

# 2019 Comprehensive Annual Financial Report

Pension Trust  
Funds of the



CITY OF  
**WICHITA**  
wichita.gov

.....  
KANSAS

## Fiscal Year Ended December 31, 2019

### WICHITA RETIREMENT SYSTEMS

- Police & Fire Retirement System of Wichita, Kansas
- Wichita Employees' Retirement System
- Wichita Employees' Retirement System Plan 3B



Pension Trust Funds of  
the City of Wichita, Kansas

# Comprehensive Annual Financial Report

For the Year Ended December 31, 2019



## WICHITA RETIREMENT SYSTEMS

Police and Fire Retirement System of Wichita, Kansas

Wichita Employees' Retirement System

Wichita Employees' Retirement System Plan 3b

Prepared by the Pension Management Office

Department of Finance

455 N. Main Street, 12th floor

Wichita, Kansas 67202

(316) 268-4544

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**WICHITA RETIREMENT SYSTEMS**  
**COMPREHENSIVE ANNUAL FINANCIAL REPORT**  
For the year ended December 31, 2019

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*INTRODUCTORY SECTION*







Department of Finance  
Pension Management  
City Hall – 12<sup>th</sup> Floor  
455 North Main  
Wichita, Kansas 67202

June 25, 2020

The Honorable Mayor and City Council  
Police and Fire Retirement System of Wichita Board of Trustees  
Wichita Employees' Retirement System Board of Trustees

We are pleased to submit the Comprehensive Annual Financial Report (CAFR) of the Wichita Retirement Systems (WRS or Systems); a single employer retirement system comprised of the Police and Fire Retirement System of Wichita, Kansas (PFRS) and the Wichita Employees' Retirement System (WERS) for the year ended December 31, 2019. To the best of our knowledge and belief, the enclosed data is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of the Systems.

Management assumes full responsibility for the completeness and reliability of the information contained in this report, based upon a comprehensive framework of internal controls established for this purpose. Because the cost of internal controls should not exceed anticipated benefits, the objective is to provide reasonable, rather than absolute, assurance that the financial statements are free of any material misstatements.

Kansas statutes require an annual audit of all funds of the City by independent certified public accountants. The certified public accounting firm of Allen, Gibbs & Houlik, L.C. issued an unmodified opinion on the financial statements of the WRS for the year ended December 31, 2019. The independent auditor's letter begins on page A-1 in the Financial Section of this report.

Management's discussion and analysis (MD&A) immediately follows the independent auditor's report and provides a narrative introduction, overview and analysis of the financial statements. This transmittal letter is designed to complement the MD&A and should be read in conjunction with it.

### *Plan History*

The WERS was established in 1948 to provide pension benefits to all civilian employees, their surviving spouses and beneficiaries. The PFRS was established in 1965 to provide pension benefits to commissioned police and fire officers, their surviving spouses and beneficiaries. With the exception of the Teamster represented Transit employees, all full-time employees of the City of Wichita participate in one of these two Systems unless the employee is provided an option to elect to participate in the International City/County Management Association retirement programs.

In October 1999, the assets of the WRS were combined into a single fund for investment purposes. Then, in October 2000, assets of WERS Plan 3 were separated from the combined WERS and PFRS funds for investment, custodial and participant record keeping purposes. Finally, in January 2004, WERS Plan 3 assets were liquidated and the proceeds were reinvested with the other assets of the WRS, which resulted in a combined single fund for investment purposes.

### *Plan Governance*

A 16-member Board of Trustees oversees the PFRS. The members include the City Manager (or designee), the Police Chief, the Fire Chief, three fire officers and three police officers elected by PFRS members of their respective departments and seven members appointed by the City Council. A separate 16-member Board of Trustees oversees the WERS. The members include the City Manager (or designee), the City Manager's appointee, seven members elected by WERS members and seven members appointed by the City Council. The Joint Investment Committee (JIC) is comprised of the President of each Board, two elected members from each Board, two City Council appointees from each Board and a City Manager's designee. The City Manager appoints a Pension Manager who manages staff to carry out the daily operations of the Systems.

### *System Funding and Financial Position*

Funding is the process of setting aside resources for current and future use for the WRS defined benefit plans. The objective of the WRS is to meet funding requirements through contributions, expressed as a percent of active member payroll, and to keep the contribution rate as level from year to year as possible in the absence of plan benefit improvements.

The annual actuarial valuations prepared by the WRS' actuary, Cheiron, Inc., provide an indicator of the funded status of the Systems. As of December 31, 2019, the funded ratio of the PFRS was 91.6 percent and the funded ratio of the WERS was 90.8 percent. The funded ratio is the ratio of actuarial assets to actuarial liabilities. The actuarial liability is that portion of the present value of future benefits that will not be paid by future employer normal costs or member contributions. The difference between this liability and the actuarial value of assets at the same date is referred to as the unfunded actuarial liability (UAL), or surplus if the asset value exceeds the actuarial liability. The Systems' unfunded actuarial liability (or surplus) is amortized over a 20-year rolling period.

In 2019, the funded ratios for PFRS increased by .9 percent and WERS declined by .1 percent, primarily due to the change in the Systems' actuary and salary increases that were less than assumed. The results of the actuarial valuation determine the City's contribution rate for the second calendar year following the valuation date. In 2019, employer contributions for the PFRS decreased from 19.9 percent to 18.9 percent of annual covered payroll, and employer contributions for the WERS decreased from 12.8 percent to 12.1 percent of annual covered payroll. Additional information regarding the financial condition and funding status of the Systems can be found in the Financial and Actuarial Sections of this report.

### *Investments*

The WERS Board of Trustees' investment authority is found in the City of Wichita's Municipal Code, Section 2.28.090. Investment authority for the PFRS Board of Trustees is contained in Section 12 of Charter Ordinance 230.

As of December 31, 2019, the fiduciary net position was \$1.36 billion, an increase of 14.29% over the December 31, 2018 net position of \$1.19 billion. The net investment return of the WRS' combined investment portfolio was 19.23% for the year ended December 31, 2019, underperforming the WRS' investment target benchmark return of 20.03% for the same period. The investment return over the past ten-year period was 8.98%, outperforming the benchmark return of 8.19% and the Systems' long-term actuarial target of 7.5%.

The WERS and PFRS Boards of Trustees have established an overall strategic asset allocation policy based upon the financial needs of the joint fund and the Boards' tolerance for volatility, or risk. The Boards utilize external investment managers providing both passive and active strategies. The portfolio is broadly diversified among equities, fixed income, real estate and timber, with additional diversification achieved in equities and fixed income through domestic and international allocations. With the assistance of the Systems' financial consultant, Callan LLC and Pension Management staff, the Trustees continue to monitor the investment program and review the policy for future changes to the asset allocation, manager allocations and possible additional investment types. For more information on investment strategies and policies, safeguards on investments and a comparative analysis of investment results over time, please refer to the Investment Section of this report beginning on page B-1.

### *Major Initiatives and Significant Actions*

Custodial Bank Additional Services: On January 1, 2018, the Bank of New York Mellon (BNY Mellon) began providing the following services: custody and safekeeping; asset servicing; corporate action processing; transaction processing; income collection; accounting; GASB reporting support; proxy notification; class and corporate action support; online access; cash management; retiree services; and processing pension payments to the Systems' members and their beneficiaries. In 2019, staff worked closely with BNY Mellon to ensure that annual reporting accurately reflected the pertinent data for the first year under their contract. Also, the Retirement Boards approved the implementation of the BNY Mellon Participant Website services for the WERS and PFRS retirees. BNY Mellon Website services allows retirees to view their monthly benefit amount, federal and state tax deductions, credit union deductions and healthcare deductions. In addition, retirees are able to access their 1099 tax forms.

Retirement Board Education: Members of the WERS and PFRS Boards of Trustees attended Callan College in 2019, which provided an extensive overview of the fiduciary duties for the Trustees of the WRS. Staff coordinated the training through WRS' investment consultants, Callan LLC. The training defined the role of a fiduciary, outlined fiduciary responsibilities, reviewed different plan types and the various laws governing them. Other topics presented included key fundamentals of capital market theory and asset allocation, as well as how to determine asset allocation and develop the appropriate asset mix across the selected asset classes, while also stressing the importance on allocation reviews for Plan Sponsors. Since WRS utilizes securities lending in the portfolio, a BNY Mellon representative presented an overview on that subject matter as well. In conclusion, the Callan investment consultants provided the WERS and PFRS Boards of Trustees the current trends for defined benefit and defined contribution plans.

