC	\$2,471.8
JMP SECURITIES	\$54.40
JONES TRADING	\$537.00

Investment Section

Brokerage Commissions Paid Year Ended December 31, 2023 *continued*

Company	Commissions
KEEFE BRUYETTE AND WOODS INC.	\$75.20
KEPLER	\$298.08
KEYBANC CAPITAL MARKETS INC	\$411.90
LIQUIDNET INC	\$2,063.42
LOOP CAPITAL MARKETS	\$941.35
LUMINEX TRADING AND ANALYTICS	\$514.35
MACQUARIE SECURITIES INC	\$971.45
MEDIOBANCO	\$176.76
MERRILL LYNCH	\$765.72
MISCHLER FINANCIAL GROUP, INC	\$6,253.52
MIZUHO SECURITIES, INC.	620.04
MORGAN STANLEY & CO. LLC	\$948.24
NATIONAL FINANCIAL SERVICES CO	\$217.62
NEEDHAM AND COMPANY LLC	\$205.74
NORTHERN TRUST	\$3.30
O'NEIL SECURITIES INC.	\$110.80
OPPENHEIMER & CO. INC.	\$220.80
PAREL	\$141.38
PARIBAS	\$1,157.61
PENSERRA SECURITIES	\$201.93

Company	Commissions
PERSHING LLC	\$11,586.88
PIPER SANDLER & CO	\$6,187.86
RAYMOND JAMES & ASSOCIATES INC	\$1,173.76
RBC CAPITAL MARKETS, LLC	\$49.50
ROYAL BANK OF SCOTLAND	\$85.37
SANFORD C. BERNSTEIN & CO., LL	\$4,132.31
SMBC SECURITIES	\$231.42
STATE STREET	\$4,762.8
STEPHENS INC	\$19.60
STIFEL, NICOLAUS & CO.,INC.	\$220.25
STONEX FINANCIAL	\$10,509.01
STRATEGAS SECURITIES LLC	\$235.43
STURDIVANT	\$8,733.54
SVB LEERINK LLC	\$127.20
TRUIST SECURITIES INC.	\$946.92
UBS SECURITIES LLC	\$7,687.85
VIRTU AMERICAS LLC	\$2,020.27
WEDBUSH SECURITIES INC.	\$37.60
WELLS FARGO SECURITIES, LLC	\$592.40
WILLIAM BLAIR & COMPANY, L.L.C	\$145.60
Total	\$162,116.71

Investment Section



Investment Management Fees and Expenses Years Ended December 31, 2023 and 2022

	2022	2023
Investment management fees		
Causeway Capital Management	\$ 271,509	\$ 314,958
Earnest Partners	27,273	49,094
Edgar Lomax Company	304,663	307,918
Fidelity Institutional Asset Management	260,145	241,813
Invesco Global Performance	241,022	146,883
Intech Investment Management	104,662	2,435
Lazard Asset Management	198,127	163,481
Loomis Sayles & Company, LP	229,110	125,208
Manulife Asset Management	107,816	115,998
Mellon Capital Management	11,658	18,642
Systematic Financial Management	287,904	294,398
TCW Asset Management Company	181,253	191,880
UBS Realty Investors LLC	474,421	424,531
US Bank Trust	102,682	101,418
Westfield Capital Management	246,637	264,637
Whitebox Multi-Strategy Fund, L.P.	355,046	379,941
Xponance	<u>300,166</u>	<u>277,874</u>
Total Investment Management Fees	3,704,094	3,420,523
AndCo, LLC	189,250	190,000
Banking services	<u>31,136</u>	<u>29,071</u>
Total Investment Expenses	\$3,924,480	\$3,639,594



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through benefit programs and services which are soundly financed and...



Actuarial Section



231 South Bemiston
Suite 400
Clayton, MO 63105

June 2023

Ms. Susan Kane
Executive Director
PSRS of the City of St. Louis
3641 Olive Street, Suite 300
St. Louis, MO 63108-3601

Re: Actuarial Certification of January 1, 2023 Valuation

Dear Members of the Public School Retirement System of the City of St. Louis Board:

Buck Global, LLC (Buck) has been retained to complete the actuarial valuation for the Public School Retirement System of the City of St. Louis (“System”) for the plan year beginning January 1, 2023. The results of that valuation are included in this report.

The computations herein were performed as of January 1, 2023. They were determined on the basis of employee data and financial data furnished as of January 1, 2023 and December 31, 2022, respectively, by System staff. The actuary did not verify the data submitted but did perform tests for consistency and reasonableness.

The purposes of the valuation are to:

- (1) determine the required annual contributions from the board of education, the retirement system, and the charter schools; and
- (2) present the valuation results of the System as of January 1, 2023.

This report is submitted in accordance with Section 169.450-16 Revised Statutes of Missouri (R.S. Mo.). The required contribution to the System from the board of education, the retirement system, and the charter schools is computed in accordance with Section 169.490 R.S. Mo. The amount of the required contribution is stated in Section 1.2: Required Annual Contribution. Information with respect to financial disclosures under GASB 67 and 68 may be found in a separate report.

Actuarial Section



In preparing this valuation, we have employed generally accepted actuarial methods and assumptions, in conjunction with member data and financial information provided to us by the System, to determine a reasonable and sound value for the System liability. The member data has not been audited, but it has been reviewed and found to be consistent, both internally and with prior years' data. The validity of the valuation results is dependent upon the accuracy of the data and financial information provided.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the System and reasonable long-term expectations. The actuary performs an analysis of System experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience. The Experience Study for the period January 1, 2016 to December 31, 2020 was prepared by Buck and approved by the Board for use beginning with the January 1, 2022 actuarial valuation and will remain in effect for valuation purposes until such time as the Board adopts revised assumptions. The next Experience Study will be based on the period from January 1, 2021 to December 31, 2025 and upon approval by the Board will be the basis of valuations performed from January 1, 2026 through January 1, 2031. A summary of all assumptions and methods is presented in Section 3.8 of this report.

Where presented, references to "funded ratio" and "unfunded accrued liability" typically are measured on an actuarial value of assets basis. It should be noted that the same measurements using market value of assets would result in different funded ratios and unfunded accrued liabilities. Moreover, the funded ratio presented is appropriate for evaluating the need and level of future contributions but makes no assessment regarding the funded status of the plan if the plan were to settle (i.e. purchase annuities) for a portion or all of its liabilities.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Because of limited scope, Buck performed no analysis of the potential range of such future differences.

Buck prepared this report for use by the Retirement System and its auditors in reviewing the operation of the System, including the determination of contributions to be made to the System. Use of this report by other parties or for any other purpose may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies, or the inapplicability of the report for that purpose. Because of the risk of misinterpretation of actuarial results, Buck recommends requesting its advance review of any statement, document, or filing to be based on information contained in this report. Buck will accept no liability for any such statement, document or filing made without its prior review.

Actuarial Section



Actuarial Standards of Practice (“ASOPs”) 27 and 35 ask the actuary to disclose the information and analysis used to support the actuary’s determination that the assumptions selected by the Board do not significantly conflict with what, in the actuary’s professional judgment, are reasonable for the purpose of the measurement. In the case of the Board’s selection of expected return on assets (“EROA”), the signing actuaries have used economic information and tools provided by Buck’s Financial Risk Management (“FRM”) practice. A spreadsheet tool created by the FRM team converts averages, standard deviations, and correlations from Buck’s Capital Markets Assumptions (“CMA”) that are used for stochastic forecasting into approximate percentile ranges for the arithmetic and geometric average returns. It is intended to suggest possible reasonable ranges for EROA without attempting to predict or select a specific best estimate rate of return. It takes into account the duration (horizon) of investment and the target allocation of assets in the portfolio to various asset classes. Based on the actuary’s analysis, including consistency with other assumptions used in the valuation and the percentiles generated by the spreadsheet described above, the actuary believes the EROA does not significantly conflict with what, in the actuary’s professional judgment, is reasonable for the purpose of the measurement.

Actuarial Standard of Practice No. 56 provides guidance to actuaries when performing actuarial services with respect to designing, developing, selecting, modifying, using, reviewing, or evaluating models. Buck uses third-party software in the performance of annual actuarial valuations and projections. The model is intended to calculate the liabilities associated with the provisions of the plan using data and assumptions as of the measurement date under the funding rules specified in this report. The output from the third-party vendor software is used as input to an internally developed model that applies applicable funding rules to the derived liabilities and other inputs, such as plan assets and contributions, to generate many of the exhibits found in this report. Buck has an extensive review process in which the results of the liability calculations are checked using detailed sample life output, changes from year to year are summarized by source, and significant deviations from expectations are investigated. Other funding outputs and the internal model are similarly reviewed in detail and at a higher level for accuracy, reasonability, and consistency with prior results. Buck also reviews the third-party model when significant changes are made to the software. This review is performed by experts within Buck who are familiar with applicable funding rules, as well as the manner in which the model generates its output. If significant changes are made to the internal model, extra checking and review are completed. Significant changes to the internal model that are applicable to multiple clients are generally developed, checked, and reviewed by multiple experts within Buck who are familiar with the details of the required changes.

Actuarial Section



The undersigned meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein, and is available to answer questions regarding this report.

We believe that the assumptions and methods used for funding purposes are individually and in aggregate, reasonable and in combination represent a best estimate of anticipated experience under the plan and meet the parameters set by the Actuarial Standards of Practice (ASOPs). We believe that this report conforms with the requirements of the Missouri statutes, and where applicable, other federal and accounting laws, regulations and rules, as well as actuarial principles and practices in accordance with all ASOPs.

Sincerely,

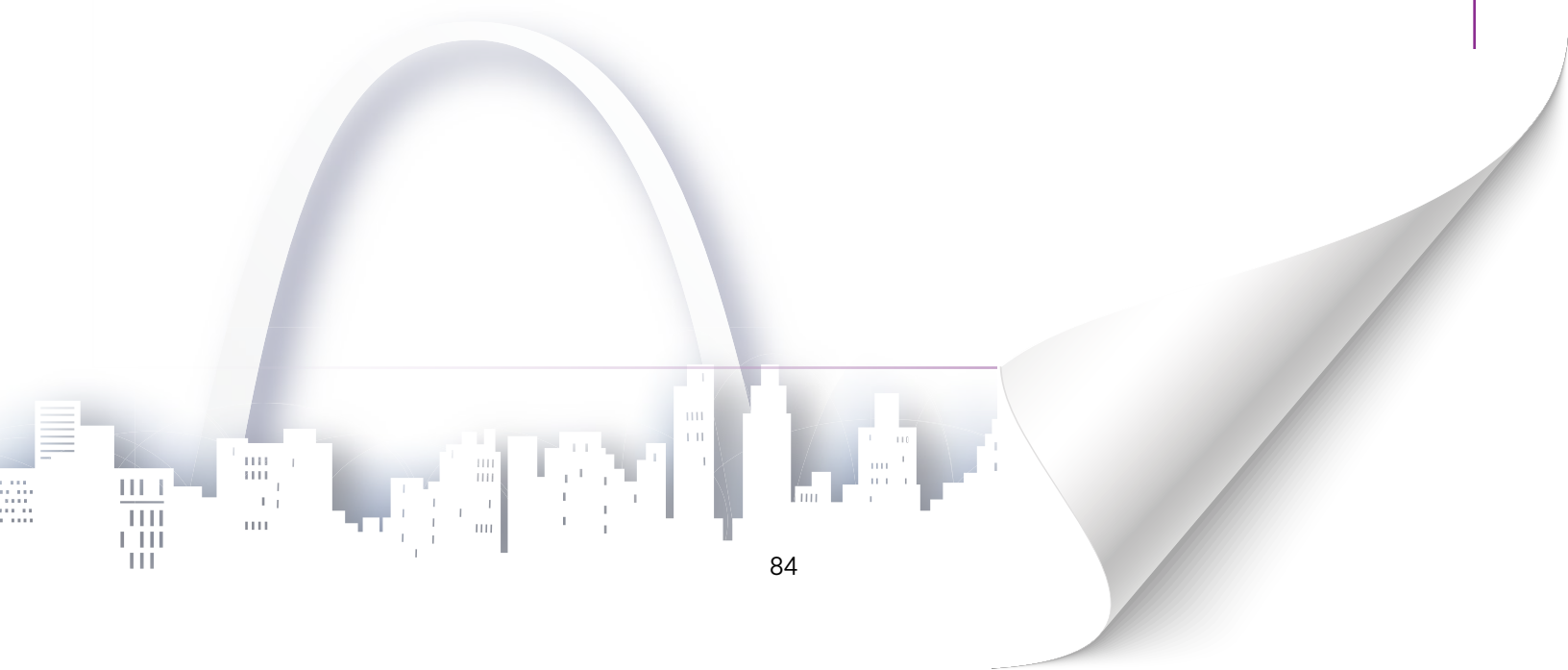
A handwritten signature in black ink that reads "Michael A. Ribble".

