PARK EMPLOYEES' AND RETIREMENT BOARD EMPLOYEES' ANNUITY AND BENEFIT FUND

Component Unit of Chicago Park District
State of Illinois

ANNUAL COMPREHENSIVE FINANCIAL REPORT

PARK EMPLOYEES'
ANNUITY AND BENEFIT
FUND OF CHICAGO

FOR THE FISCAL YEARS ENDED
DECEMBER 31, 2024 and 2023

3500 S Morgan Street, Suite 400
Chicago, IL 60609
Phone: 312.553.9265
www.chicagoparkpension.org

PARK EMPLOYEES' AND RETIREMENT BOARD EMPLOYEES' ANNUITY AND BENEFIT FUND

Component Unit of Chicago Park District

State of Illinois

ANNUAL COMPREHENSIVE FINANCIAL REPORT

FOR THE YEARS ENDED DECEMBER 31, 2024 AND 2023

Prepared by:

Administrative Staff of the Retirement Board

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This section includes miscellaneous data regarding the Fund including: Letter of Transmittal, Principal Officials, Organizational Chart, and Certificate of Achievement for Excellence in Financial Reporting.

Executive Director
Steve Swanson

Comptroller
Jaime L. McCabe

Park Employees' Annuity and Benefit Fund
3500 S. Morgan Street, Suite 400
Chicago, IL 60609
Ph. (312) 553-9265 Fax (312) 553-9114
Website: www.chicagoparkpension.org

June 10, 2025

To the Members of the Park Employees' and
Retirement Board Employees' Annuity and Benefit Fund and Members of the Retirement Board

The Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago (Fund) presents its Annual Comprehensive Financial Report (Annual Report) for the year ended December 31, 2024. The accuracy of the information contained in the report, including all disclosures, is the sole responsibility of the Fund. The intent of the Annual Report is to present the financial condition of the Fund and its related results of operations. The statements and disclosures contained in the Annual Report are necessary to assist the Fund's participants, taxpayers, and other interested parties in fully understanding the Fund's financial condition. Lauterbach & Amen, LLP, the Fund's auditors, has issued an unmodified opinion on the Fund's financial statements as of December 31, 2024. Readers of the Annual Report are encouraged to review the Independent Audit Report, located in the Financial Section of this report.

Fund Background

The Fund is a single employer, defined benefit plan covering the eligible public employees of the Chicago Park District. The Fund was created by an act of the Legislature of the State of Illinois, approved June 21, 1919 and effective July 1, 1919, covering the three major park systems of Chicago. With the statutory consolidation of the separate park districts of Chicago on May 1, 1934, the Chicago Park District was created authorizing the Fund to cover its employees. The Fund is administered in accordance with Chapter 40 of the Illinois Compiled Statutes, Act 5, Articles 1 and 12.

Responsibilities of the Board of Trustees

The Board of Trustees is composed of seven members. Four members are elected by the active participants for four-year terms and the Chicago Park District Board of Commissioners appoints three members for three-year terms. Elected members' terms are staggered so that one member is elected each year. All Trustees serve the Fund without compensation. The Board of Trustees elects a President, Vice President, and Secretary from within its ranks at its annual meeting in July. These elected office holders each have a prescribed set of duties. The Board of Trustees has various duties and responsibilities which include: invest funds in accordance with state law and its internal investment policy; approve the appointments of all necessary consultants and advisors; develop and approve all rules, regulations, and policies governing the operation of the Fund; review and approve all applications for disability, annuities, and other benefits; and monitor the financial and operational activities of the Fund. The day-to-day operations of the Fund are the responsibility of the Executive Director.

Overview

At December 31, 2024, total Fund membership, including active, inactive, disability, retired members and beneficiaries is 11,554. The Fund's fiduciary net position increased by $18.4 million during 2024 resulting in a net position restricted for pension benefits of $418.0 million. The additions to the Fund, which include employer and employee contributions and net investment income, totaled $106.4 million. During 2024, the Chicago Park District contributed the statutorily required amounts. The total Fund deductions for 2024 were $88.1 million, which is a slight increase in comparison to the total deductions from prior year. Fund deductions include annuity payments, disability and death benefits, refund of employee contributions, and administrative expenses. For a full understanding of the Fund's financial condition, we encourage the reader to review the Financial Section as well as the Actuarial Section of this report.

Accounting Method and Internal Controls

The Annual Report was prepared to conform with the principles of governmental accounting and reporting as pronounced by the Governmental Accounting Standards Board (GASB) and the American Institute of Certified Public Accountants (AICPA). In recording assets and liabilities, revenues and expenses, the accrual basis of accounting is used. All revenues including contributions are recognized when earned and expenses are recorded when incurred.

The Fund employs a system of internal controls to adequately safeguard its assets and assure the reliability of its financial records which includes the financial statements, supporting schedules and statistical tables. The internal control structure is designed to provide reasonable, but not absolute assurance that these objectives are met. The concept of reasonable assurance recognizes that the cost of control should not exceed the benefits likely to be derived, and that the valuation costs and benefits require estimates and judgments by management. An evaluation of the internal control structure during the Fund's annual independent audit disclosed no material weaknesses. Management, with the assistance of its outside auditors, continually reviews the system of internal control to insure its adequacy and effectiveness.

Actuarial Status

The Fund's independent actuary, Segal Consulting, conducts an actuarial valuation of the Fund annually. Each actuarial valuation involves a projection of the benefits expected to be paid in the future to all members of the Fund. The projection is based on the characteristics of members at the valuation date, the benefit provisions in effect on that date, and assumptions of future events and conditions. Segal Consulting also conducts an actuarial experience review every five years. These studies serve as the basis for recommended changes in actuarial assumptions and methods adopted by the Board of Trustees.

The funded ratio is the Fund's actuarial value of assets divided by the Fund's actuarial accrued liability. At December 31, 2024, the actuarial value of assets is $434,697,780 and the actuarial accrued liability is $1,307,429,382. The Fund's funded ratio at December 31, 2024 is 33.2% compared to 33.3% for the year ended December 31, 2023. The unfunded actuarial accrued liability at December 31, 2024 amounted to $872,731,602. The calculations of these figures are discussed further within the note disclosures of the Financial Section and within the Actuarial Section of this report.

Investment Policy and Performance

The Fund's investment policy was developed to insure the long-term financing of its funding requirements. Utilizing the services of Meketa Investment Group, Inc., the Trustees review the investment policy on an on-going basis making amendments as needed. The Fund's current investment policy, which details investment authority, asset allocation, diversification, liquidity, performance measurement, and objectives, is provided in the Investment Section of this report. The policy is designed to obtain the highest expected return on investments consistent with the level of risk for a public pension fund with the funded status described above.

As of December 31, 2024, the fair value of investments was $385,484,526, which compares to $368,810,694 as of December 31, 2023. As of December 31, 2024, the Fund's annual investment rate of return was 7.4% compared to 11.3% for December 31, 2023. The Fund's investment prospects in 2024 were strong due to the Fund's asset allocation and improved market conditions. The Fund, with the guidance of its Investment

Consultant, remained steadfast in its convictions to our diversified investment strategy and our investment portfolio. The Fund achieved strong absolute returns in 2024, however the Fund’s implementation of a more conservative investment posture weighed on returns relative to peers over the one-year period. Most importantly, the Fund’s need to sell assets to make benefit payments was greatly reduced in 2024 because of the larger employer contributions required by Public Act 102-0263. A more enhanced discussion about the Fund’s performance history can be found in the Investment Section of this report.

GFOA Award

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Park Employees’ and Retirement Board Employees’ Annuity and Benefit Fund for its Annual Comprehensive Financial Report for the year ended December 31, 2023. In order to be awarded a Certificate of Achievement, a public pension fund 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. We believe that our current Annual Comprehensive Financial Report continues to meet the Certificate of Achievement Program’s requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

Governmental Accounting Standards Board

The Fund is currently in full compliance with all pronouncements from the Governmental Accounting Standards Board.

Retirement Board

The annual election for an employee representative to the Retirement Board was to be held on Friday, June 27, 2025. Incumbent Trustee Edward Affolter was the only candidate to file a sufficient number of valid signatures, therefore re-elected for a four year term beginning July 1, 2025.

Acknowledgments

All the statistical and financial information compiled and presented in this Annual Report is due to the combined efforts of the administrative staff of the Fund. Their efforts are hereby acknowledged with thanks and appreciation.

On behalf of the Retirement Board,

Edward L. Affolter

Edward L. Affolter, President

PARK EMPLOYEES' ANNUITY AND BENEFIT FUND
MEMBERS
as of December 31, 2024

Elected by the Employees

Edward L. Affolter
Term expires June 30, 2025

Matthew Duggan
Term expires June 30, 2026

Frank Hodorowicz
Term expires June 30, 2027

Brian Biggane
Term expires June 30, 2028

Appointed by the Chicago Park District Board of Commissioners

Joan Coogan
Term expires June 30, 2026

Cynthia Evangelisti
Term expires June 30, 2027

OFFICERS

Edward L. Affolter, President
Matthew Duggan, Vice President
Frank Hodorowicz, Secretary

ADMINISTRATIVE STAFF

Steve Swanson, Executive Director
Jaime L. McCabe, Comptroller

CONSULTANTS

Jacobs, Burns, Orlove & Hernandez, Attorney

The Segal Company, Consulting Actuary

Lauterbach & Amen, LLP, Auditor

Meketa Investment Group, Inc., Investment Consultant

CUSTODIAN

The Northern Trust Company of Chicago

INVESTMENT ADVISORS

Ariel Investments - *Chicago*

DG Partners – *London*

Entrust – *New York*

Garcia Hamilton - *Houston*

HarbourVest Partners, LLC – *Boston*

Industry Funds Managements (IFM) – *New York*

Loop Capital - *Chicago*

LSV Asset Management - *Chicago*

Mesirow Financial Capital Partners – *Chicago*

National Investment Services - *Milwaukee*

Northern Trust Asset Management - *Chicago*

PIMCO - *Chicago*

PineBridge Investments – *New York*

Principal Global Investors – *Des Moines*

TimesSquare – *New York*

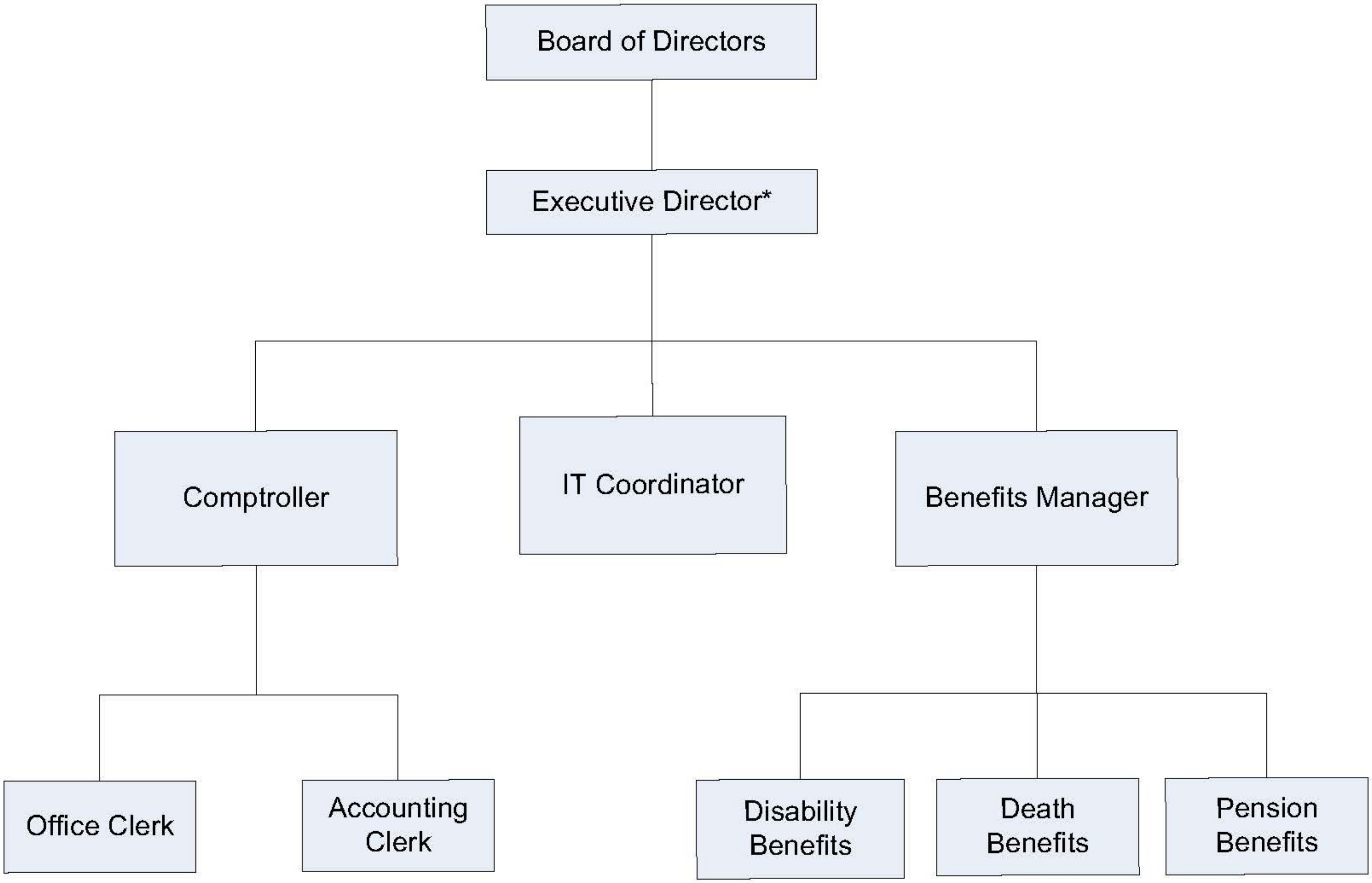
UBS Realty Investors, LLC – *Hartford*

ULLICO Investment Company – *Washington D.C.*

William Blair & Company - *Chicago*

PARK EMPLOYEES' AND RETIREMENT BOARD EMPLOYEES'
ANNUITY AND BENEFIT FUND

ORGANIZATION CHART



*The Executive Director is responsible for the handling of all investment matters. The Fund does not internally manage any investments.
For a listing of the Fund's investment managers and associated investment fees, see page 53.
For a listing of the Fund's brokers and associated commissions, see page 63.

Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

Park Employees' and Retirement Board Employees' Annuity and Benefit Fund
Illinois

For its Annual Comprehensive
Financial Report
For the Fiscal Year Ended

December 31, 2023

Christopher P. Morrill

Executive Director/CEO

FINANCIAL SECTION

This section includes:

Independent Auditor's Report

Management’s Discussion and Analysis

Financial Statements

Required Supplementary Information

INDEPENDENT AUDITOR'S REPORT

This section includes the opinion of the Fund's independent auditing firm.

Lauterbach & Amen
668 N. River Road
Naperville, IL 60563
630.393.1483
lauterbachamen.com

INDEPENDENT AUDITOR'S REPORT

June 10, 2025

Members of the Retirement Board
Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago
Chicago, Illinois

Opinions

We have audited the basic financial statements of the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago (the Fund), a pension trust fund of the Chicago Park District, Illinois, as of and for the year ended December 31, 2023 and December 31, 2024, and the related notes to the financial statements, which collectively comprise the Fund's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the plan net position of the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago, Illinois, as of December 31, 2023 and December 31, 2024, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

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

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these 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 Fund'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.

Auditor's 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 auditor's report that includes our opinions. 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.

Auditor's Responsibilities for the Audit of the Financial Statements - Continued

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 Fund'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 Fund'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.

As discussed in Note 1, these basic financial statements present only the Fund and are not intended to present fairly the financial position and changes in financial position of the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago, Illinois, in conformity with accounting principles generally accepted in the United States of America.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that management's discussion and analysis, the budgetary comparison schedule 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 basic 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 audit 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.

Supplementary Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago, Illinois' basic financial statements. The other supplementary information 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 basic financial statements. The information has been subjected to the auditing procedures applied in the audit 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, other supplementary information fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Information

Management is responsible for the other information included in the annual report. The other information comprises the introductory and statistical sections but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Lauterbach & Amen, LLP

LAUTERBACH & AMEN, LLP

MANAGEMENT'S DISCUSSION AND ANALYSIS

This section presents Management's Discussion and Analysis (MD&A) of the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago's (the Fund) financial performance and provides an overview of the Fund's financial activities for the year ended December 31, 2024 and 2023. Please read the MD&A in conjunction with the basic financial statements and the accompanying note disclosures to have a better understanding of the financial condition and performance of the Fund. Information provided for the year ended December 31, 2022 is presented for comparative purposes only.

Overview of Financial Statements and Accompanying Information

This discussion and analysis is intended to serve as an introduction to the Fund's financial reporting which is comprised of the following components:

1. The Fund's fiduciary net position increased during the year by $18.4 million or 4.6 percent compared to an increase of $33.8 million or 9.2 percent for the year ended December 31, 2023.
2. The Fund's 2024 investment return of 7.40 percent surpassed the portfolio's annual targeted rate of return of 7.00 percent.
3. The Fund's five-year rate of return of 6.0 percent was just below the portfolio's annual targeted rate of return of 7.00 percent.
4. The Fund's ten-year rate of return of 6.5 percent was slightly below the portfolio's annual targeted rate of return of 7.00 percent.
5. For the year ended December 31, 2024, the additions to the Fund's fiduciary net position of $106.4 million is $14.9 million less than the year ended December 31, 2023 additions.
6. For the year ended December 31, 2024, the deductions to the Fund's fiduciary net position of $88.1 million is $0.6 million more when compared to the deductions for the year ended December 31, 2023.
7. The Fund's actuarially computed funded ratio is 33.2 percent at December 31, 2024, which is 0.1 percent lower than at December 31, 2023.

Using this Financial Report

The Management Discussion and Analysis introduces the Fund's basic financial statements. The basic financial statements include the Statement of Fiduciary Net Position and the Statement of Change in Fiduciary Net Position, which are prepared on an accrual basis of accounting in accordance with Government Accounting Standards Board (GASB) pronouncements and reflect the Fund's overall financial condition.

The Statement of Fiduciary Net Position reports the Fund's assets at fair value and liabilities as amounts owed as of the statement date, resulting in the net position restricted for pension benefits.

The Statement of Change in Fiduciary Net Position illustrate the additions and deductions made to the Fund during the statement date. These additions include employee and employer contributions, as well as net investment income. The deductions consist of benefit payments, refunds of contributions and administrative and general expenses. The net result indicates an increase or decrease in Fund net position restricted for pension benefits.

The accompanying notes are an integral part of the financial statements. They provide information essential to achieve full understanding of the Fund's financial statements.

Using this Financial Report - Continued

The required supplementary information, presented following the notes to the financial statements, is required by GASB. These schedules offer the reader additional details, which may be useful in evaluating the financial condition and performance of the Fund. The schedules include the Schedule of Changes in Employer's Net Pension Liability, the Schedule of Employer Contributions, the Schedule of Investment Returns, as well as related disclosures. Other supplementary information consists of Schedules of Tax Levies Receivable, Administrative and General Expenses, Professional Expenses, and Investment Expenses.

Net Position Restricted for Pension Benefits

The Fund's net position restricted for pension benefits at December 31, 2024 is $417,977,994. This is $18,354,598 more than the December 31, 2023 net position restricted for pension benefits of $399,623,396. This compares to an increase of $33,777,948 for the year ended December 31, 2023. The contribution due from employer is required by Illinois state statue, to be paid by the Chicago Park District. Under the current law, P.A. 102-0263, which took effect on August 6, 2021, employer contributions for years 2022, 2023 and 2024, are actuarially determined. There was a slight uptick in receivables in 2024 primarily due to an increase in accrued investment income and employee contributions. The Fund's investment portfolio increases and decreases from year to year depending on the strength of the financial markets. Fortunately, in 2023 and 2024, the Fund's investment prospects continued to show strong performances due to the Fund's asset allocation and improved market conditions.

	Statement of Fiduciary Net Position		
	2024	2023	Increase (Decrease)
Assets			
Contributions Due from Employer	$ 25,001,568	25,005,374	(3,806)
Miscellaneous Receivables and Other Assets	7,546,972	6,805,394	741,578
Capital Assets - Net of Accumulated Depreciation/Amortization	1,563,603	1,511,923	51,680
Investments, at Fair Value	385,484,526	368,810,694	16,673,832
Invested Securities Lending Collateral	31,377,556	10,206,157	21,171,399
Total Assets	450,974,225	412,339,542	38,634,683
Liabilities			
Accrued Expenses and Other Liabilities	1,618,675	2,509,989	(891,314)
Securities Lending Collateral	31,377,556	10,206,157	21,171,399
Total Liabilities	32,996,231	12,716,146	20,280,085
Total Plan Net Position	417,977,994	399,623,396	18,354,598

Net Position Restricted for Pension Benefits - Continued

	Statement of Fiduciary Net Position		
	2023	2022	Increase (Decrease)
Assets			
Contributions Due from Employer	$ 25,005,374	25,000,000	5,374
Miscellaneous Receivables and Other Assets	6,805,394	6,567,075	238,319
Capital Assets - Net of Accumulated Depreciation/Amortization	1,511,923	1,458,161	53,762
Investments, at Fair Value	368,810,694	335,371,411	33,439,283
Invested Securities Lending Collateral	10,206,157	16,345,710	(6,139,553)
Total Assets	412,339,542	384,742,357	27,597,185
Liabilities			
Accrued Expenses and Other Liabilities	2,509,989	2,551,199	(41,210)
Securities Lending Collateral	10,206,157	16,345,710	(6,139,553)
Total Liabilities	12,716,146	18,896,909	(6,180,763)
Total Plan Net Position	399,623,396	365,845,448	33,777,948

Changes in Fiduciary Net Position

The Fund’s total additions during the year ended December 31, 2024 decreased by $14,864,482 as compared to an increase of $85,282,613 for the year ended December 31, 2023. Even during times of instability within the financial markets over the past few years, the Fund has remained steadfast in its convictions to its diversified investment strategy. During the current year, the Fund recognized a net investment gain during the year of $30,283,996 as compared to net investment gain of $37,105,031 in 2023 and a net investment loss of $43,769,718 in 2022. Additions from employer contributions decreased from $70,405,922 in 2023 to $59,697,606 in 2024. The Chicago Park District recognizes the financial burden the Fund is currently facing. In 2021, Public Act 102-0263 was signed into law which required the Chicago Park District to make a $40 million supplement employer contribution to the Fund. This contribution helped the Fund significantly, as the need to sell assets to make benefit payments in 2022 and 2023 was greatly reduced. In 2023 and 2022, the Fund also received voluntary contributions from the Chicago Park District in addition to the required amounts by state statutes of approximately $13.5 million and $10.1 million, respectively. The employee contributions increased slightly during the year from $13,800,598 in 2023 to $16,465,467 in 2024. In 2022, the hiring restrictions from the global pandemic were lifted. The Fund has seen an influx of new members over the past few years. In 2024, there were 571 new members, in 2023, there were 559 new members and in 2022, there were 451 new members. In addition, any new employee with the Chicago Park District, that has never contributed to an Illinois pension fund governed by the Reciprocal Act, were considered Tier 3 members and contributed 11% of their pensionable salary. All Tier 1 and Tier 2 members contribute 9% of their pensionable salary. At December 31, 2024, 2023 and 2022, approximately 37.6%, 28.7% and 16.3%, respectively, of our active members were Tier 3 members.

The number of retirees and beneficiaries has decreased from 2,745 and 2,730 in 2022 and 2023, respectively, to 2,705 in 2024. During the year, the Fund experienced a decrease in applications for retirement than in the prior year but still saw a significant number of annuitant and beneficiary deaths. While the Fund’s total number of retirees and beneficiaries decreased slightly, the total benefit payments in 2024 increased in comparison to 2023 and 2022 mainly due to annual cost living increases to the annuity and benefit payments.

Changes in Fiduciary Net Position - Continued

The following tables are comparative summaries of changes in fiduciary net position restricted for pension benefits:

	Statement of Change in Fiduciary Net Position		
	2024	2023	Increase (Decrease)
Additions			
Employer Contributions	$ 59,697,606	70,405,922	(10,708,316)
Employee Contributions	16,465,467	13,800,598	2,664,869
Net Investment (Loss) Income			
(includes Security Lending Activities)	30,283,996	37,105,031	(6,821,035)
Total additions	106,447,069	121,311,551	(14,864,482)
Deductions			
Retirement Benefits	70,897,620	69,407,986	1,489,634
Spousal Benefits	12,363,078	12,455,734	(92,656)
Child Benefits	3,800	15,300	(11,500)
Disability Benefits	413,701	307,695	106,006
Death Benefits	266,700	251,500	15,200
Total Benefits	83,944,899	82,438,215	1,506,684
Refund of Contributions	2,041,786	2,892,610	(850,824)
Administrative and General Expenses	2,105,786	2,202,778	(96,992)
Total Deductions	88,092,471	87,533,603	558,868
Change in Net Position	18,354,598	33,777,948	(15,423,350)
Net Position - Beginning	399,623,396	365,845,448	33,777,948
Net Position - Ending	417,977,994	399,623,396	18,354,598

Changes in Fiduciary Net Position - Continued

	Statement of Change in Fiduciary Net Position		
	2023	2022	Increase (Decrease)
Additions			
Employer Contributions	$ 70,405,922	67,128,978	3,276,944
Employee Contributions	13,800,598	12,669,678	1,130,920
Net Investment (Loss) Income (includes Security Lending Activities	37,105,031	(43,769,718)	80,874,749
Total additions	121,311,551	36,028,938	85,282,613
Deductions			
Retirement Benefits	69,407,986	67,325,938	2,082,048
Spousal Benefits	12,455,734	12,403,651	52,083
Child Benefits	15,300	9,600	5,700
Disability Benefits	307,695	519,126	(211,431)
Death Benefits	251,500	244,500	7,000
Total Benefits	82,438,215	80,502,815	1,935,400
Refund of Contributions	2,892,610	2,337,305	555,305
Administrative and General Expenses	2,202,778	2,002,020	200,758
Total Deductions	87,533,603	84,842,140	2,691,463
Change in Net Position	33,777,948	(48,813,202)	82,591,150
Net Position - Beginning	365,845,448	414,658,650	(48,813,202)
Net Position - Ending	399,623,396	365,845,448	33,777,948

Actuarial Update

The actuarial valuation for the year ended December 31, 2024 includes the changes in actuarial assumptions and methods recommended by the Fund’s actuary, Segal Consulting, and adopted by the Board of Trustees. The assumptions and methods used were based on an experience analysis covering the five-year period ending December 31, 2022. The valuations for 2024 and 2023 also reflect GASB 67 requirements that improve financial reporting for local governmental pension plans. The Board of Trustees elected to decrease the investment return assumption to 7.00% for the 2022 valuation. The notes to the financial statements include information about the individual components of the Fund’s net pension liability. The net pension liability is equal to the difference between the total pension liability and the Fund’s fiduciary net position. The Fund’s required supplementary information provides the reader with a more enhanced look on how the total pension liability, the fiduciary net position and net pension liability is measured.

The Fund’s actuarially computed funded ratio is 33.2 percent at December 31, 2024, which is 0.1 percent lower than at December 31, 2023. The funded ratio is based on the percentage of the actuarial value of assets available to pay the actuarial accrued liability.

Investment Performance

The Fund's annual investment return for the year ended December 31, 2024 was 7.40 percent, which is lower than the 11.30 percent return reported for the year ended December 31, 2023, and higher than the (10.90) percent return reported for the year ended December 31, 2022. The Fund achieved strong absolute returns in 2024, however the Fund's implementation of a more conservative investment posture weighed on returns relative to peers over the one-year period. The Fund's 7.4 percent return for 2024 underperformed its benchmark by approximately 310 basis points. The best performing asset class was U.S. Equities, which returned 20.0%, net of fees. The Fund's Real Estate and investment grade bonds portfolio was the worst performing asset class, which returned (0.3%) and (0.9%), net of fees. Over the trailing three-year period, the Fund underperformed its performance benchmark by 210 basis points. Over the trailing five-year period, the Fund underperformed its performance benchmark by 200 basis points. Over the trailing ten-year period, the Fund returned 6.5 percent, underperforming the performance benchmark by 80 basis points.