Asset Allocation Changes: During the year, the JIC of the WRS made two significant changes to the asset mix in the portfolio. After reviewing the long-term commodity asset class performance, as well as WRS' commodity manager's performance with the investment consultant, the Committee decided to liquidate the three percent position and reallocate the majority of the funds to a \$25 million commitment to a new timber fund, Molpus Woodlands Group Fund V. The commodities were liquidated in May, 2019 and the new timber fund called \$21 million of the commitment by the end of the year.

New Funding Policy: After long considerations by the WERS Board and in consultation with the System's actuary, the WERS Board adopted a new Funding Policy in January, 2019. The Funding Policy outlines the funding objectives and goals for the Retirement System, performance measures regarding the funded ratio and the City contribution rates, as well as key funding elements, including actuarial methods, actuarial assumptions and amortization. The Policy will be reviewed and amended as necessary by the Trustees, but not less frequently than every five years following the actuarial experience study.

Actuary Change: Based on the recommendation of the JIC, the WERS and PFRS Boards of Trustees approved the selection of Cheiron, Inc. as the Systems' actuary to replace Cavanaugh Macdonald Consulting LLC. In 2017, Cheiron, Inc. was hired to perform a secondary actuarial audit for the Systems, enabling a smooth transition in 2019.

## *Awards*

The Government Finance Officers Association (GFOA) of the United States and Canada awarded a Certificate of Achievement for Excellence in Financial Reporting to the Wichita Retirement Systems (WRS) for its comprehensive annual financial report for the fiscal year ended December 31, 2018. This was the 20th consecutive year that the Systems have achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

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

In addition, the Wichita Retirement System also received the Public Pension Coordinating Council's (PPCC) Public Pension Standards Award for the fiscal year ended December 31, 2019 in recognition of meeting professional standards for pension plan design and administration, as set forth in the Public Pension Standards. This was the 17th consecutive year the System obtained this important award. This award is presented by the PPCC, a confederation of the National Association of State Retirement Administrators (NASRA), the National Conference on Public Employee Retirement Systems (NCPERS) and the National Council on Teacher Retirement (NCTR). The System believes that its plan design and administration continued to meet the PPCC award criteria during 2020 and plans to apply for the Public Pension Standards Award.

## *Acknowledgments*

This report was made possible through the combined efforts of Pension Management Staff, the Controller's Office, and the City Treasurer. We wish to express our appreciation to all members of the department as well as other City staff who assisted and contributed to its preparation.

Respectfully submitted,



Shawn Henning  
Director of Finance



Mark L. Manning  
City Treasurer



Pam Beim  
Pension Manager



Government Finance Officers Association

Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting

Presented to

**Wichita Retirement Systems  
Kansas**

For its Comprehensive Annual  
Financial Report  
for the Fiscal Year Ended

**December 31, 2018**

*Christopher P. Morill*

Executive Director/CEO



Public Pension Coordinating Council

***Public Pension Standards Award  
For Funding and Administration  
2019***

Presented to

***Wichita Retirement Systems***

In recognition of meeting professional standards for  
plan funding and administration as  
set forth in the Public Pension Standards.

*Presented by the Public Pension Coordinating Council, a confederation of*

National Association of State Retirement Administrators (NASRA)  
National Conference on Public Employee Retirement Systems (NCPERS)  
National Council on Teacher Retirement (NCTR)

A handwritten signature in black ink that reads "Alan H. Winkle". The signature is written in a cursive style with a large initial 'A'.

Alan H. Winkle  
Program Administrator

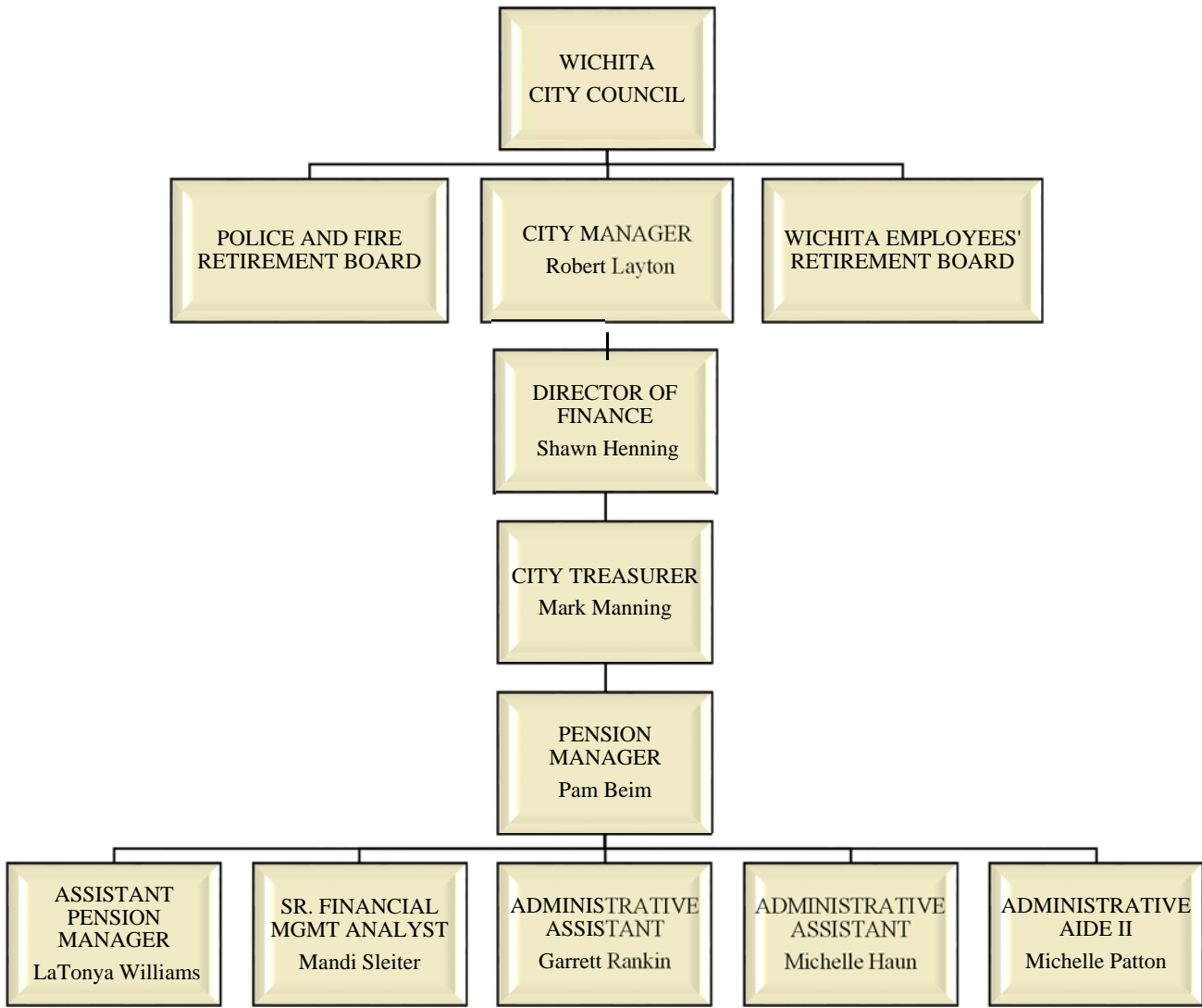
**WICHITA EMPLOYEES' RETIREMENT SYSTEM  
BOARD OF TRUSTEES**

Melinda Walker (President)	Elected
Mark Hall (1st V.P.)	Elected
Mark Manning (2nd V.P.)	Elected
Carla Burgardt	Appointed by Council Member
James Deckard	Appointed by Council Member
Mike Hastings	Appointed by Council Member
Robert Lancaster	Appointed by Council Member
Vacant	Appointed by Council Member
Vacant	Appointed by Council Member
Shelly Hammond	Appointed by Mayor
Shawn Henning	City Manager Appointee
Jeff Kennedy	City Manager Designee
Maria Bias	Elected
LaDonna Lawrenz	Elected
Hannah Lang	Elected
William Perkins	Elected

**POLICE AND FIRE RETIREMENT SYSTEM  
BOARD OF TRUSTEES**

Lance Oldridge (President)	Police Elected
Jeremy Spexarth (1st V.P.)	Fire Elected
Merle Bumgarner (2nd V.P.)	Fire Elected
Tracee Adams	Appointed by Council Member
David Cain	Appointed by Council Member
Robert Decker	Appointed by Council Member
Martha Pint	Appointed by Council Member
Gavin Seiler	Appointed by Council Member
Vacant	Appointed by Council Member
Paul O'Mara	Appointed by Mayor
Shawn Henning	City Manager Designee
Tammy Snow	Fire Chief
Jason Jones	Fire Elected
Gordon Ramsay	Police Chief
Lemuel Moore	Police Elected
Robert Schmeidler	Police Elected