Michael A. Ribble, FSA, EA, MAAA, FCA
Principal, Wealth Consulting

Buck Global, LLC (Buck)

A handwritten signature in black ink that reads "Matthew Staback".

Matthew Staback, FSA, EA, MAAA, CERA, FCA
Senior Consultant, Wealth Consulting





Report Highlights

This report has been prepared by Buck to:

- Present the results of a valuation of the Public School Retirement System of the City of St. Louis (“System”) as of January 1, 2023; and
- Determine the required annual contribution for 2024.

This report is divided into four sections:

Section 1 contains the results of the valuation. It includes the experience of the System during the 2022 plan year, the actuarially required costs, and funded levels.

Section 2 contains asset information. It includes market value of assets, the calculation of actuarial value of assets, the expense & contingency reserve, and asset returns.

Section 3 describes the basis of the valuation. It summarizes the System provisions, provides information relating to the System members, and describes the funding methods and actuarial assumptions used in determining liabilities and costs. Also included is historical information about the System.

Section 4 contains the Actuarial Standards of Practice (ASOP) 51 disclosure. This section will provide insight of potential risks to the system.

Experience Gains and Losses

Actuarial gains (or losses) result from differences between the actual experience of the System and the expected experience based upon the actuarial assumptions. Annual gains (or losses) should be expected because short-term deviations from expected long-term average experience are common.

For the 2022 plan year, total (net) actuarial loss due to plan experience was about \$44.5 million. The experience may be broken into two components:

- 1. Investment:** Approximately \$33.8 million loss is attributable to the System’s actuarial rate of return on assets, which was 3.31% for plan year 2022, or 3.69% lower than the assumed rate of return of 7.0%. The loss resulted from returns being lower than expected. By comparison, the rate of return on the market value of assets during plan year 2022 was -10.87%. The difference in these returns is due to the asset smoothing.
- 2. Actuarial Liability:** Approximately \$10.7 million loss is attributable to the demographic experience of the Plan. The Plan experienced higher than expected reported compensation during 2022 due to a large number of new entrants into the Plan, which was the main source of the loss. However, the Plan’s total liability loss was reduced by actuarial gains resulting from higher than expected deaths during 2022.

Actuarial Section



Actuarial Assumption and Method Changes

For the 2023 valuation, the interest crediting rate assumption was changed from 5.0% to 2.0% as a result of the Plan lowering the interest crediting rate to 2.0% effective 2023. Modifications were made to the expenses and contingency reserve to reflect recently negotiated costs. The change in interest crediting rate decreased the Actuarial Accrued Liability as of January 1, 2023 by approximately \$0.7 million. The change in the expense and contingency reserve increased the Actuarial Value of Assets as of January 1, 2023. A detailed description of the actuarial assumptions and methods appears in section 3.8.

Normal Cost

The annual normal cost contribution with an interest adjustment increased from \$22.3 million in 2022 to \$24.8 million in 2023. This increase is primarily due to the large increase in new entrants. Covered payroll increased from \$259.4 million to \$285.9 million. The annual normal cost rate as a percentage of covered payroll increased from 8.60% in 2022 to 8.66% in 2023.

Amortization Payment of Unfunded Actuarial Accrued Liability

The actuarial accrued liability contribution is determined as the amount necessary to amortize the remaining Unfunded Actuarial Accrued Liability (UAAL). The Plan implemented a 15-year, level dollar, closed amortization period with layered amortization for future changes as of January 1, 2022. The initial UAAL as of January 1, 2022 will be paid off in 15 years. Any deviations in UAAL due to actuarial gains and losses, assumptions changes, and plan amendments will be amortized over a new 15-year period. The total amortization payment with an interest adjustment increased from \$35.7 million to \$37.9 million. A detailed description of the layered amortization payments can be seen in section 1.3. The amortization payment component of the contribution rate decreased from 13.77% to 13.24% of covered payroll.

Actuarially Determined Employer Contribution

The Actuarially Determined Employer Contribution (ADEC) is determined annually and equals the normal cost with an interest adjustment plus the Amortization Payment of UAAL with an interest adjustment less expected member contributions. Expected member contributions for 2023 were 8.49% of covered payroll. For plan year 2023, the actuarially determined employer contribution is \$38.3 million as compared to \$37.0 million for plan year 2022. This increase is primarily due to the unfavorable market returns. The total employer cost rate decreased from 14.28% to 13.41% due to the higher covered compensation.

Actuarial Section



Required Contribution and Timing

In 2001, the Board of Education agreed to institute a one-year lag for payments of the annual required contributions due from SLPS for future years. Therefore, this actuarial valuation is used to determine the annual required contribution (ARC) payment from SLPS for plan year 2023, due to the Plan no later than December 31, 2024. Due to legislation passed August 28, 2017, the contribution rate is set as a fixed percentage rather than an actuarially determined percentage. Because of the statutory required contribution rate, the dollar amount of the ARC due from SLPS no later than December 31, 2024 increased from \$23.6 million for plan year 2022 to \$25.0 million for plan year 2023. The increase in statutory required contribution amount resulted from a higher covered compensation in 2023 compared to 2022.

As a percentage of covered payroll in plan year 2023, the contribution rate decreased from 14.00% for plan year 2022 to 13.50% for plan year 2023. Charter Schools pay both employer and member contributions as they occur shortly after each payroll period; therefore, this actuarial valuation is used to determine the contribution rate of 13.50% that Charter Schools should be paying beginning with payroll periods ending on or after January 1, 2023.



Actuarial Section



Summary and Comparison of Principal Valuation Results

Annual Required Contribution

2023	Board of Education	Retirement System	Charter Schools	Total
Normal Cost Contribution	\$ 16,026,862	\$ 53,182	\$ 8,676,410	\$ 24,756,454
Actuarial Accrued Liability Contribution	24,515,502	81,350	13,271,877	37,868,729
Member Contributions	(15,723,981)	(52,177)	(8,512,440)	(24,288,598)
Actuarially Determined Contribution (ADC)	24,818,383	82,355	13,435,847	38,336,585
Covered Payroll	185,118,414	614,280	100,216,947	285,949,641
ADC as % of Covered Payroll	13.41%	13.41%	13.41%	13.41%
Statutory Required Contribution Rate	13.50%	13.50%	13.50%	13.50%
Statutory Annual Required Contribution (ARC)	\$24,990,986	\$ 82,928	\$13,529,288	\$ 38,603,202
2022				
Normal Cost Contribution	\$ 14,525,814	\$ 50,353	\$ 7,742,614	\$ 22,318,781
Actuarial Accrued Liability Contribution	23,255,821	80,615	12,395,920	35,732,356
Member Contributions	(13,676,596)	(47,410)	(7,289,960)	(21,013,966)
Actuarially Determined Contribution (ADC)	24,105,039	83,558	12,848,574	37,037,171
Covered Payroll	168,852,563	585,315	90,002,539	259,440,417
ADC as % of Covered Payroll	14.28%	14.28%	14.28%	14.28%
Statutory Required Contribution Rate	14.00%	14.00%	14.00%	14.00%
Statutory Annual Required Contribution (ARC)	\$23,639,359	\$ 81,944	\$12,600,355	\$ 36,321,658
		January 1, 2023	January 1, 2022	
System Assets				
Expense and Contingency Reserve ¹		\$ 12,582,184	\$ 29,625,803	
Market Value, Excluding Expense & Contingency Reserve		\$ 805,285,795	\$ 943,201,853	
Actuarial Value		\$ 940,664,216	\$ 943,201,853	
System Liabilities				
Unfunded Actuarial Accrued Liability ¹		\$ 343,375,959	\$ 336,645,221	
Entry Age Normal (EAN) Actuarial Accrued Liability		\$1,284,040,175	\$1,279,847,074	
EAN Funding Ratio				
Actuarial Value Funding Ratio		73.3%	73.7%	
Market Value Funding Ratio		62.7%	73.7%	

¹Effective January 1, 2023, expense & contingency reserve is calculated based on cost information and participant enrollment provided from the Plan including renegotiated rates under Medical Advantage. See section 3.8 for full details. For January 1, 2022, the expense & contingency reserve was calculated on the assumption that 80% of population eligible enrolls in medical, vision, and dental.



Analysis of the Valuation

(1) Investment Experience

Our actuarial calculations were based upon the assumption that the System's assets earn 7.00% for 2022. The approximate market value rate of return during 2022 was -10.87%. The approximate actuarial value rate of return was 3.31%. The actuarial value rate of return accounts for the Plan's loss on assets in 2022 being smoothed over the next 5 years' valuations.

(2) Demographic Experience

The number of active members increased from 4,594 to 4,940 for the period. The average service of active members decreased from 8.11 to 7.71, the average age decreased slightly, and the average covered payroll increased by \$1,411 (2.5%). There were small changes in the inactive statistics. The membership statistics are provided in Sections 3.3 through 3.7 of this report.

(3) Salary Increases

The average covered payroll increased by 2.5% between January 1, 2022 and January 1, 2023.
Total annual covered payroll increased by 10.2% between January 1, 2022 and January 1, 2023.

(4) Changes in Methods from the Prior Valuation

There have been no changes in methods since the prior valuation.

(5) Changes in Assumptions from the Prior Valuation

A full detail summary of the assumptions can be found in section 3.8 of the report. The following changes in assumptions have been made effective with the January 1, 2023 valuation:

1. Lowered interest crediting rate from 5.0% to 2.0% per annum.
2. Updated Expense and Contingency Reserve to be based on actual premiums provided by the Plan.

(6) Changes in Benefit Provisions from the Prior Valuation

Since the prior valuation, the participant account interest crediting rate was changed from 5.0% to 2.0% per annum.

(7) Other Changes

There have been no other changes since the prior valuation.

(8) Summary

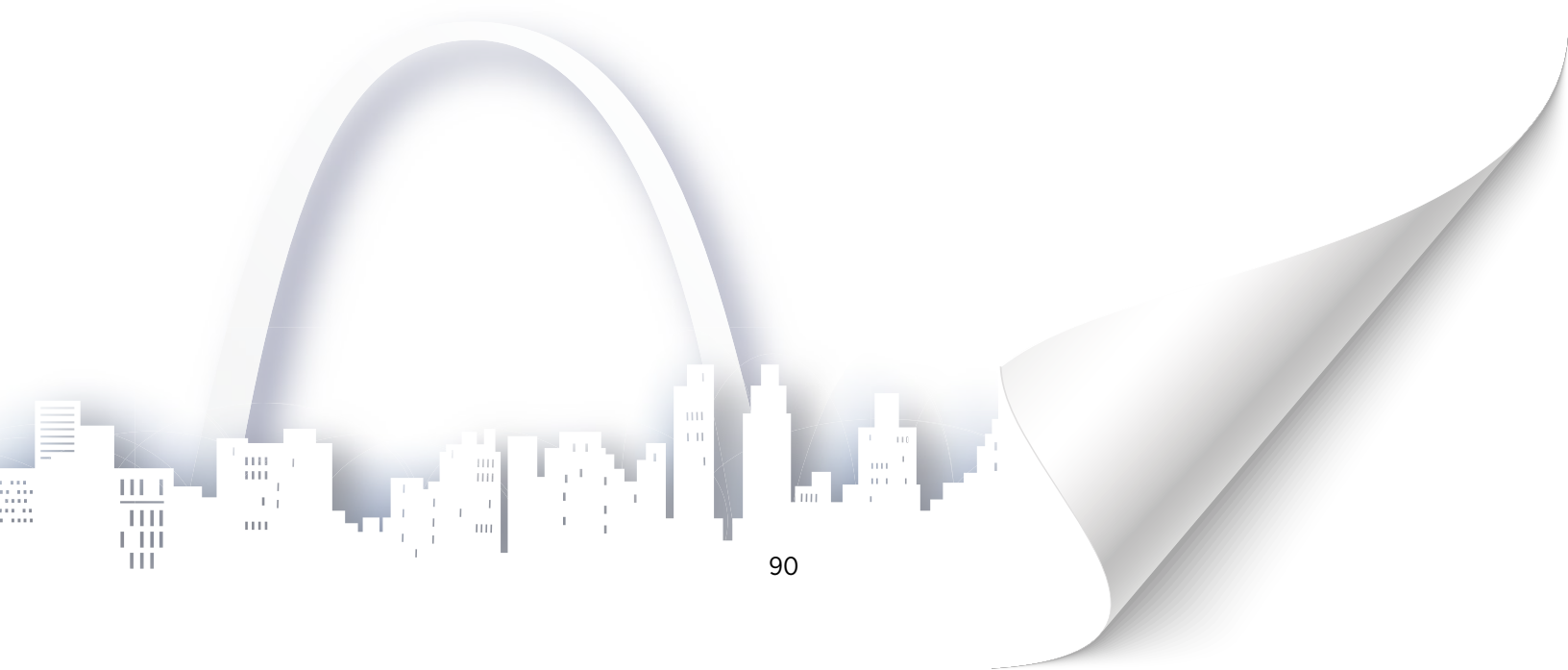
The overall effect of experience during the period resulted in a decreased change in the Entry Age Normal funding ratio utilizing the actuarial value of assets from 73.7% to 73.3%. The total actuarially determined contribution rate decreased from 14.28% to 13.41% of covered payroll.