Supplemental Employer Contributions

In 2024, the Chicago Park District made employer contributions calculated on an actuarial basis instead of a multiple of employee contributions. This is to ensure that the Fund is 100% funded by the year 2057. In 2023 and 2022, in addition to the legally required employer contribution, the employer contributed a supplemental contribution of $13.5 million and $10.1 million to the Fund, respectively.

Contacting the Fund's Financial Management

This report is intended to provide a general overview of the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago for its employees and other interested parties. If you have questions, requests, or need additional information, please visit the Fund's website at www.chicagoparkpension.org or contact the Fund at 3500 S. Morgan Street, Suite 400, Chicago, IL 60609.

FINANCIAL STATEMENTS

Statement's of Fiduciary Net Position
December 31, 2024 and 2023

See Following Page

Statement's of Fiduciary Net Position
December 31, 2024 and 2023

	2024	2023
ASSETS		
Current Assets		
Investments, at Fair Value		
Common Stocks	$ 9,861,370	52,224,030
Fixed Income	66,597,674	24,317,437
Collective Investment Funds	162,979,828	151,160,590
Hedged Equity	4,526,838	31,367,942
International Equity	20,277,869	—
Private Equity	39,742,041	20,812,388
Real Estate	23,374,665	24,376,061
Infrastructure	55,888,209	52,928,055
Short-Term Investments	2,236,032	11,624,191
Accounts Receivables		
Contributions from Employer	25,001,568	25,005,374
Employee Contributions	551,497	379,740
Workers' Compensation	60,749	64,755
Accrued Investment Income	770,233	313,755
Miscellaneous Receivables	88,472	83,825
Other Prepaid Expenses	83,171	59,284
Total Current Assets	412,040,216	394,717,427
Noncurrent Assets		
Invested Securities Lending Collateral	31,377,556	10,206,157
Capital Assets - Net of Accumulated Depreciation/Amortization	1,563,603	1,511,923
Prepaid Annuity Benefits	5,992,850	5,904,035
Total Noncurrent Assets	38,934,009	17,622,115
Total Assets	450,974,225	412,339,542

The notes to the financial statements are an integral part of this statement.

		2024	2023
LIABILITIES			
Current Liabilities			
Accounts Payable	$	272,811	391,862
Accrued Benefits Payable		114,960	866,976
Accrued Payroll		29,274	21,949
Lease Liability		98,199	91,762
Compensated Absences		2,466	4,151
Unclaimed Checks		299,304	226,691
Total Current Liabilities		817,014	1,603,391
Noncurrent Liabilities			
Lease Liability		791,796	889,995
Compensated Absences		9,865	16,603
Securities Lending Collateral		31,377,556	10,206,157
Total Noncurrent Liabilities		32,179,217	11,112,755
Total Liabilities		32,996,231	12,716,146
NET POSITION			
Total Net Position		417,977,994	399,623,396

The notes to the financial statements are an integral part of this statement.

Statement's of Change in Fiduciary Net Position
Years Ended December 31, 2024 and 2023

	2024	2023
Additions		
Contributions - Employer	$ 59,697,606	70,405,922
Contributions - Plan Members	16,465,467	13,800,598
Other	372	225
Total Contributions	76,163,445	84,206,745
Investment Income		
Interest and Dividends Earned	2,177,432	2,620,738
Partnership and Real Estate Income	3,769,977	3,274,258
Net Change in Fair Value	26,459,386	32,939,122
	32,406,795	38,834,118
Less: Investment Expenses	(2,179,904)	(1,755,351)
Net Investment Income	30,226,891	37,078,767
Security Lending Activities		
Securities Lending Income	1,582,974	919,416
Borrower Rebates	(1,478,320)	(870,020)
Bank Fees	(47,921)	(23,357)
	56,733	26,039
Total Additions	106,447,069	121,311,551
Deductions		
Administration	2,105,786	2,202,778
Benefits and Refunds	85,986,685	85,330,825
Total Deductions	88,092,471	87,533,603
Change in Fiduciary Net Position	18,354,598	33,777,948
Net Position Restricted for Pensions		
Beginning	399,623,396	365,845,448
Ending	417,977,994	399,623,396

The notes to the financial statements are an integral part of this statement.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Park Employees' and Retirement Board Employees' Annuity and Benefit Fund of Chicago (the Fund) is the administrator of a single employer defined benefit plan (PERS) established by the State of Illinois to provide annuities and benefits for substantially all employees of the Chicago Park District.

The accounting policies of the Fund conform to accounting principles generally accepted in the United States of America as applicable to governmental units. The accepted standard-setting body for establishing governmental accounting and financial reporting principles is the Governmental Accounting Standards Board (GASB).

REPORTING ENTITY

The Fund is a blended fiduciary component unit, and specifically, a pension trust fund, of the Chicago Park District, Illinois pursuant to GASB Statement No. 61. The decision to include the Fund in the Chicago Park District's reporting entity was made based upon the significance of their operational or financial relationships with the Fund. Accordingly, these financial statements present only the Park Employees' and Retirement Board Employees' Annuity and Benefit Fund and are not intended to present fairly the financial position of the Chicago Park District and the result of its operations in conformity with generally accepted accounting principles.

BASIS OF PRESENTATION

Pension Trust Funds

The Fund uses a fund to report on its fiduciary net position and the changes in its fiduciary net position. Fund accounting is designed to demonstrate legal compliance and to aid financial management by segregating transactions related to certain government functions or activities. A fund is a separate accounting entity with a self-balancing set of accounts. The Fund is classified in this report in the fiduciary category.

MEASUREMENT FOCUS AND BASIS OF ACCOUNTING

Measurement focus is a term used to describe “which” transactions are recorded within the various financial statements. Basis of accounting refers to “when” transactions are recorded regardless of the measurement focus applied.

Measurement Focus

Pension trust funds utilize an “economic resources” measurement focus. The accounting objectives of this measurement focus are the determination of changes in net position. All assets/deferred outflows and liabilities/ deferred inflows (whether current or noncurrent) associated with their activities are reported. Pension trust fund equity is classified as net position.

Basis of Accounting

The accrual basis of accounting is utilized by pension trust funds. Under this method, additions to net position are recorded when earned and deductions from net position are recorded when the time related liabilities\deferred inflows are incurred. Plan member contributions are recognized in the period in which the contributions are due. Employer contributions are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

ASSETS, LIABILITIES, AND NET POSITION

Prepaids

Prepaids are valued at cost, which approximates market. The cost of prepaids are recorded as expenses when consumed rather than when purchased. Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaids in the financial statements.

Capital Assets

Capital assets purchased or acquired with an original cost of $1,000 or more, depending on asset class, are reported at historical cost or estimated historical cost. Contributed assets are reported at acquisition value as of the date received. Additions, improvements and other capital outlays that significantly extend the useful life of an asset are capitalized. Other costs incurred for repairs and maintenance are expensed as incurred.

Depreciation on property and equipment is computed and recorded using the straight-line method of depreciation over 3 to 7 years. Leasehold improvements are amortized using the straight line method over the remaining term of the lease.

Receivables

The Fund’s receivables consist of all revenues earned at year-end and not yet received. The major receivable balance for the Pension Fund is accrued interest from cash and investments.

Compensated Absences

Full-time employees accrue vacation time at varying rates based on service time. Full-time employees may accrue a maximum of 20 to 25 vacation days based on service time. Full-time employees may use a maximum of 20 to 25 vacation days in one calendar year based on service time. Unused vacation leave will be paid upon termination of employment providing it does exceed the maximum payable in a calendar year.

Full-time employees are entitled to sick leave at the rate of 12 working days per year. Sick leave may be accumulated up to but at no time shall exceed 120 scheduled working days. During the period when an employee's accumulated sick leave is at the maximum of 120 days, no further sick leave shall be deemed to accrue.

Administrative Expenses

Administrative expenses are budgeted and approved by the Fund’s Board of Trustees. Funding for these expenses is included in the employer contributions as determined by the annual actuarial valuation.

NOTE 2 - DETAIL NOTES ON ALL FUNDS

DEPOSITS, INVESTMENTS AND CONCENTRATIONS

Investment Policy

Illinois Compiled Statutes authorize the Fund to make deposits/investments in insured commercial banks, savings and loan institutions, obligations of the U.S. Treasury and U.S. Agencies, corporate and municipal debentures and obligations, insured mortgage notes and loans, mutual funds meeting certain requirements, common and preferred stocks, stock options, real estate, collective investment funds, and private equity partnerships. The Fund allows funds to be invested in any type of security authorized by the Illinois Pension Code.

The Fund’s policy in regard to the allocation of invested assets is established and may be amended by the Board. It is the policy of the Board to pursue an investment strategy that reduces risk through prudent diversification of the portfolio across a broad selection of distinct asset classes. The Fund’s investment policy discourages the use of cash equivalents, except to meet liquidity needs and aims to refrain from dramatically shifting asset class allocations over the short term.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges were combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan’s target asset allocation as of December 31, 2024 and 2023 are summarized below in the following table:

	2024		2023	
Asset Class	Target	Long-Term Expected Real Rate of Return	Target	Long-Term Expected Real Rate of Return
Fixed Income	15.0%	1.90%	15.0 %	1.80%
Domestic Equities	24.0%	6.10%	24.0 %	6.60%
International Equities	18.0%	6.20%	18.0 %	6.70%
Emerging Market	6.0%	7.40%	6.0 %	8.00%
Hedge Equity	3.0%	2.90%	3.0 %	3.00%
Private Equity	7.0%	9.65%	7.0 %	9.90%
Real Estate/Real Assets	10.0%	3.50%	10.0 %	3.40%
Infrastructure	8.0%	6.10%	8.0 %	6.00%
Private Debt	5.0%	6.1%	5.0%	6.2%
Short-term TIPS	4.0%	1.1%	4.0%	1.0%

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued
DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Fair Value of Investments

The Fund's investments are reported at fair value in the accompanying statement of fiduciary net position. The methods used to measure fair value may produce an amount that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Fund 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 Fund categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The asset or liability’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 used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

Following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used at December 31, 2024 and 2023.

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.

Equity securities and short-term investment securities classified in Level 1 are valued using prices quoted in active markets for those securities.

Debt securities classified in Level 2 or Level 3 are valued using matrix pricing techniques maintained by the various pricing vendors. Matrix pricing is used to value securities based on the securities relationship to a benchmark’s quoted price. Equity securities classified in Level 2 are securities with a theoretical price calculated by applying a standardized formula to derive a price from a related security.

Equity securities classified in Level 2 are valued with last trade data having limited trading volume.

The valuation method for certain fixed income and alternative investments is based on the investments’ NAV per share (or its equivalent), provided by the investment managers. The NAV is based on the fair value of the underlying investments held by the Fund less its liabilities. This practical expedient is not used when it is determined to be probable that the Fund will sell the investment for an amount different than the reported NAV.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Fair Value of Investments - Continued

The following table summarizes the valuation of the Fund's investments by the fair value hierarchy levels for the years ended December 31, 2024 and 2023:

	2024			
		Fair Value Measurements Using		
Investments by Fair Value Level	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Debt Securities				
Government Bonds	$ 26,269,688	—	26,269,688	—
Municipal Bonds	24,607	—	24,607	—
Corporate Bonds	12,167,949	—	12,167,949	—
Government Mortgage-Backed Securities	9,628,833	—	9,628,833	—
Asset Backed Securities	4,008,884	—	4,008,884	—
Index Linked Government Bonds	14,497,713	—	14,497,713	—
Equity Securities				
Common Stock	100,549,634	30,139,239	70,410,395	—
Common Stock, Foreign	52,173,626	—	52,173,626	—
Short-Term Investment Securities				
Funds Short-Term Investments	2,236,032	2,236,032	—	—
Total Investments by Fair Value Level	221,556,966	32,375,271	189,181,695	—
Investments Measured at Net Asset Value (NAV)				
Hedged Equity	4,526,838			
Collective Investment Funds	20,117,937			
International Equity	20,277,869			
Private Equity	39,742,043			
Real Estate	23,374,664			
Infrastructure	55,888,209			
	163,927,560			
Total Investments Measured at Fair Value	385,484,526			

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Fair Value of Investments - Continued

	2023			
		Fair Value Measurements Using		
Investments by Fair Value Level	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Debt Securities				
Government Bonds	$ 6,095,309	—	6,095,309	—
Government Agencies	1,535,505	—	1,535,505	—
Corporate Bonds	10,749,421	—	10,749,365	56
Government Mortgage-Backed Securities	5,937,202	—	5,937,202	—
Equity Securities				
Common Stock	114,739,056	52,224,030	62,515,026	—
Common Stock, Foreign	42,885,459	—	42,885,459	—
Short-Term Investment Securities				
Funds Short-Term Investments	11,624,191	11,624,191	—	—
Total Investments by Fair Value Level	193,566,143	63,848,221	129,717,866	56
Investments Measured at Net Asset Value (NAV)				
Hedged Equity	31,367,942			
Collective Investment Funds	45,760,105			
Private Equity	20,812,388			
Real Estate	24,376,061			
Infrastructure	52,928,055			
	175,244,551			
Total Investments Measured at Fair Value	368,810,694			

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Fair Value of Investments - Continued

Investments measured at NAV for fair value are not subject to level classification. The valuation methods for investments measured at the NAV per share (or its equivalent) for the years ended December 31, 2024 and 2023 are presented on the following tables:

Investments Measured at Net Asset Value (NAV)	2024 Fair Value	Underfunded Commitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period
Hedged Equity	$ 4,526,838	—	Monthly	5 days
Collective Investment Funds	20,117,937	—	Daily	1-3 days
International Equity	20,277,869	—	Daily/Quarterly	5-30 days
Private Equity	39,676,949	18,549,455	N/A	N/A
Real Estate	23,374,664	—	Quarterly	60-90 days
Infrastructure	55,888,209	—	Quarterly	90 days

Investments Measured at Net Asset Value (NAV)	2023 Fair Value	Underfunded Commitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period
Hedged Equity	$ 31,367,942	—	Monthly	5 days
Collective Investment Funds	45,760,105	—	Daily	1-3 days
Private Equity	20,812,388	3,864,455	N/A	N/A
Real Estate	24,376,061	—	Quarterly	60-90 days
Infrastructure	52,928,055	—	Quarterly	90 days

Hedged Equity

The hedged equity investment consists of one open-end long/short equity hedge fund of funds portfolio that primarily invests both long and short in publicly traded US equities.

International Equity

The international equity investment consist of two fund’s portfolio that primarily invests both long and short in publicly traded international equities.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Private Equity Partnerships

The private equity investments consist of eight closed-end limited partnership private equity fund of funds. Generally, the types of partnership strategies included in these portfolios are venture capital, buyouts, special situations, mezzanine, and distressed debt. Private equity partnerships have an approximate life of 10-15 years and are considered illiquid. Redemptions are restricted over the life of the partnership. During the life of the partnerships, distributions are received as underlying investments are realized. The Fund has no plans to liquidate the total portfolio.

Real Estate

The real estate investments consists of two core open-end estate funds and one value-added open-end real estate fund that primarily invest in U.S. commercial real estate.

Infrastructure

The infrastructure investments consist of two core open-end infrastructure funds that primarily invest in global infrastructure assets.

The Fund shall apply the prudent investor rule in investing for funds under its supervision. The prudent investor rule means that in making investments, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, with regards to preservation of capital and income and not speculation. The funds belonging to the Fund must be invested exclusively for the benefit of their members and in accordance with the respective Fund’s investment goals and objectives.

Collective Investment Funds

The collective investment funds consist of core plus fixed income commingled fund and an opportunistic fixed income commingled fund that primarily invest in US dollar denominated bonds with exposure to both investment grade and below investment grade securities.

Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the value of an investment. The Fund does not maintain a policy relative to interest rate risk. The Board of Trustees recognized that its investments are subject to short-term volatility. However, their goal is to maximize total return within prudent risk parameters.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Interest Rate Risk - Continued

As of December 31, 2024, the Fund's investments were as follows (expressed in thousands):

		Investment Maturities (in Years)			
Investment Type	Fair Value	Less Than 1	1-5	6-10	More Than 10
Corporate Bonds	$ 12,168	409	8,935	1,418	1,406
Municipal Bonds	25	—	—	25	—
Asset Backed Securities	4,009	—	4,009	—	—
Government Bonds	26,270	—	8,791	4,783	12,696
Index Linked Government Bonds	14,498	—	14,498	—	—
Government Mortgage Backed	9,629	—	—	—	9,629
Totals	$ 66,599	409	36,233	6,226	23,731

As of December 31, 2023, the Fund's investments were as follows (expressed in thousands):

		Investment Maturities (in Years)			
Investment Type	Fair Value	Less Than 1	1-5	6-10	More Than 10
Corporate Bonds	$ 10,749	737	4,896	3,177	1,939
Government Agencies	1,536	125	1,241	170	—
Government Bonds	6,095	—	1,948	1,382	2,765
Government Mortgage Backed	5,937	1	17	607	5,312
Totals	$ 24,317	863	8,102	5,336	10,016

Some investments are more sensitive to interest rate changes than others. Variable and floating rate collateralized mortgage obligations (CMOs), asset-backed securities (ABS), interest-only and principal-only securities are examples of investments whose fair values may be highly sensitive to interest rate changes.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. The Fund's investment policy requires diversification of the investment portfolio to minimize risk of loss resulting from over-concentration in a particular type of security, risk factor, issuer or maturity.

Investments that represent five percent or more of the Fund's net position (except those issued or guaranteed by the U.S. Government) are separately identified as follows:

	2024	2023
Collective Investment Funds, Common Stock		
NTGI QM Collective Daily US Market Cap Equity	$ 70,410,395	50,080,478
NTGI QM Collective Daily All Country World Index	52,173,626	35,525,646
Mackay Shields Core Plus Bond CIT - CL 1	—	24,005,407
Ullico Infrastructure Taxable Fund, LP	33,425,522	31,658,170
IFM Global Infrastructure (US), L.P. Class A Interests	22,462,687	21,269,884
Hedged Equity, Parametric Defensive Equity Fund	—	31,367,942

Custodial Credit Risk - Deposits

With respect to deposits, custodial credit risk refers to the risk that, in the event of a bank failure, the government's deposits may not be returned to it. As of December 31, 2024 and 2023, the Fund's bank deposits were covered by FDIC insurance.

Custodial Credit Risk - Investments

With respect to investments, custodial credit risk refers to the risk that, in the event of the failure of the counterparty to the investment, the Fund will not be able to recover the value of its investments that are in possession of an outside party. As of December 31, 2024 and 2023, no investments were exposed to custodial credit risk.

Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Fund maintains a highly diversified portfolio of debt securities encompassing a wide range of credit ratings. Each fixed income manager is given a specific set of guidelines to invest within, based on the mandate for which it was hired. The guidelines specify which range of credit the manager may invest. These ranges include investment grade and high yield categories.

The Fund's investment policy authorizes investments in any type of security allowed for in Illinois statutes regarding the investment of public funds. The following tables present the Fund's ratings as of December 31, 2024 and 2023 (expressed in thousands).

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Credit Risk - Continued

2024

S&P Credit Rating	Fair Value	Corporate Bonds	Government Bonds	Government Mortgage Backed	Asset Backed	Municipal Bonds	Index Linked Govn't Bonds
AAA	$ 2,550	49	—	—	2,501	—	—
AA	504	479	—	—	—	25	—
A	5,159	5,159	—	—	—	—	—
BBB	6,166	6,166	—	—	—	—	—
NR	5,894	315	—	—	1,508	—	4,071
US Government Agency	46,326	—	26,270	9,629	—	—	10,427
	$ 66,599	12,168	26,270	9,629	4,009	25	14,498

2023

S&P Credit Rating	Fair Value	Corporate Bonds	Government Agencies	Government Bonds	Government Mortgage Backed
AAA	$ —	—	—	—	—
AA	2,159	623	1,536	—	—
A	2,673	2,673	—	—	—
BBB	5,657	5,657	—	—	—
BB	1,522	1,522	—	—	—
B	274	274	—	—	—
NR	1,431	—	—	1,431	—
US Government Agency	10,601	—	—	4,664	5,937
	$ 24,317	10,749	1,536	6,095	5,937

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS, INVESTMENTS AND CONCENTRATIONS - Continued

Foreign Currency Risk

Foreign currency risk is the risk that changes in currency exchange rates will adversely affect the fair value of an investment or a deposit. Forward currency contracts may be used to manage exposure to foreign currencies. The Fund has not adopted a formal policy related to foreign currency risk. At December 31, 2024 and 2023, the Fund had \$52,173,626 and \$42,885,459, respectively, in foreign investments, all of which was in mutual funds that were held in U.S. dollars. At December 31, 2024, the Fund had \$20,277,869 in international equity hedge funds all of which were held in U.S. dollars.

Rate of Return

For the years ended December 31, 2024 and 2023, the annual money-weighted rate of return on plan investments, net of investment expense, was 7.40% and 11.30%, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Securities Lending

Under the provisions of state statutes, the Fund lends securities (both equity and fixed income) to qualified and Fund approved brokerage firms for collateral that will be returned for the same securities in the future. The Fund's custodian, the Northern Trust Co., manages the securities lending program, which includes the securities of the Fund as well as other lenders, and receives cash, U.S. Treasury securities or letters of credit as collateral. The collateral received cannot be pledged or sold by the Fund unless the borrower defaults. However, the Fund does have the right to close the loan at any time. All security loan agreements are initially collateralized at 102 percent of the loaned securities. Whenever adjustments are needed to reflect changes in the fair value of the securities loaned, the collateral is adjusted accordingly. Cash collateral is invested in the lending agent’s short-term investment pool, which at year end has a weighted average maturity of 85 days. As December 31, 2024 and 2023, the Fund had loaned to borrowers securities with a fair value of \$30,731,650 and \$9,960,384 respectively. As of December 31, 2024, the fair value of the collateral received by the Fund was \$31,377,556 and the collateral invested by the Fund was \$31,377,556. As of December 31, 2023, the fair value of the collateral received by the Fund was \$10,206,157 and the collateral invested by the Fund was \$10,206,157. The Fund received only cash collateral.

At year end, the Fund has no credit risk exposure to the borrowers because the amounts the Fund owes the borrowers exceed the amounts the borrowers owe the Fund.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

CAPITAL ASSETS

Capital asset activity for the year ended December 31, 2024 was as follows:

	Beginning Balances	Increases	Decreases	Ending Balances
Depreciable/Amortizable Capital Assets				
Furniture and Equipment	$ 142,258	—	—	142,258
Computer Software	435,888	200,004	—	635,892
Leasehold Improvements	59,553	—	—	59,553
Lease Assets - Buildings	1,124,340	—	—	1,124,340
	1,762,039	200,004	—	1,962,043
Less Accumulated Depreciation/Amortization				
Furniture and Equipment	48,144	26,092	—	74,236
Computer Software	5,764	3,843	—	9,607
Leasehold Improvements	8,818	5,955	—	14,773
Lease Assets - Buildings	187,390	112,434	—	299,824
	250,116	148,324	—	398,440
Total Net Capital Assets	1,511,923	51,680	—	1,563,603

Capital asset activity for the year ended December 31, 2023 was as follows:

	Beginning Balances	Increases	Decreases	Ending Balances
Depreciable/Amortizable Capital Assets				
Furniture and Equipment	$ 139,159	3,099	—	142,258
Computer Software	235,884	200,004	—	435,888
Leasehold Improvements	59,553	—	—	59,553
Lease Assets - Buildings	1,124,340	—	—	1,124,340
	1,558,936	203,103	—	1,762,039
Less Accumulated Depreciation/Amortization				
Furniture and Equipment	21,035	27,109	—	48,144
Computer Software	1,921	3,843	—	5,764
Leasehold Improvements	2,863	5,955	—	8,818
Lease Assets - Buildings	74,956	112,434	—	187,390
	100,775	149,341	—	250,116
Total Net Capital Assets	1,458,161	53,762	—	1,511,923

Depreciation expense/amortization was $148,324 and $149,341 for 2024 and 2023, respectively.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

LONG-TERM DEBT

Lease Payable

The Fund has the following leases outstanding at year end:

Lease	Start Date	End Date	Payments	Interest Rate
Building	5/1/2022	5/1/2032	$9,516 to $12,416 Monthly	3.00%

Long-Term Liability Activity

Changes in long-term liabilities during the fiscal year were as follows:

Issue	Beginning Balances	Issuances	Retirements	Ending Balances	Due in One Year
Lease Payable	$ 981,757	—	91,762	889,995	98,199
Compensated Absences	20,754	—	8,423	12,331	2,466
	1,002,511	—	100,185	902,326	100,665

Lease Payable Requirements to Maturity

The future principal and interest lease payments as of the year-end were as follows:

Fiscal Year End	Principal	Interest
2025	$ 98,199	25,369
2026	104,941	22,331
2027	112,009	19,087
2028	119,406	15,626
2029	127,138	11,938
2030	135,238	8,014
2031	143,707	3,841
2032	49,357	309
	889,995	106,515

COMMITMENTS

The Fund has committed to purchase $110,000,000 interests in private equity partnerships. At December 31, 2024 and 2023, the Fund had a remaining contractual obligation of $18,549,455 and $3,864,455 respectively, to purchase additional interests in the private equity partnerships.

NOTE 2 - DETAIL NOTES ON ALL FUNDS - Continued

DEFERRED COMPENSATION PLAN

The Fund is a governmental eligible employer as defined by Code Section 457(e)(1)(A) and has established a deferred compensation plan (457(b)) for eligible employees. Individual contributions to the plan are equal to the amount of salary reductions elected by each participant for the year up to a maximum allowable by Internal Revenue Service regulations. Total employee contributions were $19,500 and $27,900 for 2024 and 2023, respectively. Employer contributions are not allowed.

NOTE 3 - OTHER INFORMATION

CONTINGENT LIABILITIES

Litigation

The Fund is not a defendant in any lawsuits.

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLAN

Plan Administration

The Fund is a defined benefit single-employer pension plan. Although this is a single-employer pension plan, the defined benefits and employee and minimum employer contributions are governed by Illinois Compiled Statutes (40 ILCS 5/12-1) and may be amended only by the Illinois legislature.

The Plan is governed by a seven-member board. Three members are appointed by the park commissioner's and four members of the board are elected from among the employees.

Plan Membership

The plan membership consisted of the following:

	2024	2023
Retirees and Beneficiaries Currently Receiving Benefits	2,705	2,730
Vested Terminated Members Entitled to Benefits	201	187
Current Employees	3,270	3,027
Total	6,176	5,944

Benefits Provided

As provided for in the Illinois Compiled Statutes, the Fund provides retirement benefits as well as death and disability benefits to employees grouped into three tiers. Tier 1 is for employees that contributed prior to January 1, 2011, Tier 2 is for employees that contributed after that date, and Tier 3 is for employees hired after January 1, 2022. The following is a summary of the Fund as provided for in Illinois Compiled Statutes.

NOTE 3 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLAN - Continued

Benefits Provided - Continued

Tier 1. Covered employees attaining the age of 50 or more with ten or more years of creditable service are entitled to receive a service retirement pension. The retirement pension is based upon the average of the four highest consecutive years of salary within the last ten years of service. If the employee retires prior to the attainment of age 60, the rate associated with the service is reduced by one-quarter percent for each full month the employee is under age 60. There is no reduction if the participant has 30 years of service. Employees with four years of service at age 60 may receive a retirement benefit.

Tier 2. Covered employees attaining the age of 62 or more with ten or more years of creditable service are entitled to receive discounted service retirement pension. Employees attaining the age 67 or more, with at least 10 years of service are entitled to receive a nondiscounted annuity benefit. The annuity is discounted one-half percent for each full month the employee is under age 67. The retirement pension is based upon the average of the eight highest consecutive years of salary within the last ten years of service prior to retirement. Pensionable salary is limited to $125,774 in 2024 and $123,489 in 2023.