**ACTUARY**

Cheiron  
200 W. Monroe  
Chicago, IL 60606

**CUSTODY INSTITUTION**

The Bank of New York Mellon  
500 Grant Street, 151-4040  
Pittsburg, PA 15258

**DEFINED CONTRIBUTION PARTICIPANT ACCOUNTING**

Northeast Retirement Services  
12 Gill Street, Suite 2600  
Woburn, Massachusetts 01801

**FINANCIAL CONSULTANT**

Callan, LLC  
1900 16<sup>th</sup> Street, Suite 1175  
Denver, Colorado 80202

**INDEPENDENT AUDITORS**

Allen, Gibbs & Houlik, L.C.  
Epic Center, 301 N. Main Street, Suite 1700  
Wichita, Kansas 67202

**LEGAL SERVICES**

City of Wichita, Law Department  
455 N. Main, 13<sup>th</sup> Floor  
Wichita, Kansas 67202

**LEGAL SERVICES**

Ice Miller, L.L.P.  
One American Square, Suite 3100  
Indianapolis, Indiana 46282

**PARTICIPANT EDUCATION**

NestEgg Consulting, Inc.  
125 N. Market Street, Suite 1050  
Wichita, Kansas 67202

A list of professional investment managers and their fees are presented on page B-9. A schedule of brokerage commissions is presented on page B-10.

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*FINANCIAL SECTION*



The Boards of Trustees  
**Wichita Retirement Systems**  
**Wichita, Kansas**

## **Report on the Financial Statements**

We have audited the accompanying financial statements of the Wichita Retirement Systems of the City of Wichita, Kansas (Systems) as of and for the year ended December 31, 2019, and the related notes to the financial statements, which collectively comprise the Systems' basic financial statements as listed in the table of contents.

### ***Management's Responsibility 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; this includes 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.

### ***Auditor's Responsibility***

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements 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 entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### ***Opinion***

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Systems as of December 31, 2019, and the changes in the Systems' financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

### ***Report on Summarized Comparative Information***

We have previously audited the Systems' 2018 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated June 26, 2019. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2018, is consistent, in all material respects, with the audited financial statements from which it has been derived.

## **Other Matters**

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and required supplementary information listed in the table of contents be presented to supplement the basic financial statements. Such information, 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 and Other Information*

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Systems' basic financial statements. The accompanying supporting schedules on pages A- 38 and A-39, and the introductory, investment, actuarial and statistical sections as listed in the table of contents are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The supporting schedules on pages A-38 and A-39 are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such 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, such information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment, actuarial and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

## **Other Reporting Required by Government Auditing Standards**

In accordance with *Government Auditing Standards*, we have also issued our report dated June 24, 2020 on our consideration of the Systems' internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Systems' internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Systems' internal control over financial reporting and compliance.

*Allen, Gibbs & Houlik, L.C.*  
CERTIFIED PUBLIC ACCOUNTANTS

June 24, 2020  
Wichita, Kansas

This management discussion and analysis (MD&A) provides an overview and analysis of the Wichita Retirement Systems' (WRS) financial activities and performance for the fiscal year ended December 31, 2019. The management discussion and analysis is presented in conjunction with the transmittal letter at the front of this report and the WRS's financial statements, which follow this section.

### **OVERVIEW OF THE FINANCIAL STATEMENTS**

The two basic financial statements of the WRS are the Statement of Fiduciary Net Position and the Statement of Changes in Fiduciary Net Position which may be found on pages A-6 and A-7. The statements are prepared in conformity with accounting principles generally accepted in the United States.

The Statement of Fiduciary Net Position is presented for the pension trust funds as of December 31, 2019, with combined total comparative information as of December 31, 2018. The Statement of Fiduciary Net Position presents information on all of the Systems' assets and liabilities, with the difference between the two reported as net position restricted for pensions. The statement is a snapshot of the financial position of the Systems at the close of the fiscal year. The Statement of Changes in Fiduciary Net Position is presented for the pension trust funds for the year ended December 31, 2019, with combined total comparative information for the year ended December 31, 2018. This statement presents information showing how the Systems' net position changed during the fiscal year. Notes to the Financial Statements beginning on page A-9 provide additional information, which is not included in the statements themselves, but is essential for a full understanding of the financial statements.

Required Supplementary Information consists of schedules and related notes concerning significant actuarial information and assumptions. Beginning on page A-28, these schedules and notes emphasize the long-term nature of pension plans and show the progress of each system in accumulating sufficient assets to pay future benefits.

- The Schedules of Changes in the Employer's Net Pension Liability and Related Ratios presents detailed information about the pension liabilities for which the pension plans' assets are held and managed. The schedules are intended to assist financial statement users in understanding the magnitude of the pension liability and the degree to which net position restricted for pensions is sufficient to cover the liability for each plan.
- The Schedules of Employer Contributions show the amount of actuarially determined required contributions relative to the actual contributions made during the year. These schedules also present covered payroll and contributions reported for each plan.
- The Schedule of Investment Returns shows the money-weighted rate of return on investments, net of investment expense. The money-weighted rate of return is a method for calculating investment performance on pension investments that adjusts for the changing amounts actually invested.

The Supplementary Information includes a Schedule of Administrative Expenses, a Schedule of Investment Expenses and a Schedule of Payments to Consultants Other Than Investment Advisors to show detail of the administrative and investment costs to operate the Systems.

### **FINANCIAL STATEMENT ANALYSIS**

**Fiduciary Net Position.** Total fiduciary net position increased by \$169.9 million during the 2019 fiscal year. This change primarily consisted of a \$154.4 million increase in cash and investments, excluding securities lending investments, primarily due to the net appreciation in the fair value of investment holdings. The net investment return was 19.23% for the year ended December 31, 2019. Investment returns by asset class were: domestic equity 30.44%, international equity 21.82%, fixed income 10.03%, real estate 2.83% and timber 1.30%.

As of December 31, 2019, total securities lending obligations decreased by \$1.1 million as compared to December 31, 2018. Several factors influence the amount of securities lent at any point in time, including the demand for the securities, the negotiated rebate rate and the overall market volatility.



Comparative summary financial statements for the years ended December 31, 2019 and 2018 are presented in the accompanying tables:

Summary of Fiduciary Net Position As of December 31,			
	2019	2018	Increase (Decrease)
<b>ASSETS</b>			
Total cash and investments	\$ 1,356,684,678	\$ 1,202,258,643	\$ 154,426,035
Total receivables	19,092,372	6,564,785	12,527,587
Investment in securities lending collateral	2,753,663	3,891,200	(1,137,537)
Total assets	1,378,530,713	1,212,714,628	165,816,085
<b>LIABILITIES</b>			
Accounts payable and accrued expenses	1,867,515	2,555,054	(687,539)
Investment purchases pending	15,153,907	17,417,355	(2,263,448)
Securities lending obligations	2,753,663	3,891,200	(1,137,537)
Total liabilities	19,775,085	23,863,609	(4,088,524)
<b>FIDUCIARY NET POSITION</b>	<b>\$ 1,358,755,628</b>	<b>\$ 1,188,851,019</b>	<b>\$ 169,904,609</b>
Summary of Changes in Fiduciary Net Position For the year ended December 31,			
	2019	2018	Increase (Decrease)
<b>ADDITIONS</b>			
Contributions	\$ 33,244,332	\$ 34,189,629	\$ (945,297)
Net Investment income (loss)	225,035,385	(84,098,159)	309,133,544
Reclassifications due to participant conversion	94,720	179,012	(84,292)
Total additions	258,374,437	(49,729,518)	308,103,955
<b>DEDUCTIONS</b>			
Pension benefits	85,309,833	79,899,876	5,409,957
Pension administration	1,240,831	1,197,686	43,145
Employee contributions refunded	1,824,444	1,501,064	323,380
Reclassifications due to participant conversion	94,720	179,012	(84,292)
Total deductions	88,469,828	82,777,638	5,692,190
Net Increase (decrease) in net position	169,904,609	(132,507,156)	302,411,765
Fiduciary net position - beginning	1,188,851,019	1,321,358,175	(132,507,156)
<b>Fiduciary net position - ending</b>	<b>\$ 1,358,755,628</b>	<b>\$ 1,188,851,019</b>	<b>\$ 169,904,609</b>

**Changes in Fiduciary Net Position.** Additions to fiduciary net position that are necessary to finance Plan benefit obligations come primarily from employer and employee contributions and net earnings on investments. For the year ended December 31, 2019, total additions were \$258.4 million, which is approximately a \$308.1 million increase from the 2018 total additions of (\$49.7) million. Employer and employee contributions decreased from amounts reported in 2018. However, net investment income increased by \$309.1 million from the prior year.