Actuarial Section



(9) Comments on the Valuation

The Plan experienced an investment loss due to unfavorable returns. The Plan experienced a loss on market value of assets of \$169.2 million due to the rate of return on the market value of fund assets being (10.87)%, which is lower than the assumed rate of return of 7.0%. However, the Plan was able to limit the volatility of the actuarially determined employer contributions (ADEC) and funded status with the Plan's actuarial value of assets, which smooth gains and losses over a 5-year period. Eighty percent of the \$169.2 million loss will be deferred until later years. Unless favorable asset returns occur in upcoming years, the Plan should anticipate the ADEC to increase and funded status to decrease as the deferred loss from the 2022 asset experience will continue to be smoothed into the actuarial value of assets.



Actuarial Section



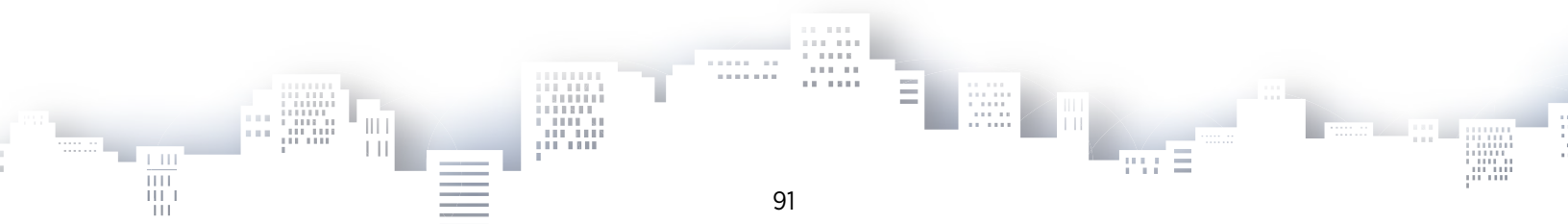
Actuarial Balance Sheet as of January 1, 2023

Actuarial Assets

Actuarial value of present assets	\$ 940,664,216
Actuarial present value of future participant contributions	152,726,632
Actuarial present value of future employer contributions	<u>332,168,167</u>
Total present and future assets	\$1,425,559,015

Actuarial Liabilities

Actuarial present value of benefits now payable	\$ 867,806,864
Actuarial present value of benefits payable in the future:	
Active participants	\$ 493,509,206
Terminated vested participants	46,306,207
Terminated nonvested participants	<u>17,936,738</u>
Total payable in the future	\$ 557,752,151
Total liabilities for benefits	\$1,425,559,015
Surplus / (deficit)	0



Actuarial Section



Prioritized Solvency Test

Valuation Date January 1	Active Participants' Accumulated Contributions	Retirees, Beneficiaries and Inactive Participants	Active Participants (employer- financed)	Actuarial Value of Assets	Percent Covered by Valuation Assets		
	(1)	(2)	(3)		(1)	(2)	(3)
1999	130,705,014	276,290,128	303,953,494	694,250,672	100%	100%	95%
2000	129,398,364	353,852,977	288,213,016	770,090,498	100%	100%	100%
2001	127,086,325	414,052,293	269,590,438	828,097,298	100%	100%	100%
2002	116,506,785	476,104,516	372,221,726	861,128,076	100%	100%	72%
2003	115,570,837	492,633,382	361,818,972	873,260,102	100%	100%	73%
2004	106,021,476	528,287,121	364,459,284	901,996,455	100%	100%	73%
2005	89,710,662	518,880,414	368,306,240	935,328,638	100%	100%	89%
2006	90,001,111	661,353,685	319,920,373	983,828,243	100%	100%	73%
2007	96,223,413	712,467,372	305,409,824	1,003,428,983	100%	100%	64%
2008	98,112,123	781,006,957	249,244,208	1,014,923,381	100%	100%	54%
2009	104,576,264	801,995,237	187,035,147	963,851,408	100%	100%	31%
2010	110,054,510	805,831,292	195,185,151	950,709,944	100%	100%	18%
2011	103,178,297	842,643,351	169,510,764	944,356,735	100%	100%	0%
2012	116,268,566	850,498,527	189,084,439	925,389,359	100%	95%	0%
2013	120,355,959	849,412,565	190,553,739	914,494,335	100%	93%	0%
2014	114,092,991	896,477,122	164,014,835	922,922,386	100%	90%	0%
2015	116,755,946	892,626,625	156,682,397	926,905,797	100%	91%	0%
2016	120,507,482	887,757,927	157,501,063	915,391,079	100%	90%	0%
2017	122,746,557	933,916,821	166,666,305	901,076,683	100%	83%	0%
2018	122,241,799	935,005,411	178,661,824	899,816,911	100%	83%	0%
2019	126,636,422	932,068,226	179,448,673	886,156,011	100%	81%	0%
2020	130,619,480	934,865,605	176,132,159	888,759,194	100%	81%	0%
2021	135,068,312	928,763,007	157,461,633	894,251,149	100%	82%	0%
2022 ³	137,779,168	940,721,438	201,346,468	943,201,853	100%	86%	0%
2023	152,726,632	932,049,809	199,263,734	940,664,216	100%	85%	0%

³Prioritized Solvency Test reflects Entry Age Normal effective January 1, 2022. Years prior to 2022 used Projected Unit Credit.

Actuarial Section



Development of the Actuarial Value of Assets

A. Market Value of Assets (MVA) on January 1, 2022	\$ 972,827,656
B. Member Contributions	22,794,266
C. Employer Contributions	41,034,190
D. Benefits paid	(114,552,519)
E. Administrative Expenses	(1,319,797)
F. Investment return (net of investment expenses only)	<u>(102,915,817)</u>
G. Market Value of Assets on January 1, 2023	817,867,979
H. Expense and Contingency Reserve as of January 1, 2023	12,582,184
I. MVA on January 1, 2023 minus Expense & Contingency Reserve (G. - H.)	805,285,795
J. Yield for the 2022 plan year based upon Market Value of Assets	(10.87%)
K. Expected Return on Assets	66,307,209
L. Gain/(Loss)	
(a) 2022	(169,223,026)
(b) 2021	N/A
(c) 2020	N/A
(d) 2019	N/A
(e) 2018	N/A
M. Amount to be Recognized	
(a) 2022	(33,844,605)
(b) 2021	N/A
(c) 2020	N/A
(d) 2019	N/A
(e) 2018	N/A
N. Amount not Recognized	
(a) 2022 (La x 4/5)	(135,378,421)
(b) 2021 (Lb x 3/5)	N/A
(c) 2020 (Lc x 2/5)	N/A
(d) 2019 (Ld x 1/5)	N/A
(e) 2018 (Le x 0/5)	N/A
(f) Total	(135,378,421)
O. Actuarial value of assets at January 1, 2023, (I) - (Nf)	940,664,216
P. Minimum Corridor of Actuarial Value of Assets (80% x I.)	644,228,636
Q. Maximum Corridor of Actuarial Value of Assets (120% x I.)	966,342,954
R. Actuarial value of assets at January 1, 2023 adjusted for limits	940,664,216
S. Yield for the 2022 plan year based upon the Actuarial Value of Assets	3.31%

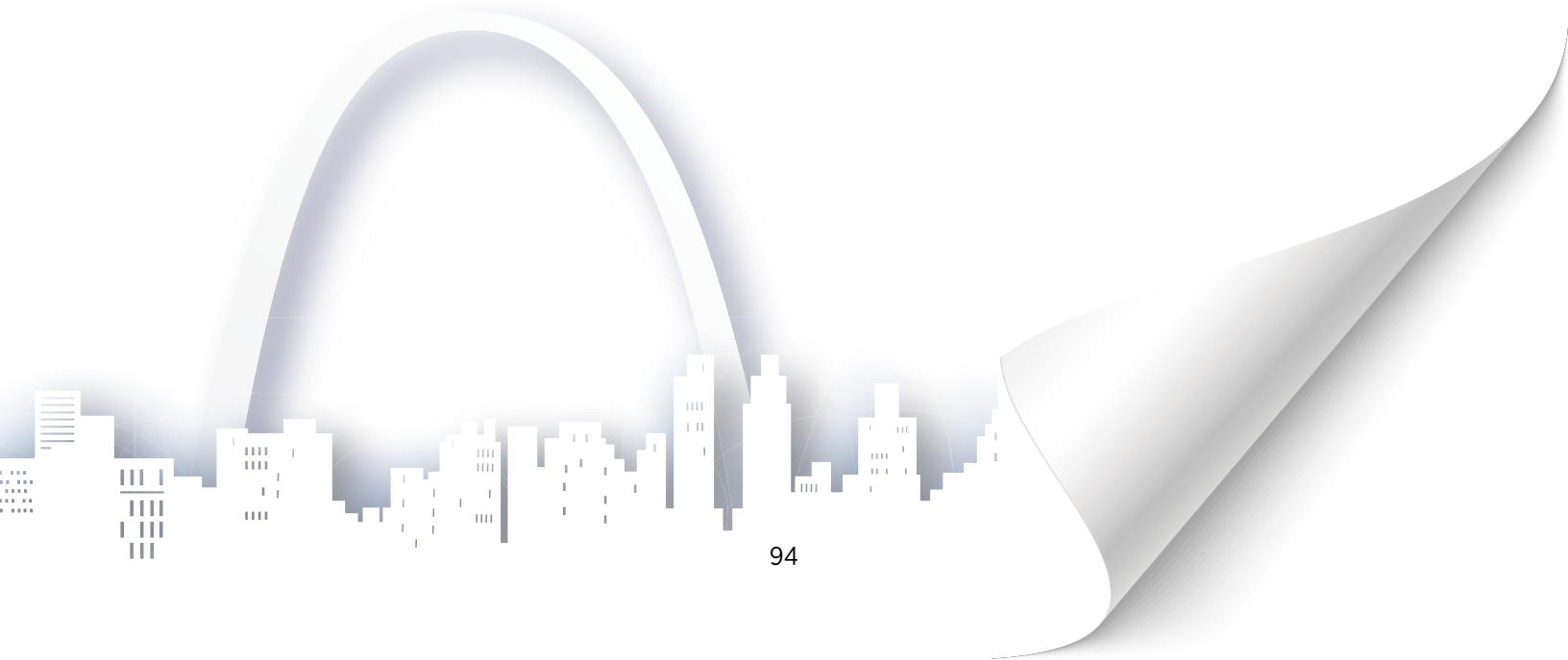


The Expense and Contingency Reserve

Effective January 1, 1996, the Board of Trustees revised Rule X, which governs the determination of the amount of the expense and contingency reserve. The expense portion of the reserve is the sum of:

1. The estimated annual operating expenses for the ensuing year;
2. An amount equal to the liability for non-insurance supplements;
3. An amount equal to the liability for insurance supplements for those participants participating in the program on January 1; and
4. The estimated amount of insurance supplements to be paid for participants expected to retire and participate in the program during the ensuing year.

The investment contingency portion of the reserve was established to help cover significant shortfalls in the actuarial rate of return. However, the entire contingency reserve was released in 2009.



Actuarial Section



Below is a history of the expense and contingency reserve:

January 1	Expense Reserve	Investment Contingency Reserve	Total Expense and Contingency Reserve
1998	\$30,891,555	\$24,100,041	\$54,991,596
1999	22,142,759	45,972,067	68,114,826
2000	27,992,032	50,003,862	77,995,894
2001	29,837,776	50,003,743	79,841,519
2002	23,527,529	50,003,743	73,531,272
2003	24,952,255	37,759,976	62,712,231
2004	26,028,780	37,759,976	63,788,756
2005	27,170,188	45,115,876	72,286,064
2006	32,534,770	45,115,876	77,650,646
2007	29,864,946	50,732,410	80,597,356
2008	31,987,370	57,234,574	89,221,944
2009	30,555,388	0	30,555,388
2010	29,903,107	0	29,903,107
2011	29,480,465	0	29,480,465
2012	29,564,563	0	29,564,563
2013	29,181,897	0	29,181,897
2014	30,439,781	0	30,439,781
2015	29,868,370	0	29,868,370
2016	29,537,454	0	29,537,454
2017	30,921,897	0	30,921,897
2018	30,751,247	0	30,751,247
2019	30,776,068	0	30,776,068
2020	30,244,590	0	30,244,590
2021	30,004,728	0	30,004,728
2022	29,625,803	0	29,625,803
2023 ⁴	12,582,184	0	12,582,184

⁴Effective January 1, 2023, expense & contingency reserve is calculated based on cost information and participant enrollment provided from the Plan including renegotiated rates under Medical Advantage. See section 3.8 for full details. For January 1, 2022, the expense & contingency reserve was calculated on the assumption that 80% of population eligible enrolls in medical, vision, and dental.