Tier 3. Covered employees attaining the age of 60 or more with ten or more years of creditable service are entitled to receive discounted service retirement pension. Employees attaining the age 65 or more, with at least 10 years of service are entitled to receive a nondiscounted annuity benefit. The annuity is discounted one-half percent for each full month the employee is under age 65. The retirement pension is based upon the average of the eight highest consecutive years of salary within the last ten years of service prior to retirement. Pensionable salary is limited to $125,774 in 2024 and $123,489 in 2023.

Post-Retirement Increase

Tier 1. An employee annuitant under Tier 1 who retires at age 50 or older with at least 30 years of service is eligible to receive an increase of three percent, based on the annuity granted at retirement, payable following the first 12 months of benefits on either the next January or July. If the employee annuitant retires before the age of 60 with less than 30 years of service, then the increases begin on the January or July following the later of the attainment of age 60 or 12 months of benefits received.

Tier 2 and Tier 3. An employee annuitant under Tier 2 and Tier 3 that is eligible to receive an increase in the annuity benefit, shall receive an annual increase equal to the lesser of three percent or one-half the annual unadjusted percentage increase in the Consumer Price Index-U (but not less than zero) as measured in the preceding 12 month period ending with the September preceding the increase. The increase is based on the amount of the originally granted benefit (simple). This increase begins after age 67 on the first January following one full year of benefits received for Tier 2 and age 65 for Tier 3.

Surviving Spouse Pension

Tier 1. Upon the death of an employee annuitant under Tier 1, the surviving spouse, meeting certain eligibility requirements, is entitled to a spousal annuity. The surviving spouse is entitled to the lesser of a money purchase calculation, 50 percent of the highest salary or 75 percent of the granted annuity. With 20 years of service, the entitlement becomes the higher of the eligible money purchase calculation or 50 percent of retiree’s annuity at the time of death. The surviving spouse is also eligible to receive an increase of three percent compounded, on the January following one full year after the date of death of the employee or annuitant.

NOTE 3 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLAN - Continued

Surviving Spouse Pension - Continued

Tier 2 and Tier 3. The annuity payable to the surviving spouse of an employee annuitant under Tier 2 and Tier 3 is equal to 66 2/3 percent of the participant's earned retirement annuity at the time of death without reduction due to age. The surviving spouse is also eligible to receive an increase equal to the lesser of three percent or one-half of the annual unadjusted percentage increase in the Consumer Price Index-U (but not less than zero) as measured in the preceding 12 month period ending with the September preceding the increase, on the January following one full year after the date of death of the employee or annuitant.

Child Annuity

Under Tier 1, Tier 2, and Tier 3, unmarried children under the age of 18 of a deceased employee or annuitant having at least two years of service are entitled to a benefit. The child's annuity is an amount equal to $100 a month when there is a surviving spouse or $150 when there is no surviving spouse, subject to maximum limitations.

Ordinary Disability Benefit

Under Tier 1, Tier 2 and Tier 3, an employee who becomes disabled as the result of any cause other than an accidental injury incurred while in the performance of an act of duty is entitled to an ordinary disability benefit at the amount equal to 45 percent of the employee's annual salary at the time of disablement. An employee can receive ordinary disability for a period equal to one fourth of his/her service credits up to a maximum of five years, exclusive of the disability period. Tier 2 and Tier 3 participants have salary limitations similar to employee contributions.

Duty Disability Benefit

Under Tier 1, Tier 2 and Tier 3, an employee who becomes disabled as the result of a work related injury incurred while in the performance of an act of duty is entitled to a duty disability benefit in the amount equal to 75 percent of the employee's annual salary at the time of injury, reduced by any benefits received by the employee under the provisions of the Workers' Compensation Act. Tier 2 and Tier 3 participants have salary limitations similar to employee contributions.

Contributions

Participants are required by Illinois Compiled Statutes (ILCS) to contribute 9.0 percent of their salary to the Fund except for those participants hired on or after January 1, 2022. Participants hired after January 1, 2022 are required to contribute 11.0 percent of their salary. For Tier 1, if a participant leaves covered employment before the age of 55, accumulated participant contributions are refundable without interest. For Tier 2 and 3, the refund is payable before age 62 and age 60, respectively, regardless of length of service. For payment year 2021, the District is required by state statute to contribute to the Fund one-fourth of the amount, as determined by an actuary retained by the Fund, equal to the sum of (i) the Park District's portion of the projected normal cost for that fiscal year, plus (ii) an amount determined by an actuary retained by the Fund, using a 35-year period starting on December 31, 2020 with the entry age normal actuarial cost method, that is sufficient to bring the total actuarial assets of the Fund up to 100% of the total actuarial accrued liabilities of the Fund by the end of 2055. In accordance with state statue, by 2057, the Fund should be 100% funded and going forward the District is required to contribute amounts each year to remain 100% funded. The District had no legal obligations to fund pension costs above that required by statute but the District has made voluntary supplement contributions to the Fund above the amount required by the statute. The District's contributions to the Fund were $59,697,606 and $70,405,922 for the years ended December 31, 2024 and 2023, respectively.

NOTE 3 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLAN - Continued

Net Pension Liability

The components of the net pension liability were as follows:

	2024	2023
Total Pension Liability	$ 1,307,429,382	1,269,798,400
Plan Fiduciary Net Position	417,977,993	399,623,396
Plan's Net Pension Liability	889,451,389	870,175,004
Plan Fiduciary Net Position as a Percentage	32.0%	31.5%

Actuarial Assumptions

The total pension liability was determined by an actuarial valuation performed, using the following actuarial methods and assumptions:

Actuarial Valuation Date	December 31, 2024	December 31, 2023
Actuarial Cost Method	Entry Age Normal	Entry Age Normal
Asset Valuation Method	Fair Value	Fair Value
Actuarial Assumptions		
Interest Rate	7.00%	7.00%
Salary Increases	2.50% to 20%	2.50% to 20%
Inflation	2.50%	2.50%
Cost of Living Adjustments	Retirees - 3% of the original benefit for employees who first became a participant before January 1, 2011.	Retirees - 3% of the original benefit for employees who first became a participant before January 1, 2011.
	Retirees - lesser of 3% and 1/2 CPI of the original benefit for employees who first become a participant on or after January 1, 2011.	Retirees - lesser of 3% and 1/2 CPI of the original benefit for employees who first become a participant on or after January 1, 2011.
	Beneficiary - 3% compounded for beneficiaries of employees who first became a participant by January 1, 2011.	Beneficiary - 3% compounded for beneficiaries of employees who first became a participant by January 1, 2011.

NOTE 3 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLAN - Continued

Actuarial Assumptions - Continued

Mortality rates for 2024 and 2023 for healthy retirees were based on 100% of PubG-2010 Below Median Healthy Annuitant Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021. For healthy beneficiaries, mortality rates were based on 110% of PubG-2010 Below Median Contingent Survivor Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021. For active members, mortality rates were based on 100% of PubG-2010 Below Median Employee Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021.

The actuarial assumptions used in the December 31, 2024 and December 31, 2023 valuations were based on the results of an actuarial experience study for a five-year period ending December 31, 2022, and a recent review of the investment return assumption.

Discount Rate

The discount rates used to measure the total pension liability was 7.00 percent as of December 31, 2024, and December 31, 2023. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at a 9% contribution rate for Tier 1 and Tier 2, and 11% for Tier 3, and that employer contributions will be made per statute. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions and contributions from future plan members that are intended to fund the service costs of future plan members and their beneficiaries are not included. Based on those assumptions, the plan fiduciary net position was projected to be available to make all projected future benefit payments for current plan members. Therefore, the projected benefit payments were discounted at the long-term expected rate of return (7.00 percent) to determine the total pension liability as of both December 31, 2024 and December 31, 2023. No projected benefit payments were discounted at the municipal bond index (4.08%, based on the Bond Buyer 20-GO Municipal Bond Index as of December 31, 2024).

NOTE 3 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLAN - Continued

Discount Rate Sensitivity

The following is a sensitivity analysis of the net pension liability to changes in the discount rate as of December 31, 2024 and December 31, 2023. The table below presents the net pension liability of the Fund calculated using the discount rate as well as what the Fund's net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate:

	December 31, 2024		
	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Net Pension Liability	$ 1,032,526,263	889,451,389	769,133,628

	December 31, 2023		
	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Net Pension Liability	$ 1,010,171,187	870,175,004	752,602,326

SUBSEQUENT EVENT

Subsequent to December 31, 2024, the investment markets have experienced significant volatility. It is highly likely that the values of the Fund's investments have changed by material amounts since year end.

REQUIRED SUPPLEMENTARY INFORMATION

Schedule of Employer Contributions - Last Ten Fiscal Years
December 31, 2024

Fiscal Year	Actuarially Determined Contribution	Contributions in Relation to the Actuarially Determined Contribution	Contribution Excess/ (Deficiency)	Covered Payroll	Contributions as a Percentage of Covered Payroll
12/31/2015	$ 36,273,994	$ 30,588,976	$ (5,685,018)	$ 122,382,584	24.99%
12/31/2016	37,130,268	30,890,241	(6,240,027)	121,126,918	25.50%
12/31/2017	45,253,238	20,920,614	(24,332,624)	135,315,008	15.46%
12/31/2018	50,929,734	27,638,402	(23,291,332)	133,112,100	20.76%
12/31/2019	61,887,790	27,682,089	(34,205,701)	139,204,051	19.89%
12/31/2020	67,297,212	33,939,927	(33,357,285)	138,942,498	24.43%
12/31/2021	70,492,027	83,349,261	12,857,234	134,515,373	61.96%
12/31/2022	71,021,948	67,128,978	(3,892,970)	136,917,648	49.03%
12/31/2023	77,592,063	70,405,922	(7,186,141)	144,629,413	48.68%
12/31/2024	77,234,872	59,697,606	(17,537,266)	168,925,363	35.34%

Notes to the Required Supplementary Information:

Actuarial Cost Method	Entry Age Normal
Amortization Method	Level Percentage of Payroll
Remaining Amortization Period	18 years (Closed Period)
Asset Valuation Method	5-year Smoothed Fair Value
Inflation	2.50%
Salary Increases	2.75% to 20% based on Service
Investment Rate of Return	7.00%, net of pension plan investment expense, including inflation
Retirement Age	Age and Service Related
Mortality	PubG-2010 projected by MP-2021

Schedule of Changes in the Employer's Net Pension Liability - Last Ten Fiscal Years
December 31, 2024

	12/31/2015	12/31/2016	12/31/2017
Total Pension Liability			
Service Cost	$ 13,417,795	13,763,768	20,115,813
Interest	65,921,805	66,523,889	68,982,467
Changes in Benefit Terms	—	93,579,710	36,183,940
Differences Between Expected and Actual Experience	682,159	(4,556,757)	2,785,815
Change of Assumptions	—	198,725,863	370,422,560
Benefit Payments, Including Refunds of Member Contributions	(70,602,016)	(74,077,877)	(78,138,027)
Net Change in Total Pension Liability	9,419,743	293,958,596	420,352,568
Total Pension Liability - Beginning	900,840,617	910,260,360	1,204,218,956
Total Pension Liability - Ending	910,260,360	1,204,218,956	1,624,571,524
Plan Fiduciary Net Position			
Contributions - Employer	$ 30,588,976	30,890,241	20,920,614
Contributions - Members	12,368,636	12,246,115	13,675,292
Net Investment Income	8,823,613	30,920,231	51,082,314
Benefit Payments, Including Refunds of Member Contributions	(70,602,016)	(74,077,877)	(78,138,027)
Administrative Expenses	(1,445,587)	(1,435,126)	(1,590,357)
Net Change in Plan Fiduciary Net Position	(20,266,378)	(1,456,416)	5,949,836
Plan Net Position - Beginning	413,421,716	393,155,338	391,698,922
Plan Net Position - Ending	393,155,338	391,698,922	397,648,758
Employer's Net Pension Liability	$ 517,105,022	812,520,034	1,226,922,766
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	43.19%	32.53%	24.48%
Covered Payroll	$ 122,382,584	121,126,918	135,315,008
Employer's Net Pension Liability as a Percentage of Covered Payroll	422.53%	670.80%	906.72%

12/31/2018	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023	12/31/2024
38,102,341	33,317,058	51,348,187	60,952,502	17,019,445	18,511,656	20,670,693
59,290,982	69,086,515	58,440,058	51,017,625	86,100,373	87,140,419	87,323,304
—	—	—	—	960,812	—	—
5,001,084	15,529,818	(2,309,221)	846,816	2,969,970	5,708,342	15,623,671
(3,471,090)	359,734,367	203,245,789	(1,097,662,261)	32,814,430	(25,248,075)	—
(76,526,820)	(78,550,449)	(79,370,008)	(80,602,844)	(82,840,120)	(85,330,825)	(85,986,685)
22,396,497	399,117,309	231,354,805	(1,065,448,162)	57,024,910	781,517	37,630,983
1,624,571,524	1,646,968,021	2,046,085,330	2,277,440,135	1,211,991,973	1,269,016,883	1,269,798,400
1,646,968,021	2,046,085,330	2,277,440,135	1,211,991,973	1,269,016,883	1,269,798,400	1,307,429,383
27,638,402	27,682,089	33,939,927	83,349,261	67,128,978	70,405,922	59,697,606
12,125,457	12,664,855	12,634,900	12,226,998	12,669,678	13,800,598	16,465,467
(17,196,812)	51,982,545	28,071,327	53,089,102	(43,796,274)	37,104,806	30,283,624
(76,526,820)	(78,550,449)	(79,370,008)	(80,602,844)	(82,840,120)	(85,330,825)	(85,986,685)
(1,433,112)	(1,478,625)	(1,537,919)	(1,698,382)	(1,975,464)	(2,202,553)	(2,105,414)
(55,392,885)	12,300,415	(6,261,773)	66,364,135	(48,813,202)	33,777,948	18,354,598
397,648,758	342,255,873	354,556,288	348,294,515	414,658,650	365,845,448	399,623,396
342,255,873	354,556,288	348,294,515	414,658,650	365,845,448	399,623,396	417,977,994
1,304,712,148	1,691,529,042	1,929,145,620	797,333,323	903,171,435	870,175,004	889,451,389
20.78%	17.33%	15.29%	34.21%	28.83%	31.47%	31.97%
133,112,100	139,204,051	138,942,498	134,515,373	136,917,648	144,629,413	168,925,363
980.16%	1215.14%	1388.45%	592.75%	659.65%	601.66%	526.54%

Schedule of Investment Returns - Last Ten Fiscal Years
December 31, 2024

Fiscal Year	Annual Money-Weighted Rate of Return, Net of Investment Expense
2015	5.61%
2016	5.77%
2017	5.58%
2018	(5.10%)
2019	17.00%
2020	9.30%
2021	14.60%
2022	(10.90%)
2023	11.30%
2024	7.40%

OTHER SUPPLEMENTARY INFORMATION

Schedule of Tax Levies Receivable
December 31, 2024

Levy Year	Tax Levy	Collections	Tax Levies Receivable	Allowance for Uncollectible Taxes	Net Tax Levies Receivable
2024	$ 25,000,000	—	25,000,000	—	25,000,000
2023	25,000,000	—	25,000,000	—	25,000,000

Schedule of Administrative and General Expenses
December 31, 2024

	2024	2023
Actuary Expense	$ 52,625	81,288
Auditing	31,425	30,510
IT Consultant	41,107	35,171
Conference and Meeting Expense	31,588	29,618
Depreciation	148,324	149,341
Equipment Rental	21,984	21,590
Filing Fee - State of Illinois	8,000	8,000
File Storage Expense	31,185	24,005
Hospitalization	130,205	114,280
Legal	66,488	76,703
Legislative Consultant	38,000	38,000
Office Supplies and Expenses	39,440	35,544
Postage	4,352	5,109
Insurance - Surety Bond and Other	28,614	26,208
Office Relocation Expense	2,285	3,425
Salaries	917,878	853,561
Payroll Tax	12,830	11,952
Bank Fees	26,644	21,406
Telephone	18,125	17,938
Transportation	890	826
Trustees' Election Expense	20,992	2,950
Interest Expense - Lease	28,210	30,861
Professional Fees	404,478	584,492
Medical Fees	117	—
	2,105,786	2,202,778

Schedule of Professional Expenses
December 31, 2024

	2024	2023
Legal	$ 66,488	76,703
Actuary Expense	52,625	81,288
Auditing	31,425	30,510
IT Consultant	41,107	35,171
Legislative Consultant	38,000	38,000
Professional Fees	404,478	584,492
	634,123	846,164

Schedule of Investment Expenses
December 31, 2024

	2024	2023
U.S. Equity		
Great Lakes Advisors, LLC	$ 54,479	52,899
Ariel Investments	198,893	170,522
Northern Trust Quantitative Advisors	10,168	10,544
	263,540	233,965
Non U.S. Equity		
Ativo Capital	—	7,778
LSV Asset Management	88,149	—
William Blair	163,005	—
Northern Trust Quantitative Advisors	28,432	15,642
	279,586	23,420
Fixed Income		
LM Capital Group, LLC	15,304	35,885
National Investment Services	40,311	38,048
Garcia Hamilton	46,268	—
Loop Capital	20,495	—
ULLICO Investment Company	—	—
	122,378	73,933
Hedged Equity		
DG Partners	45,175	—
Parametric	9,149	101,981
	54,324	101,981
Real Estate		
Principal Global Investors	179,962	202,725
UBS Realty Investors, LLC (Trumbull)	64,467	74,847
	244,429	277,572

Schedule of Investment Expenses
December 31, 2024

		2024	2023
Private Equity			
HarbourVest Partners, LLC	$	75,000	75,000
Mesirow Financial Capital Partners		68,885	104,257
Entrust Global		29,837	28,211
		173,722	207,468
Private Debt			
PIMCO		175,529	—
Infrastructure			
ULLICO Infrastructure		510,986	488,624
IFM Global Infra (US) L.P.		165,410	158,388
		676,396	647,012
Other			
Custody, Northern Trust Co.		70,000	70,000
Investment consultant		120,000	120,000
		190,000	190,000
Total		2,179,904	1,755,351

INVESTMENT SECTION

INTRODUCTION

The Fund is authorized to invest in bonds, notes, and other obligations of the U.S. Government; corporate debentures and obligations; insured mortgage notes and loans; common and preferred stocks; stock options; real estate; collective investment funds; and private equity partnerships as set forth in the Illinois Compiled Statutes. Income on all investments is recognized on the accrual basis. Gains and losses on sales and exchanges of investments are recognized on the transaction date of such sale or exchange. Dividend income is recognized based on dividends declared. Investments are reported at fair value. Short term investments are reported at cost, which approximates fair value. Fair value for bonds and stocks are determined by quoted market prices and for investments for which market quotations are not readily available are valued at their fair values as determined by a bank administrator under the direction of the Board of Trustees, with the assistance of a valuation service.

The Investment Section was prepared by staff with assistance from Meketa Investment Group, the Fund's investment consultant and Northern Trust Company, the Fund's custodian. Return calculations were prepared using a time-weighted rate of return methodology in accordance with the performance presentation standards of the CFA Institute.

Investment Recap

Market Environment

The U.S. stock market increased by 23.8% during the year ending December 31, 2024 (fiscal year), as measured by the Russell 3000 Index. Within the U.S. stock market, there was some differentiation in returns between large-cap, mid-cap, and small-cap stocks over the year, with returns of 24.5%, 15.3%, and 11.5% for the Russell 1000, Russell Mid-Cap and Russell 2000 respectively. Growth stocks outperformed value stocks across the market cap spectrum in 2024, which was more pronounced in the large cap space.

Over the 2024 calendar year, international equities significantly trailed US equities, with the S&P 500 returning 25.0% for the year, compared to the MSCI FAFE at 3.8%. Emerging markets delivered 7.5% as measured by the MSCI EM index. The MSCI China index returned 19.4%. China appears to have shifted focus to more policy support for the economy/asset prices with a suite of fiscal and financial policy stimulus measures.

Within fixed income, the Bloomberg TIPS index returned 1.8% over the full year, while the Bloomberg Aggregate index returned 1.3%. The yield curve was no longer inverted (short-term interest rates higher than long-term interest rates) at year-end given expectations for the Fed to continue to reduce rates and resilient economic growth and persistent inflation.

Performance Commentary

The Pension Fund posted a calendar year return of 7.4%, net of fees, outperforming the Fund's assumed rate of return but underperforming the custom benchmark by 3.1%. In absolute terms, the best performing asset class for the year was U.S. Equity, which returned 20.0%, net of fees. The worst performing asset class for the year was Real Estate and investment grade bonds, which returned -0.3% and -0.9%, respectively net of fees.

The Fund posted a three-year annualized return of 1.9%, net of fees, underperforming the custom benchmark by 2.1%. On a five-year basis, the Fund returned 6.0%, net of fees, 2.0% below the custom benchmark. On a ten-year basis, the Fund returned 6.5%.

The Fund's risk mitigating strategies declined by 0.2% in 2024. The Fund's U.S. Equity portfolio returned 20.0%, net of fees, over that period, underperforming Russell 3000 Index by 3.8%. The underperformance of the U.S.

Performance Commentary - Continued

Equity portfolio was the result of a value bias within the large cap portfolio which was neutralized in the fourth quarter. At the end of the year, the Fund's U.S. stock market assets comprised 29.5% of the total Fund's assets.

The international stock market, as measured by the MSCI ACWI ex US Index, returned 5.5% during the year. The Fund's International Developed Equity portfolio returned 2.9%, net of fees, over that period, while emerging market equities gained 6.2%. At the end of the year, the Fund's international equity assets comprised 18.8% of the total Fund's assets.

The real estate market, as measured by the NCREIF ODCE Index, returned -2.4% during the year. The Fund's real estate portfolio returned -0.3%, net of fees, over that period. At the end of the year, the Fund's real estate assets comprised 6.0% of the total Fund's assets.

Summary of Investments
December 31, 2024

	December 31, 2024				December 31, 2023			
Type of Investment	Fair Value	%	Book Value	%	Fair Value	%	Book Value	%
Fixed Income	$ 66,597,674	17%	$ 67,502,351	22%	$ 24,317,437	7%	$ 25,819,580	9%
Domestic Equities	100,549,634	26%	61,947,686	20%	114,739,056	31%	65,931,521	24%
International Equities	52,173,626	14%	41,393,653	13%	42,885,459	12%	32,023,971	12%
Collective Investments	40,395,805	10%	39,460,832	13%	45,760,105	12%	46,388,268	17%
Hedged Equity	4,526,838	1%	5,000,000	2%	31,367,942	9%	18,700,000	7%
Private Equity	19,391,160	5%	21,726,352	7%	20,812,388	6%	24,336,513	9%
Private Debt	20,350,883	5%	20,000,000	6%	—	—%	—	—
Real Estate	23,374,665	6%	15,079,542	5%	24,376,061	7%	15,135,332	6%
Infrastructure	55,888,209	14%	33,880,582	11%	52,928,055	14%	35,075,677	13%
Short-term	2,236,032	1%	2,236,032	1%	11,624,191	3%	11,624,191	4%
Total Assets	385,484,526	100 %	308,227,030	100 %	368,810,694	100%	275,035,053	100%

Statement of Investment Policy
December 31, 2024

The purpose of this statement is to establish the investment policy for the management of the assets of the Park Employees' Annuity and Benefit Fund.

Distinction of Responsibilities

The Trustees are responsible for establishing the investment policy that is to guide the investment of Fund assets. The target allocation that the Trustees deem appropriate for the Fund is displayed below. The Fund's investments are distributed to a number of asset classes to minimize investment risk through diversification and simultaneously provide enhanced investment performance. The Trustees review the investment policy every three to five years.

Investment managers appointed by the Trustees to execute the policy will invest Fund assets in accordance with established guidelines but will apply their own judgments concerning relative investment values. In particular, the investment managers are accorded full discretion, within established guidelines and policy limits, to select individual investments and diversify their portfolios.

Allocation of Assets

It is the Trustees' policy to invest the Fund's assets in the following proportions:

	Board Approved Policy		
Asset Category	Target (%)	Range (%)	
U.S. Equity	24.0	18.0	30.0
Developed Market Equity	18.0	12.0	24.0
Emerging Markets Equity	6.0	1.0	10.0
Private Equity	7.0	5.0	10.0
Private Debt	5.0	0.0	10.0
Real Estate	10.0	6.0	16.0
Infrastructure	8.0	4.0	12.0
Short-term TIPS	4.0	0.0	8.0
Short-term IGB	5.0	0.0	8.0
Investment Grade Bonds	7.0	2.0	12.0
Long-term Gov Bonds	3.0	0.0	6.0
Risk Mitigating HFs	3.0	0.0	6.0
Cash Equivalents	0.0	0.0	5.0
	100.0		

Normal cash flows (contributions and benefit payments) will be used to maintain the allocation as close as practical to the target allocation. If normal cash flows are insufficient to maintain the allocation within the permissible range as of any calendar quarter-end, the Trustees shall transfer balances as necessary between the asset types to bring the allocation back within the permissible ranges.

Diversification

The portfolio is to be diversified within each asset class to reduce the impact of large losses in individual investments in a manner that is consistent with Retirement Board policy, and otherwise at the discretion of each investment manager.

Liquidity

The cash flow needs of the Fund are approximately 15% of the total Fund assets annually.

Individual Investment Management Performance Benchmark

Individual performance benchmarks will be established by the Board of Trustees and used to evaluate individual manager's performance.

Investment Objective

The investment objective of the Fund is to equal or exceed the rate of return of a benchmark comprised of 24% Russell 3000 Index, 7% Blmbg. U.S. Aggregate Index, 3% Blmbg. U.S. Government: Long Term Bond Index, 18% MSCI EAFE (Net), 5% Blmbg. U.S. Aggregate 1-3 Yrs, 10 NCREIF ODCE Equal Weighted (Net), 4% Blmbg. U.S. TIPS 1-5 Year Index, 6% MSCI Emerging Markets (Net), 3% CBOE BXM, 7% Russell 3000 +2%, 8% DJ Brookfield Listed Public Infrastructure +1%, and 5% Credit Suisse Leveraged Loans +1%.

Schedule of Investment Performance
December 31, 2024

Schedule of Investment Performance

	Years ended December 31, 2024 - 2019						Year ended December 31, 2024		
	12/31/24	12/31/23	12/31/22	12/31/21	12/31/20	12/31/19	3 Years	5 Years	10 Years
Total Fund	7.4%	10.6%	-10.9%	14.8%	10.1%	17.2%	1.9%	6.0%	6.5%
Benchmark Portfolio	10.5	12.4	-9.4	14.3	14.3	16.8	4.0	8.0	7.3
Public Funds Median Return	10.8	13.3	-13.9	13.9	13.1	19.4	2.6	6.9	7.0
Actuarial Assumed Rate of	7.0	7.0	7.3	7.3	7.3	7.3	7.1	7.2	7.3
Consumer Price Index	2.9	3.4	6.5	7.0	1.4	2.3	4.2	4.2	3.0
Fixed Income	-0.9%	6.8%	-12.9%	-1.2%	9.3%	7.7%	-2.4%	0.1%	1.6%
Bloomberg US Aggregate	1.3	5.5	-13.0	-1.5	7.5	8.7	-2.4	-0.3	1.3
Universe Median	1.6	5.9	-11.5	-0.9	7.7	8.9	-2.2	0.0	1.6
U.S. Equities	20.0%	20.2%	-16.4%	27.5%	14.3%	28.8%	6.4%	11.9	10.4
Russell 3000	23.8	26.0	-19.2	25.7	20.9	31.0	8.0	13.9	12.5
Universe Median	19.1	20.1	-17.4	25.7	17.6	29.9	7.0	12.1	11.1
Non-U.S. Equities	3.5%	14.3%	-22.2%	9.7%	12.3%	24.2%	-2.7%	2.5%	4.3%
MSCI ACWI Ex US	3.3	15.6	-16.0	7.8	10.7	21.5	-2.8	1.9	3.5
Universe Median	4.6	16.6	-17.4	7.7	12.2	22.8	0.0	4.3	5.4
RMS/Hedged Equities	N/A	16.9%	-7.7%	17.7%	4.6%	16.3%	N/A	N/A	N/A
HFRX Hedged Equity	N/A	6.9	-3.2	12.1	4.6	10.7	N/A	N/A	N/A
Universe Median	N/A	n/a	-6.0	8.4	7.9	7.7	N/A	N/A	N/A
Risk Parity	N/A	n/a	n/a	n/a	n/a	n/a	N/A	N/A	N/A
60% MSCI World/40% BarCap Agg	N/A	n/a	n/a	n/a	n/a	n/a	N/A	N/A	N/A
Real Estate	-0.3%	-12.5%	5.2%	17.9%	-1.2%	3.1%	-2.8%	1.8%	4.8%
NCREIF-ODCE	-2.4	-13.3	7.6	21.0	0.3	4.4	-3.1	2.2	5.2
Universe Median	3.5	9.4	6.8	20.4	0.5	5.1	7.1	6.5	4.7
Infrastructure	6.8%	9.8%	5.4%	13.2%	1.0%	10.9%	7.3%	7.2%	N/A
CPI+3%	6.0	6.5	9.6	10.2	4.4	5.3	7.3	7.3	6.1
Private Equity	1.4%	6.5%	-12.8%	34.8%	22.3%	9.8%	-2.0%	9.1%	9.2%
Prequin Real Time	6.9	7.2	-1.7	38.1	25.6	15.2	4.0	14.3	13.8

NOTE: The basis for the calculations is a time-weighted rate of return based on the market rate of return.