Deductions from fiduciary net position are consistent with characteristics of a mature pension system. Pension benefits increased from \$79.9 million in 2018 to \$85.3 million in 2019, or approximately \$5.4 million or 6.8%. This amount includes DROP and BackDROP payments, which were \$9 million or 31.8% higher than 2018 levels.



**CONTACTING THE WICHITA RETIREMENT SYSTEM**

This financial report is designed to provide a general overview of the WRS finances for individuals with such an interest. Additional information is provided within the Notes to the Financial Statements. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Pension Management Office, City of Wichita, 455 N. Main St., 12<sup>th</sup> Floor, Wichita KS 67202.

**WICHITA RETIREMENT SYSTEMS  
STATEMENT OF FIDUCIARY NET POSITION**

December 31, 2019  
(with comparative totals as of December 31, 2018)

	Police and Fire Retirement System	Employees' Retirement System	Employees' Retirement Plan 3b	Totals	
				2019	2018
<b>ASSETS</b>					
Cash and temporary investments	\$ 87,517	\$ 122,035	\$ 82,158	\$ 291,710	\$ 165,592
Receivables:					
Investment sales pending	8,034,291	6,807,918	30,682	14,872,891	3,041,004
Interest and dividends	1,608,808	1,363,370	6,996	2,979,174	2,920,360
Other receivables	802,413	421,186	16,708	1,240,307	603,421
Total receivables	<u>10,445,512</u>	<u>8,592,474</u>	<u>54,386</u>	<u>19,092,372</u>	<u>6,564,785</u>
Investments, at fair value:					
Government short-term investment fund	17,285,344	14,727,677	70,113	32,083,134	41,072,687
Equity:					
Domestic equity	289,357,359	245,185,721	2,402,924	536,946,004	433,581,511
International equity	197,707,226	167,529,652	481,688	365,718,566	293,006,659
Fixed income	135,335,335	114,677,294	513,185	250,525,814	249,453,596
Commodities	-	-	-	-	33,702,764
Real estate	48,749,084	41,308,448	-	90,057,532	90,063,631
Target date and money market funds	-	-	6,224,462	6,224,462	5,040,886
Timber	41,239,324	33,545,324	-	74,784,648	56,060,033
Derivative investments	28,527	24,172	109	52,808	111,284
Securities lending short-term collateral investment pool	1,482,860	1,256,485	14,318	2,753,663	3,891,200
Total investments	<u>731,185,059</u>	<u>618,254,773</u>	<u>9,706,799</u>	<u>1,359,146,631</u>	<u>1,205,984,251</u>
Capital assets:					
Pension software	448,990	833,838	-	1,282,828	1,282,828
Accumulated depreciation	(448,990)	(833,838)	-	(1,282,828)	(1,282,828)
Capital assets, net of depreciation	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Total assets	<u>741,718,088</u>	<u>626,969,282</u>	<u>9,843,343</u>	<u>1,378,530,713</u>	<u>1,212,714,628</u>
<b>LIABILITIES</b>					
Accounts payable and accrued payroll	977,019	886,320	4,176	1,867,515	2,555,054
Investment purchases pending	8,183,165	6,934,045	36,697	15,153,907	17,417,355
Securities lending obligations	1,482,860	1,256,485	14,318	2,753,663	3,891,200
Total liabilities	<u>10,643,044</u>	<u>9,076,850</u>	<u>55,191</u>	<u>19,775,085</u>	<u>23,863,609</u>
<b>NET POSITION</b>					
Restricted for pensions	<u>\$ 731,075,044</u>	<u>\$ 617,892,432</u>	<u>\$ 9,788,152</u>	<u>\$ 1,358,755,628</u>	<u>\$ 1,188,851,019</u>

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

**WICHITA RETIREMENT SYSTEMS**  
**STATEMENT OF CHANGES IN FIDUCIARY NET POSITION**

For the year ended December 31, 2019  
(with comparative totals for the year ended December 31, 2018)

	Police and Fire Retirement System	Employees' Retirement System	Employees' Retirement Plan 3b	Totals	
				2019	2018
<b>ADDITIONS</b>					
Contributions:					
Employer	\$ 13,965,415	\$ 9,683,553	\$ 198,342	\$ 23,847,310	\$ 24,632,524
Employee	5,428,455	3,770,224	198,343	9,397,022	9,557,105
Total contributions	<u>19,393,870</u>	<u>13,453,777</u>	<u>396,685</u>	<u>33,244,332</u>	<u>34,189,629</u>
Investment income:					
From investing activities:					
Net appreciation (depreciation) in the fair value of investments	113,454,483	97,044,358	1,728,900	212,227,741	(96,164,319)
Interest	5,116,153	4,351,797	18,758	9,486,708	8,744,476
Dividends	5,199,525	4,446,847	42,005	9,688,377	10,077,075
Commission recapture	8,646	7,385	73	16,104	28,938
Total investing activity income	<u>123,778,807</u>	<u>105,850,387</u>	<u>1,789,736</u>	<u>231,418,930</u>	<u>(77,313,830)</u>
Less investment expense	<u>3,491,467</u>	<u>2,994,929</u>	<u>13,713</u>	<u>6,500,109</u>	<u>6,910,361</u>
Net income (loss) from investing activities	<u>120,287,340</u>	<u>102,855,458</u>	<u>1,776,023</u>	<u>224,918,821</u>	<u>(84,224,191)</u>
From securities lending activities:					
Securities lending income	104,144	89,043	641	193,828	189,652
Less securities lending expense:					
Borrower rebates	20,160	17,261	127	37,548	18,619
Management fees	21,337	18,237	142	39,716	45,001
Total securities lending expenses	<u>41,497</u>	<u>35,498</u>	<u>269</u>	<u>77,264</u>	<u>63,620</u>
Net income from securities lending activities	<u>62,647</u>	<u>53,545</u>	<u>372</u>	<u>116,564</u>	<u>126,032</u>
Total net investment income (loss)	<u>120,349,987</u>	<u>102,909,003</u>	<u>1,776,395</u>	<u>225,035,385</u>	<u>(84,098,159)</u>
Reclassifications due to participant conversion	-	-	94,720	94,720	179,012
Total additions	<u>139,743,857</u>	<u>116,362,780</u>	<u>2,267,800</u>	<u>258,374,437</u>	<u>(49,729,518)</u>
<b>DEDUCTIONS</b>					
Pension benefits	41,686,750	43,623,083	-	85,309,833	79,899,876
Pension administration	612,049	619,398	9,384	1,240,831	1,197,686
Employee contributions refunded	424,631	824,813	575,000	1,824,444	1,501,064
Reclassifications due to participant conversion	-	94,720	-	94,720	179,012
Total deductions	<u>42,723,430</u>	<u>45,162,014</u>	<u>584,384</u>	<u>88,469,828</u>	<u>82,777,638</u>
Net increase (decrease) in net position	97,020,427	71,200,766	1,683,416	169,904,609	(132,507,156)
Net position, beginning	<u>634,054,617</u>	<u>546,691,666</u>	<u>8,104,736</u>	<u>1,188,851,019</u>	<u>1,321,358,175</u>
Net position, ending	<u>\$ 731,075,044</u>	<u>\$ 617,892,432</u>	<u>\$ 9,788,152</u>	<u>\$ 1,358,755,628</u>	<u>\$ 1,188,851,019</u>

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

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**1. Summary of Significant Accounting Policies****A. Reporting Entity**

The Wichita Employees' Retirement System, the Wichita Employees' Retirement System Plan 3b and the Police and Fire Retirement System of Wichita are reported as pension trust funds of the City of Wichita, Kansas and its component units (the reporting entity). The plans consist of two single-employer defined benefit pension plans and a single-employer defined contribution plan, covering all full-time employees.

The defined benefit plans include the Wichita Employees' Retirement System (WERS) and the Police and Fire Retirement System (PFRS). A separate Board of Trustees administers each System. The single-employer defined contribution plan consists of the Wichita Employees' Retirement System Plan 3b, which is also administered by the Wichita Employees' Retirement System Board of Trustees.

The WERS Board of Trustees is comprised of 16 members, including the City Manager or the City Manager's designee, one employee appointed by the City Manager, seven members appointed by the City Council and seven employees elected by the WERS employee members. The PFRS Board of Trustees is comprised of 16 members, including the City Manager or the City Manager's designee, the Chief of the Police Department, the Chief of the Fire Department, seven members appointed by the City Council, three fire officers elected by PFRS employee members in the Fire Department or the Airport and three police officers elected by PFRS employee members in the Police Department.