Actuarial Section



Investment Performance

There are several different methods of approximating the rates of return on investments of the trust fund. Following is a brief comparison of the actuarial assumed rate of return as compared with rates of return on market and actuarial value bases:

a. Market Value Basis

The rate of return on a market value basis is the ratio of the appreciation (or depreciation) of assets less contributions plus disbursements to the market value at the beginning of the year plus the average of the receipts and disbursements made during the year. This may be approximated as follows:

i. A = Market value of assets as of January 1, 2022	\$972,827,656
ii. B = Market value of assets as of January 1, 2023	817,867,979
iii. C = Contributions during the period	63,828,456
iv. D = Disbursements during the period	115,872,316
v. Rate of return: $\frac{B - A + D - C}{A + 0.5 * (C - D)}$	(10.87%)
vi. Actuarial assumed rate of return for 2022	7.00%
vii. Difference between actual and assumed rates of return, (v) - (vi)	(17.87%)

b. Actuarial Value Basis

The rate of return on an actuarial value basis is approximated using the same method:

i. A = Actuarial value of assets as of January 1, 2022	\$943,201,853
ii. B = Actuarial value of assets as of January 1, 2023	940,664,216
iii. C = Contributions during the period	63,828,456
iv. D = Disbursements during the period	115,872,316
v. E = Change in Expense and Contingency Reserve	19,117,426
vi. Rate of return: $\frac{B - A + D - C}{A + 0.5 * (C - D)}$	3.31%
vii. Actuarial assumed rate of return for 2021	7.00%
viii. Difference between actual and assumed rates of return, (vi) - (vii)	(3.69%)

Actuarial Section



Summary of Investment Yield Performance

January 1	Market Value of Assets (MVA)	Actuarial Value of Assets (AVA)	MVA Rate of Return	AVA Rate of Return
2017	\$850,180,422	\$901,076,683	5.31%	5.51%
2018	914,082,259	899,816,911	15.22%	6.85%
2019	819,449,893	886,156,011	-4.69%	4.50%
2020	893,295,602	888,759,194	16.10%	6.56%
2021	914,776,954	894,251,149	8.85%	7.04%
2022	972,827,656	943,201,853	12.51%	11.76%
2022	817,867,979	940,664,216	-10.87%	3.31%

Summary of Plan Provisions

Participants

All persons regularly employed by the board of education, charter schools, and members of the board of trustees are in the System.

Retirement Age

Normal: Age 65 or any age if age plus the years of credited service equals or exceeds 80 (Rule of 80).

Early: Age 60 with 5 years of service

Service Retirement Allowance

- a. 2.00% (1.25% if terminated prior to July 1, 1999 or 1.75% if hired on or after January 1, 2018) times years of credited service, subject to a maximum of 60%
- b. Times average final compensation (AFC)
- c. Subject to a maximum of 60% of AFC.
 - i. AFC is the highest average compensation for any three consecutive years of the last 10 years of service.
 - ii. Compensation is the regular wages plus what the employer pays towards the participant's health and welfare benefits.
 - iii. Minimum monthly benefit is \$10.00 for each year of credited service, up to 15 years, retirement age 65 and over.
 - iv. Unused sick leave is added to a participant's credited service and age.

Actuarial Section



Early Retirement Benefit

Service retirement allowance reduced five-ninths of one percent for each month of commencement prior to age 65 or the age at which the Rule of 80 (Rule of 85 if terminated prior to August 28, 2017) would have been satisfied had the member continued working until that age, if earlier.

Disability Benefit

Service retirement allowance using actual service, or 25% of AFC if larger, provided that in no case will the benefit exceed that payable if service had continued to age 65.

- a. Disability must be incurred while a member as determined by the medical board and approved by the board of trustees.
- b. The participant must have a minimum of five years of credited service and not be eligible for normal retirement.

Continued disability is subject to routine verification.

Withdrawal Benefit

Accumulated contributions of participant with interest credited to the participant's account.

Vested Benefit

Full vesting on termination of employment after at least five years of service is provided if contributions are left with the System. The full accrued benefit is payable at age 65 or a reduced early retirement benefit prior to age 65.

Retirement Options

In lieu of the benefit paid only over the lifetime of the participant, a reduced benefit payable for life of participant with:

- Option 1 Same retirement allowance continued after death to the beneficiary.
- Option 2 One-half of the retirement allowance continued after death to the beneficiary.
- Option 3 Same retirement allowance continued after death to the beneficiary. If the beneficiary predeceases the participant, the retirement allowance is adjusted back to the unreduced allowance.
- Option 4 One-half of retirement allowance continued after death to the beneficiary. If the beneficiary predeceases the participant, the retirement allowance is adjusted back to the unreduced allowance.
- Option 5 Increased retirement allowance is provided up to age 62, such that benefit provided prior to age 62 is approximately equal to the sum of the reduced retirement allowance paid after age 62 and Social Security.
- Option 6 Options 1 and 5 combined.
- Option 7 Options 2 and 5 combined.

Actuarial Section



Survivor Benefits

If an active participant dies after completing 18 months of service, leaving a surviving spouse or other dependent beneficiaries, survivor benefits are payable. The widow or dependent beneficiary may elect to receive either a refund of accumulated contributions, or:

- a. A survivor who is the widow at least age 62 and married to a participant for at least one year receives \$60 per month.
- b. A widow with dependent, unmarried children under age 22 receives \$60 per month plus \$60 per dependent child, not to exceed \$180 per month. The benefit ceases when youngest child is age 22 and resumes again under (a) at age 62.
- c. If no benefits are payable under (a) or (b), minor children may receive a benefit of \$60 per child or \$180 divided among them if more than three children.
- d. If no benefits are payable under (a), (b) or (c), a dependent parent or parents may receive or share \$60 per month upon attaining age 62.

If an active participant dies after completing 5 years of service, the widow or dependent beneficiary may elect to receive either a refund of accumulated contributions or:

- a. If the survivor is the widow, a survivor benefit calculated as if the participant had been age 60 at death and elected Option 1, plus \$60 per dependent child not to exceed \$180 per month.
- b. If there is no widow, a survivor benefit calculated as if the participant had been age 60 at death and elected Option 1.

Actuarial Section



Member Census Information

As of January 1	2023	2022
Active Members		
Number	4,940	4,594
Average Age	43.5	43.8
Average Service	7.7	8.1
Average Covered Payroll	\$57,885	\$56,474
Vested Terminated Members		
Number	1,002	940
Average Account Balance	\$36,987	\$35,941
Non-vested Terminated Members		
Number	3,566	3,316
Average Account Balance	\$5,030	\$4,750
Retired Benefit Recipients		
Number	3,846	3,879
Average Age	75.5	76.2
Average Monthly Benefit	\$2,128	\$2,120
Beneficiary Benefit Recipients		
Number	260	265
Average Age	79.4	80.6
Average Monthly Benefit	\$1,058	\$1,041
Disabled Benefit Recipients		
Number	204	219
Average Age	69.6	70.1
Average Monthly Benefit	\$1,282	\$1,276

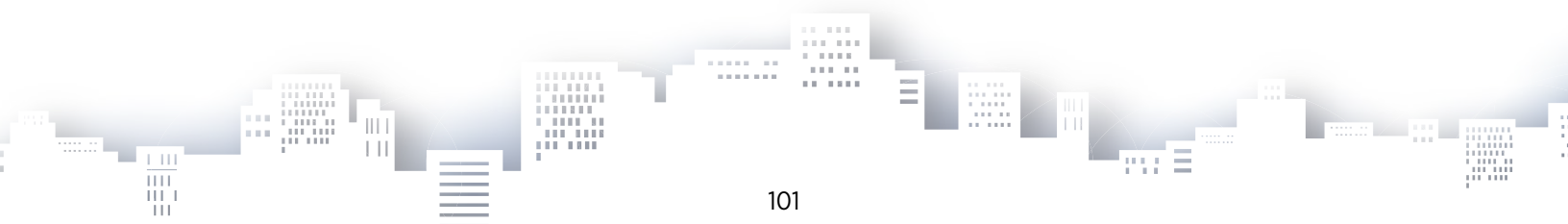
Actuarial Section



Schedule of Funding Progress

Plan Year	Actuarial Value of Assets (AVA) (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b - a)	Funded Ratio (a / b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b - a) / c)
1/1/2017	901,076,683	1,258,219,995	357,143,312	71.6%	260,223,066	137.2%
1/1/2018	899,816,911	1,266,012,715	366,195,804	71.1%	265,773,659	137.8%
1/1/2019	886,156,011	1,268,885,279	382,729,268	69.8%	263,772,380	145.1%
1/1/2020	888,759,194	1,274,573,564	385,814,370	69.7%	272,973,377	141.3%
1/1/2021	894,251,149	1,257,782,934	363,531,785	71.1%	264,676,845	137.3%
1/1/2022	943,201,853	1,279,847,074	336,645,221	73.7%	259,440,417	129.8%
1/1/2023	940,664,216	1,284,040,175	343,375,959	73.73%	285,949,641	120.1%

Ten years of data is not available due to the recent change to Entry Age Normal Method. Additional years of data will be added as they become available.



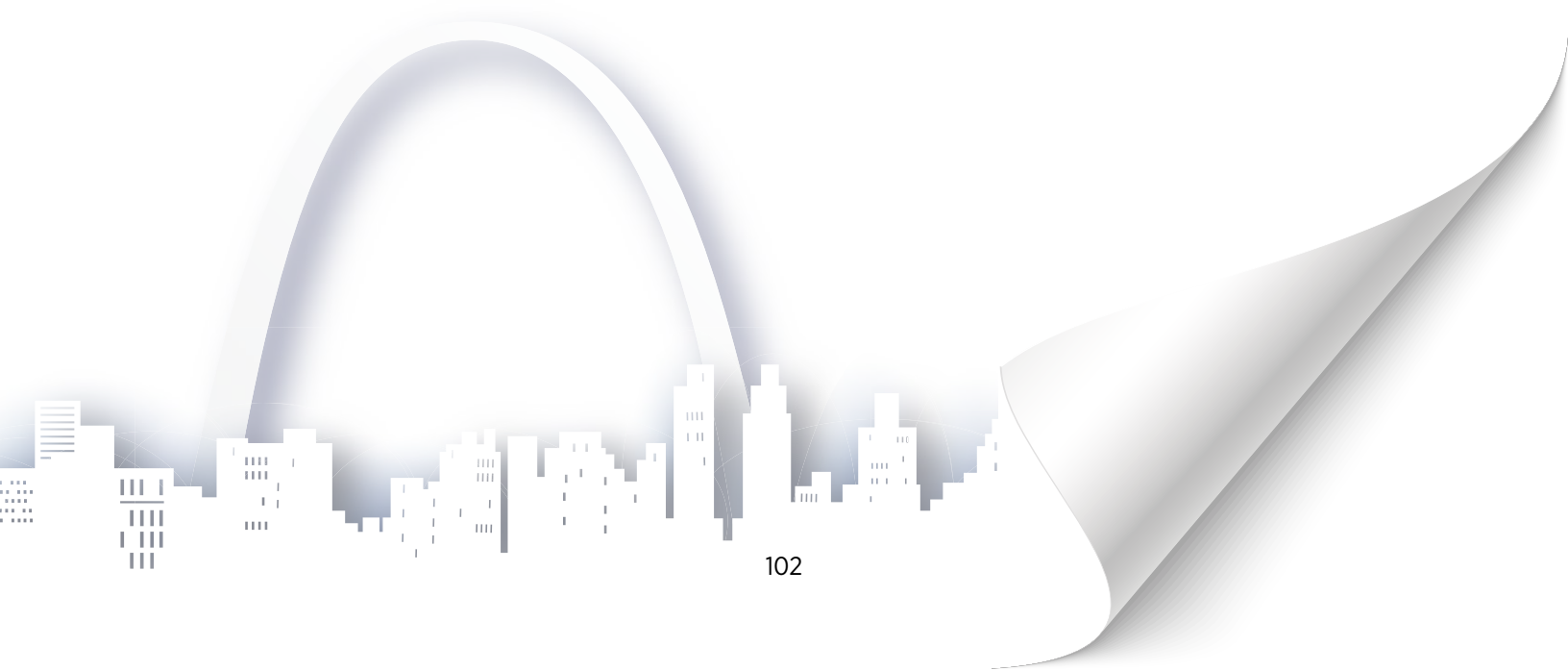
Actuarial Section



Distributions of Active Members

Schedule of Active Member Valuation Data (Last Ten Years)