As of April 1, 2023, the Policy Benchmark consists of 24% Russell 3000 Index, 7% Blmbg. U.S. Aggregate Index, 3% Blmbg. U.S. Government: Long Term Bond Index, 18% MSCI EAFE (Net), 5% Blmbg. U.S. Aggregate 1-3 Yrs, 10 NCREIF ODCE Equal Weighted (Net), 4% Blmbg. U.S. TIPS 1-5 Year Index, 6% MSCI Emerging Markets (Net), 3% CBOE BXM, 7% Russell 3000 +2%, 8% DJ Brookfield Listed Public Infrastructure +1%, and 5% Credit Suisse Leveraged Loans +1%. Prior to April 1, 2023, the Policy Benchmark consists of 24% Russell 3000 Index, 18% MSCI EAFE Index, 6% MSCI Emerging Markets, 7% Prequin Real Time Index, 5% Credit Suisse Leveraged Loans Index, 10% NCREIF ODCE Equal Weighted (Net) Index, 8% CPI + 3%, 4% Bloomberg US TIPS 1-5 Year Index, 7% Bloomberg US Aggregate Index, 5% Bloomberg US Aggregate 1-3 Year Index, 3% Bloomberg US Government Long Treasuries, and 3% CBOE BXM Index. Prior to June 1, 2022, the Policy Benchmark consists of 28.5% Dow Jones U.S. Total Stock Market Index, 20% MSCI All Country World Ex-US Index, 17.5% BarCap Aggregate Index, 7% Prequin Private Equity 1Q Lagged Index, 7% HFRX Hedged Equity Index, 10% NCREIF ODCE Index, and 10% CPI+4%. Prior to February 1, 2019, the Policy Benchmark consisted of 28.5% Wilshire 5000 Stock Index, 20% MSCI All Country World Ex-US Index, 25.5% BarCap Aggregate Index, 7% Venture Economics All Private Equity Index, 10% HFRX Hedged Equity Index, and 9% NCREIF ODCE Index. Prior to August 1, 2016, the Policy Benchmark consisted of 32.5% Wilshire 5000 Stock Index, 16% MSCI All Country World Ex-US Index, 25.5% BarCap Aggregate Index, 7% Venture Economics All Private Equity Index, 10% HFRX Hedged Equity Index, and 9% NCREIF ODCE Index. Prior to December 1, 2013, the Policy Benchmark consisted of 27% BarCap Aggregate, 27% Wilshire 5000, 17% MSCI ACWI ex U.S., 12% NCREIF ODCE, 10% HFRX Hedged Equity, and 7% Venture Economics All Private Equity Index. Prior to April 1, 2011, the Policy Benchmark consists of 35% BarCap Aggregate, 38% Wilshire 5000, 12% MSCI ACWI ex U.S., 10% NCREIF Property Index, and 5% Venture Economics All Private Equity Index. Prior to February 29, 2008, the Policy Benchmark consisted of 35% BarCap Aggregate, 38% Wilshire 5000, 12% MSCI EAFE, 10% NCREIF Property Index, and 5% Venture Economics All Private Equity Index.

Schedule of Ten Largest Stock and Bond Holdings
December 31, 2024

U.S. Stocks*

Shares	Holdings	Fair Value
135,772	Apple Inc	$ 34,000,122
220,314	Nvidia Corp	29,585,953
66,776	Microsoft Corp	28,145,909
84,061	Amazon	18,442,053
95,222	Alphabet Inc	18,074,207
19,579	Meta Platforms Inc	11,463,604
25,084	Tesla Inc	10,129,846
41,948	Broadcom Inc	9,725,333
16,460	Berkshire Hathaway Inc	7,461,157
25,281	JP Morgan Chase & Co	6,060,203

International Stocks*

Shares	Holdings	Fair Value
1,042,197	Taiwan Semiconductor Manufacturing	$ 34,274,551
274,832	Tencent Hldgs Limited LTD	14,753,573
16,909	ASML Holding NV Euro.09	11,924,775
136,256	Novo Nordisk	11,855,912
44,150	SAP	10,870,076
110,737	Nestle	9,403,067
8,879,472	NT Collective Short Term	8,917,980
29,778	Roche Holdings	8,604,832
65,598	Astrazeneca	8,600,031
434,155	Toyota Motor Corp	8,568,259

Bonds*

Holdings	Fair Value
United States Treasury Notes Coupon 4%	$ 144,618
United Stated Treasury Notes Coupon 4.375%	116,779
U.S Treasury Inflation Protected Security 2.5%	80,104
U.S Treasury Inflation Protected Security 0.375%	79,028
U.S Treasury Inflation Protected Security 0.5%	78,842
U.S Treasury Inflation Protected Security 1.625%	77,379
U.S Treasury Inflation Protected Security 3.625%	75,293
U.S Treasury Inflation Protected Security 2.375%	72,591
United States Treasury Notes Coupon 3.75%	46,712
U.S Treasury Inflation Protected Security 0.25%	44,793

*A complete listing of all individual securities held is available for review upon request.

Schedule of Investment Brokerage Commissions
December 31, 2024

Broker Name	Shares*	Commission	Cost per Share
Loop Capital Markets LLC	161,156	$ 3,580	$ 0.02
Academy Securities Inc	114,745	2,295	0.02
Cabrera Capital Markets LLC	86,686	2,115	0.02
Pershing Limited	325,175	1,626	0.01
Bancroft Capital LLC	63,296	1266	0.02
Penserra Securities LLC	55,809	1116	0.02
CastleOak Sec/Cantor Clearing	39,308	786	0.02
Williams Capital Group LP	34,486	690	0.02
Broker commissions under $500	65,505	688	0.01
Total Broker Commissions	946,166	14,162	

*A complete listing of investment fees can be found in the Supplemental Information, Schedule of Investment Expenses

ACTUARIAL

Park Employees' Annuity and Benefit Fund of Chicago

Actuarial Valuation and Review as of December 31, 2024

Segal

Segal

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May 30, 2025

Board of Trustees
Park Employees' Annuity and Benefit Fund of Chicago
3500 S. Morgan St. Suite 400
Chicago, Illinois 60609

Dear Board Members:

We are pleased to submit this Actuarial Valuation and Review as of December 31, 2024. It summarizes the actuarial data used in the valuation, analyzes the preceding year's experience, and establishes the net pension liability under Governmental Accounting Standards Board (GASB) Statement No. 67 and the funding requirements for the fiscal year ending December 31, 2025.

This report has been prepared in accordance with generally accepted actuarial principles and practices at the request of the Board to assist in administering the Park Employees' Annuity and Benefit Fund of Chicago (the Fund).

Asset and Membership Data

The census information and financial information on which our calculations were based was prepared by the Fund staff. That assistance is gratefully acknowledged. Segal does not audit the data provided. The accuracy and comprehensiveness of the data is the responsibility of those supplying the data. To the extent we can, however, Segal does review the data for reasonableness and consistency. Based on our review of the data, we have no reason to doubt the substantial accuracy of the information on which we have based this report and we have no reason to believe there are facts or circumstances that would affect the validity of these results.

Plan Changes

The plan provisions are unchanged since the last actuarial valuation.

Actuarial Assumptions and Methods

The actuarial assumptions and methods are set by the Board of Trustees, based upon recommendations made by the Fund's actuary. The assumptions and methods used for the December 31, 2024, actuarial valuation were based on an experience analysis covering the five-year period ending December 31, 2022, and were adopted by the Board, effective for the December 31, 2023, valuation. These actuarial assumptions and methods comply with the parameters set by the Actuarial Standards of Practice for funding purposes and the parameters for disclosure in GASB Statement No. 67. The investment return assumption is based on the Fund being invested according to the target asset allocation in the Investment Policy Statement. To the extent that the liquidation of assets to pay benefit payments and expenses requires a shift in investment allocation to more liquid, lower return asset classes, a lower discount rate may be required in the future.

Funding Adequacy

The current funding policy of the Fund, adopted by the Board, is to have contributions sufficient to amortize the unfunded actuarial accrued liability over the 30-year period ending December 31, 2042. However, the actual amount of employer contributions each year is set by statute. P.A. 102-0263 also included provisions that updated the method and amount of employer contributions. Under P.A. 102-0263, employer contributions are now the sum of employer normal cost plus a 35-year closed-period amortization of the unfunded actuarial accrued liability as of December 31, 2024.

This report includes the following schedules for the Actuarial and Financial sections of the Annual Comprehensive Financial Report, which were prepared by Segal:

- Actuarial
  - Active Member Valuation Data
  - Retirees and Beneficiaries Added to and Removed from Rolls
  - Solvency Test
  - Analysis of Financial Experience
- Financial
  - Schedule of Changes in Employer's Net Pension Liability
  - Schedule of Employer's Net Pension Liability
  - Schedule of Employer Contributions

Limitation of Actuarial Measurements

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; 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.

Qualifications

The actuarial calculations were directed under my supervision. I am a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of my knowledge, the information supplied in this actuarial valuation is complete and accurate. The assumptions used in this actuarial valuation were selected by the Board based upon my analysis and recommendations. In my opinion, the assumptions are reasonable and take into account the experience of the Fund and reasonable expectations. In addition, in my opinion, the combined effect of these assumptions is expected to have no significant bias.

Segal makes no representation or warranty as to the future status of the Fund and does not guarantee any particular result. This document does not constitute legal, tax, accounting or investment advice or create or imply a fiduciary relationship. The Board is encouraged to discuss any issues raised in this report with the Fund's legal, tax and other advisors before taking, or refraining from taking, any action.

We look forward to reviewing this report at your next meeting and to answering any questions.

Sincerely,

Matthew A. Strom

Matthew A. Strom, FSA, MAAA, EA
Senior Vice President and Actuary

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Section 1: Actuarial Valuation Summary

Purpose and basis

This report has been prepared by Segal to present a valuation of the Park Employees' Annuity and Benefit Fund of Chicago (the Fund) as of December 31, 2024. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits and to provide information for required disclosures under Governmental Accounting Standards Board (GASB) Statement No. 67.

The contribution requirements presented in this report are based on:

- The benefit provisions of the Fund, as outlined in 40 ILCS 5/12, as administered by the Board;
- The characteristics of covered active members, inactive members, and retired members and beneficiaries as of December 31, 2024, provided by the Fund staff;
- The assets of the Fund as of December 31, 2024, provided by the Fund staff;
- Economic assumptions regarding future salary increases and investment earnings;
- Other actuarial assumptions regarding employee terminations, retirement, death, etc.

Valuation highlights

- Segal strongly recommends an actuarial funding method that targets 100% funding of the actuarial accrued liability. Generally, this implies payments that are ultimately at least enough to cover normal cost, interest on the unfunded actuarial accrued liability and the principal balance. Under the employer contribution provisions contained in P.A. 102-0263, the Fund is now projected to remain solvent and reach a goal of 100% funding by 2057. A 40-year projection of the Fund's financial status is shown in Exhibit L.
- Employer contributions to the Fund are mandated by statute and target 100% funding of the total actuarial accrued liability of the Fund over the 35-year period ending December 31, 2057. The Board's funding policy used to develop an actuarially determined contribution (ADC) is calculated on a level percentage of pay basis and is based on a closed 30-year period, which ends on December 31, 2042. For the fiscal year beginning December 31, 2024, the ADC based on the Board's funding policy is $83,030,259. Based on the employer contributions set in statue, the employer has budgeted $59,679,376, for the fiscal year beginning December 31, 2024. Compared to the ADC, the contribution deficiency is $23,350,883.
- We have calculated the statutorily-required employer contribution for the fiscal year beginning December 31, 2025, to be $63,332,412.
- The total normal cost as of December 31, 2024 increased 18.4% since the last valuation from $20,670,693 to $24,474,160. This increase is attributed to demographic changes in the active population. In this year's valuation, there are 3,270 active members with an average salary of $52,357 compared to 3,027 in the prior valuation with an average salary of $48,720. In aggregate, the total salary supplied by the fund increased by 16.1% from $147,475,826 to $171,207,015.
- For the year ended December 31, 2024, Segal has determined that the asset return on a fair value basis was 7.7%. After gradual recognition of investment gains and losses under the actuarial smoothing method, the actuarial rate of return was 5.6%. This represents an experience loss when compared to the assumed rate of 7.00% that was in effect for the year ending December 31, 2024. As of December 31, 2024, the actuarial value of assets ($434.7 million) represents 104.0% of the fair value ($418.0 million).
- The portion of deferred investment gains and losses recognized in the calculation of the December 31, 2024, actuarial value of assets resulted in a loss of $5,915,752. Additionally, the non-investment experience resulted in a $15,185,356 net loss.
- As indicated in Section 2 of this report, the total unrecognized investment loss as of December 31, 2024, is $16,719,787. This investment loss will be recognized in the determination of the actuarial value of assets for funding purposes in the next several years, to the extent it is not offset by recognition of investment gains derived from future experience. This implies that earning the assumed rate of investment return of 7.00% per year (net of investment expenses) on a fair value basis will result in investment losses on the actuarial value of assets in the next several years.
- As mentioned above, the current method used to determine the actuarial value of assets yields an amount that is 104.0% of the fair value of assets as of December 31, 2024. Guidelines in Actuarial Standard of Practice No. 44 (Selection and Use of Asset

Valuation Methods for Pension Valuations) recommend that asset values fall within a reasonable range around the corresponding fair value. We believe the actuarial asset method currently complies with these guidelines.

- This actuarial report as of December 31, 2024, is based on financial data as of that date. Changes in the value of assets subsequent to that date are not reflected. Decreases in asset values will increase the cost of the plan, while increases in asset values (in excess of expected) will decrease the cost of the plan.

Changes from prior valuation

- The actuarial accrued liability is calculated under the entry age normal actuarial cost method. Under this method, a normal cost is calculated for each participant that is the level annual contribution as a percent of pay required to be made from the participant's date of hire for as long as he/she remains active. In prior valuations, the participant's provided date of hire was used to determine the participant's Plan entry date. This method has been updated and now the participant's date of hire is determined as the valuation date less years of service. This new method results in more consistent normal cost calculations for actives from year to year, since the census data received annually for the actuarial valuation, at times, can include a changed date of hire for active members leading to significant difference in the assumed working lifetime of the participant one valuation to the next. As a result of this change, accrued liability increased by 0.3% and normal cost decreased by 2.7%.
- The funded ratio (the ratio of the actuarial value of assets to actuarial accrued liability) is 33.2%, compared to the prior year funded ratio of 33.3%. This ratio is one measure of funded status, and its history is a measure of funding progress. Using the fair value of assets, the funded ratio is 31.9%, compared to 31.5% as of the prior valuation date. These measurements are not necessarily appropriate for assessing the sufficiency of the Fund assets to cover the estimated cost of settling the Fund's benefit obligation or the need for or the amount of future contributions.
- The unfunded actuarial accrued liability is $872,731,602, which is an increase of $26,260,374 since the prior valuation.

Risk

- It is important to note that this actuarial valuation is based on plan assets as of December 31, 2024. The Fund's funded status does not reflect short-term fluctuations of the market, but rather is based on the fair value on the last day of the plan year. Moreover, this actuarial valuation does not include any possible short-term or long-term deviations of demographic experience of the covered population that may emerge after December 31, 2024. Segal is available to prepare projections of potential outcomes of market conditions and other demographic experience upon request.

- Since the actuarial valuation results are dependent on a given set of assumptions, there is a risk that emerging results may differ significantly as actual experience proves to be different from the assumptions. We have not been engaged to perform a detailed analysis of the potential range of the impact of risk relative to the Fund's future financial condition but have included a brief discussion of some risks that may affect the Plan in Section 2. A more detailed assessment would provide the Board with a better understanding of the inherent risks and could be important for the Fund.

GASB

- When measuring pension liability for GASB purposes, the same actuarial cost method (Entry Age method) that is used for funding purposes is used to determine the Total Pension Liability. In large part due to the funding changes included in P.A. 102-0263, as of December 31, 2024, the GASB blended discount rate calculation results in the same discount rate (7.00%) as used for plan funding purposes. This means that the Total Pension Liability (TPL) measure for financial reporting shown in this report will not differ from the actuarial accrued liability (AAL) measure for funding. We note that the same is true for the normal cost component of the annual plan cost for funding and financial reporting.
- This report constitutes an actuarial valuation for the purpose of determining the ADC under the Fund's funding policy. The information contained in Section 5 provides the accounting information for Governmental Accounting Standards Board (GASB) Statement No. 67, for inclusion in the Plan's and employer's financial statements as of December 31, 2024. The pension expense under GASB Statement No. 68, for inclusion in the Plan's and employer's financial statements as of December 31, 2024, will be provided separately.
- The Net Pension Liability (NPL) is equal to the difference between the TPL and the Plan's fiduciary net position. The Fund's fiduciary net position is equal to the fair value of assets. The NPL as of December 31, 2024, is $889,451,389, compared to the NPL as of December 31, 2023, of $870,175,004; both measures were based on a discount rate of 7.00%.

Summary of key valuation results

Valuation Result	Current	Prior
Contributions for fiscal year beginning:	**December 31, 2024**	**December 31, 2023**
• Expected employer contributions provided by the Fund	$59,679,376	$59,697,606
• Actuarially determined contributions	83,030,259	77,234,872
• Expected employer contributions for the upcoming year	63,332,412	59,679,376
• Actual employer contributions	—	59,697,606
Actuarial accrued liability for fiscal year beginning:		
• Retired members and beneficiaries	$846,419,215	$837,252,527
• Inactive members	44,828,796	39,479,897
• Active members	416,181,371	393,065,976
• **Total**	**$1,307,429,382**	**$1,269,798,400**
• Total normal cost, including administrative expenses	26,588,298	22,881,372
• Employer normal cost, including administrative expenses	9,139,191	8,076,288
Assets for plan year beginning:		
• Fair value of assets (FVA)	$417,977,993	$399,623,396
• Actuarial value of assets (AVA)	434,697,780	423,327,172
• AVA as a percentage of FVA	104.00%	105.93%
Funded status for plan year beginning:		
• Unfunded actuarial accrued liability on FVA basis	$889,451,389	$870,175,004
• Funded percentage on FVA basis	31.97%	31.47%
• Unfunded actuarial accrued liability on AVA basis	$872,731,602	$846,471,228
• Funded percentage on AVA basis	33.25%	33.34%
• Effective Amortization period	18	19

Section 1: Actuarial Valuation Summary

Valuation Result	Current	Prior
Key assumptions:		
• Long-term expected rate of return	7.00%	7.00%
• Inflation rate	2.50%	2.50%
GASB information:		
• Discount rate	7.00%	7.00%
• Municipal bond index	4.08%	3.26%
• Single equivalent discount rate	7.00%	7.00%
• Total Pension Liability	$1,307,429,382	$1,269,798,400
• Plan Fiduciary Net Position	417,977,993	399,623,396
• Net Pension Liability	889,451,389	870,175,004
• Plan Fiduciary Net Position as a percentage of Total Pension Liability	31.97%	31.47%
Demographic data for plan year beginning:		
• Number of retired members and beneficiaries	2,705	2,730
• Number of inactive vested members	201	187
• Number of inactive members due a refund of employee contributions	5,378	5,237
• Number of active members	3,270	3,027
• Total salary supplied by the Fund	$171,207,015	$147,475,826
• Average salary	52,357	48,720

Important information about actuarial valuations

An actuarial valuation is a budgeting tool with respect to the financing of future projected obligations of a pension plan. It is an estimated forecast – the actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

In order to prepare a valuation, Segal relies on a number of input items. These include:

Input Item	Description
Plan provisions	Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
Member information	An actuarial valuation for a plan is based on data provided to the actuary by the Fund staff. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
Financial information	Part of the cost of a plan will be paid from existing assets — the balance will need to come from future contributions and investment income. The valuation is based on the asset values as of the valuation date, typically reported by the Fund staff. A snapshot as of a single date may not be an appropriate value for determining a single year's contribution requirement, especially in volatile markets. The Fund staff uses an "actuarial value of assets" that differs from fair value to gradually reflect year-to-year changes in the fair value of assets in determining the contribution requirements.
Actuarial assumptions	In preparing an actuarial valuation, Segal starts by developing a forecast of the benefits to be paid to existing plan members for the rest of their lives and the lives of their beneficiaries. This requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of members in each year, as well as forecasts of the plan's benefits for each of those events. In addition, the benefits forecasted for each of those events in each future year reflect actuarial assumptions as to salary increases and cost-of-living adjustments. The forecasted benefits are then discounted to a present value, typically based on an estimate of the rate of return that will be achieved on the plan's assets. All of these factors are uncertain and unknowable. Thus, there will be a range of reasonable assumptions, and the results may vary materially based on which assumptions are selected within that range. That is, there is no right answer (except with hindsight). It is important for any user of an actuarial valuation to understand and accept this constraint. The actuarial model may use approximations and estimates that will have an immaterial impact on our results. In addition, the actuarial assumptions may change over time, and while this can have a significant impact on the reported results, it does not mean that the previous assumptions or results were unreasonable or wrong.

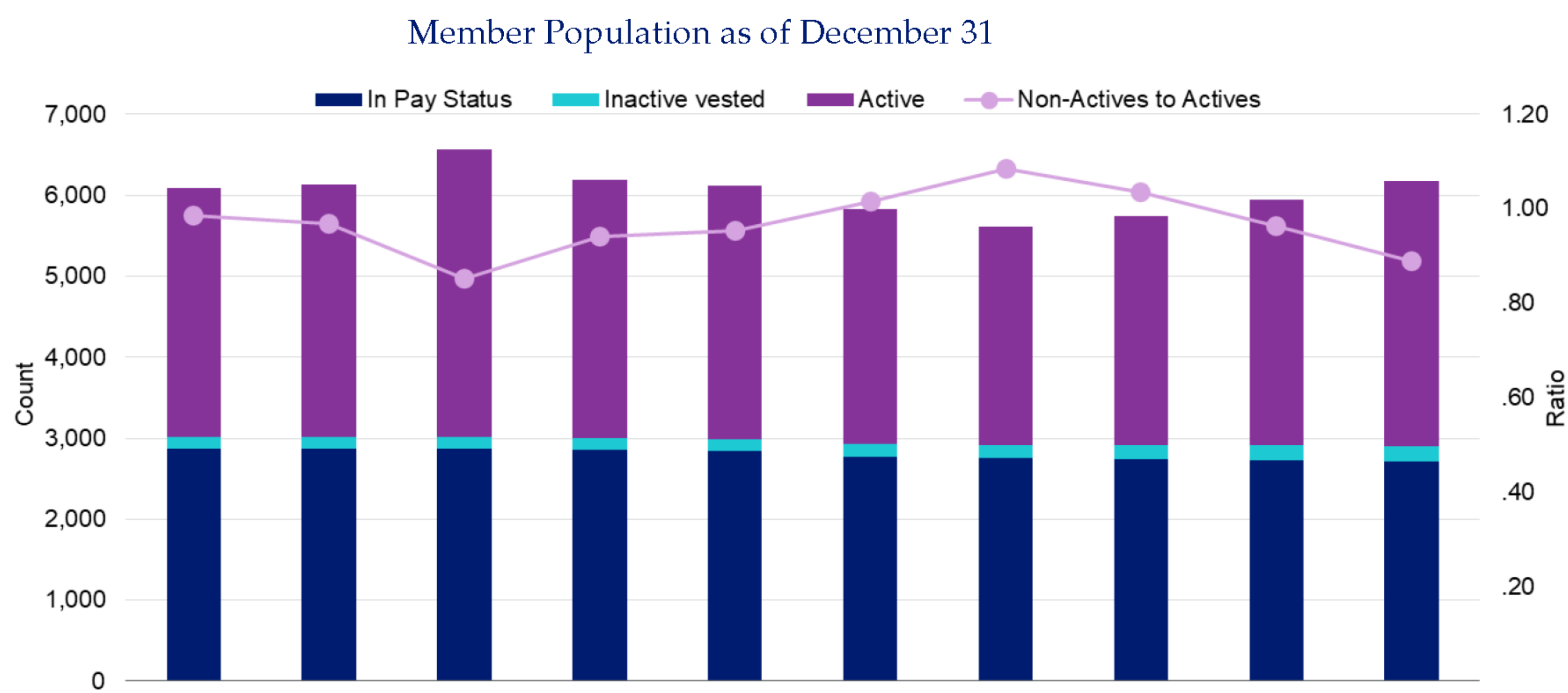
Section 1: Actuarial Valuation Summary

The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:

- The actuarial valuation is prepared at the request of the Board. Segal is not responsible for the use or misuse of its report, particularly by any other party.
- An actuarial valuation is a measurement at a specific date — it is not a prediction of a plan's future financial condition. Accordingly, Segal did not perform an analysis of the potential range of financial measurements, except where otherwise noted.
- If the Board is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.
- Segal does not provide investment, legal, accounting, or tax advice and is not acting as a fiduciary to the Fund. The valuation is based on Segal's understanding of applicable guidance in these areas and of the Fund's provisions, but they may be subject to alternative interpretations. The Board should look to their other advisors for expertise in these areas.
- While Segal maintains extensive quality assurance procedures, an actuarial valuation involves complex computer models and numerous inputs. In the event that an inaccuracy is discovered after presentation of Segal's valuation, Segal may revise that valuation or make an appropriate adjustment in the next valuation.
- Segal's report shall be deemed to be final and accepted by the Board upon delivery and review. Trustees should notify Segal immediately of any questions or concerns about the final content.

Section 2: Actuarial Valuation Results

Membership information



Legend	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
In Pay Status[1]	2,876	2,870	2,876	2,854	2,843	2,775	2,752	2,745	2,730	2,705
Inactive Vested[2]	145	149	150	145	147	158	169	173	187	201
Active	3,063	3,114	3,543	3,187	3,132	2,890	2,694	2,818	3,027	3,270
Ratio	0.99	0.97	0.85	0.94	0.95	1.01	1.08	1.04	0.96	0.89

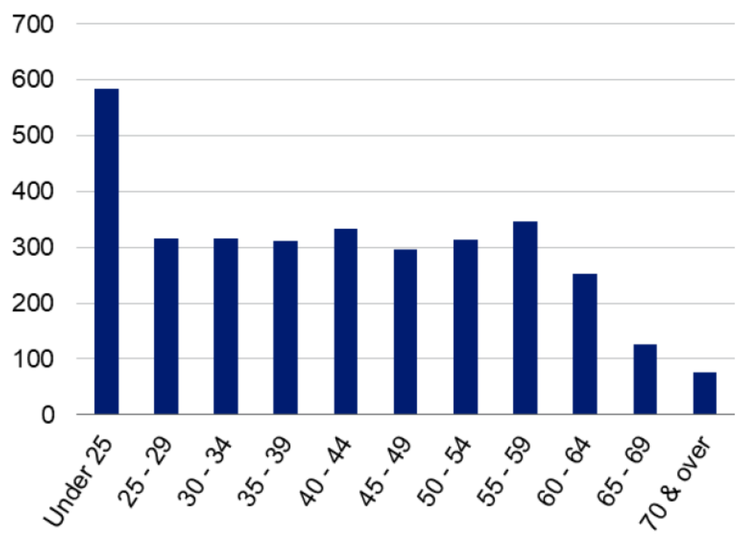
[1] Excludes QILDROs.
[2] Excludes terminated members due a refund of employee contributions.