**B. Measurement Focus and Basis of Accounting**

The Wichita Employees' Retirement System, the Wichita Employees' Retirement System Plan 3b and the Police and Fire Retirement System are reported as pension trust funds of the City of Wichita, Kansas in the City's financial statements using the economic resources measurement focus and the accrual basis of accounting. Employee and employer contributions are recognized as revenues in the period in which employee services are performed. Benefits and refunds are recognized when due and payable in accordance with the terms of each plan.

**C. Investments**

Investments are reported at fair value. The Systems invest in real estate through real estate investment trusts, timber through limited partnerships, commodities, Treasury strips and various asset-backed securities, such as collateralized mortgage obligations and credit card trusts. Short-term investments are reported at cost plus accrued interest, which approximates fair value. Investments traded on national or international exchanges are valued at the last trade price of the day. If no close price exists, then a bid price is used. Mortgages are valued on the basis of future principal and interest payments, and are discounted at prevailing interest rates for similar investments. The fair value of real estate and timber investments are estimated using the net asset value of the shares owned in each fund. Investments that do not have an established market are reported at their estimated fair value.

**D. Capital Assets**

Capital assets include hardware and software. Capital assets are defined as assets with an initial individual minimum cost of \$5,000. Capital assets are valued at historical cost or estimated historical cost (if actual historical cost is not available). The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend the life of an asset are not capitalized. Major outlays for capital assets and improvements are capitalized as projects are constructed. Capital assets are depreciated using the straight-line method over useful lives of one to 33 years for office equipment and seven to 20 years for data processing software.

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**E. Management of Plan Assets**

The Boards of Trustees of the Systems have contractual arrangements with independent money managers for investment of the assets of the Systems. The firms have been granted discretionary authority concerning purchases and sales of investments within guidelines established by City Ordinances and the Strategic Plan and Investment Policies adopted by the Boards of Trustees. The Boards of Trustees of the Systems also have contractual arrangements with independent firms which monitor the investment decisions of the Systems' investment managers.

**F. Estimates**

Preparation of financial statements in conformity with Generally Accepted Accounting Principles (GAAP) requires making estimates and assumptions that affect: (1) the reported amounts of assets and liabilities, (2) disclosures such as contingencies and (3) the reported amounts of revenues and expenses included in the financial statements. Actual results could differ from those estimates. Some of the more significant estimates include the valuation of certain investments described in the Notes to the Financial Statements and the actuarial assumptions used in calculating the total pension liability and net pension liability.

**G. Prior Year Comparative Information**

The basic financial statements include certain prior year comparative information that is summarized in total, but not at the level of detail required for a presentation in conformity with GAAP. Accordingly, such information should be read in conjunction with the Systems' financial statements for the year ended December 31, 2018, from which the summarized information has been derived.

**2. Cash, Investments and Securities Lending**

City Ordinance (49-036; Section 2.28.090) authorizes the Wichita Employees' Retirement System and City Charter Ordinance (230; Section 12) authorizes the Police and Fire Retirement System to invest trust fund assets in accordance with the prudent person rule, subject to the following limitations: (1) the proportion of funds invested in corporate preferred and common stock shall not exceed 70% and (2) the proportion of funds invested in foreign securities shall not exceed 35%. Additionally, the Systems are not permitted to invest directly or indirectly in any:

1. Real estate, except in certain pooled arrangements with the amount of such investment not to exceed 10% of the Fund;
2. Private equity, except in a commingled fund-of-funds vehicle operated by a registered investment advisor or a bank with the amount of such investment not to exceed 10% of the Fund;
3. Timber, except in a commingled fund vehicle operated by a registered investment advisor or a bank. The amount of such investment shall not exceed 10% of the Fund;
4. Mortgages secured by real estate, except insured mortgages under Titles 203, 207, 220 and 221 of the Federal Housing Act;
5. Oil and gas leases or royalties;
6. Commodities (including, but not limited to, wheat, gold, gasoline, options or financial futures); provided however, that the restriction on investments contained in this paragraph shall not apply to funds which are invested in a mutual fund, separate account or commingled fund operated by a registered investment advisor or insurance company; or
7. Letter stocks.

With the exception of the \$291,710 held in the City's pooled funds, as of December 31, 2019, all of the deposits and investments of the Wichita Employees' and Police and Fire Retirement Systems are held in a joint investment fund that is invested by outside money managers and are held under a custodial agreement. The Boards of Trustees have adopted the Strategic Plan and Investment Policies which set forth in detail the asset allocation for the fund and restrictions applicable to specific investment types to mitigate risk. The policies permit investment in five asset types: domestic equities, international equities, fixed income, real estate and timber.



With the assistance of the Investment Consultant, the Joint Investment Committee (JIC) establishes the investment policies which are reviewed annually. In 2018, the JIC approved a seven year time frame to achieve an annualized real rate of return of four and three quarters of a percent (4.75%) above the price inflation assumption. Each manager's performance will also be compared to a relevant market index as outlined in the investment policy.

The investments of the Wichita Retirement Systems (WRS), excluding the securities lending short term collateral investment pool, on December 31, 2019 are listed in the accompanying table.

Type of Investment	Fair Value
Government short-term investment fund	\$ 32,083,134
Domestic equity	536,946,004
International equity	365,718,566
Fixed income	250,525,814
Real estate	90,057,532
Target date and money market funds	6,224,462
Timber	74,784,648
Derivative investments	52,808
Total investments	\$ 1,356,392,968

The pension funds invest in various asset-backed securities such as collateralized mortgage obligations (CMOs) and credit card trusts to maximize yields and reduce the impact of interest rate changes. These securities are based on cash flows from

principal and interest payments on the underlying assets. For example, CMOs break up the cash flows from mortgages into categories with defined risk and return characteristics called tranches. The tranches are differentiated by when the principal payments are received from the mortgage pool. Changes in interest and mortgage prepayment rates may affect the amount and timing of cash flows, which would also affect the reported estimated fair values. The pension funds utilize a combination of asset-backed securities, which vary in their degree of volatility. Although considerable variability is inherent in such estimates, management believes the estimated fair values are reasonable estimates.

The pension funds also invest in real estate through real estate investment trusts (REITs). The fair values of these investments are estimated using the net asset value of the Systems' shares owned in each trust. Market conditions have had an impact on the estimated fair value of real estate investments. Restrictions on the availability of real estate financing, as well as economic uncertainties, have affected the volume of purchase and sale transactions. As a result, the estimates and assumptions used in determining the fair values of the real estate investments are inherently subject to uncertainty.

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Fair Value Measurement:

The Retirement Systems hold significant amounts of investments that are measured at fair value on a recurring basis. The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices for identical assets in active markets that can be assessed at the measurement date (Level 1) and the lowest priority to unobservable inputs (Level 3).

The three levels of the fair value hierarchy under GASB Statement No. 72 are described as follows:

Level 1 – Inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that a government can access at the measurement date.

Level 2 – Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of assets or liabilities.

Level 3 – Unobservable inputs which are supported by little or no market activity and are significant to the fair value of the assets or liabilities.

Specific investments that are measured using the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. Such investments are identified in the accompanying tables as Net Asset Value (NAV).

The plan categorizes its fair value measurements within the fair value hierarchy established by GAAP. The Fair value of measurements for the investments of the WRS on December 31, 2019 are listed in the accompanying table.

	12/31/2019	Level 1 Inputs	Level 2 Inputs
<b>Investments by fair value level<sup>1</sup>:</b>			
Cash and cash equivalents	\$ 5,814,350	\$ 5,497,012	\$ 317,338
Equity:			
Domestic equity	381,909,968	381,909,968	-
International equity	138,588,846	138,588,846	-
Fixed income	243,559,994	20,031,277	223,528,717
Money market funds	359,693	359,693	-
Derivative investments	52,808	(648,642)	701,450
Total investments by fair value level	<u>770,285,659</u>	<u>\$ 545,738,154</u>	<u>\$ 224,547,505</u>
<b>Investments measured at net asset value (NAV):</b>			
Government short-term investment fund	26,268,784		
Equity:			
Domestic equity	155,036,036		
International equity	227,129,720		
Fixed income	6,965,820		
Real estate	90,057,532		
Target date funds	5,864,769		
Timber	74,784,648		
Total investments measured at NAV	<u>586,107,309</u>		
Total investments	<u>\$ 1,356,392,968</u>		

<sup>1</sup> There were no investments valued using Level 3 inputs at December 31, 2019 .