Plan Year	Number of Active Members	Number of Employers	Annual Payroll	Average Annual Pay	% Increase in Average Pay
2013	4,786	20	225,894,414	47,199	-3.79%
2014	4,880	21	243,277,760	49,852	5.62%
2015	5,011	20	245,699,352	49,032	-1.64%
2016	5,034	21	252,127,288	50,085	2.15%
2017	5,101	19	260,223,066	51,014	1.85%
2018	5,138	20	265,773,659	51,727	1.40%
2019	5,050	20	263,772,380	52,232	0.98%
2020	5,108	22	272,973,377	53,440	2.3%
2021	4,984	22	264,676,845	53,105	-.6%
2022	4,594	19	259,440,417	56,474	6.34%
2023	4,940	19	285,949,641	57,885	2.50%



Actuarial Section



Schedule of Retirees and Beneficiaries Added/Removed From Rolls

Plan Year	Added to Payroll		Removed from Payroll		Payroll Year-End		% Increase in Annual Allowances	Average Annual Allowance
	No.	Annual Allowances	No.	Annual Allowances	No.	Annual Allowances		
2009	N/A		N/A		N/A		N/A	N/A
2010	N/A		N/A		4,370		N/A	N/A
2011	373		156		4,587	\$98,927,501	N/A	\$21,567
2012	135	\$2,606,505	182	\$2,793,752	4,540	\$98,768,933	-0.16%	\$21,755
2013	164	\$3,544,756	188	\$2,699,920	4,516	\$99,629,314	0.87%	\$22,061
2014	313	\$7,711,256	140	\$2,288,004	4,689	\$105,061,832	5.45%	\$22,406
2015	163	\$3,774,578	228	\$3,783,237	4,624	\$105,066,268	0.00%	\$22,722
2016	151	\$3,279,162	188	\$3,058,449	4,587	\$105,295,884	0.22%	\$22,955
2017	145	\$3,114,108	171	\$2,978,925	4,561	\$105,434,220	0.13%	\$23,116
2018	158	\$4,044,180	193	\$3,526,969	4,526	\$105,976,561	0.51%	\$23,415
2019	162	\$3,400,180	188	\$3,450,225	4,500	\$105,995,116	0.02%	\$23,554
2020	161	\$3,739,591	184	\$2,728,795	4,477	\$106,259,608	0.25%	\$23,735
2021	143	\$3,675,006	234	\$4,350,523	4,386	\$105,502,094	-0.71%	\$24,054
2022	168	\$3,679,768	191	\$3,788,412	4,363	\$105,333,657	-0.16%	\$24,142
2023	148	\$3,234,579	201	\$3,934,795	4,310	\$104,664,363	-0.64%	\$24,284

Summary of Methods and Assumptions

The following assumptions and methods were selected by the Board and used in this analysis. The plan's actuaries perform an experience study every 5 years and discuss anticipated future trends with the Public School Retirement System of the City of St. Louis, Missouri to ensure appropriate and reasonable assumptions and methods for the purpose of the measurement. The last experience study was completed in December 2021.

Interest

7.00% per annum, which includes a 2.50% allowance for inflation; 7.00% is net of investment expenses.

Actuarial Section



Participant Account Interest Crediting Rate

2.0% per annum.

Expenses

The rate of investment return assumed is net of investment expenses. Expected administrative expenses based on actual administrative expenses in the prior year. Administrative expenses are paid out of the expenses and contingency reserve determined in Section 2.2.

Mortality – Healthy Lives

PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP-2021. The mortality assumption for retired participants receiving benefits is increased by 2% for males and 10% for females.

Beneficiary Mortality

PubG-2010 (Below Median) Mortality Table, amount weighted, projected fully generationally using projection scale MP-2021.

Disability Mortality

PubT/G-2010 Mortality Disability Table, amount weighted, projected fully generationally using projection scale MP-2021.

Withdrawal

Withdrawals are assumed to occur at rates based on actual experience of the retirement system. During the first five years of membership, withdrawals are assumed to occur at the following rates:

Year of Membership	Non-charter School Members	Charter School Members
1st	22.5%	35.0%
2nd	22.5%	30.0%
3rd	20.0%	25.0%
4th	20.0%	20.0%
5th	15.0%	20.0%

The rates used after the first five years of membership are shown in Table 1.

Salary Scale

Salaries are assumed to increase at the rate of 5.0% per year for the first 5 years of employment and 3.50% thereafter.

Actuarial Section



Disability

Disabilities are assumed to occur at rates based on the actual experience of the retirement system. The rates used are shown in Table 3.

Retirement

Retirements occur at rates based on the actual experience of the retirement system. The age-related rates used are shown in Table 2. The rates are different for those eligible to retire under the Rule of 80 and those not eligible to retire under the Rule of 80.

Deferred Vested

The liability for deferred vested members with no benefit information provided in the member data by the System is assumed to be 125% of the member's total accumulated contributions.

Family Structure

The probability of a participant being married, and the probable number of children are based on a table constructed by the Social Security Administration, modified to reflect the experience of the retirement system. The rates used are shown in Table 4. For married participants, husbands are assumed to be 3 years older than their wives.

Gender

Members with no gender provided in the member data by the System are assumed to be female.

Usage of Cash-out Option

Participants terminating in vested status are given the option of taking a refund of their accumulated participant contributions instead of a deferred retirement benefit. Active members who terminate in the future with a vested benefit are assumed to take a deferred vested annuity, unless a refund of contributions and interest is greater than the actuarial present value of their vested deferred benefit.

Future Benefit Increases or Additional Benefits

When funding is adequate, the Board may authorize cost of living adjustments (COLAs), as noted in the summary of plan provisions. This valuation assumes that no future COLAs will be awarded.

Actuarial Valuation Method – Entry Age Normal

Entry Age Normal cost method. Under this method, the actuarial value of projected benefits for each individual participant is allocated as a level percentage of compensation over the working lifetime of the participant between the date of employment and assumed date of exit.

Actuarial Section



Amortization of Unfunded Liability

Amortization is based on a 15-year closed, level dollar amount. All future changes in the accrued liability due to amendments, experience gains and losses, and assumption changes are amortized over a 15-year closed, layered method. The initial amortization base was created for the unfunded actuarial accrued liability as of January 1, 2022.

Employer Contribution – Interest Adjustment

The total contributions include an interest adjustment of one-half year’s interest at the valuation interest rate to better reflect timing of contributions.

Valuation of Assets

The actuarial value of assets is based upon a smoothed market value method. Under this method, asset returns in excess of or less than the expected investment return on market value of assets will be reflected in the actuarial value of assets over a five-year period. The plan’s actuarial value of assets will be set equal to the plan’s market value of assets less the expense and contingency reserve as of January 1, 2022. The calculation of the Actuarial Value of Assets is based on the following formula:

$$MV - 80\% \times G/(L)_1 - 60\% \times G/(L)_2 - 40\% \times G/(L)_3 - 20\% \times G/(L)_4 - \text{Expense and Contingency Reserve}$$

MV = the market value of assets as of the valuation date

$G/(L)_i$ = the asset gain or (loss) for the i-th year preceding the valuation date

Expense and Contingency Reserve

Medical – Inactive

The medical portion of the Expense and Contingency Reserve is based on actual costs provided by the Plan as of January 1, 2023. The Plan’s monthly cost for members who are not covered under Medical Advantage is assumed to remain the same in future years. The Plan’s monthly cost for members covered under Medical Advantage are assumed to be as follows:

Year	Plan’s Monthly Cost
2023 – 2025	\$ 0
2026	\$20
2027	\$40
2028	\$60
2029+	\$80

Actuarial Section



Dental and Vision – Inactive

The dental and vision portion of the Expense and Contingency Reserve is based on actual costs provided by the Plan as of January 1, 2023. It is assumed the costs in which the Plan will cover in the form of a subsidy will remain the same in future years.

Medical, Dental, and Vision – Active

50% of active members are assumed to elect medical, dental, and vision in the future. The total premium for these three equals \$89.10 based on current plan cost for members not in Medical Advantage. The 50% assumption is based the number of current inactive members who elected medical coverage.

Changes in Methods & Assumptions from the Prior Valuation

The total contributions include an interest adjustment of one-half year's interest at the valuation interest rate to better reflect timing of contributions.

- Lowered Interest Crediting Rate from 5.0% to 2.0% per annum.
- Updated Expense and Contingency Reserve to be based on actual costs provided by the Plan.

Actuarial Section



Table 1: Withdrawal Rates – Annual Rates Per 1,000 Members

Age	Rate	Age	Rate
20	170.0	43	82.0
21	170.0	44	79.0
22	170.0	45	76.0
23	170.0	46	73.0
24	170.0	47	70.0
25	167.0	48	69.0
26	164.0	49	68.0
27	161.0	50	67.0
28	158.0	51	67.0
29	155.0	52	65.0
30	152.0	53	60.0
31	149.0	54	55.0
32	145.0	55	50.0
33	141.0	56	47.0
34	137.0	57	45.0
35	133.0	58	43.0
36	129.0	59	41.0
37	120.0	60	39.0
38	111.0	61	0.0
39	102.0	62	0.0
40	93.0	63	0.0
41	88.0	64	0.0
42	85.0		

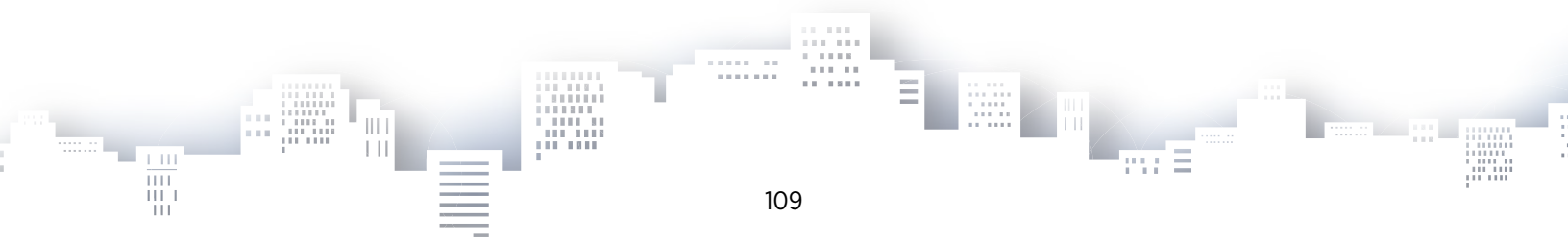


Actuarial Section



Table 2: Retirement Rates – Annual Rates Per 1,000 Members

Age	Rule of 80 Rate	Not Rule of 80 Rate
50-51	200.0	N/A
52-54	150.0	N/A
55	200.0	N/A
56-59	150.0	N/A
60	180.0	75.0
61-63	180.0	100.0
64	180.0	175.0
65	350.0	250.0
66-71	250.0	150.0
72	1,000.0	1,000.0



Actuarial Section



Table 3: Disability Rates – Annual Rates Per 1,000 Members

Rate					
Age	Males	Females	Age	Males	Females
20	0.00	0.00	43	1.30	0.90
21	0.00	0.00	44	1.40	0.95
22	0.00	0.00	45	1.50	1.00
23	0.00	0.00	46	1.60	1.10
24	0.00	0.00	47	1.70	1.20
25	0.00	0.00	48	1.80	1.30
26	0.00	0.00	49	1.90	1.40
27	0.00	0.00	50	2.00	1.50
28	0.00	0.00	51	2.30	1.70
29	0.00	0.00	52	2.50	1.90
30	0.40	0.40	53	2.80	2.10
31	0.40	0.40	54	3.00	2.50
32	0.40	0.40	55	3.30	3.00
33	0.40	0.40	56	3.50	3.50
34	0.40	0.40	57	3.80	4.00
35	0.40	0.40	58	4.00	4.00
36	0.50	0.45	59	4.50	4.00
37	0.50	0.50	60	5.00	4.00
38	0.60	0.60	61	5.50	4.00
39	0.70	0.70	62	6.00	4.00
40	0.80	0.75	63	6.00	4.00
41	1.00	0.80	64	6.00	4.00
42	1.10	0.85	65	6.00	4.00



Definition of Actuarial Terms

Accrued Benefit

The benefit earned by a participant as of the date at which the determination is made payable in the form of an annual benefit commencing at normal retirement age. The accrued benefit is payable for the member's lifetime only, however if the total monthly payments at the member's death are less than contributions accumulated with interest, the remaining member contribution balance will be paid to the member's beneficiary.

Accumulated Plan Benefits

The accrued benefits and any other benefits, whether vested or not, that have been earned by the participants covered by the plan as of the date at which the determination is made. These other benefits include any death, early retirement or disability benefits provided under the plan.

Actuarial Accrued Liability

Equal to the actuarial present value of future benefits less the present value of future annual normal costs.

Actuarial Cost Method

The method for allocating the actuarial present value of a pension plan's benefits and expenses to various time periods. An actuarial cost method is also referred to as a funding method.