Active members

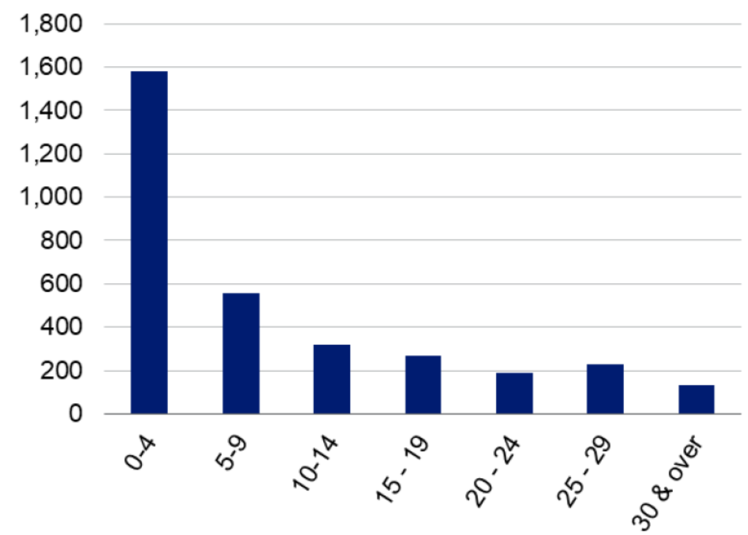
Demographic Data	December 31, 2024	December 31, 2023	Change
Active members	3,270	3,027	8.0%
Average age	42.0	42.7	-0.7
Average years of service	9.2	9.8	-0.6
Average salary	$52,357	$48,720	7.5%

Distribution of Active Members as of December 31, 2024

Actives by Age



Actives by Years of Service



Inactive members

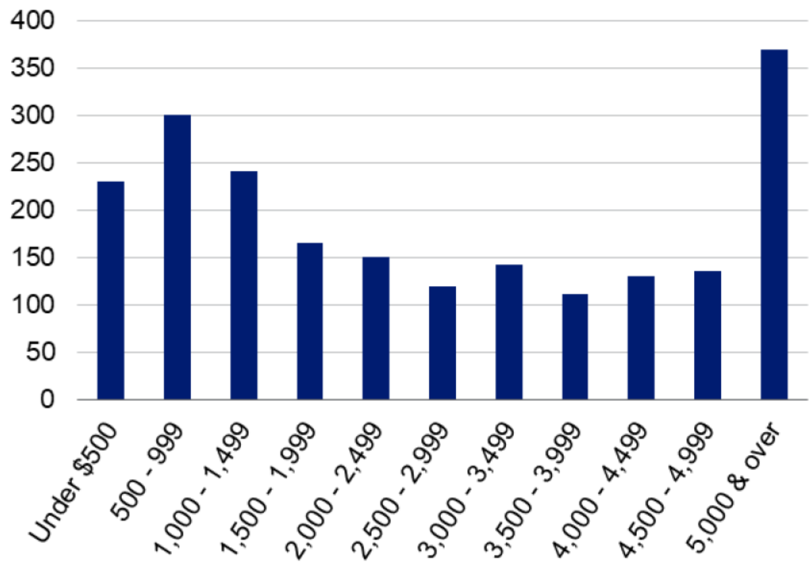
- In this year's valuation, there were 201 inactive members with a vested right to a deferred or immediate vested benefit, compared to 187 in the prior valuation. In addition, there were 5,378 inactive members entitled to a return of their employee contributions, compared to 5,237 in the prior valuation.

Retired members and beneficiaries

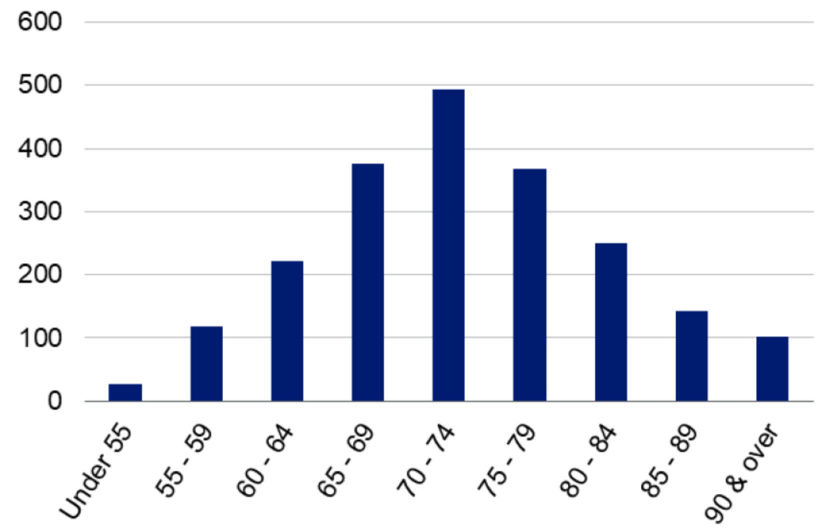
Demographic Data	December 31, 2024	December 31, 2023	Change
Retired members[1]	2,097	2,113	-0.8%
Average age	73.0	72.8	0.2
Average monthly amount	$2,840	$2,756	3.0%
Beneficiaries[2]	608	617	-1.5%
Total monthly amount	$6,966,280	$6,836,919	1.9%

Distribution of Retired Members as of December 31, 2024

By Monthly Amount



By Age



[1] Excludes QILDROs
[2] Includes 3 and 2 dependent children in 2023 and 2024, respectively.

Financial information

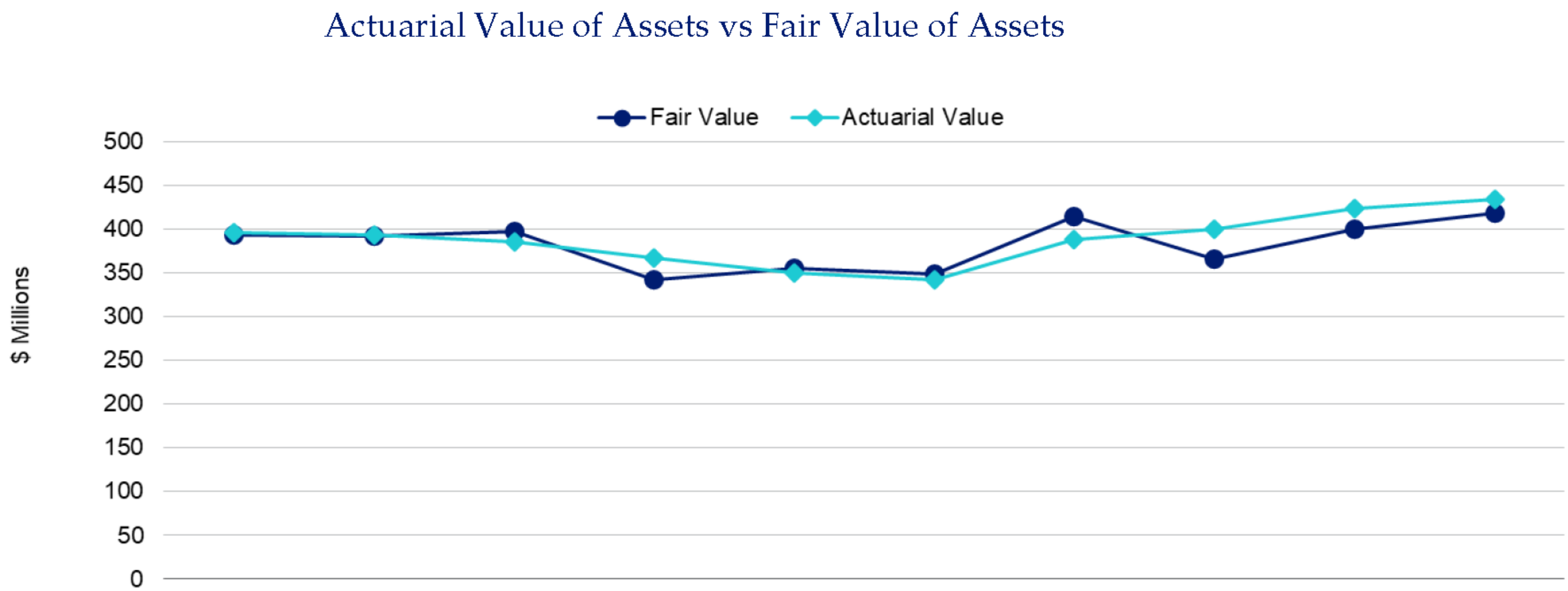
It is desirable to have level and predictable plan costs from one year to the next. For this reason, the Board has approved an asset valuation method that gradually adjusts to fair value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable. The amount of the adjustment to recognize fair value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

Determination of Actuarial Value of Assets for Years Ended December 31

Item			2024		2023
1. Actuarial value of assets as of prior valuation date			$423,327,172		$399,555,117
2. Employer and employee contributions and other income			76,163,445		84,206,745
3. Benefits and expenses			88,092,471		87,533,603
4. Expected investment income			29,215,386		27,852,418
5. Total investment income, including income for securities lending			30,283,623		37,104,806
6. Investment gain/(loss): (5) − (4)			1,068,237		9,252,388
7. Expected actuarial value of assets: (1) + (2) − (3) + (4)			440,613,532		424,080,677
8. Calculation of recognized return	Original Amount[1]	Percent Recognized	Amount recognized	Percent Recognized	Amount recognized
a. Year ended December 31, 2024	$1,068,237	20%	$213,647		
b. Year ended December 31, 2023	9,252,388	20%	1,850,478	20%	$1,850,478
c. Year ended December 31, 2022	-71,728,927	20%	-14,345,785	20%	-14,345,785
d. Year ended December 31, 2021	27,823,201	20%	5,564,640	20%	5,564,640
e. Year ended December 31, 2020	4,006,341	20%	801,268	20%	801,268
f. Year ended December 31, 2019	26,879,470	0%	0	20%	5,375,894
g. Total recognized return			-5,915,752		-753,505
9. Actuarial value of assets as of current valuation date: (7) + (8g)			**$434,697,780**		**$423,327,172**
10. Actuarial value as a percentage of fair value:			104.00%		105.93%

[1] Total return minus expected return on actuarial value

Asset history for years ended December 31

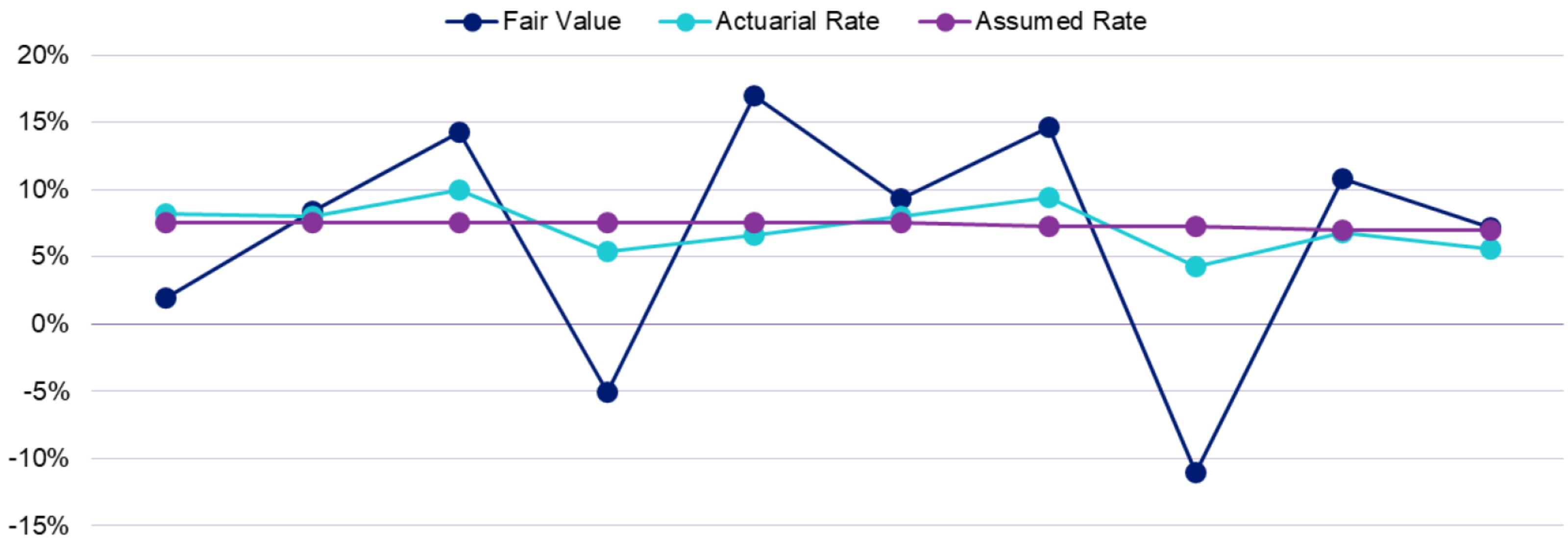


Legend	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Actuarial value[1]	$395.65	$393.60	$385.42	$366.81	$349.96	$342.13	$388.16	$399.56	$423.33	$417.98
Fair value[1]	393.16	391.70	397.65	342.26	354.56	348.29	414.66	365.85	399.62	434.70
Ratio	1.01	1.00	0.97	1.07	0.99	0.98	0.94	1.09	1.06	1.04

[1] In $ millions

Historical investment returns

Fair Value and Actuarial Rates of Return for Years Ended December 31



Legend	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Fair value rate[1]	1.9%	8.4%	14.2%	-5.1%	17.0%	9.3%	14.6%	-11.0%	10.8%	7.2%
Actuarial rate[2]	8.2%	8.0%	10.0%	5.4%	6.6%	8.0%	9.4%	4.3%	6.8%	5.6%
Assumed rate	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.25%	7.25%	7.00%	7.00%

Average Rates of Return	Actuarial Value	Fair Value
Most recent five-year average return:	5.9%	6.8%
Most recent ten-year average return:	6.4%	7.2%

[1] As determined by Investment Consultant
[2] As determined by Segal

Actuarial experience

Assumptions should consider actual experience and should be based on reasonable expectations for the future.

Each year actual experience is compared to that projected by the assumptions. Differences are reflected in the actuarial valuation.

Assumptions are not changed if experience is believed to be a short-term development that will not continue over the long term. On the other hand, if experience is expected to continue, assumptions are changed.

Actuarial Experience for Year Ended December 31, 2024

Source	Amount
1. Loss from investments	-$5,915,752
2. Gain from administrative expenses	186,772
3. Loss from other experience	-15,372,128
4. Net experience loss: 1 + 2 + 3	**-$21,101,108**

Investment experience

Actuarial planning is long term. The obligations of a pension plan are expected to continue for the lifetime of all its members.

The assumed long-term rate of return of 7.00% considers past experience, the asset allocation policy of the Board, and future expectations.

Investment Experience
Year Ended December 31, 2024

Item	Actuarial Value
1. Net investment income	$23,299,634
2. Average value of assets	417,362,659
3. Rate of return: **1 ÷ 2**	5.58%
4. Assumed rate of return	7.00%
5. Expected investment income: **2 x 4**	29,215,386
6. Investment loss: 1 – 5	**-$5,915,752**

Non-investment experience

Administrative expenses

Administrative expenses for the year ended December 31, 2024, totaled $2,105,786, as compared to the assumption of $2,210,679. This resulted in an experience gain of $186,772 for the year, when adjusted for interest.

Other experience

There are other differences between the expected and the actual experience that appear when the new valuation is compared with the projections from the previous valuation. These include:

- Mortality experience (more or fewer than expected deaths)
- The extent of turnover among members
- Retirement experience (earlier or later than projected)
- The number of disability retirements (more or fewer than projected)
- Salary increases (greater or smaller than projected)

The net loss from this other experience for the year ended December 31, 2024 amounted to $15,372,128, which is 1.2% of the actuarial accrued liability.

Liability Changes Due to Demographic Experience for Year Ended December 31,

Liability Change	2024	2023	2022	2021	2020
Net turnover	-$4,614,032	-$2,427,712	-$2,371,665	-$1,793,617	-$2,248,976
Experience among retired members and beneficiaries related to mortality	893,954	4,907,732	4,668,049	4,262,544	6,113,208
Retirement from active status	-467,905	-2,016,289	-4,562,715	-4,588,264	-1,209,835
Salary/service increase for continuing actives	-8,464,402	-5,056,625	-794,581	3,089,510	879,676
Other (including active mortality and inactive retirements)	-2,719,743[1]	-837,485	1,894,561	-1,313,757	-1,611,387
Net gain/(loss)	**-$15,372,128**	**-$5,430,379**	**-$1,166,351**	**-$343,584**	**$1,922,686**

[1] Includes $3.7 million loss due to Entry Age Normal actuarial cost method methodology update discussed in valuation highlights.

Actuarial assumptions

- There were no changes in actuarial assumptions since the prior valuation.

Plan provisions

- There were no changes in plan provisions since the prior valuation.

Unfunded actuarial accrued liability

Development of Unfunded Actuarial Accrued Liability for Year Ended December 31, 2024

Component		Amount
1.	Unfunded/(overfunded) actuarial accrued liability at beginning of year	$846,471,228
2.	Normal cost at beginning of year	22,881,372
3.	Total contributions	-76,163,073
4.	Interest on 1, 2 & 3	58,440,966
5.	Expected unfunded actuarial accrued liability	851,630,494
6.	Changes due to:	
	a. Net experience (gain)/loss	$21,101,108
	b. Assumptions	0
	c. Plan provisions	0
	d. Total changes	**$21,101,108**
7.	**Unfunded actuarial accrued liability at end of year**	**$872,731,602**

Actuarially determined contribution

The actuarially determined contribution is equal to the employer normal cost payment and a payment on the unfunded actuarial accrued liability. This amount is used as the basis by which to compare the statutorily-required contribution against for a sense of adequacy. As of December 31, 2024, the actuarially determined contribution is $83,030,259, or 45.93% of projected payroll.

The Board sets the funding policy used to calculate the actuarially determined contribution based on a closed amortization period of 30 years, which ends on December 31, 2042. As of December 31, 2024, there are 18 years remaining on this schedule.

Actuarially Determined Contribution

Component	2025 Amount	2025 Percent of Projected Payroll	2024 Amount	2024 Percent of Projected Payroll
1. Total normal cost	$24,474,160	13.54%	$20,670,693	13.28%
2. Administrative expenses	2,114,138	1.17%	2,210,679	1.42%
3. Expected employee contributions	-17,449,107	-9.65%	-14,805,084	-9.52%
4. Employer normal cost: (1) + (2) + (3)	9,139,191	5.06%	8,076,288	5.19%
5. Employer normal cost, adjusted for timing	9,451,862	5.23%	8,352,596	5.37%
6. Actuarial accrued liability	1,307,429,382		1,269,798,400	
7. Actuarial value of assets	434,697,780		423,327,172	
8. Unfunded actuarial accrued liability: (6) – (7)	872,731,602		846,471,228	
9. Payment on unfunded actuarial accrued liability, adjusted for timing	73,578,397	40.70%	68,882,276	44.27%
10. Actuarially determined contribution: (5) + (9)	**$83,030,259**	**45.93%**	**$77,234,872**	**49.64%**
11. Projected payroll	$180,794,325		$155,596,223	

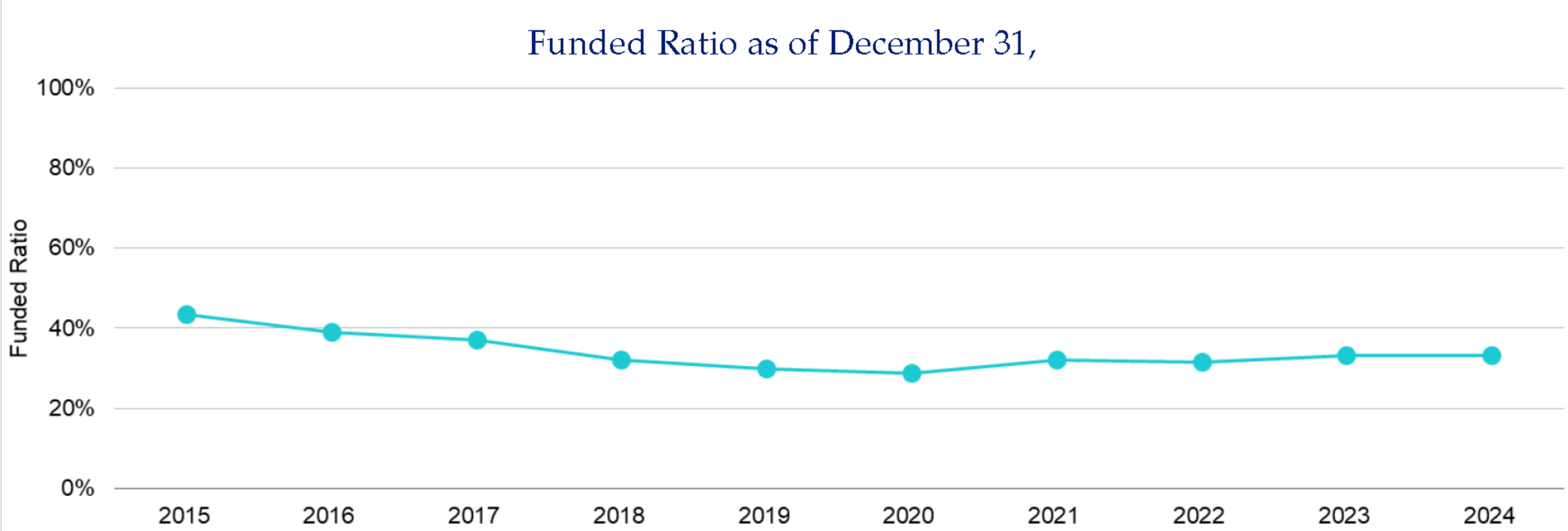
Reconciliation of actuarially determined contribution

Reconciliation of Actuarially Determined Contribution from December 31, 2023 to December 31, 2024

Step	Amount	Percent of Projected Payroll
Actuarially determined contribution as of December 31, 2023	$77,234,872	49.64%
Changes in actuarially determined contribution due to:		
• Effect of plan amendment(s)	0	0.00%
• Effect of expected change in amortization payment due to payroll growth	1,722,057	1.11%
• Effect of change in administrative expense assumption	-99,845	-0.06%
• Effect of change in other actuarial assumptions	0	0.00%
• Effect of contributions (more)/less than actuarially determined contribution	1,386,866	0.89%
• Effect of investment (gain)/loss	477,771	0.31%
• Effect of other gains and losses on accrued liability	1,226,407	0.79%
• Net effect of other changes (including change in normal cost)	1,082,131	0.70%
• **Total change**	**$5,795,387**	**3.72%**
Total change in percentage due to payroll change		-7.43%
Actuarially determined contribution as of December 31, 2024	**$83,030,259**	**45.93%**

Schedule of funding progress through December 31, 2024

Actuarial Valuation Date as of December 31,	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded/ (Overfunded) AAL (UAAL) (b) – (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b) – (a)] / (c)
2015	$395,652,106	$910,260,360	$514,608,254	43.47%	$122,382,584	420.49%
2016	393,604,997	1,005,493,093	611,888,096	39.15%	121,126,918	505.16%
2017	385,419,506	1,039,279,444	653,859,938	37.09%	135,315,008	483.21%
2018	366,806,612	1,142,297,965	775,491,353	32.11%	133,112,100	582.59%
2019	349,960,428	1,170,602,980	820,642,552	29.90%	139,204,051	589.52%
2020	342,131,743	1,190,365,644	848,233,901	28.74%	138,942,498	610.50%
2021	388,163,499	1,211,991,973	823,828,474	32.03%	134,515,373	612.44%
2022	399,555,117	1,269,016,883	869,461,766	31.49%	136,917,648	635.03%
2023	423,327,172	1,269,798,400	846,471,228	33.34%	144,629,413	585.27%
2024	434,697,780	1,307,429,382	872,731,602	33.25%	168,925,363	516.64%



History of employer contributions

History of Employer Contributions
Actuarially Determined Employer Contribution (ADC) versus Actual Employer Contribution (AEC)

Year Ended December 31	ADC Amount	ADC as a Percentage of Projected Payroll	AEC Amount	AEC as a Percentage of Projected Payroll	Percent Contributed
2015	36,273,994	29.1%	30,588,976	24.5%	84.3%
2016	37,130,268	28.3%	30,890,241	23.5%	83.2%
2017	45,253,238	34.8%	20,920,614	16.1%	46.2%
2018	50,929,734	36.3%	27,638,402	19.7%	54.3%
2019	61,887,790	45.4%	27,682,089	20.3%	44.7%
2020	67,297,212	47.4%	33,939,927	23.9%	50.4%
2021	70,492,027	50.2%	83,349,261	59.3%	118.2%
2022	71,021,948	52.2%	67,128,978	49.4%	94.5%
2023	77,592,063	55.2%	70,405,922	50.1%	90.7%
2024	77,592,063	49.9%	59,697,606	38.4%	76.6%
2025	83,030,259	45.9%	—	—	—

Low-Default-Risk Obligation Measure (LDROM)

In December 2021, the Actuarial Standards Board issued a revision of Actuarial Standard of Practice No. 4 (ASOP 4) “Measuring Pension Obligations and Determining Pension Plan Costs or Contributions”. One of the revisions to ASOP 4 requires the disclosure of a Low-Default-Risk Obligation Measure (LDROM) when performing a funding valuation. The LDROM presented in this report is calculated using the same methodology and assumptions used to determine the Actuarial Accrued Liability (AAL) used for funding, except for the discount rate. The LDROM is required to be calculated using “a discount rate…derived from low-default-risk fixed income securities whose cash flows are reasonably consistent with the pattern of benefits expected to be paid in the future.”

The LDROM is a calculation assuming a plan’s assets are invested in an all-bond portfolio, generally lowering expected long-term investment returns. The discount rate selected and used for this purpose is the Bond Buyer General Obligation 20-year Municipal Bond Index Rate, published at the end of each week. The last published rate in December of the measurement period, by The Bond Buyer (www.bondbuyer.com), is 4.08% for use effective December 31, 2024. This is the rate used to determine the discount rate for valuing reported public pension plan liabilities in accordance with Governmental Accounting Standards when plan assets are projected to be insufficient to make projected benefit payments, and the 20-year period reasonably approximates the duration of plan liabilities. The LDROM is not used to determine a plan’s funded status or Actuarially Determined Contribution. The Fund’s expected return on assets, currently 7.00%, is used for these calculations.

As of December 31, 2024, the LDROM for the Fund is $1,811,044,137. The difference between the Fund’s AAL of $1,307,429,382 and the LDROM can be thought of as the increase in the AAL if the entire portfolio were invested in low-default-risk securities. Alternatively, this difference could also be viewed as representing the expected savings from investing in the plan’s diversified portfolio compared to investing only in low-default-risk securities.

ASOP 4 requires commentary to help the intended user understand the significance of the LDROM with respect to the funded status of the plan, plan contributions, and the security of member benefits. In general, if plan assets were invested exclusively in low-default-risk securities, the funded status would be lower and the actuarially determined contribution would be higher. While investing in a portfolio with low-default-risk securities may be more likely to reduce investment volatility and the volatility of employer contributions, it also may be more likely to result in higher employer contributions or lower benefits.

Risk

The actuarial valuation results are dependent on a single set of assumptions; however, there is a risk that emerging results may differ significantly as actual experience proves to be different from the current assumptions.

We have not been engaged to perform a detailed analysis of the potential range of the impact of risk relative to the Fund's future financial condition but have included a brief discussion of some risks that may affect the Fund.

- Economic and Other Related Risks. Potential implications for the Fund due to the following economic effects (that were not reflected as of the valuation date) include:
  - Volatile financial markets and investment returns lower than assumed
  - High inflationary environment impacting salary increases and COLAs
  - Lingering direct and indirect effects of the COVID-19 pandemic
- Investment Risk (the risk that returns will be different than expected)

  If the actual return on fair value for the prior plan year were 1% different (either higher or lower), the unfunded actuarial liability would change by 0.45%, or about $3.9 million, disregarding the asset smoothing method.