Debt, equity and other securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities.

Equity securities classified as Level 2 of the fair value hierarchy are traded on inactive markets or valued by reference to similar instruments using (1) marked based-factors, such as credit, liquidity and interest rate conditions, and (2) issuer-specific factors, such as creditworthiness of the issuer and likelihood of full repayment at maturity. Fixed income securities classified as Level 2 of the fair value hierarchy are valued using a matrix pricing technique. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices.

Derivative instruments classified as Level 1 of the fair value hierarchy include forwards and options which are traded on active exchanges. Derivative instruments classified as Level 2 of the fair value hierarchy are valued using a market approach. Options contracts derive their value from underlying asset prices, indices, reference rates and other inputs or a combination of these factors. These contracts are normally valued on the basis of pricing service providers or broker dealer quotations. Depending on the product and the terms of the transaction, the value of the financial derivative instruments can be estimated by a pricing service provider using a series of techniques, including simulation pricing models. The pricing models are inputs that are observed from actively quoted markets such as issuer details, indices, spreads, interest rates, yield curves and exchange rates. For centrally cleared credit default swaps, the clearing facility requires its members to provide actionable price levels across complete term structures. These levels along with external third party prices are used to produce daily settlement prices. Centrally cleared interest rate swaps are valued using a pricing model that references the underlying rates including the overnight index swap rate and London Interbank Offered Rate (LIBOR) forward rate to produce the daily settlement price.

Additional information relating to the investments measured at the NAV for WRS on December 31, 2019 are listed in the accompanying table.

Investments Measured at Net Asset Value (NAV)	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period (Days)
Government short-term investment fund	\$ 26,268,784	-	Daily	5
Domestic equity	155,036,036	-	Daily	1
International equity	227,129,720	-	Bi-monthly, monthly	15-30
Fixed income	6,965,820	-	Daily	1
Real estate	90,057,532	-	Quarterly	45-60
Target date funds	5,864,769	-	Daily	1
Timber	74,784,648	4,000,000	N/A	N/A
Total investments measured at NAV	<u>\$ 586,107,309</u>	<u>\$ 4,000,000</u>		

Net Asset Value: WRS reports the following types of investments valued at Net Asset Value (NAV).

*Government short-term investment fund* – The government short-term investment fund that is measured at the NAV is a collective trust that invests any cash balances from the actively managed fund managers of the Systems, as well as the Systems' cash fund. The investment objective of the Fund is to maintain liquidity to ensure cash availability for withdrawals while preserving the principal.

*Domestic equity* – The Systems have one domestic equity fund manager that is an S&P 500 securities lending index fund measured at the NAV. This Fund seeks an investment return that approximates the performance of the S&P 500 over the long term. NAV is calculated on a daily basis based upon the fair value of the underlying investments.

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*International equity* – The Systems have three fund managers with commingled investments in international equities that are measured using NAV. These fund managers are structured as limited partnerships and a MSCI securities lending index fund. The limited partnerships calculate NAV through a capital account maintained for each partner. The MSCI securities lending index fund calculates NAV on a per unit basis of the Fund and is determined as of the last business day of each month and at least one other business day during the month.

*Fixed Income* – The Systems have one fund manager that invests in commingled fixed income funds. These investments are structured within three funds; Opportunistic US\$ High Yield Securities, Floating Rate High Income and Opportunistic Non-Dollar Hedged. The NAV for these funds is calculated daily on a per share value from the fair value of the underlying investments at the end of each day that the New York Stock Exchange is open as of the close of regular trading.

*Real Estate* – The Systems have two fund managers that invest in real estate measured at the NAV. These investments are in Real Estate Investment Trusts (REITs) and commingled real estate through a limited partnership. Both fund managers calculate NAV per unit from fair value estimates based on values from independent appraisals on a quarterly basis.

*Target date funds* – The Systems have various target date funds that are measured at the NAV. The NAV is determined each business day based on the value the underlying investments.

*Timber* – The Systems have one fund manager that invests in timber measured at the NAV. This fund manager is structured as a limited partnership and calculates NAV from independent appraisals in capital accounts maintained for each partner.

Custodial Credit Risk: The custodial credit risk for deposits is the risk that in the event of a bank failure, the WRS' deposits may not be recovered. On December 31, 2019, the WRS' cash deposits in the amount of \$291,710 were included in the City's pooled cash and temporary investments. The WRS' debt securities investments were registered in the name of WRS and were held in the possession of the WRS' custodial bank, The Bank of New York Mellon. Amounts held in the City's pooled cash and temporary investments were fully collateralized as of December 31, 2019. Additional information about the City's pooled cash and investments is available in the City's separately issued Comprehensive Annual Financial Report, available upon request from the Pension Management Office.

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**Interest Rate Risk:** Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Interest rate risk is managed using the modified duration methodology. Duration is a measure of fixed income cash flow using present values, weighted for cash flows as a percentage of the investment's full price. The modified duration methodology estimates the sensitivity of a bond's price to interest rate changes. WRS manages their exposure to fair value loss arising from increasing interest rates by complying with the following policies:

1. Fixed income managers have full discretion over the issuers selected and may hold any mix of fixed income securities and cash equivalents.
2. Portfolio duration for nominal fixed income managers must not be less than 80% or more than 120% of the duration of the Bloomberg Barclays Capital Aggregate Bond Index (Index), unless the Joint Investment Committee prospectively grants a written exception. As of December 31, 2019, the duration of the Index was 5.87 years, which equated to a minimum and maximum range for each fixed income portfolio of 4.70 years and 7.04 years, respectively.

Investment Type	Fair Value	Percent of all Fixed Income Assets	Weighted Average Modified Duration (years)
Corporate debt instruments, long-term	\$ 90,404,409	31.9 %	5.5
Government securities long-term	28,625,815	10.1	9.9
Mortgage and asset-backed securities	75,642,379	26.7	4.4
Global fixed income	49,379,794	17.5	6.8
Actively managed investments	244,052,397	86.2	5.9
Government short-term investment fund	32,083,134	11.3	-
Pooled high-yield fixed income securities	6,961,753	2.5	-
Pooled international fixed income securities	4,066	-	1.2
Total investment in debt securities	\$ 283,101,350	100.0 %	

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**Credit Risk of Debt Securities:** Credit risk is the risk that an issuer of an investment will not fulfill its obligations. The WRS manages exposure to investment credit risk by adhering to the following policies: (1) for active core domestic fixed income investments, at the time of purchase, bonds and preferred stocks must be rated at least “A2/A/A” or higher using the middle rating of Moody’s, Standard and Poor’s and Fitch after dropping the highest and lowest available ratings. When a rating from only two agencies is available, the lower (“more conservative”) rating is used. When a rating from only one agency is available, that rating is used to determine credit quality; and (2) for core-plus domestic fixed income investments, the weighted average credit quality of the portfolio will not fall below “A2/A/A” or equivalent; when determining credit quality, the middle rating of Moody’s, Standard and Poor’s and Fitch is used after dropping the highest and lowest available ratings. When a rating from only two agencies is available, the lower (“more conservative”) rating is used. When a rating from only one agency is available, that rating is used to determine credit quality. Throughout 2019, no securities were purchased that were below the established credit quality minimum in the active core portfolio and the weighted average credit quality of the active core plus portfolio did not fall below the established credit quality rating. The

Quality Rating	Total Debt Securities
AAA	\$ 36,636,612
AA+	65,733,463
AA	4,754,391
AA-	4,458,591
A+	9,786,614
A	15,196,995
A-	30,272,392
BBB+	21,922,378
BBB	16,172,478
BBB-	12,507,518
BB+	4,040,443
BB	918,497
BB-	3,511,371
B+	500,321
B	549,821
B-	921,540
CCC+	329,248
CCC	304,416
CCC-	12,327
CC	413,822
D	27,223
NR	21,912,419
WR	135,336
Total credit risk debt securities	251,018,216
Government short-term investment fund*	32,083,134
Total investment in debt securities	\$ 283,101,350

\*The collective trust government short-term investment fund itself is not rated. Each holding within the fund is rated, but an average rating is not available.

The accompanying table shows the debt investments held by the WRS on December 31, 2019 and their respective ratings by Standard and Poor’s or an equivalent nationally recognized statistical rating organization.

Credit risk for investment derivative instruments results from counterparty risk assumed by the WRS. This is essentially the risk that the counterparty to a WRS’ transaction will be unable to meet its obligation. Information regarding the WRS’ credit risk related to derivatives is found in the derivatives disclosures that follow.