Actuarial Gain/(Loss)

The difference between the plan's actual experience and that expected based upon a set of actuarial assumptions. A gain occurs when the experience of the plan is more favorable (in terms of cost) than the assumptions projected; a loss occurs when experience is less favorable. May also be referred to as experience gains/(losses).

Actuarial Present Value

See present value.

Actuarial Valuation

The determination, as of a valuation date, of the annual normal cost, actuarial accrued liability, actuarial value of assets and related actuarial present values for a pension plan.

Actuarial Section



Actuarial Value of Assets

The value of cash, investments and other property belonging to a pension plan determined by the actuary for the purpose of an actuarial valuation. Actuarial asset methods are generally designed to reduce fluctuations in asset value due to large variations in returns from year to year. Actuarial values are generally a smoothed market value that recognize gains and losses over time.

Amortization

The spreading of a present value or a cost over a period of years. A plan's unfunded actuarial accrued liability is amortized over a period of years.

Fiscal Year

The year on which the plan sponsor maintains its financial records.

Funded

Provided by plan assets. A liability is fully funded when assets exceed or equal the liability.

Normal Cost

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

Normal Retirement Age

An age defined in the plan for purposes of establishing when a terminated participant is entitled to an accrued benefit.

Normal Retirement Benefit

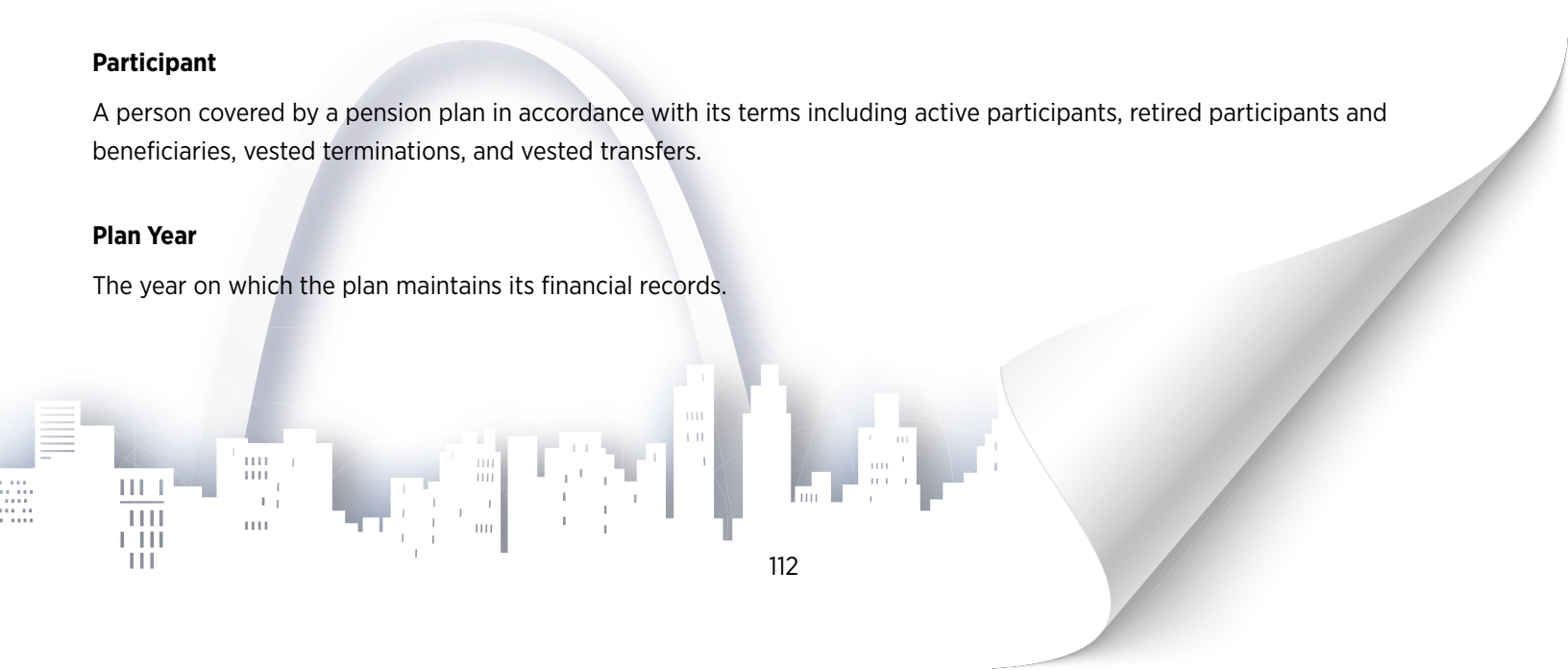
The benefit payable when it commences at the normal retirement age.

Participant

A person covered by a pension plan in accordance with its terms including active participants, retired participants and beneficiaries, vested terminations, and vested transfers.

Plan Year

The year on which the plan maintains its financial records.



Actuarial Section



Present Value

The value of an amount or series of amounts payable at various times, determined as of a given date by the application based on a particular set of actuarial assumptions. It is a single sum which reflects the time value of money and the probabilities of payment.

Rate of Return

The actual or expected investment income as a percentage of a plan's average assets.

System

Public School Retirement System of the City of St. Louis, Missouri.

Unfunded Actuarial Accrued Liability

The excess of the actuarial accrued liability over the actuarial value of assets.

Vested Benefit

A benefit that is not forfeited if the participant terminates employment.



Statistical Section

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- 116 Schedule of Changes in Fiduciary Net Position
- 117 Retired Members and Beneficiaries by Payment Option & Type
- 117 Amount of Annual Benefits by Payment Option & Type
- 118 Average Annual Benefit Payments by Payment Option & Type
- 118 Average Monthly Benefits Payments by Payment Option & Type
- 119 Schedule of Average Benefit Payments
- 120 Schedule of Covered Members

Charts and Graphs

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prudently administered in an effective and efficient manner.



Statistical Section



Summary

The statistical section contains information about the System not found elsewhere in the Annual Report that is broken down into several different parts.

The first part, found on Page 116, is a Schedule of Changes in Fiduciary Net Position for the last 10 fiscal years that provides detail on the additions and deductions from the plan's assets and concludes with the annual change to the fiduciary net position for each year.

The second part, found on Pages 117-120, contains membership schedules and a graph that detail information about the plan's retired, active and inactive members. The information found on these pages includes census data for retirees by payment option and type of retirement, average benefit payments for new retirees for the last five fiscal years, covered members for the last ten fiscal years and a summary of membership changes in fiscal year 2023.

There are several historical charts and graphs on Pages 121-123 that provide information on the progress of the plan's market value of assets, employer and employee contributions, and investment income.

The last page in the statistical section provides a summary of the plan's legislative history that began on January 1, 1944, when the Missouri General Assembly created the retirement system.

Statistical Section



Schedule of Changes in Fiduciary Net Position Last 10 Fiscal Years Ended December 31,

Fiscal Year	2014	2015	2016	2017	2018
Additions by Source	(as restated)				
Employer Contributions	\$ 41,757,458	\$40,708,503	\$39,519,979	\$ 41,077,344	\$ 48,797,779
Employee Contributions	11,887,933	11,664,711	12,652,029	12,591,552	14,248,567
Investment Income (loss)	34,857,035	(5,488,658)	44,341,661	124,643,375	(41,828,299)
Other Income	143,754	146,007	150,427	153,544	157,219
Total Additions (depreciation)	\$88,646,180	\$47,030,563	\$96,664,096	\$178,465,815	\$ 21,375,266
Deductions by Type					
Retirement Benefits	\$ 99,874,101	\$99,634,429	\$ 99,419,975	\$ 99,499,140	\$ 99,641,973
Survivor Benefits	2,784,937	2,877,844	2,973,225	3,056,046	3,082,696
Disability Benefits	3,524,388	3,510,745	3,479,852	3,512,352	3,616,435
Health Care Subsidies	2,726,158	2,600,225	2,515,000	2,442,339	2,381,857
Operating Expenses	1,441,183	1,466,261	1,554,314	1,613,506	1,441,183
Contribution Refunds	4,203,229	4,761,086	5,220,357	4,440,594	3,690,639
Total Deductions by Type	\$ 114,850,590	\$114,850,590	\$ 115,162,723	\$114,563,977	\$ 111,915,281
Change in Fiduciary Net Position	\$(25,786,866)	\$ 63,901,838	\$(18,498,627)	\$ 63,901,838	\$ 66,175,191

Fiscal Year	2019	2020	2021	2022	2023
Additions by Source					
Employer Contributions	\$ 43,902,706	\$41,822,334	\$ 41,226,981	\$ 41,034,190	\$ 37,930,116
Employee Contributions	17,019,685	17,607,279	20,880,189	22,794,266	24,617,494
Investment Income (loss)	127,469,970	76,730,861	110,983,648	(103,834,311)	84,324,668
Other Income	161,263	164,877	170,397	173,594	179,383
Total Additions (depreciation)	\$188,553,624	\$136,325,351	\$173,261,215	\$173,261,215	\$147,051,661
Deductions by Type					
Retirement Benefits	\$99,624,865	\$ 99,692,129	\$ 99,362,102	\$ 98,918,142	\$ 98,131,494
Survivor Benefits	3,043,126	3,007,912	2,987,195	2,975,242	2,922,340
Disability Benefits	3,575,042	3,412,356	3,347,554	3,196,493	3,002,947
Health Care Subsidies	2,249,449	2,129,938	2,093,653	2,005,848	675,513
Operating Expenses	1,862,658	1,906,813	1,523,071	1,319,797	1,665,012
Contribution Refunds	4,608,688	4,438,938	5,896,938	7,456,794	7,389,745
Total Deductions by Type	\$114,963,828	\$114,588,086	\$ 115,210,513	\$ 115,872,316	\$ 113,787,051
Change in Fiduciary Net Position	\$ 73,589,796	\$ 21,737,265	\$58,050,702	\$(154,959,677)	\$33,264,610

Statistical Section



Retired Members and Beneficiaries by Payment Option & Type on January 1, 2023

Option	Service Benefit	Disability Benefit	Survivor Benefit	Total
0	3,249	161	260	3,670
1	129	13	-	142
2	76	5	-	81
3	189	15	-	204
4	164	5	-	169
5	23	1	-	24
6	13	4	-	17
7	3	-	-	3
Total	3,846	204	260	4,310

Amount of Annual Benefits by Payment Option & Type on January 1, 2023

Option	Service Benefit	Disability Benefit	Survivor Benefit	Total
0	\$84,584,897	\$2,466,117	\$3,300,460	\$ 90,351,474
1	2,339,676	170,481	-	2,510,157
2	1,944,633	117,333	-	2,061,966
3	4,076,844	231,707	-	4,308,551
4	4,408,6860	109,652	-	4,518,3512
5	547,922	9,911	-	557,833
6	249,439	34,3074	-	283,513
7	72,357	-	-	72,357
Total	\$98,224,628	\$3,139,4275	\$3,300,460	\$104,664,363

Option 1: Same retirement allowance continued after death to the beneficiary.

Option 2: One-half of the retirement allowance continued after death to the beneficiary.

Option 3: Same retirement allowance continued after death to the beneficiary. If the beneficiary predeceases the participant, the retirement allowance is adjusted back to the unreduced allowance.

Option 4: One-half of retirement allowance continued after death to the beneficiary. If the beneficiary predeceases the participant, the retirement allowance is adjusted back to the unreduced allowance.

Option 5: Increased retirement allowance is provided up to age 62, such that benefit provided prior to age 62 is approximately equal to the sum of the reduced retirement allowance paid after age 62 and Social Security.

Option 6: Options 1 and 5 combined.

Option 7: Options 2 and 5 combined.

Statistical Section



Average Annual Benefit Payments By Payment Option & Type on January 1, 2023

Option	Service Benefit	Disability Benefit	Survivor Benefit	All
0	\$26,034	\$15,317	\$12,694	\$24,619
1	18,137	13,114	-	17,677
2	25,587	23,465	-	25,456
3	21,571	15,447	-	21,120
4	26,883	21,390	-	26,737
5	23,823	9,911	-	23,243
6	19,188	8,519	-	16,677
7	24,119	-	-	24,119
All	\$25,539	\$15,389	\$12,694	\$24,284

Average Monthly Benefit Payments by Payment Option & Type on January 1, 2023

Option	Service Benefit	Disability Benefit	Survivor Benefit	Total
0	\$2,170	\$1,276	\$1,058	\$2,052
1	1,511	1,093	-	1,473
2	2,132	1,955	-	2,121
3	1,798	1,287	-	1,760
4	2,240	1,828	-	2,228
5	1,985	826	-	1,937
6	1,599	710	-	1,390
7	2,010	-	-	2,010
Total	\$2,128	\$1,282	\$1,058	\$2,024

Option 1: Same retirement allowance continued after death to the beneficiary.

Option 2: One-half of the retirement allowance continued after death to the beneficiary.

Option 3: Same retirement allowance continued after death to the beneficiary. If the beneficiary predeceases the participant, the retirement allowance is adjusted back to the unreduced allowance.