  Since the Fund's assets are much larger than contributions, investment performance may create volatility in the actuarially determined contribution requirements. For example, for the prior plan year, if the actual return on fair value were 1% different, the actuarially determined contribution would increase or decrease by $0.3 million, disregarding the asset smoothing method.

  The fair value rate of return over the last 10 years has ranged from a low of -11.0% to a high of 17.0%.
- Longevity Risk (the risk that mortality experience will be different than expected)

  The actuarial valuation includes an expectation of future improvement in life expectancy. Emerging plan experience that does not match these expectations will result in either an increase or decrease in the actuarially determined contribution.
- Contribution Risk (the risk that actual contributions will be different from actuarially determined contribution)

  The Fund's funding policy calculates an actuarially determined contribution that is equal to the employer's normal cost and an amortization payment according to a schedule sufficient to pay down unfunded actuarial liability over time. If this policy were adhered to, contribution risk is negligible.

  Employer contribution requirements are set by statute and were increased with the enactment of P.A. 102-0263, effective August 6, 2021. Employer contributions to the Fund under P.A. 102-0263 target 100% funding of the total actuarial accrued liability of the Fund over a 35-year period ending December 31, 2057. Under this revised approach, if employer contribution requirements are adhered to, contribution risk would also be negligible.

- Demographic Risk (the risk that member experience will be different than assumed)

  Examples of this risk include:
  - Actual retirements occurring earlier or later than assumed. The value of retirement plan benefits is sensitive to the rate of benefit accruals and any early retirement subsidies that apply.
  - More or less active member turnover than assumed.
  - Individual salary increases higher or lower than assumed.
- There are external factors including legislative or financial reporting changes that could impact the Fund's funding and disclosure requirements. While we do not assume any changes in such external factors, it is important to understand that they could have significant consequences for the Fund.
- Actual Experience Over the Last Ten Years

  Past experience can help demonstrate the sensitivity of key results to the Fund's actual experience. Over the past ten years:
  - The non-investment gain(loss) for a year has ranged from a loss of $15.2 million to a gain of $4.7 million.
  - The investment gain(loss) on an actuarial value of assets-basis for a year has ranged from a loss of $19.5 million to a gain of $23.3 million.

Plan Year Ended	Investment Gain/(Loss)	All Other Gains/(Losses)
2015	-$19,526	-$529
2016	2,566	4,711
2017	23,346	-3,051
2018	-7,821	-3,354
2019	-2,267	-9,078
2020	2,439	1,911
2021	7,491	-415
2022	-11,524	-1,393
2023	-754	-5,560
2024	-5,916	-15,185

$ in thousands

  - The funded percentage on the actuarial value of assets has ranged from a low of 28.7% to a high of 43.7%.

Maturity Measures

- As pension plans mature, the cash needed to fulfill benefit obligations will increase over time. Therefore, cash flow projections and analysis should be performed to assure that the Fund’s asset allocation is aligned to meet emerging pension liabilities.
- Currently the Fund has a non-active to active member ratio of 0.89.
- For the prior year, benefits and expenses paid were $11.9 million more than contributions received. Funds with high levels of negative cash flows may have a need for a larger allocation to income generating assets, which can create a drag on investment return.

Section 3: Supplemental Information

Exhibit A: Table of plan demographics

Demographic Data	Year Ended December 31, 2024	Year Ended December 31, 2023	Change From Prior Year
Active members in valuation:			
• Number	3,270	3,027	8.0%
• Average age	42.0	42.7	-0.7
• Average years of service	9.2	9.8	-0.6
• Total salary supplied by Fund	$171,207,015	$147,475,826	16.1%
• Average salary	52,357	48,720	7.5%
• Total active vested members with at least 10 years of service	1,171	1,190	-1.6%
Inactive members:			
• Inactive vested members	201	187	7.5%
• Inactive nonvested members due a refund	5,378	5,237	2.7%
Retired members:			
• Number in pay status[1]	2,097	2,113	-0.8%
• Average age	73.0	72.8	0.2
• Average monthly benefit	$2,840	$2,756	2.7%
Beneficiaries:			
• Number in pay status	608	617	-1.5%
• Average age[2]	79.1	79.1	0.0
• Average monthly benefit[2]	$1,668	$1,617	3.2%
Total number of members:	**11,554**	**11,181**	**3.3%**

[1] Excluding QILDROs
[2] Excluding child beneficiaries

Exhibit B: Members in active service as of December 31, 2024 by age, years of service, and average salary provided by the Fund

Years of Service

Age	Total	0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 & over
Under 25	583	561	22							
	$27,377	$27,122	$33,891							
25 - 29	315	205	106	4						
	$38,979	$35,954	$44,267	$53,887						
30 - 34	316	159	106	49	2					
	$49,760	$40,940	$58,209	$59,989	$52,458					
35 - 39	312	119	72	69	48	4				
	$58,158	$45,239	$63,072	$68,087	$67,293	$73,172				
40 - 44	333	131	46	37	58	50	11			
	$59,429	$38,564	$75,674	$75,071	$69,304	$72,678	$75,075			
45 - 49	296	104	46	46	38	23	36	3		
	$65,727	$49,828	$55,883	$89,670	$67,227	$87,447	$76,950	$80,532		
50 - 54	313	102	47	33	37	24	53	17		
	$65,824	$43,303	$64,121	$79,520	$68,576	$86,876	$80,356	$98,047		
55 - 59	346	97	42	26	44	43	56	32	5	1
	$62,612	$47,577	$60,403	$68,899	$57,923	$68,342	$78,771	$73,617	$72,949	$101,712
60 - 64	252	68	41	26	21	22	41	17	13	3
	$62,958	$41,336	$71,479	$56,664	$62,900	$78,405	$69,961	$88,952	$78,372	$68,522
65 - 69	127	24	16	17	12	13	19	11	4	11
	$58,646	$36,018	$47,780	$71,849	$64,597	$56,829	$62,341	$66,136	$62,587	$83,771
70 & over	77	9	12	10	8	8	15	7	5	3
	$55,489	$33,714	$43,285	$42,460	$54,976	$60,151	$59,133	$93,193	$74,637	$63,885
Total	**3,270**	**1,579**	**556**	**317**	**268**	**187**	**231**	**87**	**27**	**18**
	$52,357	**$36,557**	**$57,493**	**$70,316**	**$65,414**	**$74,366**	**$74,485**	**$82,255**	**$74,337**	**$78,912**

Exhibit C: History of active member valuation data

Year Ended December 31	Active Members	Percent Increase	Annual Salaries	Percent Increase	Average Salary	Percent Increase
2015	3,063	3.03%	$126,294,812	4.92%	$41,232	1.83%
2016	3,114	1.67%	124,502,908	-1.42%	39,982	-3.03%
2017	3,543	13.78%	134,258,328	7.84%	37,894	-5.22%
2018	3,187	-10.05%	129,923,175	-3.23%	40,767	7.58%
2019	3,132	1.73%	136,105,381	4.76%	43,456	6.60%
2020	2,890	-7.73%	135,162,943	-0.69%	46,769	7.62%
2021	2,694	-6.78%	131,000,642	-3.08%	48,627	3.97%
2022	2,818	4.60%	134,679,715	2.81%	47,793	-1.72%
2023	3,027	7.42%	147,475,826	9.50%	48,720	1.94%
2024	3,270	8.03%	171,207,015	16.09%	52,357	7.46%

Average Increase/(Decrease)	Active Members	Annual Salaries	Average Salary
Last 5 Years:	1.11%	4.93%	3.85%
Last 10 years:	1.22%	3.75%	2.70%

Exhibit D: Reconciliation of member data

	Active Members	Inactive Members	Retired Members	Beneficiaries	Total
Number as of December 31, 2023	**3,027**	**5,424**	**2,113**	**617**	**11,181**
New active members	571	N/A	N/A	N/A	571
Terminations	-207	207	-	-	-
Retirements	-54	-18	72	N/A	-
New disabilities	N/A	N/A	N/A	N/A	-
Died with beneficiary	-2	-1	-29	32	-
Died without beneficiary	-5	-8	-59	-41	-113
Refunds	-73	-23	-	-	-96
Rehire	13	-13	-	-	-
Data adjustments	-	11	-	-	11
Number as of December 31, 2024	**3,270**	**5,579**	**2,097**	**608**	**11,554**

Exhibit E: Schedule of pensioners and beneficiaries added to and removed from rolls

Fiscal Year	Number Added to Rolls	Annual Allowances Added to Rolls	Number Removed from Rolls	Annual Allowances Removed from Rolls	Number of Rolls – End of Year[1]	Annual Allowances of Number of Rolls – End of Year	Increase in Average Annual Allowances	Average Annual Allowances
2015	94	$1,823,238	106	$2,271,591	2,864	$67,823,470	-0.7%	$23,681
2016	126	5,283,834	133	2,711,190	2,857	70,396,114	4.0%	24,640
2017	107	3,628,199	104	1,952,677	2,860	72,071,636	2.3%	25,200
2018	135	5,446,939	153	2,967,901	2,842	74,550,674	4.1%	26,232
2019	128	4,578,087	140	3,174,168	2,830	75,954,593	2.3%	26,839
2020	80	3,824,254	146	3,171,408	2,764	76,607,439	3.3%	27,716
2021	91	4,194,340	112	2,428,607	2,743	78,373,172	3.1%	28,572
2022	109	4,563,266	115	2,443,435	2,737	80,493,003	2.9%	29,409
2023	99	4,260,030	109	2,710,004	2,727	82,043,029	2.3%	30,085
2024	77	3,895,443	101	2,343,108	2,703	83,595,364	2.8%	30,927

[1] Does not include child beneficiaries receiving a pension or QILDROs

Exhibit F: Summary statement of income and expenses on a fair value basis

Income and Expenses for Years Ended December 31

Item	2024	2023
Net assets at fair value at the beginning of the year	**$399,623,396**	**$365,845,448**
Contribution and other income:		
• Employer contributions	$59,697,606	$70,405,922
• Employee contributions	16,465,467	13,800,598
• Less administrative expenses	-2,105,786	-2,202,778
• **Net contribution income**	**$74,057,287**	**$82,003,742**
• Securities lending income	$56,733	$26,039
• Other income	372	225
Investment income:		
• Interest, dividends, and partnership income	$5,947,409	5,894,996
• Asset appreciation	26,459,386	32,939,122
• Less investment expenses	-2,179,905	-1,755,351
• **Net investment income**	**$30,226,890**	**$37,078,767**
Less benefit payments:		
• Benefit payments and refunds	-$85,986,685	-$85,330,825
• **Net benefit payments and refunds**	**-$85,986,685**	**-$85,330,825**
Change in fair value of assets	**$18,354,597**	**$33,777,948**
Net assets at fair value at the end of the year	**$417,977,993**	**$399,623,396**

Exhibit G: Summary statement of plan assets

Statement of Plan Assets as of December 31

Item	2024	2023
Cash and accounts receivable:		
• Accounts receivable	$26,472,519	$25,847,449
• **Total cash and accounts receivable**	**$26,472,519**	**$25,847,449**
Investments at fair value:		
• Collective investment funds	$162,979,828	$151,160,590
• Bonds	66,597,674	24,317,437
• Common and preferred stocks	30,139,239	52,224,030
• Real estate	23,374,665	24,376,061
• Private equity partnerships	39,742,041	20,812,388
• Hedged equity	4,526,838	31,367,942
• Infrastructure	55,888,209	52,928,055
• Short-term investments	2,236,032	11,624,191
• **Total investments at fair value**	**$385,484,526**	**$368,810,694**
• **Other assets:**		
• Invested securities lending collateral	$31,377,556	$10,206,157
• Prepaid annuity benefits	5,992,850	5,904,035
• Net furniture and fixtures	1,563,604	1,511,923
• Prepaid expenses	83,171	59,284
• **Total other assets**	**$39,017,181**	**$17,681,399**
• **Total assets**	**$450,974,226**	**$412,339,542**

Item	2024	2023
Accounts payable:		
• Accounts payable	-$314,418	-$434,565
• Accrued benefits and member contributions payable	-114,960	-866,976
• Securities lending collateral	-31,377,556	-10,206,157
• Unclaimed Checks	-299,304	-226,691
• Lease Liability	-889,995	-981,757
• **Total accounts payable**	**-$32,996,233**	**-$12,716,146**
Net assets at fair value	**$417,977,993**	**$399,623,396**
Net assets at actuarial value	**$434,697,780**	**$423,327,172**

Exhibit H: Development of the fund through December 31, 2024

Year Ended December 31	Employer Contributions	Employee Contributions	Net Investment Return[1]	Admin. Expenses	Benefit Payments	Fair Value of Assets at Year-End	Actuarial Value of Assets at Year-End	Actuarial Value as a Percent of Fair Value
2015	$30,588,976	$12,368,636	$31,067,518	$1,533,700	$70,602,016	$393,155,338	$395,652,106	100.6%
2016	30,890,241	12,246,115	30,432,110	1,537,699	74,077,876	391,698,922	393,604,997	100.5%
2017	20,920,614	13,675,292	37,038,766	1,682,136	78,138,027	397,648,758	385,419,506	96.9%
2018	27,638,402	12,125,457	19,651,105	1,501,039	76,526,820	342,255,873	366,806,612	107.2%
2019	27,682,089	12,664,855	22,886,182	1,528,861	78,550,449	354,556,288	349,960,428	98.7%
2020	33,939,927	12,634,900	26,564,866	1,598,370	79,370,008	348,294,515	342,131,743	98.2%
2021	83,349,261	12,226,998	32,776,353	1,718,012	80,602,844	414,658,650	388,163,499	93.6%
2022	67,128,978	12,669,678	16,435,102	2,002,020	82,840,120	365,845,448	399,555,117	109.2%
2023	70,405,922	13,800,598	27,099,138	2,202,778	85,330,825	399,623,396	423,327,172	105.9%
2024	59,697,606	16,465,467	23,300,006	2,105,786	85,986,685	417,977,993	434,697,780	104.0%

[1] On an actuarial basis, net of investment fees, and includes other income

Exhibit I: Summary of actuarial valuation results

The valuation was made with respect to the following data supplied to us:

1.	Pensioners as of the valuation date (including 606 beneficiaries and 2 dependent children, excluding 21 QILDROs)		2,705
2.	Members inactive as of the valuation date with vested rights		201
3.	Members active as of the valuation date		3,270
	Fully vested	1,171	
	Not vested	2,099	
4.	Other non-vested inactive members as of the valuation date		**5,378**

The actuarial factors as of the valuation date are as follows:

1.	Employer normal cost, including administrative expenses		$9,139,191
2.	Actuarial accrued liability		1,307,429,382
	Retirees and beneficiaries	$846,419,215	
	Inactive members with vested rights	44,828,796	
	Active members	416,181,371	
3.	Actuarial value of assets ($417,977,993 at fair value)		434,697,780
4.	**Unfunded actuarial accrued liability: (2) − (3)**		**872,731,602**
5.	**Funded ratio: (3) ÷ (2)**		**33.2%**

Exhibit J: Actuarially determined contribution split by tier

Component	2025 Amount	2025 Percent of Projected Payroll	Tier 1 Amount	Tier 1 Percent of Projected Payroll	Tier 2 Amount	Tier 2 Percent of Projected Payroll	Tier 3 Amount	Tier 3 Percent of Projected Payroll
1. Total normal cost	$24,474,160	13.54%	$14,570,314	17.53%	$4,458,563	9.72%	$5,445,282	10.51%
2. Administrative expenses[1]	2,114,138	1.17%	2,017,492	2.43%	68,295	0.15%	28,351	0.05%
3. Expected employee contributions	-17,449,107	-9.65%	-7,531,601	-9.06%	-4,164,467	-9.08%	-5,753,040	-11.10%
4. Employer normal cost: (1) + (2) + (3)	9,139,191	5.06%	9,056,205	10.90%	362,391	0.79%	-279,406	-0.54%
5. Employer normal cost, adjusted for timing[2]	9,451,862	5.23%	9,366,037	11.27%	374,789	0.82%	-288,965	-0.56%
6. Actuarial accrued liability	1,307,429,382		1,247,661,078		42,235,261		17,533,043	
7. Actuarial value of assets	434,697,780							
8. Unfunded actuarial accrued liability: (6) – (7)	$872,731,602							
9. Payment on unfunded actuarial accrued liability, adjusted for timing	73,578,397	40.70%						
10. Actuarially determined contribution: (5) + (9)	**$83,030,259**	**45.93%**						
11. Projected payroll	$180,794,325		$83,104,132		$45,872,495		$51,817,698	

[1] Administrative expenses are allocated by percent of accrued liability.
[2] Recommended contributions are assumed to be paid at the middle of every month.

Exhibit K: Solvency test on December 31

Item	2024	2023	2022	2021	2020
Actuarial Accrued Liability (AAL):					
Active member contributions	$171,845,893	$168,869,903	$170,509,528	$175,568,599	$174,600,431
Retirees and beneficiaries	846,419,215	837,252,527	853,075,017	814,929,192	795,731,449
Active and inactive members (employer financed)	289,164,274	263,675,970	245,432,338	221,494,182	220,033,764
Total AAL	**$1,307,429,382**	**$1,269,798,400**	**$1,269,016,883**	**$1,211,991,973**	**$1,190,365,644**
Actuarial Value of Assets (AVA)	**434,697,780**	**423,327,172**	**399,555,117**	**388,163,499**	**342,131,743**
Cumulative portion of AAL covered:					
Active member contributions	100.0%	100.0%	100.0%	100.0%	100.0%
Retirees and beneficiaries	31.1%	30.4%	26.8%	26.1%	21.1%
Active and inactive members (employer financed)	0.0%	0.0%	0.0%	0.0%	0.0%

Item	2019	2018	2017	2016	2015
Actuarial Accrued Liability (AAL):					
Active member contributions	$173,843,745	$164,316,381	$173,903,043	$172,808,623	$173,241,768
Retirees and beneficiaries	789,231,586	778,565,525	706,084,520	694,881,116	625,396,307
Active and inactive members (employer financed)	207,527,649	199,416,059	159,291,881	137,803,354	111,622,285
Total AAL	**$1,170,602,980**	**$1,142,297,965**	**$1,039,279,444**	**$1,005,493,093**	**$910,260,360**
Actuarial Value of Assets (AVA)	**349,960,428**	**366,806,612**	**385,419,506**	**393,604,997**	**395,652,106**
Cumulative portion of AAL covered:					
Active member contributions	100.0%	100.0%	100.0%	100.0%	100.0%
Retirees and beneficiaries	22.3%	26.0%	30.0%	31.8%	35.6%
Active and inactive members (employer financed)	0.0%	0.0%	0.0%	0.0%	0.0%

Exhibit L: Projection of contributions, liabilities, and assets

Based on the results of the December 31, 2024, actuarial valuation, we have projected valuation results for a 40-year period (the "projection period") commencing with Fiscal Year 2025.

For purposes of the projections, all assets, contributions, and benefit payments have been included. Our projections of contributions, liabilities, and assets are based on the actuarial assumptions, membership data and benefit provisions that were used for the regular actuarial valuation.

In order to determine projected contributions, liabilities, and assets, certain calculations needed to be made that are not normally required in a regular actuarial valuation. Benefit payout requirements, actuarial liabilities, and payroll were estimated over the projection period from 2024 through 2064 by projecting the membership of the Fund over the projection period, taking into account the impact of new entrants into the Fund over the projection period.

To make the required projections, assumptions needed to be made regarding the age and salary distribution of new entrants as well as the size of the active membership of the Fund. The assumptions regarding the profile of new entrants to the Fund were based on the recent experience of the Fund with regard to new entrants. The size of the active membership of the Fund was assumed to remain constant over the projection period. The results of our projections are shown on the following pages.

For purposes of this projection, budgeted supplemental contributions for future years are included, if applicable. It reflects a budgeted employer contribution of $59.7 million and no supplemental contribution for 2025.

Plan provisions for Tier 3 are effective December 31, 2021, per HB 417 legislation. Tier 1 and 2 member contributions are 9% and Tier 3 member contributions are 11%. Employer Contributions are Employer Normal Cost plus a 33-year closed period amortization of unfunded actuarial accrued Liability as of December 31, 2024.

Exhibit L: Projection of contributions, liabilities, and assets (continued)

Fiscal Year	Employee Contributions	Employer Contributions	Payroll	Normal Cost	Benefit Payouts	Admin. Expenses	Total Actuarial Accrued Liability	Actuarial Value of Assets	Unfunded Actuarial Liability	Funded Ratio
2024							$1,307,429.4	$434,697.8	$872,731.6	33.2%
2025	$17,449.1	$59,679.4	$180,794.3	$24,474.2	$91,681.7	$2,179.5	1,330,246.2	440,857.1	889,389.1	33.1%
2026	17,403.6	63,332.4	179,243.8	24,192.4	93,633.8	2,255.8	1,352,338.3	443,364.2	908,974.0	32.8%
2027	17,391.2	65,184.8	178,113.9	23,938.2	95,411.2	2,334.7	1,373,865.3	460,389.3	913,476.0	33.5%
2028	17,415.9	66,184.8	177,368.1	23,710.4	97,363.9	2,416.4	1,394,634.4	475,701.3	918,933.1	34.1%
2029	17,461.7	67,202.1	176,791.3	23,381.5	99,152.3	2,501.0	1,414,654.4	491,025.8	923,628.5	34.7%
2030	17,544.6	68,312.9	176,623.1	23,136.8	101,415.0	2,588.5	1,433,472.1	506,457.6	927,014.5	35.3%
2031	17,600.7	69,401.0	176,178.8	22,827.9	103,605.1	2,679.1	1,451,009.7	521,945.9	929,063.8	36.0%
2032	17,679.4	70,524.4	175,982.2	22,555.6	105,556.6	2,772.9	1,467,463.8	537,631.8	929,832.0	36.6%
2033	17,786.2	71,690.6	176,080.7	22,321.9	107,323.0	2,870.0	1,482,991.5	553,813.6	929,177.9	37.3%
2034	17,882.4	72,859.1	176,085.7	22,050.1	109,050.1	2,970.4	1,497,527.6	570,553.0	926,974.6	38.1%
2035	17,957.7	74,045.5	175,907.8	21,744.7	110,728.9	3,074.4	1,511,017.0	587,927.3	923,089.7	38.9%
2036	18,063.3	75,290.6	176,058.0	21,496.1	112,786.6	3,182.0	1,523,054.9	605,675.3	917,379.6	39.8%
2037	18,155.4	76,535.1	176,045.6	21,202.8	114,551.9	3,293.4	1,533,794.5	624,107.0	909,687.5	40.7%
2038	18,298.9	77,832.1	176,572.8	20,981.4	116,309.8	3,408.6	1,543,229.5	643,381.4	899,848.1	41.7%
2039	18,457.4	79,175.1	177,233.1	20,789.0	117,989.5	3,527.9	1,551,380.7	663,697.3	887,683.4	42.8%
2040	18,620.9	80,540.9	177,951.4	20,593.7	119,453.2	3,651.4	1,558,378.5	685,375.4	873,003.1	44.0%
2041	18,798.6	81,978.7	178,859.5	20,452.7	120,600.1	3,779.2	1,564,528.3	708,923.7	855,604.6	45.3%
2042	19,017.7	83,487.6	180,186.7	20,393.3	121,508.4	3,911.5	1,570,104.8	734,831.8	835,273.0	46.8%
2043	19,257.5	85,038.1	181,758.2	20,367.3	122,131.6	4,048.4	1,575,398.9	763,619.8	811,779.2	48.5%
2044	19,526.9	86,652.0	183,658.4	20,406.3	122,712.6	4,190.1	1,580,504.0	795,624.2	784,879.9	50.3%

Note: All dollar amounts are in thousands. Actuarial Liability and asset figures are as of end of year.

Exhibit L: Projection of contributions, liabilities, and assets (continued)

Fiscal Year	Employee Contributions	Employer Contributions	Payroll	Normal Cost	Benefit Payouts	Admin. Expenses	Total Actuarial Accrued Liability	Actuarial Value of Assets	Unfunded Actuarial Liability	Funded Ratio
2045	$19,793.3	$88,305.5	$185,549.0	$20,456.6	$118,589.6	$4,336.7	$1,590,287.6	$835,971.4	754,316.2	52.6%
2046	20,115.4	89,998.0	188,027.8	20,579.6	118,856.7	4,488.5	1,600,611.2	880,794.6	719,816.6	55.0%
2047	20,425.5	91,738.8	190,375.8	20,720.0	118,818.7	4,645.6	1,611,847.1	930,754.8	681,092.2	57.7%
2048	20,762.0	93,529.8	193,023.0	20,923.7	118,833.5	4,808.2	1,624,072.1	986,230.6	637,841.5	60.7%
2049	21,113.0	95,334.1	195,783.1	21,150.5	118,969.7	4,976.5	1,637,254.6	1,047,505.2	589,749.3	64.0%
2050	21,463.7	97,141.8	198,548.2	21,386.5	119,045.6	5,150.7	1,651,533.7	1,115,044.2	536,489.5	67.5%
2051	21,823.4	98,941.3	201,445.1	21,644.8	119,226.2	5,330.9	1,666,901.9	1,189,172.2	477,729.7	71.3%
2052	22,198.4	100,706.7	204,447.5	21,930.0	119,351.0	5,517.5	1,683,521.8	1,270,382.3	413,139.5	75.5%
2053	22,588.8	102,404.5	207,628.6	22,246.4	119,536.6	5,710.6	1,701,451.6	1,359,046.3	342,405.2	79.9%
2054	22,994.8	103,954.7	210,953.1	22,581.2	119,953.0	5,910.5	1,720,563.7	1,455,303.6	265,260.0	84.6%
2055	23,405.5	105,228.4	214,338.3	22,926.3	120,337.1	6,117.4	1,740,985.4	1,559,430.7	181,554.7	89.6%
2056	23,845.0	105,909.4	217,971.7	23,313.3	120,840.0	6,331.5	1,762,730.3	1,671,264.2	91,466.0	94.8%
2057	24,300.5	101,338.2	221,762.3	23,724.3	121,255.4	6,553.1	1,786,007.1	1,786,007.1	0.0	100.0%
2058	24,778.8	6,986.1	225,776.1	24,165.4	121,567.7	6,782.4	1,811,062.0	1,811,062.0	0.0	100.0%
2059	25,287.5	7,209.3	230,115.4	24,643.6	122,147.9	7,019.8	1,837,782.0	1,837,782.0	0.0	100.0%
2060	25,803.6	7,460.3	234,555.7	25,148.1	122,645.2	7,265.5	1,866,397.3	1,866,397.3	0.0	100.0%
2061	26,357.0	7,727.0	239,370.5	25,695.3	123,431.8	7,519.8	1,896,787.2	1,896,787.2	0.0	100.0%
2062	26,920.3	8,012.7	244,265.8	26,262.0	124,108.7	7,783.0	1,929,210.1	1,929,210.1	0.0	100.0%
2063	27,514.3	8,319.6	249,489.7	26,869.9	124,870.2	8,055.4	1,963,765.0	1,963,765.0	0.0	100.0%
2064	28,134.7	8,644.0	254,967.1	27,511.0	126,012.0	8,337.4	2,000,242.9	2,000,242.9	0.0	100.0%

Note: All dollar amounts are in thousands. Actuarial Liability and asset figures are as of end of year.

Section 4: Actuarial Valuation Basis

Exhibit M: Actuarial assumptions, methods and models

Rationale for assumptions

The information and analysis used in selecting each assumption that has a significant effect on this actuarial valuation is shown in the Experience Review, dated February 15, 2024, for the five-year period ending December 31, 2022. Current data is reviewed in conjunction with each annual valuation. See presentation for details.

Net investment return

7.00% per year, net of investment expenses. The net investment return assumption is a long-term estimate derived from historical data, current and recent market expectations, and professional judgment. As part of the analysis, a building block approach was used that reflects inflation expectations and anticipated risk premiums for each of the portfolio's asset classes as provided by Fund staff.

Inflation

2.50% per year

Payroll growth

2.50% per year

Salary increases

Rates of assumed salary increase are shown below.