**Concentration of Credit Risk:** Concentration of credit risk is the risk of loss that may be attributed to the magnitude of an entity’s investment with a single issuer. The WRS’ investment in debt securities had no single issuer of investments that represented 5% or more of the plan assets, with exception of investments issued or implicitly guaranteed by the U.S. government and investments in mutual funds, as delineated in the WRS’ investment policy.

**Rate of Return:** The annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 19.77% for the year ended December 31, 2019. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for changing amounts actually invested.

**Derivatives:** Investment derivative instruments are financial contracts for which the value of the contract is dependent on the values of one or more underlying asset, reference rate or financial index. They include futures contracts, swap contracts, options contracts, rights and forward foreign currency exchanges. While the WRS has no formal policy specific to investment derivatives, the WRS, through its external investment managers, held a variety of these instruments as of December 31, 2019. The WRS enters into these investment derivative instruments primarily to enhance the performance, reduce the volatility of its investment portfolio and to manage interest rate risk. The investment derivative instruments held by the WRS on and during the year ended December 31, 2019 are shown on the following pages. The notional values associated with these derivative instruments are generally not recorded in the financial statements; however, the exposure amounts on these instruments are included in the fair value of investments in the Statement of Fiduciary Net Position and the total changes in fair value for the year are included as investment income (loss) in the Statement of Changes in Fiduciary Net Position.

The fair value of derivative investments is based on the exchanges when available. When an exchange is not available, estimated fair values are determined in good faith by using information from J.P. Morgan traders and other market participants, including methods and assumptions considering market conditions and risks existing at the date of the Statement of Fiduciary Net Position. Such methods and assumptions incorporate standard valuation conventions and techniques, such as discounted cash flow analysis and option pricing models. All methods utilized to estimate fair values result only in general approximations of value.

The WRS' investments in derivative instruments on December 31, 2019 are presented in the accompanying tables.

Derivative Investments Summary			
Classification and Type	Change in Fair Value	Notional Value	Exposure/ Fair Value
Foreign currency forward (FFX) contracts	\$ (72,998)	\$ 36,694,675	\$ (209,046)
Futures contracts	(933,374)	57,890,118	(447,025)
Options	104,631	-	15,647
Swaps	716,381	85,764,000	693,232
Total derivative investments	\$ (185,360)	\$ 180,348,793	\$ 52,808

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Derivative Investments Detail				
Classification and Type	Change in Fair Value	Notional Value	Exposure/ Fair Value	Counterparty (Counterparty Rating)
FFX contracts:				
Australian dollar	\$ -	\$ 114,481	\$ (639,935)	N/A <sup>1</sup>
Brazilian real	-	475,564	495,053	N/A <sup>1</sup>
Canadian dollar	-	1,876,935	807,127	N/A <sup>1</sup>
Chilean peso	-	261,618	34,556	N/A <sup>1</sup>
Chinese r y uan h k	-	-	(347,374)	N/A <sup>1</sup>
Chinese y uan renminbi	-	-	(77,475)	N/A <sup>1</sup>
Colombian peso	-	-	(11,257)	N/A <sup>1</sup>
Egyptian pound	-	133,576	135,873	N/A <sup>1</sup>
Euro currency unit	-	654,149	(12,831,302)	N/A <sup>1</sup>
Hong Kong dollar	-	511,934	-	N/A <sup>1</sup>
Indian rupee	-	739,788	673,146	N/A <sup>1</sup>
Indonesian rupiah	-	588,769	612,140	N/A <sup>1</sup>
Japanese yen	-	513,587	(2,999,156)	N/A <sup>1</sup>
Malaysian ringgit	-	-	(1,656,269)	N/A <sup>1</sup>
Mexican peso	-	235,072	(852,124)	N/A <sup>1</sup>
New Taiwan dollar	-	6,131	6,310	N/A <sup>1</sup>
New Zealand dollar	-	-	(391,454)	N/A <sup>1</sup>
Nigerian Najra	-	130,258	131,173	N/A <sup>1</sup>
Norwegian krone	-	611,546	625,983	N/A <sup>1</sup>
Philippines peso	-	-	(374,990)	N/A <sup>1</sup>
Polish Zloty	-	130,010	132,023	N/A <sup>1</sup>
Pound sterling	-	98,721	(2,114,098)	N/A <sup>1</sup>
Russian ruble (new)	-	-	(1,607,899)	N/A <sup>1</sup>
Singapore dollar	-	-	(1,398,213)	N/A <sup>1</sup>
South Korean won	-	130,688	133,250	N/A <sup>1</sup>
Swedish krona	-	-	(573,371)	N/A <sup>1</sup>
Swiss franc	-	132,810	(124,164)	N/A <sup>1</sup>
U.S. dollar	-	29,349,038	22,003,401	N/A <sup>1</sup>
Aggregated	(72,998)	-	-	N/A <sup>1</sup>
Total FFX contracts	(72,998)	36,694,675	(209,046)	
Futures contracts:				
3 month cash futures	(27,627)	10,286,843	(27,627)	Goldman Sachs & Co, NY (BBB+)
Currency futures	3,075	-	-	N/A
Eurodollar futures	140,686	3,061,239	177,961	Goldman Sachs & Co, NY (BBB+)
Eurodollar futures	(199,665)	-	-	N/A
International bond futures	(16,119)	1,459,165	(16,119)	Merrill Lynch Pierce Fenner Smith Inc. NY (A-)
Intl govt bond futures	142,208	(6,543,139)	142,207	Goldman Sachs & Co, NY (BBB+)
Intl govt bond futures	(22,657)	2,752,529	(22,657)	Merrill Lynch Pierce Fenner Smith Inc. NY (A-)
Intl govt bond futures	67,003	-	-	N/A
Intl govt bond futures - UK	6,160	(514,718)	6,160	Goldman Sachs & Co, NY (BBB+)
Intl govt bond futures - UK	4,025	-	-	N/A
Treasury bonds	(360,463)	9,271,900	(360,463)	Goldman Sachs & Co, NY (BBB+)
Treasury bonds	(210,189)	-	-	N/A
Treasury notes	(346,487)	38,116,299	(346,487)	Goldman Sachs & Co, NY (BBB+)
Treasury notes	(113,324)	-	-	N/A
Total futures contracts	(933,374)	57,890,118	(447,025)	

<sup>1</sup> Counterparty ratings for FFX contracts are not available by currency. See table on the following page summarizing FFX contract ratings by counterparty.



Derivative Investments Detail (continued)				
Classification and Type	Change in Fair Value	Notional Value	Exposure/ Fair Value	Counterparty (Counterparty Rating)
Options:				
Credit interest rate swaps	845	N/A	(1,116)	Citigroup Global Markets, Inc. NY (BBB+)
Credit default swaps	953	N/A	-	N/A
Eurodollar futures	3,526	N/A	-	N/A
Foreign currency options	2,168	N/A	-	Goldman Sachs & Co, NY (BBB+)
Foreign currency options	(1,303)	N/A	(6,396)	Citibank, NY (BBB+)
Foreign currency options	358	N/A	5,407	UBS Securities LLC, Stamford (A-)
Foreign currency options	1,749	N/A	(372)	Citigroup Gbl Mkts/Salomon, NY (BBB+)
Foreign currency options	10,704	N/A	10,694	Morgan Stanley & Co Inc, NY (BBB+)
Foreign currency options	46,822	N/A	-	N/A
Treasury bonds	313	N/A	(2,969)	Goldman Sachs & Co, NY (BBB+)
Treasury bonds	(3,160)	N/A	-	N/A
Treasury notes	1,494	N/A	11,899	Goldman Sachs & Co, NY (BBB+)
Treasury notes	2,000	N/A	(1,500)	Merrill Lynch et al. NY (A-)
Treasury notes	38,162	N/A	-	N/A
Total options	104,631		15,647	
Swaps:				
Cleared credit default swaps	(41,537)	1,306,800	(125,890)	Credit Suisse Group AG (BBB+)
Cleared credit default swaps	8,465	1,385,000	35,908	JPMorgan Chase & Co (A-)
Cleared credit default swaps	(52,063)	-	-	N/A
Cleared interest rate swaps	444,613	55,848,200	527,516	CME Group Inc (AA-)
Cleared interest rate swaps	184,817	-	-	N/A
Cleared zero coupon swaps	1,547	6,505,000	5,591	CME Group Inc (AA-)
Cleared zero coupon swaps	23,980	-	-	N/A
Credit default swaps	15,052	485,000	46,722	Bank of America Corp (A-)
Credit default swaps	7,675	490,000	47,204	Morgan Stanley (BBB+)
Credit default swaps	1,160	-	-	N/A
Interest rate swaps	(20,477)	1,650,000	(20,477)	Bank of America Corp (A-)
Interest rate swaps	78,616	16,344,000	171,469	Citigroup Inc (BBB+)
Interest rate swaps	(8,889)	850,000	(8,889)	Goldman Sachs Group Inc (BBB+)
Interest rate swaps	14,078	900,000	14,078	JPMorgan Chase & Co (A-)
Interest rate swaps	59,344	-	-	N/A
Total swaps	716,381	85,764,000	693,232	
Total derivative investments	\$ (185,360)	\$ 180,348,793	\$ 52,808	
FFX Contracts Rating by Counterparty <sup>2</sup>				
Counterparty (Counterparty Rating)	Exposure/ Fair Value			
Bank of America Corp (A-)	\$ (1,833)			
Barclays PLC (BBB)	17,435			
BNP Paribas SA (A+)	(4,243)			
Citigroup Inc (BBB+)	62,700			
Goldman Sachs Group Inc/The (BBB+)	(18,550)			
HSBC Holdings PLC (A)	(31,062)			
JPMorgan Chase & Co (A-)	(109,984)			
Morgan Stanley (BBB+)	(74,527)			
UBS Group AG (A-)	(48,982)			
Total FFX counterparties	\$ (209,046)			