Option 4: One-half of retirement allowance continued after death to the beneficiary. If the beneficiary predeceases the participant, the retirement allowance is adjusted back to the unreduced allowance.

Option 5: Increased retirement allowance is provided up to age 62, such that benefit provided prior to age 62 is approximately equal to the sum of the reduced retirement allowance paid after age 62 and Social Security.

Option 6: Options 1 and 5 combined.

Option 7: Options 2 and 5 combined.

Statistical Section



Schedule of Average Benefit Payments Last Five Fiscal Years Ended December 31st

Retirement Year(s)	0 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31+
2019							
Average Monthly Benefit	\$474	\$646	\$1,095	\$1,505	\$2,418	\$2,872	\$4,002
Average Monthly Salary	\$4,790	\$4,204	\$4,412	\$4,167	\$5,333	\$5,156	\$6,696
Number of Retirees	10	31	20	26	19	26	23
2020							
Average Monthly Benefit	\$424	\$583	\$1,344	\$1,838	\$2,297	\$3,020	\$3,455
Average Monthly Salary	\$5,196	\$3,742	\$4,906	\$4,752	\$4,818	\$5,662	\$5,945
Number of Retirees	13	20	25	34	20	20	31
2021							
Average Monthly Benefit	\$717	\$744	\$978	\$1,887	\$2,329	\$2,853	\$3,652
Average Monthly Salary	\$5,945	\$4,646	\$4,721	\$5,032	\$5,258	\$5,543	\$6,404
Number of Retirees	11	28	20	25	25	17	22
2022							
Average Monthly Benefit	\$475	\$662	\$1,295	\$2,217	\$2,595	\$3,073	\$3,617
Average Monthly Salary	\$5,095	\$4,318	\$4,905	\$6,244	\$5,900	\$6,074	\$6,192
Number of Retirees	113	34	18	16	26	17	12
2023							
Average Monthly Benefit	\$261	\$723	\$1,599	\$1,754	\$2,417	\$3,655	\$3,347
Average Monthly Salary	\$4,029	\$5,009	\$6,223	\$5,142	\$5,594	\$6,979	\$6,125
Number of Retirees	5	25	21	14	15	15	9
2019 - 2023							
Average Monthly Benefit	\$486	\$672	\$1,262	\$1,840	\$2,411	\$3,095	\$3,615
Average Monthly Salary	\$5,011	\$4,383	\$5,033	\$5,067	\$5,381	\$5,883	\$6,272
Number of Retirees	52	138	104	115	105	95	97

Note: The calculations for the 2019 - 2023 monthly averages are weighted using the sum of an average for each year x number of retirees each year ÷ by the 2019 - 2023 number of retirees.

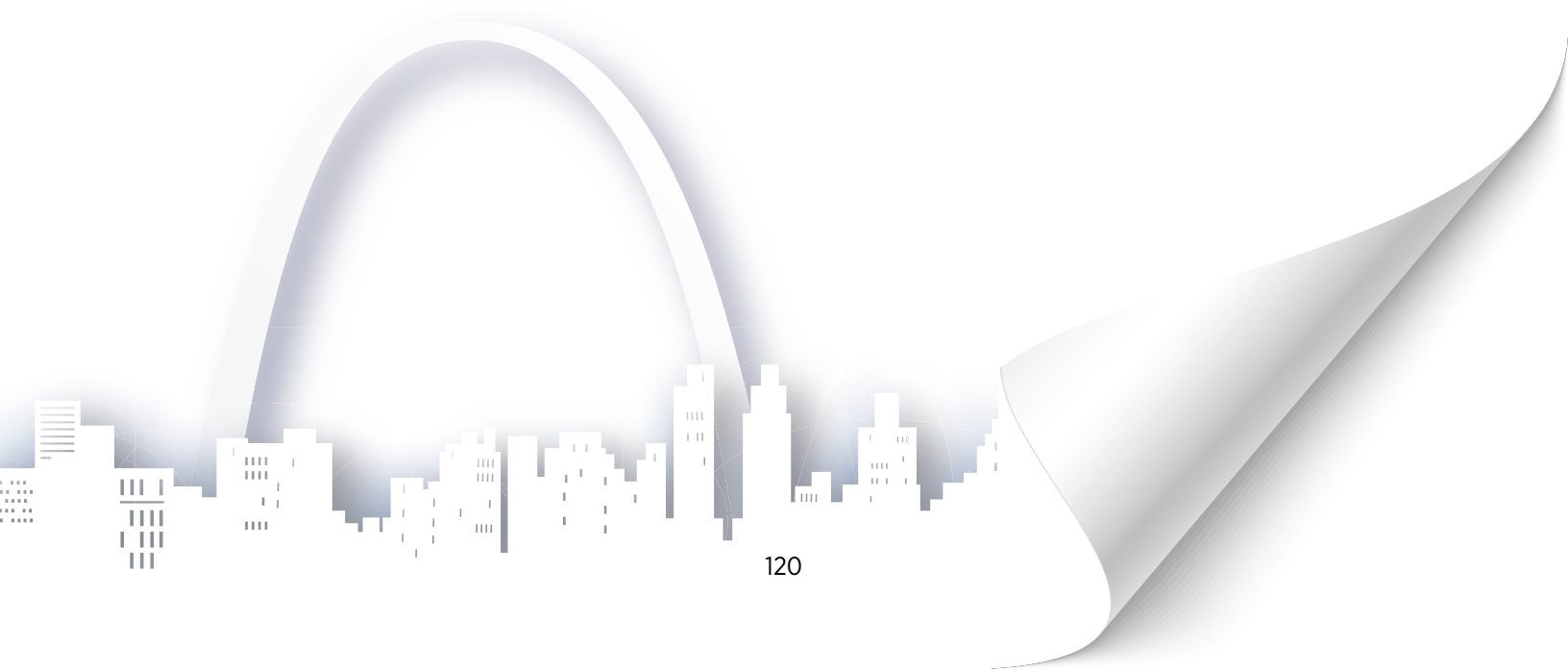
Statistical Section



Schedule of Covered Members Last 10 Fiscal Years Ended December 31,

Member Type	2023		2022		2021		2020		2019	
	Covered Members	Percentage of Total	Covered Members	Percentage of Total	Covered Members	Percentage of Total	Covered Members	Percentage of Total	Covered Members	Percentage of Total
Active	4,940	34.8%	4,594	34.8%	4,984	38.5%	5,108	39.7%	5,050	40.6%
Inactive	4,568	32.2%	4,256	32.2%	3,560	27.5%	3,274	25.5%	2,886	23.2%
Retired (includes Beneficiaries)	<u>4,310</u>	<u>33.0%</u>	<u>4,363</u>	<u>33.0%</u>	<u>4,386</u>	<u>34.0%</u>	<u>4,477</u>	<u>34.8%</u>	<u>4,500</u>	<u>36.2%</u>
Total	13,818	100%	13,213	100%	12,930	100%	12,859	100%	12,436	100%

Member Type	2018		2017		2016		2015		2014	
	Covered Members	Percentage of Total	Covered Members	Percentage of Total	Covered Members	Percentage of Total	Covered Members	Percentage of Total	Covered Members	Percentage of Total
Active	5,138	41.3%	5,101	41.8%	5,034	42.3%	5,011	43.0%	4,880	42.9%
Inactive	2,791	22.4%	2,554	20.9%	2,271	19.1%	2,012	17.3%	1,798	15.8%
Retired (includes Beneficiaries)	<u>4,526</u>	<u>36.3%</u>	<u>4,561</u>	<u>37.3%</u>	<u>4,587</u>	<u>38.6%</u>	<u>4,624</u>	<u>39.7%</u>	<u>4,689</u>	<u>41.3%</u>
Total	12,455	100%	12,216	100%	11,892	100%	11,647	100%	11,367	100%



Statistical Section



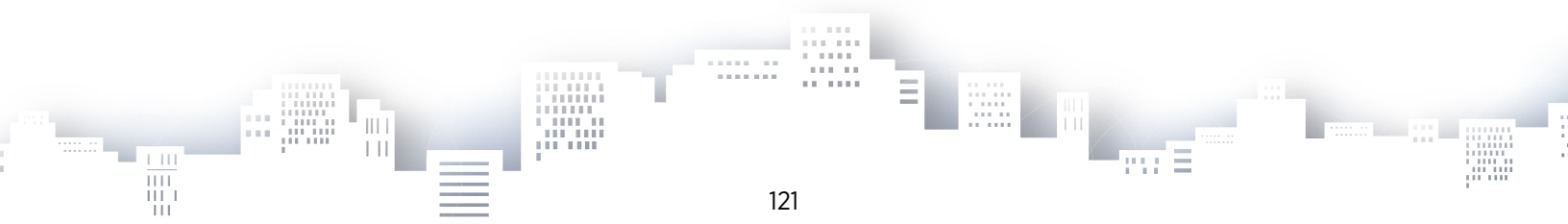
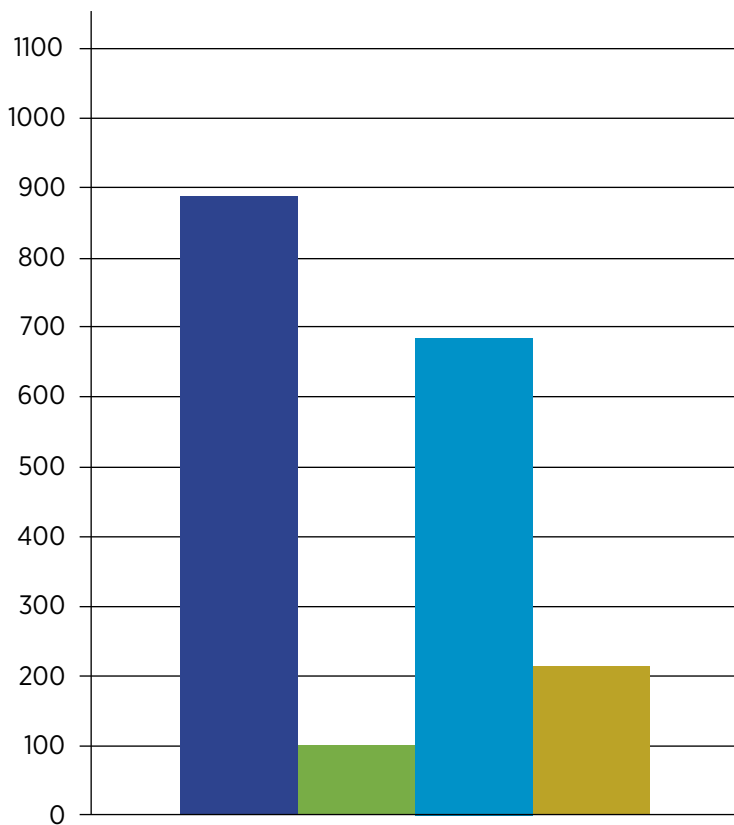
The Year in Review

During the fiscal year ended December 31, 2023, PSRSSTL added 889 new active members and 104 new retired members to payroll. The retirement system processed 682 refund distributions for members who left the System and bid farewell to 213 members due to death.

Fiscal Year 2023

Membership Changes

- New Active Members
- New Retired Members
- Refund Distributions
- Deceased Members



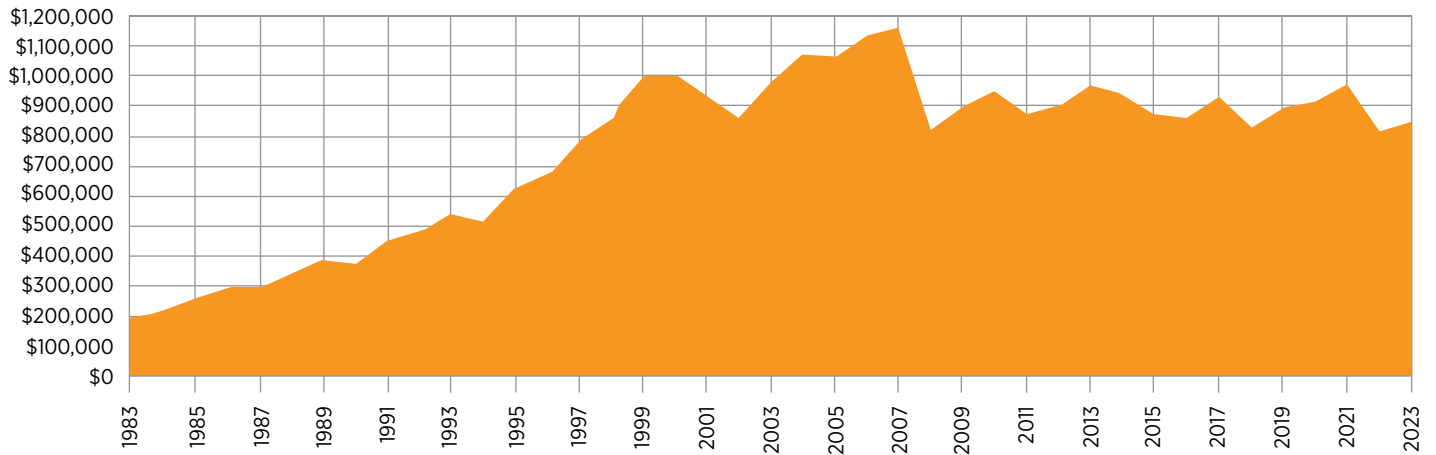
Statistical Section



These charts and graphs show changes in market value of assets, contributions, and investment earnings for fiscal years ended December 31, 1984 through December 31, 2023.