Years of Service	Rate (%)
0 – 0.99	20.00
1 – 1.99	7.50
2 – 2.99	5.00
3 – 3.99	3.50
4 – 4.99	3.50
5 – 24.99	2.75
25+	2.50

Mortality rates

Healthy Post-Retirement Mortality – Retirees: 100% of PubG-2010 Below Median Healthy Annuitant Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021.

Healthy Post-Retirement Mortality – Beneficiaries: 110% of PubG-2010 Below Median Contingent Survivor Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021.

Pre-retirement: 100% of PubG-2010 Below Median Employee Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021.

The mortality tables specified above were determined to contain provisions appropriate to reasonably reflect future mortality improvement, based on a review of mortality experience as of the most recent experience study date.

Termination rates before retirement

Select and ultimate termination rates are based on recent experience of the Fund. Ultimate rates are applicable for members with five or more years of service.

Select Termination Rates

Years of Service	Rate (%)
0 – 0.99	25.0
1 –1.99	12.5
2 – 2.99	11.0
3 – 3.99	10.0
4 – 4.99	9.0

Ultimate Termination Rates

Age	Rate (%)	Age	Rate (%)
Under 31	6.0	38	3.4
31	5.6	39	3.2
32	5.2	40	3.0
33	4.8	41	2.8
34	4.4	42	2.6
35	4.0	43	2.4
36	3.8	44	2.2
37	3.6	45+	2.5

Retirement rates

For employees first hired prior to January 1, 2011, rates of retirement for each age from 50 to 75 were used. Sample rates are shown below.

Age	Retirement Probability with < 30 Years of Service (%)	Retirement Probability with 30+ Years of Service (%)
50	2.5	30.0
55	5.0	20.0
60	7.5	12.5
65	15.0	20.0
70	15.0	25.0
75	100.0	100.0

For employees first hired on or after January 1, 2011, but before January 1, 2022, rates of retirement for each age from 62 to 75 were used. Sample rates are shown below.

Age	Retirement Probability (%)
62	50.0
65	20.0
67	50.0
70	20.0
75	100.0

Retirement rates (continued)

For employees first hired on or after January 1, 2022, rates of retirement for each age from 60 to 75 were used. Sample rates are shown below.

Age	Retirement Probability (%)
60	50.0
65	20.0
67	50.0
70	20.0
75	100.0

Valuation of inactive vested members

The liability for an inactive member is equal to his or her existing account balance, or, if the member has at least 10 years of service then:

3.0 times the existing account balance if in Tier 1

2.5 times the existing account balance if in Tiers 2 or 3

Disability benefit valuation

Disability benefits are valued in normal cost by adding 0.2% of projected payroll.

Unknown data for members

Same as those exhibited by members with similar known characteristics. If not specified, members are assumed to be male.

Percent married

67% of males and 50% of females are assumed to be married.

Age of spouse

Spouses of male members are female and three years younger and spouses of female members are male and three years older.

Administrative expenses

Equal to actual expenses for the prior year, increased by 3.5% each year.

Covered Payroll

Calculated as follows: Total employee contributions less estimated total death benefit contributions, divided by the average employee contribution rate.

Actuarial value of assets

The actuarial value of assets was determined by smoothing unexpected gains and losses over a period of 5 years. The gain or loss for a year is calculated as the total investment income on the fair value of assets, minus expected investment return on the prior actuarial value of assets. The final actuarial value is equal to the expected actuarial value plus (or minus) 20% of the calculated gain (or loss) in the prior 5 years.

Actuarial cost method

The Entry Age Normal actuarial cost method is used. Under this method, a normal cost is calculated for each employee that is the level annual contribution as a percent of pay required to be made from the employee's date of hire (determined as the valuation date less service provided in the data) for as long as he/she remains active so that sufficient assets will be accumulated to provide his/her benefit. The accrued liability is the difference between the present value of all future benefits and the present value of all future normal costs.

Models

Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Deterministic cost projections are based on a proprietary forecasting model. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

The blended discount rate used for calculating total pension liability is based on a model developed by our Actuarial Technology and Systems unit, comprised of both actuaries and programmers. The model allows the client team, under the supervision of the responsible actuary, control over the entry of future expected contribution income, benefit payments and administrative expenses. The projection of fiduciary net position and the discounting of benefits is part of the model.

Justification for change in actuarial assumptions

There have been no changes in actuarial assumptions since the last valuation.

Exhibit N: Summary of plan provisions

This exhibit summarizes the major provisions of the Fund included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

Plan year

January 1 through December 31. Prior to December 31, 2012, the plan year was July 1 through June 30.

Membership

Any person employed by the Chicago Park District in a position requiring service for 6 months or more in a calendar year is required to become a member of the Fund as a condition of employment.

Tiers

Tier 1: First hired before January 1, 2011.

Tier 2: First hired on or after January 1, 2011 and prior to January 1, 2022.

Tier 3: First hired on or after January 1, 2022.

Retirement pension

Eligibility: An employee may retire at age 50 with at least 10 years of service or at age 60 with 4 years of service. If retirement occurs before age 60, the retirement pension is reduced ¼ of 1% of each month that the age of the member is below 60. However, there is no reduction if the employee has at least 30 years of service.

Amount: The retirement pension is based on the average of the 4 highest consecutive years of salary within the last 10 years. For an employee who withdraws from service on or after December 31, 2003, the amount of the retirement pension is 2.4% of highest average salary for each year of service.

The maximum pension payable is 80% of the highest annual salary.

An employee who was a member before July 1, 1971, is entitled to the pension provided under the money purchase formula if it provides a greater pension than that provided under the above fixed benefit formula.

Retirement pension (continued)

An employee who first becomes a member on or after January 1, 2011, and prior to January 1, 2022, is subject to the following provisions:

- The highest salary for annuity purposes is equal to the average monthly salary obtained by dividing the member's total salary during the 96 consecutive months of service within the last 120 months of service in which the total compensation was the highest by the number of months in that period.
- For 2025, the annual salary is limited to $127,283.01. Limitations for future years shall automatically be increased by the lesser of 3% or one-half the percentage change in the Consumer Price Index-U during the preceding calendar year.
- A member is eligible to retire with unreduced benefits after attainment of age 67 with at least 10 years of service credit. However, a member may elect to retire at age 62 with at least 10 years of service credit and receive a retirement annuity reduced by ½ of 1% for each month that the age of the member is below 67.

An employee who first becomes a member on or after January 1, 2022, or elects Tier 3 is subject to the following provision:

- A member is eligible to retire with unreduced benefits after attainment of age 65 with at least 10 years of service credit. However, a member may elect to retire at age 60 with at least 10 years of service credit and receive a retirement annuity reduced by ½ of 1% for each month that the age of the member is below 65; otherwise, the same as Tier 2.

Post-retirement increase:

An employee retiring at age 60 or over, or an employee with 30 or more years of service, is entitled to automatic annual increases of 3% of the originally granted pension following one year's receipt of pension payments. In the case of an employee with less than 30 years of service who retires before age 60, the increases begin following the later of attainment of age 60 and receipt of one year's pension payments.

Automatic annual increases (AAI) in the retirement annuity for employees who first became a member on or after January 1, 2011, are equal to the lesser of 3% or one-half the annual change in the Consumer Price Index-U, whichever is less, based on the originally granted retirement annuity.

Surviving spouse's pension

A surviving spouse is entitled to a pension upon the death of an employee while in service or on retirement. If the surviving spouse is age 60 or over and the employee or retiree had at least 20 years of service, the minimum surviving spouse's pension is 50% of the deceased employee's or retired employee's pension at the date of death. If the age of the surviving spouse is less than 60, the pension is reduced ½ of 1% for each month the surviving spouse is under age 60. If the employee had less than 20 years of service, the surviving spouse is entitled to a pension under the money purchase formula, taking into account employee and employer contributions toward the surviving spouse's pension.

Surviving spouse's pensions are subject to annual increases of 3% per year based on the current amount of pension.

For employees who first become a member on or after January 1, 2011, the initial survivor's annuity is equal to 66 2/3% of the member's earned retirement annuity at the date of death, subject to automatic annual increases of the lesser of 3% or one-half of the increase in the Consumer Price Index-U during the preceding calendar year, based on the originally granted survivor's annuity.

Children's pension

Unmarried children of a deceased employee under the age of 18 are entitled to a children's pension. If either parent is living, the pension is $100.00 per month. If no parent survives, the pension for each child is $150.00 per month. The total amount payable to a spouse or children may not exceed 60% of the employee's final salary.

Single sum death benefit

A death benefit is payable upon the death of an employee in service in addition to any other benefits payable to the surviving spouse or minor children. The death benefit payable is as follows:

- $3,000 benefit during the first year of service,
- $4,000 benefit during the second year of service,
- $5,000 benefit during the third year of service,
- $6,000 benefit during the fourth through ninth year of service, and
- $10,000 benefit if death occurs after ten or more years of service.

Upon the death of a retired member with ten or more years of service, the $10,000 maximum benefit is reduced to $6,000 if death occurs during the first year of retirement. Thereafter, it is reduced by $1,500 for each year or fraction of a year while on retirement, but shall not be less than $3,000.

Ordinary disability benefit

An ordinary disability benefit is payable after eight consecutive days of absence for illness without pay. The amount of the benefit is 45% of salary. The benefit is payable for a period not to exceed ¼ of the length of service or five years, whichever is less.

Occupational death benefit

Upon disability resulting from an injury incurred while on duty, an employee is entitled to a disability benefit of 75% of salary from the first day of absence without pay. The benefit is payable during the period of disability until the employee attains age 65 if disability is incurred before age 60, or for a period of five years if disability is incurred after age 60.

Refunds

An employee who terminates employment before qualifying for a pension is entitled to a refund of employee contributions. The refund is payable to any employee who withdraws before age 55, regardless of the length of service. It is also payable to an employee who withdraws between age 55 and 60 with less than 10 years of service, and to an employee who withdraws after age 60 with less than 5 years of service.

An employee who is unmarried at date of retirement is entitled to a refund of the full amount contributed for the spouse's pension, without interest.

Employee contributions

All members of Tier 1 and Tier 2 are required to contribute 9% of salary to the Fund as follows: 7% for the retirement pension, 1% for the spouse's pension, and 1% for the automatic increases in the retirement pension. All members of Tier 3 are required to contribute 11% of salary to the Fund as follows: 9% for the retirement pension, 1% for the spouse's pension, and 1% for the automatic increases in the retirement pension. In addition, all employees are required to contribute $3.60 per month toward the cost of the single sum death benefit.

Employer contributions

Per HB 417 establishing Public Act 102-0263.

Changes in plan provisions

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

Exhibit O: Net Pension Liability

Components of the Net Pension Liability	Current	Prior
Measurement date and reporting date for the Plan under GASB 67	December 31, 2024	December 31, 2023
Total Pension Liability	$1,307,429,382	$1,269,798,400
Plan Fiduciary Net Position	417,977,993	399,623,396
Net Pension Liability	889,451,389	870,175,004
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	31.97%	31.47%

Actuarial assumptions. The Total Pension Liability (TPL) as of December 31, 2024, used the following actuarial assumptions, applied to all periods included in the measurement:

Assumption Type	Assumption
Inflation	2.50%
Salary increases	Ranging from 2.50% to 20.00%, based on service
Net investment rate of return	7.00%, net of pension plan investment expense, including inflation
Cost of living adjustments	3% of original benefit for employees who first became a member before January 1, 2011; the lesser of 3% and 1/2 of CPI of original benefit for employees and beneficiaries of employees who first became a member on or after January 1, 2011; 3% compounded for beneficiaries of employees who first became a member by January 1, 2011.
Mortality	For healthy retirees, mortality rates were based on 100% of PubG-2010 Below Median Healthy Annuitant Table, with mortality improvements projected generationally using scale MP-2021. For healthy beneficiaries, mortality rates were based on 110% of PubG-2010 Below Median Contingent Survivor Table, with mortality improvements projected generationally using scale MP-2021. For active members, mortality rates were based on 100% of PubG-2010 Below Median Employee Table, with mortality improvements projected generationally using scale MP-2021.

The actuarial assumptions used in the December 31, 2024, valuation are based on the results of the Experience Review, dated February 15, 2024, for the five-year period ending December 31, 2022.

Determination of discount rate and investment rates of return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of inflation) are developed for each major asset class. These returns are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage, adding expected inflation. The target allocation (approved by the Board) and projected arithmetic real rates of return for each major asset class, after deducting inflation, but before investment expenses, used in the derivation of the long-term expected investment rate of return assumption are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return*
U.S. Equity	24.00%	6.10%
Non - U.S. Equity	18.00%	6.20%
Emerging Market	6.00%	7.40%
Fixed Income	15.00%	1.90%
Real Estate	10.00%	3.50%
Hedge Funds	3.00%	2.90%
Infrastructure	8.00%	6.10%
Private Equity	7.00%	9.65%
Private Debt	5.00%	6.10%
Short-term TIPS	4.00%	1.10%
Total	**100.00%**	

* Geometric real rates of return are net of inflation of 2.40% as reported by Segal Marco Advisors.

Discount rate. The discount rate used to measure the Total Pension Liability (TPL) was 7.00% as of December 31, 2024, and December 31, 2023. The projection of cash flows used to determine the discount rate assumed plan member contributions will be made at a 9% contribution rate for Tier 1 and Tier 2, and 11% for Tier 3, and that employer contributions will be made per statute. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions and contributions from future plan members that are intended to fund the service costs of future plan members and their beneficiaries are not included. Based on those assumptions, the Plan Fiduciary Net Position (FNP) was projected to be available to make all projected future benefit payments for current plan members. Therefore, the projected benefit payments were discounted at the long-term expected rate of return (7.00%) to determine the TPL as of both December 31, 2024, and December 31, 2023. No projected benefit payments were discounted at the municipal bond index (4.08%, based on the Bond Buyer 20-GO Municipal Bond Index as of December 31, 2024).

Discount rate sensitivity

Sensitivity of the Net Pension Liability to changes in the discount rate. The following presents the Net Pension Liability (NPL) of the Fund as of December 31, 2024, calculated using the discount rate of 7.00%, as well as what the Fund's NPL would be if it were calculated using a discount rate that is 1-percentage-point lower (6.00%) or 1-percentage-point higher (8.00%) than the current rate.

Item	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Net Pension Liability	$1,032,526,263	$889,451,389	$769,133,628

Exhibit P: Schedule of changes in Net Pension Liability

Components of the Net Pension Liability	Current	Prior
Measurement Date		
Measurement date and reporting date for the Plan under GASB 67	December 31, 2024	December 31, 2023
Total Pension Liability		
Service cost	$20,670,693	$18,511,656
Interest	87,323,303	87,140,419
Change of benefit terms	0	0
Differences between expected and actual experience	15,623,671	5,708,342
Changes of assumptions	0	-25,248,075
Benefit payments, including refunds of member contributions	-85,986,685	-85,330,825
Net change in Total Pension Liability	**$37,630,982**	**$781,517**
Total Pension Liability — beginning	1,269,798,400	1,269,016,883
Total Pension Liability — ending	**$1,307,429,382**	**$1,269,798,400**
Plan Fiduciary Net Position		
Contributions — employer	$59,697,606	$70,405,922
Contributions — employee	16,465,467	13,800,598
Net investment income	30,283,623	37,104,806
Benefit payments, including refunds of member contributions	-85,986,685	-85,330,825
Administrative expense	-2,105,786	-2,202,778
Other	372	225
Net change in Plan Fiduciary Net Position	**$18,354,597**	**$33,777,948**
Plan Fiduciary Net Position — beginning	399,623,396	365,845,448
Plan Fiduciary Net Position — ending	**$417,977,993**	**$399,623,396**

Components of the Net Pension Liability	Current	Prior
Net Pension Liability		
Net Pension Liability — ending	$889,451,389	$870,175,004
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	31.97%	31.47%
Covered payroll	$168,925,363	$144,629,413
Plan Net Pension Liability as percentage of covered payroll	526.54%	601.66%

Exhibit Q: Schedule of employer contributions

Year Ended December 31	Actuarially Determined Contributions	Contributions in Relation to the Actuarially Determined Contributions	Contribution Deficiency/ (Excess)	Covered Payroll	Contributions as a Percentage of Covered Payroll
2015	$36,273,994	$30,588,976	$5,685,018	$122,382,584	24.99%
2016	37,130,268	30,890,241	6,240,027	121,126,918	25.50%
2017	45,253,238	20,920,614	24,332,624	135,315,008	15.46%
2018	50,929,734	27,638,402	23,291,332	133,112,100	20.76%
2019	61,887,790	27,682,089	34,205,701	139,204,051	19.89%
2020	67,297,212	33,939,927	33,357,285	138,942,498	24.43%
2021	70,492,027	83,349,261	-12,857,234	134,515,373	61.96%
2022	71,021,948	67,128,978	3,892,970	136,917,648	49.03%
2023	77,592,063	70,405,922	7,186,141	144,629,413	48.68%
2024	77,234,872	59,697,606	17,537,266	168,925,363	35.34%

Notes to schedule:

- **Valuation date:** Actuarially determined contribution is calculated using a December 31 valuation date as of the beginning of the fiscal year in which contributions are reported
- **Actuarial cost method:** Entry Age Normal
- **Amortization method:** The Board sets the funding policy used to calculate the actuarially determined contribution based on a closed amortization period of 30 years, which ends on December 31, 2042. As of December 31, 2023, there are 19 years remaining on this schedule. Amortization payments are calculated on a level percentage of payroll basis.
- **Asset valuation method:** 5-year smoothed fair value
- **Investment rate of return:** 7.00%, net of pension plan investment expense, including inflation
- **Inflation rate:** 2.50%

Notes to schedule (continued):

- **Projected salary increases:** Ranging from 2.75% to 20.00%, based on service
- **Mortality:** For healthy annuitants, mortality rates were based on 100% of PubG-2010 Below Median Healthy Annuitant Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021. For healthy beneficiaries, mortality rates were based on 110% of PubG-2010 Below Median Contingent Survivor Table, with mortality improvements projected generationally using scale MP-2021. For active members, mortality rates were based on 100% of PubG-2010 Below Median Employee Amount-Weighted Table, with mortality improvements projected generationally using scale MP-2021.
- **Cost of living adjustments:** 3% of original benefit for employees who first became a member before January 1, 2011; the lesser of 3% and 1/2 of CPI of original benefit for employees and beneficiaries of employees who first became a member on or after January 1, 2011; 3% compounded for beneficiaries of employees who first became a member by January 1, 2011.
- **Other information:** Same as those used in the December 31, 2023, actuarial funding valuation based on the results of an experience study for the five-year period ending December 31, 2022.

Appendix: Definition of Pension Terms

The following list defines certain technical terms for the convenience of the reader:

Term	Definition
Actuarial Accrued Liability for actives	The equivalent of the accumulated normal costs allocated to the years before the valuation date.
Actuarial Accrued Liability for retirees and beneficiaries	Actuarial Present Value of lifetime benefits to existing retirees and beneficiaries. This sum takes account of life expectancies appropriate to the ages of the annuitants and the interest that the sum is expected to earn before it is entirely paid out in benefits.
Actuarial cost method	A procedure allocating the Actuarial Present Value of Future Benefits to various time periods; a method used to determine the Normal Cost and the Actuarial Accrued Liability that are used to determine the actuarially determined contribution.
Actuarial gain or loss	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two Actuarial Valuation dates. To the extent that actual experience differs from that assumed, Actuarial Accrued Liabilities emerge which may be the same as forecasted or may be larger or smaller than projected. Actuarial gains are due to favorable experience, e.g., assets earn more than projected, salary increases are less than assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, actuarial losses are the result of unfavorable experience, i.e., actual results yield actuarial liabilities that are larger than projected.
Actuarially equivalent	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
Actuarial Present Value	The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. Each such amount or series of amounts is: • Adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, marital status, etc.) • Multiplied by the probability of the occurrence of an event (such as survival, death, disability, withdrawal, etc.) on which the payment is conditioned, and • Discounted according to an assumed rate (or rates) of return to reflect the time value of money.

Appendix A: Definition of Pension Terms

Term	Definition
Actuarial Present Value of Future Benefits	The Actuarial Present Value of benefit amounts expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age, anticipated future compensation, and future service credits. The Actuarial Present Value of Future Benefits includes the liabilities for active members, retired members, beneficiaries receiving benefits, and inactive members entitled to either a refund of member contributions or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
Actuarial valuation	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan, as well as Actuarially Determined Contributions.
Actuarial Value of Assets (AVA)	The value of the Fund's assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of Fund assets, but commonly plans use a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the Actuarially Determined Contribution.
Actuarially determined	Values that have been determined utilizing the principles of actuarial science. An actuarially determined value is derived by application of the appropriate actuarial assumptions to specified values determined by provisions of the Fund.
Actuarially Determined Contribution (ADC)	The employer's contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under the Fund's funding policy. The ADC consists of the Employer Normal Cost and the Amortization Payment.
Amortization method	A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the Unfunded Actuarial Accrued Liability. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the Unfunded Actuarial Accrued Liability. Under the Level Percentage of Pay method, the stream of payments increases at the assumed rate at which total covered payroll of all active members will increase.
Amortization payment	The portion of the pension plan contribution, or ADC, that is intended to pay off the Unfunded Actuarial Accrued Liability.
Assumptions or Actuarial Assumptions	The estimates upon which the cost of the Fund is calculated, including: **Investment return** — the rate of investment yield that the Fund will earn over the long-term future; **Mortality rates** — the rate or probability of death at a given age for employees and retirees; **Retirement rates** — the rate or probability of retirement at a given age or service; **Disability rates** — the rate or probability of disability retirement at a given age; **Withdrawal rates** — the rate or probability at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement; **Salary increase rates** — the rates of salary increase due to inflation, real wage growth and merit and promotion increases.

Appendix A: Definition of Pension Terms

Term	Definition
Closed amortization period	A specific number of years that is counted down by one each year, and therefore declines to zero with the passage of time. For example, if the amortization period is initially set at 20 years, it is 19 years at the end of one year, 18 years at the end of two years, etc. See Open Amortization Period.
Decrements	Those causes/events due to which a member’s status (active-inactive-retiree-beneficiary) changes, that is: death, retirement, disability, or withdrawal.
Defined benefit plan	A retirement plan in which benefits are defined by a formula based on the member’s compensation, age and/or years of service.
Defined contribution plan	A retirement plan, such as a 401(k) plan, a 403(b) plan, or a 457 plan, in which the contributions to the plan are assigned to an account for each member, the plan’s earnings are allocated to each account, and each member’s benefits are a direct function of the account balance.
Employer Normal Cost	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
Experience study	A periodic review and analysis of the actual experience of the Fund that may lead to a revision of one or more actuarial assumptions. Actual rates of decrement and salary increases are compared to the actuarially assumed values and modified based on recommendations from the Actuary.
Funded ratio	The ratio of the Actuarial Value of Assets (AVA) to the Actuarial Accrued Liability (AAL). Plans sometimes also calculate a fair value funded ratio, using the Fair Value of Assets (FVA), rather than the AVA.
GASB 67 and GASB 68	Governmental Accounting Standards Board (GASB) Statements No. 67 and No. 68. These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67 sets the rules for the systems themselves.
Investment return	The rate of earnings of the Fund from its investments, including interest, dividends and capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the capital gains and losses to avoid significant swings in the value of assets from one year to the next.
Net Pension Liability (NPL)	The Net Pension Liability is equal to the Total Pension Liability minus the Plan Fiduciary Net Position.
Normal Cost	The portion of the Actuarial Present Value of Future Benefits and expenses, if applicable, allocated to a valuation year by the Actuarial Cost Method. Any payment with respect to an Unfunded Actuarial Accrued Liability is not part of the Normal Cost (see Amortization Payment). For pension plan benefits that are provided in part by employee contributions, Normal Cost refers to the total of member contributions and employer Normal Cost unless otherwise specifically stated.
Open amortization period	An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. If the initial period is set as 30 years, the same 30-year period is used in each future year in determining the Amortization Period.

Appendix A: Definition of Pension Terms

Term	Definition
Plan Fiduciary Net Position	Fair value of assets.
Service costs	The portions of the actuarial present value of projected benefit payments that are attributed to valuation years.
Total Pension Liability (TPL)	The actuarial accrued liability under the entry age normal cost method and based on the blended discount rate as described in GASB 67 and 68.
Unfunded Actuarial Accrued Liability (UAAL)	The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. This value may be negative, in which case it may be expressed as a negative Unfunded Actuarial Accrued Liability, also called the Funding Surplus or an Overfunded Actuarial Accrued Liability.
Valuation date or actuarial valuation date	The date as of which the value of assets is determined and as of which the Actuarial Present Value of Future Benefits is determined. The expected benefits to be paid in the future are discounted to this date.

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STATISTICAL SECTION
(Unaudited)

The information in this section is not covered by the Independent Auditor's Report but is presented as supplemental data for the benefit of the readers of the Annual Comprehensive Financial Report. The objectives of the statistical section information are to provide financial statement users with additional historical perspective, context, and detail to assist in using the financial statements, notes to financial statements, and required supplementary information, to better understand and assess the Fund's overall financial health.

Membership

These schedules provide financial data regarding the Fund's members.

Other Financial Data

These schedules provide additional information regarding members as well as data regarding refunds and disability.

GASB No. 44

Additional schedules to address the requirements defines by GASB No. 44.

Membership Statistics
December 31, 2024

	December 31, 2024	December 31, 2023
Active Participants	3,270	3,027
Retired Employees' - Annuities	2,097	2,113
Surviving Spouses' - Annuities	606	614
Children - Annuities	2	3
Member Retirements Granted during the Year	72	97
New Members	571	559
Withdrawals with Refund	96	125

The above schedule provides details about the changes in the number of active participants, as well as the changes in the number and type of annuitants for the year.