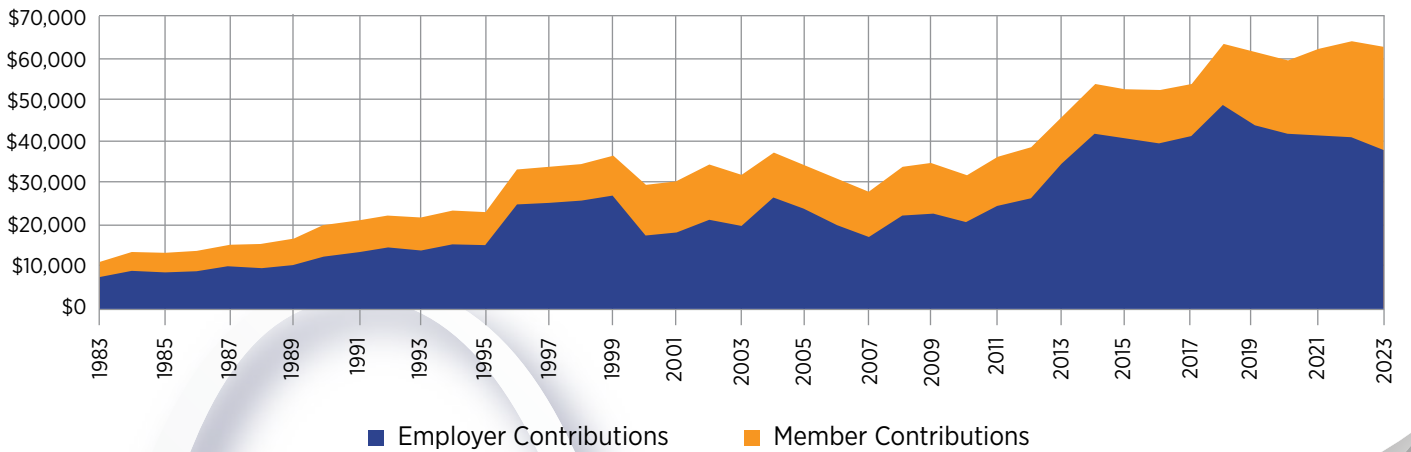
Market Value of Assets

(add 000's)



Employer & Employee Contributions

(add 000's)

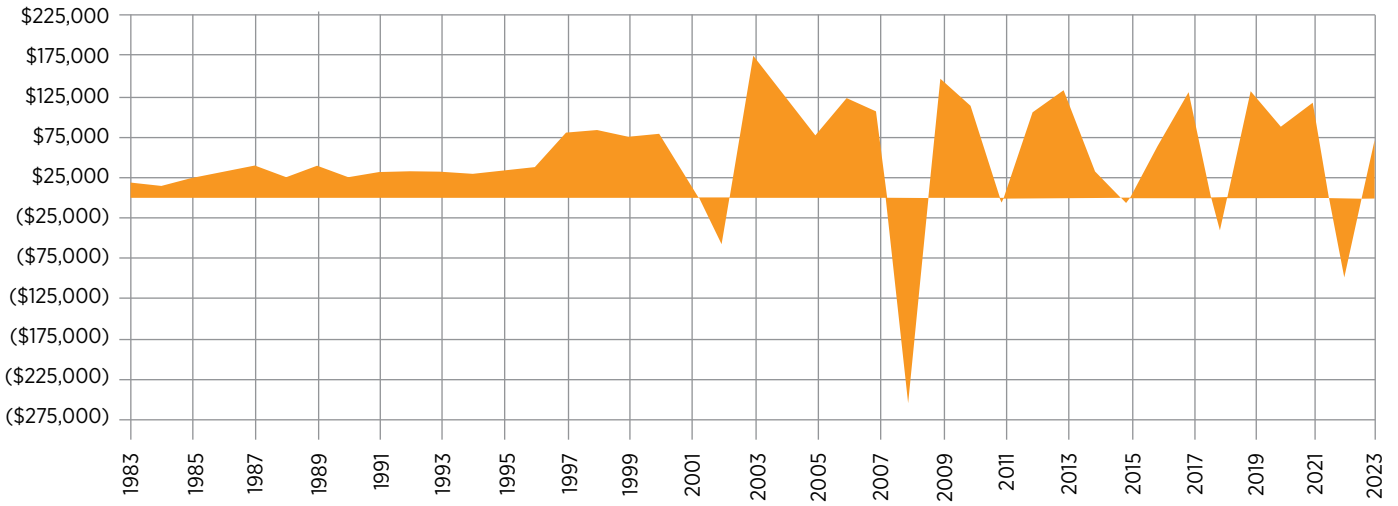


■ Employer Contributions
 ■ Member Contributions

Statistical Section



Investment Income (Loss)



Statistical Section



Participating Employers

	Covered Employees	% of Total	Covered Employees	% of Total
	2023		2022	
St. Louis Public Schools	3,130	63%	2,903	63%
All Others	<u>1,810</u>	<u>37%</u>	<u>1,691</u>	<u>37%</u>
Total – 19 Employers	4,940	100%	4,594	100%
	2021		2020	
St. Louis Public Schools	3,503	70%	3,614	71%
All Others	<u>1,481</u>	<u>30%</u>	<u>1,494</u>	<u>29%</u>
Total – 18 Employers	4,984	100%	5,108	100%
	2019		2018	
St. Louis Public Schools	3,679	73%	3,733	73%
All Others	<u>1,371</u>	<u>27%</u>	<u>1,405</u>	<u>27%</u>
Total – 20 Employers	5,050	100%	5,138	100%
	2017		2016	
St. Louis Public Schools	3,808	75%	3,800	75%
All Others	<u>1,293</u>	<u>25%</u>	<u>1,234</u>	<u>25%</u>
Total – 20 Employers	5,101	100%	5,034	100%
	2015		2014	
St. Louis Public Schools	3,826	76%	3,806	78%
All Others	<u>1,185</u>	<u>24%</u>	<u>1,074</u>	<u>22%</u>
Total – 20 Employers	5,011	100%	4,880	100%



Statistical Section



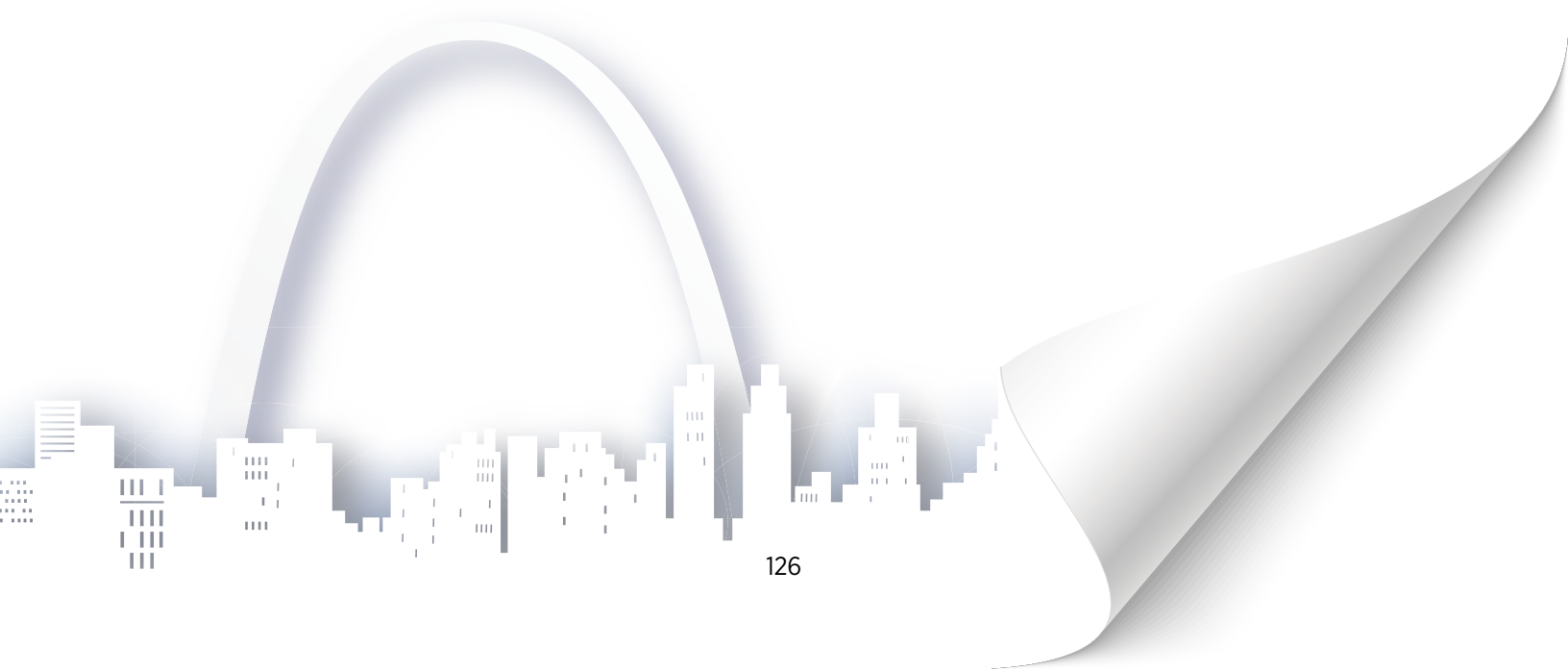
Public School Retirement System of the City of St. Louis

- 1944 Creation of the retirement system by the Missouri General Assembly
- 1961 Plan provisions revised, active members able to choose the “old plan” or “new plan”
- 1969 Credited Service allowed for time lost from 1944 - 1947
- 1972 Credited Service options added, survivor, disability and minimum benefits added, another chance for “old plan” members to upgrade to the “new plan”
- 1975 First increase in benefits granted to certain retired teacher
- 1978 Service limits removed, survivor benefits revised, employee contributions set at 3%, Trustees granted rule-making authority, 1st back-to-work provision for some retirees
- 1979 Plan provisions revised to allow sick leave balances to be added to credited service and age requirements for retirement, early retirement and survivor benefits revised
- 1981 Plan provisions upgraded, insurance benefits improved, actuarial cost method changed, broadening of investment authority for the Board of Trustees
- 1984 Survivor and disability benefits upgraded, 2nd back-to-work provision for some retirees
- 1985 First supplemental early retirement benefit added for certain retirees
- 1987 Another chance for “old plan” members to join “new plan,” increase in minimum pension benefit, administrative changes made
- 1988 Survivor and supplemental benefits enhanced
- 1989 Certain plan provision improvements
- 1990 Supplemental benefits extended for some retirees
- 1993 Supplemental benefits enhanced for some retirees
- 1996 Service purchases allowed for some lay-off periods, investment trustee replaced with school administrator trustee, COLA provisions added
- 1997 COLA provision added for certain retirees
- 1998 Employee contribution rate set at 4.5%, pension factor set at 2%, catch-up COLA for some retirees, employer contribution rate set at 8.3% for three years
- 1999 Employee contribution rate set at 5%

Statistical Section



- 2001 COLA provisions added for some retirees, DROP added until 2005, employer contribution rate set at 8%, employer contribution rate to be actuarial determined beginning in 2002 and future years
- 2002 Credited service rules revised, pre-tax transfers allowed between certain retirement plans, Charter School provisions added and clarified, new social security leveling pension benefit options, actuarial provisions revised for more Board of Trustees flexibility, amortization limit set at 30 years
- 2007 Some administrative changes, granted the Board of Trustees authority to increase pension within strict guidelines, Board of Trustees educational requirements expanded, actuarial cost reporting revised for all Missouri retirement plans
- 2009 State reporting requirements revised for all Missouri retirement plans
- 2014 General provisions revised for all Missouri retirement plans
- 2017 Plan provisions changed, effective January 1, 2018, new active members required to contribute 9%, current active members to contribute 9% after a series of annual increases of 0.5% reaches ceiling, beginning with 16% employers to contribute 9% after a series of annual decreases of 0.5% reaches floor, pension factor for new active members reduced to 1.75%, pension factor for current members to remain 2.0%, and effective August 28, 2017, "Rule of 85" changed to "Rule of 80"



Public School Retirement System of the City of St. Louis

A Pension Trust Fund for Public School Employees

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