Active Members and Total Annual Salaries by Age
December 31, 2024

	Male		Female		Total	
Age at 12/31/2024	Number	Annual Salaries	Number	Annual Salaries	Number	Annual Salaries
17	7	$ 40,693	15	$ 77,587	22	$ 118,280
18	19	204,440	24	236,450	43	440,890
19	37	666,944	37	493,206	74	1,160,150
20	41	810,121	32	521,452	73	1,331,573
21	46	1,187,072	42	962,049	88	2,149,121
22	42	1,140,751	38	944,080	80	2,084,831
23	53	1,537,871	30	655,604	83	2,193,475
24	47	1,340,941	42	1,185,500	89	2,526,441
25	38	1,145,116	33	898,197	71	2,043,313
26	39	1,373,676	34	1,227,475	73	2,601,151
27	24	922,580	29	995,851	53	1,918,431
28	35	1,314,330	18	682,784	53	1,997,114
29	37	1,272,164	25	1,087,440	62	2,359,604
30	42	1,888,373	19	827,922	61	2,716,295
31	41	1,732,723	34	1,473,942	75	3,206,665
32	31	1,597,996	32	1,644,767	63	3,242,763
33	33	1,660,158	25	1,234,048	58	2,894,206
34	37	1,680,226	27	1,353,848	64	3,034,074
35	33	1,511,173	29	1,676,789	62	3,187,962
36	40	2,062,239	29	1,464,125	69	3,526,364
37	30	1,611,187	28	1,214,978	58	2,826,165
38	33	2,222,182	25	1,236,463	58	3,458,645
39	39	2,456,166	30	1,788,476	69	4,244,642
40	32	1,806,635	23	1,345,351	55	3,151,986
41	40	2,365,746	26	1,721,485	66	4,087,231
42	39	2,171,534	20	1,169,524	59	3,341,058
43	43	2,655,188	23	1,245,516	66	3,900,704
44	49	2,595,704	28	1,508,816	77	4,104,520
45	44	2,723,670	21	1,120,363	65	3,844,033
46	48	3,185,670	25	1,275,112	73	4,460,782
47	32	2,014,453	25	1,416,710	57	3,431,163
48	40	2,620,613	18	1,064,276	58	3,684,889
49	36	2,664,152	16	1,209,070	52	3,873,222
50	31	1,994,777	23	1,557,451	54	3,552,228
51	38	2,437,711	32	2,267,970	70	4,705,681
52	40	2,351,997	17	1,033,101	57	3,385,098
53	37	2,227,324	22	1,397,310	59	3,624,634

Age at 12/31/2024	Male Number	Male Annual Salaries	Female Number	Female Annual Salaries	Total Number	Total Annual Salaries
54	32	1,910,959	33	2,421,734	65	4,332,693
55	56	3,671,156	24	1,488,156	80	5,159,312
56	47	3,244,354	23	1,437,104	70	4,681,458
57	45	2,715,840	20	1,176,390	65	3,892,230
58	43	2,528,836	28	1,796,618	71	4,325,454
59	35	2,021,958	19	1,029,028	54	3,050,986
60	41	2,432,656	33	2,191,284	74	4,623,940
61	33	2,183,073	28	1,422,275	61	3,605,348
62	36	2,367,773	14	930,216	50	3,297,989
63	23	1,192,565	17	848,024	40	2,040,589
64	21	1,437,052	23	1,622,432	44	3,059,484
65	26	1,362,904	13	762,021	39	2,124,925
66	23	1,367,669	13	847,363	36	2,215,032
67	26	1,372,237	9	508,101	35	1,880,338
68	13	699,937	7	370,893	20	1,070,830
69	8	705,772	7	339,911	15	1,045,683
70	14	772,726	4	219,146	18	991,872
71	9	567,133	5	178,176	14	745,309
72	6	352,553	7	353,199	13	705,752
73	6	432,790	—	—	6	432,790
74	8	519,817	1	53,418	9	573,235
75	2	120,778	3	178,042	5	298,820
76	3	132,528	1	67,712	4	200,240
77	5	250,232	—	—	5	250,232
78	2	73,625	—	—	2	73,625
79	3	109,200	—	—	3	109,200
80	1	19,842	—	—	1	19,842
81	1	17,278	—	—	1	17,278
83	—	—	1	53,095	1	53,095
84	—	—	—	—	—	—
86	—	—	—	—	—	—
	1,941	99,777,539	1,329	63,509,426	3,270	163,286,965

	Male	Female	Both
Average Age	43.1	40.5	42.0
Average	51,405	47,787	49,935

Active Members and Total Annual Salaries by Length of Service
December 31, 2024

	Male		Female		Total	
Years of Service	Number	Annual Salaries	Number	Annual Salaries	Number	Annual Salaries
< 1	293	$ 3,064,641	226	$ 2,141,603	519	$ 5,206,244
1	307	12,305,769	235	8,042,048	542	20,347,817
2	221	9,950,976	144	6,607,374	365	16,558,350
3	97	5,560,216	34	1,554,995	131	7,115,211
4	12	407,376	10	376,018	22	783,394
5	75	4,129,988	47	2,186,739	122	6,316,727
6	76	4,379,944	49	2,170,396	125	6,550,340
7	72	4,034,097	32	1,737,505	104	5,771,602
8	61	3,556,576	42	2,611,469	103	6,168,045
9	73	4,974,245	29	1,979,045	102	6,953,290
10	40	3,164,965	35	2,176,953	75	5,341,918
11	43	3,187,022	26	1,818,407	69	5,005,429
12	34	2,190,671	27	1,767,692	61	3,958,363
13	47	3,468,327	31	2,132,975	78	5,601,302
14	21	1,597,004	13	784,787	34	2,381,791
15	21	1,056,311	9	681,533	30	1,737,844
16	32	2,130,718	9	535,524	41	2,666,242
17	38	2,413,190	25	1,582,862	63	3,996,052
18	27	1,950,792	33	2,158,679	60	4,109,471
19	46	3,063,424	28	1,957,980	74	5,021,404
20	26	2,333,991	12	820,912	38	3,154,903
21	16	1,121,630	14	1,033,712	30	2,155,342
22	14	1,020,345	8	638,052	22	1,658,397
23	31	2,307,384	23	1,430,603	54	3,737,987
24	20	1,355,380	23	1,844,455	43	3,199,835
25	32	2,474,261	23	1,664,483	55	4,138,744
26	32	2,370,582	21	1,526,869	53	3,897,451
27	23	1,734,593	20	1,429,478	43	3,164,071
28	21	1,661,923	29	2,200,267	50	3,862,190
29	16	997,086	14	1,146,413	30	2,143,499
30	10	821,943	15	1,224,803	25	2,046,746
31	7	518,702	9	821,885	16	1,340,587
32	7	578,271	7	676,855	14	1,255,126
33	12	946,163	11	860,866	23	1,807,029
34	5	440,449	4	266,251	9	706,700

	Male		Female		Total	
Years of Service	Number	Annual Salaries	Number	Annual Salaries	Number	Annual Salaries
35	3	189,797	4	311,222	7	501,019
36	4	379,906	1	72,818	5	452,724
37	1	74,026	1	72,527	2	146,553
38	4	191,690	2	148,873	6	340,563
39	5	429,759	1	67,726	6	497,485
40	4	298,352	—	—	4	298,352
41	1	101,712	—	—	1	101,712
42	2	131,961	1	81,157	3	213,118
43	2	240,210	—	—	2	240,210
44	3	199,232	1	92,046	4	291,278
45	1	79,893	—	—	1	79,893
46	2	104,530	1	72,569	3	177,099
52	1	87,516	—	—	1	87,516
	1,941	99,777,539	1,329	63,509,426	3,270	163,286,965

	Male	Female	Both
Average Years	9.1	9.4	9.2
Average Salary	51,405	47,787	49,935

Retirement Pensions by Age and Annual Payments
December 31, 2024

	Male		Female		Total	
Age at 12/31/2024	Number	Annual Salaries	Number	Annual Salaries	Number	Annual Salaries
50	4	$ 118,621	2	$ 112,181	6	$ 230,802
51	—	—	1	17,539	1	17,539
52	5	121,635	1	50,706	6	172,341
53	5	121,367	3	75,871	8	197,238
54	9	293,489	1	12,536	10	306,025
55	12	298,509	11	480,149	23	778,658
56	14	367,324	8	259,888	22	627,212
57	17	455,546	13	450,352	30	905,898
58	13	396,743	10	372,430	23	769,173
59	20	668,099	12	532,947	32	1,201,046
60	20	950,396	11	279,014	31	1,229,410
61	31	1,015,707	12	351,856	43	1,367,563
62	27	1,058,536	16	490,775	43	1,549,311
63	36	1,409,473	20	640,956	56	2,050,429
64	41	1,584,937	22	757,455	63	2,342,392
65	54	1,940,933	26	710,183	80	2,651,116
66	57	2,317,541	21	709,888	78	3,027,429
67	46	1,908,095	18	410,376	64	2,318,471
68	53	1,796,988	21	815,694	74	2,612,682
69	70	2,688,316	29	1,043,013	99	3,731,329
70	68	2,568,737	28	995,208	96	3,563,945
71	69	2,506,121	33	1,031,064	102	3,537,185
72	55	2,007,624	33	861,771	88	2,869,395
73	74	2,896,982	31	986,849	105	3,883,831
74	68	2,369,976	33	1,067,500	101	3,437,476
75	55	2,300,396	18	548,697	73	2,849,093
76	54	1,759,124	18	542,458	72	2,301,582
77	66	2,219,600	19	547,681	85	2,767,281
78	44	1,378,228	16	318,118	60	1,696,346
79	47	1,314,499	13	306,465	60	1,620,964
80	29	1,109,308	20	458,673	49	1,567,981
81	41	1,486,743	17	493,476	58	1,980,219
82	42	1,330,651	14	252,015	56	1,582,666
83	26	942,621	10	360,897	36	1,303,518
84	29	1,247,111	15	223,113	44	1,470,224

Age at 12/31/2024	Male		Female		Total	
	Number	Annual Salaries	Number	Annual Salaries	Number	Annual Salaries
85	19	753,669	10	175,381	29	929,050
86	28	882,351	7	171,657	35	1,054,008
87	20	646,093	6	53,979	26	700,072
88	10	295,541	8	318,103	18	613,644
89	19	655,727	3	104,582	22	760,309
90	16	722,221	11	146,894	27	869,115
91	8	245,935	1	53,853	9	299,788
92	9	241,118	8	109,946	17	351,064
93	8	104,594	1	16,702	9	121,296
94	6	192,898	4	125,558	10	318,456
95	5	123,655	—	—	5	123,655
96	3	136,025	2	33,757	5	169,782
97	4	122,939	1	3,749	5	126,688
99	1	54,171	—	—	1	54,171
100	1	121,682	—	—	1	121,682
101	1	61,797	—	—	1	61,797
	1,459	52,310,392	638	18,881,955	2,097	71,192,347

	Male	Female	Both
Average Age	73.3	72.3	72.8
Average Salary	35,854	29,596	33,950

Retirement Pensions by Age at Time of Retirement
December 31, 2024

Age at 12/31/2024	Male Number	Male Annual Salaries	Female Number	Female Annual Salaries	Total Number	Total Annual Salaries
50	153	$ 4,752,676	50	$ 1,558,255	203	$ 6,310,931
51	99	4,356,606	31	1,421,545	130	5,778,151
52	79	3,359,186	29	1,018,709	108	4,377,895
53	71	2,955,792	25	1,030,514	96	3,986,306
54	88	3,955,603	36	1,475,404	124	5,431,007
55	91	3,113,717	55	1,381,120	146	4,494,837
56	90	2,895,954	28	741,935	118	3,637,889
57	67	2,597,467	27	1,096,712	94	3,694,179
58	64	2,015,224	31	847,630	95	2,862,854
59	43	1,697,118	28	764,206	71	2,461,324
60	101	3,323,102	55	1,062,297	156	4,385,399
61	66	2,600,712	28	694,462	94	3,295,174
62	73	1,934,482	42	1,124,616	115	3,059,098
63	46	1,674,131	24	666,736	70	2,340,867
64	49	1,618,275	24	605,243	73	2,223,518
65	73	2,408,992	32	783,430	105	3,192,422
66	46	1,387,633	21	677,257	67	2,064,890
67	38	1,327,908	22	505,845	60	1,833,753
68	27	1,054,056	19	466,769	46	1,520,825
69	24	1,069,720	6	115,817	30	1,185,537
70	15	362,645	7	249,840	22	612,485
71	15	486,725	4	95,357	19	582,082
72	8	233,564	6	198,325	14	431,889
73	2	61,085	—	0	2	61,085
74	7	238,544	1	19,479	8	258,023
75	8	319,882	—	0	8	319,882
76	5	218,734	1	5,114	6	223,848
77	2	29,562	2	119,014	4	148,576
78	1	8,300	—	—	1	8,300
79	3	45,321	2	42,628	5	87,949
81	2	74,494	1	75,240	3	149,734
82	1	39,549	1	38,456	2	78,005
83	1	64,674	—	—	1	64,674
86	1	28,959	—	—	1	28,959
	1,459	52,310,392	638	18,881,955	2,097	71,192,347

	Male	Female	Both
Average Age	58.8	59.3	59.0
Average Salary	35,854	29,596	33,950

Surviving Spouses' Pension by Age and Annual Payments
December 31, 2024

Age at 12/31/2024	Number	Annual Payments	Age at 12/31/2024	Number	Annual Payments
30	1	$ 11,832	78	22	$ 467,749
46	1	4,324	79	13	273,638
47	1	10,229	80	22	523,903
53	4	69,071	81	24	536,874
54	2	22,537	82	23	515,983
55	3	62,148	83	22	342,643
56	5	91,767	84	27	461,896
57	3	65,703	85	23	415,050
58	2	51,313	86	28	506,203
59	4	110,333	87	20	386,383
60	5	61,307	88	17	289,986
61	8	119,785	89	12	175,748
62	5	77,644	90	17	430,159
63	6	97,554	91	14	214,135
64	7	127,008	92	6	128,187
65	14	267,258	93	13	294,538
66	13	339,887	94	7	162,945
67	9	172,315	95	10	181,034
68	10	232,153	96	6	117,713
69	13	422,839	97	10	137,816
70	15	290,790	98	1	47,196
71	17	396,576	99	3	40,844
72	14	268,134	100	3	36,982
73	26	518,006	103	1	1,569
74	24	546,228			
75	9	191,985		606	12,128,121
76	19	378,135			
77	22	432,086		Average Age	79.1
				Average Annual Payments	20,013

Survivng Spouses' Pension by Age at Commencement
December 31, 2024

Age at Commencement	Number	Annual Payments	Age at Commencement	Number	Annual Payments
27	1	$ 4,862	61	12	$ 177,361
28	3	26,186	62	13	273,705
29	2	6,419	63	14	282,409
30	1	18,130	64	25	483,269
31	1	10,022	65	16	351,011
33	2	28,818	66	15	317,502
34	1	9,348	67	23	460,374
35	1	3,247	68	15	349,453
36	4	49,133	69	19	458,174
37	2	11,465	70	19	325,289
38	3	24,503	71	22	447,475
39	5	95,616	72	15	238,171
40	2	52,018	73	9	168,253
41	4	87,769	74	16	295,344
42	6	133,678	75	15	320,786
43	5	87,080	76	20	349,344
44	7	89,276	77	11	284,774
45	9	138,880	78	12	229,499
46	5	95,275	79	14	214,068
47	4	94,288	80	15	191,707
48	7	157,915	81	11	213,382
49	7	183,488	82	11	200,219
50	13	296,199	83	8	119,275
51	9	187,381	84	11	190,532
52	7	143,568	85	8	68,692
53	15	322,630	86	4	60,251
54	11	321,299	87	6	142,605
55	14	392,696	88	3	77,027
56	9	228,994	89	1	1,569
57	11	316,846	90	3	28,357
58	14	364,575	91	3	73,154
59	13	285,845	92	1	15,269
60	16	415,209	93	1	18,080
			95	1	19,084
				606	12,128,122

Average Age	65.4
Average Annual Payments	20,013

Annuities and Refunds by Type - Last Ten Fiscal Years
December 31, 2024

Year Ended		Retirement	Surviving Spouse	Children	Refunds Employees'	Refunds Pensioners'
December 31, 2015	$	56,094,931	11,823,316	17,100	1,493,229	554,946
December 31, 2016		58,967,909	12,043,511	18,000	2,228,079	281,414
December 31, 2017		59,488,303	12,252,673	15,900	1,834,626	191,179
December 31, 2018		61,178,336	12,108,228	16,900	2,589,760	136,207
December 31, 2019		63,644,273	12,187,742	18,450	1,792,130	292,308
December 31, 2020		64,754,238	12,298,065	21,250	1,592,251	15,509
December 31, 2021		65,655,719	12,126,482	17,400	1,947,282	119,334
December 31, 2022		67,325,938	12,403,651	9,600	2,190,223	147,082
December 31, 2023		69,407,986	12,455,734	15,300	2,779,319	113,291
December 31, 2024		70,897,620	12,368,778	3,800	2,032,941	8,845

Death and Disability Benefits - Last Ten Fiscal Years
(in Thousands)
December 31, 2024

Year Ended		Death Benefit	Ordinary Disability	Duty Disability		Total
December 31, 2015	$	317,000	207,846	93,648		618,494
December 31, 2016		255,000	184,173	99,790		538,963
December 31, 2017		305,000	217,423	(26,959)	(a)	495,464
December 31, 2018		229,000	219,793	48,596		497,389
December 31, 2019		228,500	291,886	95,160		615,546
December 31, 2020		311,000	280,742	96,953		688,695
December 31, 2021		277,500	445,581	13,546		736,627
December 31, 2022		244,500	473,876	45,250		763,626
December 31, 2023		251,500	290,517	17,178		559,195
December 31, 2024		261,000	373,629	40,072		674,701

(a) Reflects net of recoveries of prior duty disability payments in accordance with state statute.

Number of Active Participants - Last Ten Fiscal Years
December 31, 2024

Year Ended	Male Participants	Female Participants	Total
December 31, 2015	1,796	1,267	3,063
December 31, 2016	1,800	1,314	3,114
December 31, 2017	2,114	1,429	3,543
December 31, 2018	1,871	1,316	3,187
December 31, 2019	1,818	1,314	3,132
December 31, 2020	1,683	1,207	2,890
December 31, 2021	1,565	1,129	2,694
December 31, 2022	1,647	1,171	2,818
December 31, 2023	1,789	1,238	3,027
December 31, 2024	1,941	1,329	3,270

Active Participants Statistical Averages - Last Ten Fiscal Years
December 31, 2024

	Male			Female			Combined		
Year Ended	Annual Salary	Age	Service	Annual Salary	Age	Service	Annual Salary	Age	Service
December 31, 2015	$ 40,361	43.0	10.7	$ 34,578	40.0	9.6	$ 37,969	41.8	10.1
December 31, 2016	41,248	42.7	10.5	34,041	39.5	9.3	38,207	41.3	9.9
December 31, 2017	35,986	41.9	10.4	32,383	39.6	8.7	34,532	41.0	8.8
December 31, 2018	40,973	42.6	8.9	35,712	39.9	9.5	38,800	41.5	9.7
December 31, 2019	44,525	43.0	9.8	38,312	40.1	9.6	41,919	41.8	10.0
December 31, 2020	47,895	43.9	10.2	42,647	41.6	10.8	45,703	42.9	10.9
December 31, 2021	49,216	44.7	11.0	43,831	42.7	11.6	46,959	43.8	11.6
December 31, 2022	47,353	43.6	10.7	42,778	41.3	11.0	45,452	42.7	10.8
December 31, 2023	48,113	43.7	9.7	43,330	41.2	10.0	46,157	42.6	9.8
December 31, 2024	51,405	43.1	9.1	47,787	40.5	9.4	49,935	42.0	9.2

Retirees and Beneficiaries Receiving Benefits - Last Ten Fiscal Years
December 31, 2024

Year Ended	Retirees	Surviving Spouses	Children	Total
December 31, 2015	2,097	767	12	2,876
December 31, 2016	2,113	744	13	2,870
December 31, 2017	2,115	745	16	2,876
December 31, 2018	2,136	706	12	2,854
December 31, 2019	2,144	686	13	2,843
December 31, 2020	2,116	648	11	2,775
December 31, 2021	2,104	639	9	2,752
December 31, 2022	2,106	631	8	2,745
December 31, 2023	2,113	614	3	2,730
December 31, 2024	2,097	606	2	2,705

Average Annual Retirees/Surviving Spouses' Benefit Payments - Last Ten Fiscal Years
December 31, 2024

	Average Annual Payments	
Year Ended	Retiree	Spouse
December 31, 2015	$ 26,683	15,525
December 31, 2016	28,048	16,119
December 31, 2017	28,678	16,577
December 31, 2018	29,571	17,101
December 31, 2019	29,808	17,127
December 31, 2020	30,613	17,750
December 31, 2021	31,474	18,551
December 31, 2022	32,451	18,823
December 31, 2023	33,068	19,404
December 31, 2024	33,950	20,013

Funded Ratio - Last Ten Fiscal Years
December 31, 2024

Year Ended		(1) Actuarial Value of Assets	(2) Unfunded Accrued Liabilities	(3) Statutory Reserve Requirements (1) + (2)	(4) % Percent Funded (1) / (3)
December 31, 2015	$	395,652,106	514,608,254	910,260,360	43.5%
December 31, 2016		393,604,997	611,888,096	1,005,493,093	39.1%
December 31, 2017		385,419,506	653,859,938	1,039,279,444	37.1%
December 31, 2018		366,806,612	775,491,353	1,142,297,965	32.1%
December 31, 2019		349,960,428	820,642,552	1,170,602,980	29.9%
December 31, 2020		342,131,743	848,233,901	1,190,365,644	28.7%
December 31, 2021		388,163,499	823,828,474	1,211,991,973	32.0%
December 31, 2022		399,555,117	869,461,766	1,269,016,883	31.5%
December 31, 2023		423,327,172	846,471,228	1,269,798,400	33.3%
December 31, 2024		434,697,780	872,731,602	1,307,429,382	33.2%

Ratio of Unfunded Liability to Payroll - Last Ten Fiscal Years
December 31, 2024

Year Ended	Covered Payroll	Unfunded Liability	Liability % of Payroll
December 31, 2015	$ 122,382,584	514,608,254	420.49%
December 31, 2016	121,126,918	611,888,096	505.16%
December 31, 2017	135,315,008	653,859,938	483.21%
December 31, 2018	133,112,100	775,491,353	582.59%
December 31, 2019	139,204,051	820,642,552	589.52%
December 31, 2020	138,942,498	848,233,901	610.49%
December 31, 2021	134,515,373	823,828,474	612.44%
December 31, 2022	136,917,648	869,461,766	635.03%
December 31, 2023	144,629,413	846,471,228	585.27%
December 31, 2024	168,925,363	872,731,602	516.64%

Revenue by Sources - Last Ten Fiscal Years
December 31, 2024

Year Ended	Employer Contribution	Employee Contributions	Other Income (a)	Total
December 31, 2015	$ 30,588,976	12,368,636	8,911,726	51,869,338
December 31, 2016	30,890,241	12,246,115	31,022,803	74,159,159
December 31, 2017	20,920,614	13,675,292	51,174,093	85,769,999
December 31, 2018	27,638,402	12,125,457	(17,128,885)	22,634,974
December 31, 2019	27,682,089	12,664,855	52,032,781	92,379,725
December 31, 2020	33,939,927	12,634,900	28,131,778	74,706,605
December 31, 2021	83,349,261	12,226,998	53,108,732	148,684,991
December 31, 2022	67,128,978	12,669,678	(43,769,718)	36,028,938
December 31, 2023	70,405,922	13,800,598	37,105,031	121,311,551
December 31, 2024	59,697,606	16,465,467	30,283,996	106,447,069

(a) includes other contributions, net investment income, and securities lending

Average Benefit Payments - Last Ten Fiscal Years
(in Thousands)
December 31, 2024

		Years of Credited Service						
		0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 1/1/15 to 12/31/15								
Average Monthly Benefit	$	466	914	1,019	1,623	2,323	3,478	3,740
Average Final Average Salary	$	7,554	5,306	3,671	3,652	4,401	5,433	4,752
Number of Retired Members		8	10	16	14	7	7	22
Period 1/1/16 to 12/31/16								
Average Monthly Benefit	$	391	869	1,087	1,546	1,984	3,249	3,973
Average Final Average Salary	$	6,774	5,489	3,956	3,407	3,949	4,619	4,838
Number of Retired Members		13	13	11	12	11	12	27
Period 1/1/17 to 12/31/17								
Average Monthly Benefit	$	608	1,113	1,168	1,554	2,414	3,041	4,732
Average Final Average Salary	$	7,626	6,255	4,107	3,824	4,909	4,502	5,605
Number of Retired Members		12	13	16	18	8	9	22
Period 1/1/18 to 12/31/18								
Average Monthly Benefit	$	445	992	1,091	2,184	2,033	3,543	4,438
Average Final Average Salary	$	5,497	5,913	4,057	5,639	3,948	5,185	5,641
Number of Retired Members		5	7	19	14	17	9	31
Period 1/1/19 to 12/31/19								
Average Monthly Benefit	$	628	1,313	788	1,675	2,166	4,016	4,414
Average Final Average Salary	$	8,882	8,164	3,028	4,052	4,230	5,991	5,568
Number of Retired Members		13	11	15	14	11	9	20
Period 1/1/20 to 12/31/20								
Average Monthly Benefit	$	641	1,015	945	1,974	2,340	4,115	4,252
Average Final Average Salary	$	8,277	5,351	3,211	4,895	4,602	6,403	5,377
Number of Retired Members		13	3	7	14	7	10	21
Period 1/1/21 to 12/31/21								
Average Monthly Benefit	$	696	1,344	1,073	2,166	2,906	4,449	4,648
Average Final Average Salary	$	9,195	7,749	3,735	5,348	4,966	6,872	6,092
Number of Retired Members		10	3	12	9	13	6	31
Period 1/1/22 to 12/31/22								
Average Monthly Benefit	$	856	1,617	1,098	2,004	2,625	3,349	4,697
Average Final Average Salary	$	9,201	9,475	3,592	5,103	5,482	4,926	5,979
Number of Retired Members		7	7	16	13	18	13	24
Period 1/1/23 to 12/31/23								
Average Monthly Benefit	$	572	1,241	1,416	2,291	2,601	3,054	4,787
Average Final Average Salary	$	8,644	7,484	5,483	5,826	4,968	4,850	6,047
Number of Retired Members		9	15	10	18	11	16	18
Period 1/1/24 to 12/31/24								
Average Monthly Benefit	$	600	1,382	1,010	2,957	2,970	4,231	4,386
Average Final Average Salary	$	8,283	7,157	3,596	6,657	6,048	6,566	5,624
Number of Retired Members		11	2	10	6	6	11	26

Principal Participating Employers - Current Year and Nine Fiscal Years Ago
December 31, 2024

	December 31, 2024			December 31, 2015		
Participating Government	Covered Employees'	Rank	Percentage of Total System	Covered Employees'	Rank	Percentage of Total System
Chicago Park District	3,262	1	99.76%	3,051	1	99.61%
Retirement Board of the Park Employees' Annuity and Benefit Fund	8	2	0.24%	12	2	0.39%
	3,270		100.00%	3,063		100.00%

Changes in Fiduciary Net Position - Last Ten Fiscal Years
(in Thousands)
December 31, 2024

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Additions										
Employer Contributions	$ 30,589	30,890	20,921	27,638	27,682	33,940	83,349	67,129	70,406	59,698
Employee Contributions	12,369	12,246	13,675	12,126	12,665	12,635	12,227	12,670	13,801	16,465
Investment Income (Loss)	8,912	31,023	51,174	(17,129)	52,033	28,132	53,109	(43,770)	37,105	30,284
Total Additions	51,870	74,159	85,770	22,635	92,380	74,707	148,685	36,029	121,312	106,447
Deductions										
Benefit Payments	68,554	71,568	72,252	73,801	76,466	77,762	78,536	80,503	82,438	83,945
Refunds	2,048	2,509	5,886 *	2,726	2,084	1,608	2,067	2,337	2,893	2,042
Administrative Expenses	1,534	1,538	1,682	1,501	1,529	1,599	1,718	2,002	2,203	2,105
Total Deductions	72,136	75,615	79,820	78,028	80,079	80,969	82,321	84,842	87,534	88,092
Changes in Fiduciary Net Position	(20,266)	(1,456)	5,950	(55,393)	12,301	(6,262)	66,364	(48,813)	33,778	18,355

*Includes refund of increased contributions and reduced disability benefits per court order

Benefit and Refund Deductions from Fiduciary Net Position by Type - Last Ten Fiscal Years
(in Thousands)
December 31, 2024

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Type of Benefit										
Age and Service Benefits										
Retirees	$ 56,095	58,968	59,488	61,178	63,644	64,754	65,656	67,326	69,408	70,897
Spousal	11,823	12,044	12,253	12,108	12,188	12,298	12,126	12,404	12,456	12,363
Children	17	18	16	17	18	21	17	10	15	4
Death Benefits	317	255	305	229	229	311	278	244	252	267
Disability Benefits										
Member-Duty	94	99	(27)	49	95	97	13	45	17	40
Member-Non-Duty	208	184	217	220	292	281	446	474	290	374
Total Benefits	68,554	71,568	72,252	73,801	76,466	77,762	78,536	80,503	82,438	83,945
Type of Refund										
Separation	$ 1,493	2,228	1,835	2,590	1,792	1,592	1,947	2,190	2,780	2,033
Death	555	281	191 *	136	292	16	120	147	113	9
Refund of Increased Contributions and Reduced Disability Benefits	—	—	3,860	—	—	—	—	—	—	—
Total Refunds	2,048	2,509	5,886	2,726	2,084	1,608	2,067	2,337	2,893	2,042

*Includes refund of increased contributions and reduced disability benefits per court order

Retired Members by Type of Benefit
December 31, 2024

Amount of Monthly Benefit	Number of Retired Members	Type of Retirement 1	2	3
$ 1-250	130	69	59	2
251-500	220	161	59	—
501-750	215	165	50	—
751-1,000	185	135	50	—
1,001-1,250	174	133	41	—
1,251-1,500	146	108	38	—
1,501-1,750	131	87	44	—
1,751-2,000	130	79	51	—
Over 2,000	1,374	1,160	214	—
	2,705	2,097	606	2

Type of Retirement
1 Normal Retirement of age and service, including incentive retirements
2 Beneficiary payment, normal surviving spouse
3 Beneficiary payments, child(ren)