<sup>2</sup> Counterparty ratings for FFX contracts are not available by currency, thus, summarized by Counterparty

**Foreign Currency Risk:** Currency risk arises due to foreign exchange rate fluctuations. The WRS' investment policies manage the exposure to foreign currency risk by allowing international securities investment managers to enter into forward exchange or future contracts on foreign currency provided such contracts have a maturity of less than one year. Currency contracts are only to be utilized for the settlement of securities transactions and defensive hedging of currency positions. The WRS' exposure to foreign currency risk on December 31, 2019 is presented in the accompanying table.

Currency	Cash and Cash			
	Equivalents	Equities	Fixed Income	Derivatives
Argentina peso	\$ 2,316	\$ -	\$ 83,928	\$ -
Australian dollar	(628,596)	6,684,911	510,942	(6,727)
Brazilian real	579,223	-	1,190,785	185,548
Canadian dollar	840,006	-	1,036,082	(10,688)
Chilean peso	34,556	-	222,270	-
Chinese r y uan hk	(347,374)	-	-	-
Chinese yuan renminbi	(59,640)	-	366,830	-
Colombian peso	(11,257)	-	-	-
Egyptian pound	135,873	-	-	-
Euro currency unit	(12,370,526)	50,909,113	11,297,878	101,778
Hong Kong dollar	-	11,209,853	-	-
Hungarian forint	(45,809)	-	-	-
Indian rupee	673,146	-	203,690	-
Indonesian rupiah	629,878	-	539,834	-
Japanese yen	(2,928,975)	32,030,057	3,826,732	(1,012)
Malaysian ringgit	(1,624,690)	-	1,700,095	-
Mexican peso	(832,331)	-	2,724,435	71,511
New Taiwan dollar	6,310	-	-	-
New Zealand dollar	(477,686)	620,160	162,883	(29,366)
Nigerian naira	131,173	-	-	-
Norwegian krone	626,207	2,168,465	-	-
Philippines peso	(374,990)	-	-	-
Polish zloty	132,023	-	-	-
Pound sterling	(2,070,790)	17,336,340	1,314,146	6,082
Russian ruble (new)	(1,607,899)	-	1,833,291	-
Singapore dollar	(1,380,888)	1,037,394	1,413,678	-
South African rand	11,701	-	-	-
South Korean won	133,250	-	-	-
Swedish krona	(540,121)	3,850,908	-	-
Swiss franc	(124,164)	10,698,281	-	-
Total subject to foreign currency risk	\$ (21,490,074)	\$ 136,545,482	\$ 28,427,499	\$ 317,126

All forward foreign currency contracts are carried at fair value by the WRS. As of December 31, 2019, the Systems held forward currency contracts with an unrealized loss of \$209,046. If held, forward foreign currency contracts are reported as derivative investments in the financial statements.

Securities Lending Transactions: Policies of the Board of Trustees for the Wichita Employees' Retirement and Police and Fire Retirement Systems permit the lending of securities to broker-dealers and other entities (borrowers) with a simultaneous agreement to return the collateral for the same securities in the future. The WRS' custodial bank, The Bank of New York Mellon, is the lending agent for the Systems' domestic securities for initial collateral of 102% of the fair value of the loaned securities and international equity securities for initial collateral of 105% of the fair value of such securities. Collateral may consist of cash (U.S.currency only); securities issued or guaranteed by the U.S. government or its agencies or instrumentalities; and such other collateral as the parties may agree to in writing.

The collateral securities cannot be pledged or sold by the WRS unless the borrower defaults. The lending agent shall require additional collateral from the borrower whenever the value of loaned securities exceeds the value of the collateral in the agent's possession, so that collateral always equals or exceeds 100% of the fair value of the loaned securities. Contracts with the lending agent require them to indemnify the WRS, if the borrowers fail to return the securities (and if the collateral is inadequate to replace the securities lent) or fail to pay the WRS for income distributions by the securities' issuers while the securities are on loan.

At year-end, the WRS had no credit risk exposure to borrowers because the amounts the WRS owes the borrowers exceeded the amounts the borrowers owed the Systems. All securities loans, whether domestic or international, are open loans and can be terminated on demand by either the system or the borrower. At year-end, loaned securities were secured with cash collateral or securities collateral. The amount shown on the Statement of Fiduciary Net Position only reflects transactions where cash collateral was received. Cash collateral is invested in a separately managed cash collateral account. Also, since securities loans are terminable at will, the duration of the securities loans do not generally match the duration of the investments made with the cash collateral received from the borrower.

Custodial Credit Risk Related to Securities Lending: Custodial credit risk for lent securities is the risk that, in the event of the failure of the counterparty, the WRS will not be able to recover the value of its investments or collateral securities that are in possession of an outside party. Consistent with the WRS' securities lending policy, \$50,927,335 was held by the counterparty acting as the WRS' agent in securities lending transactions on December 31, 2019.

Other Risk Information: Recent market conditions have resulted in an unusually high degree of volatility and increased risks associated with certain investments held by the Wichita Employees' Retirement System and the Police and Fire Retirement System. As a result, it is at least reasonably possible that changes in the fair values of investment securities will occur in the near term and such changes could materially affect the amounts reported in the financial statements. In addition, declines in the fair values of Systems' assets could ultimately affect the funded status of the WRS. The ultimate impact on the funded status will be determined based upon market conditions in effect when the annual valuation is performed.

**3. Capital Assets**

Capital asset activity for the year ended December 31, 2019 is presented in the following table (expressed in thousands of dollars).

	Beginning Balance	Increases	Decreases	Ending Balance
Pension administration hardware and software	\$ 1,283	\$ -	\$ -	\$ 1,283
Less: accumulated depreciation	(1,283)	-	-	(1,283)
Capital assets, net	\$ -	\$ -	\$ -	\$ -

**4. Wichita Employees' Retirement System**

Plan Description: The Wichita Employees' Retirement System (WERS) was established to provide retirement and survivor annuities, disability benefits, death benefits and other benefits for all regular full-time civilian employees of the reporting entity and their dependents. Plan 1 was established by City Ordinance on January 1, 1948 and became closed to new entrants prior to July 18, 1981. With the initiation of Plan 2, which was established by City Ordinance on July 18, 1981, all covered employees of Plan 1 were given the option of converting to the new plan. Plan 2 was closed to new entrants with the establishment of Plan 3 by City Ordinance, effective January 1, 1994.

Plan 3 was established by City Ordinance on April 9, 1993 and amended on February 8, 2000. The reporting entity's contributions and earnings for each employee are 25% vested after three years of service, 50% vested after five years of service and are fully vested after seven years of service. Upon completion of seven years of service, employees participating in Plan 3 automatically convert to participation in Plan 2 unless they make an irrevocable election to convert to Plan 3b, a defined contribution plan, within 90 days thereafter. Establishment of and amendments to the benefit provisions for the WERS are authorized by the City Council.

Benefits Provided: The primary benefits provided are retirement benefits. However, the System also provides ancillary benefits in the event of pre-retirement death, disability or termination of employment prior to meeting the eligibility requirements to retire.

Plan 1 members are eligible to retire at age 60 with seven years of actual service or at any age with 30 years of creditable service. Plan 2 members may retire at age 62 with seven years of actual service. Benefits for Plan 1 members are calculated using Final Average Salary (FAS), which is the member's compensation for the three highest consecutive years of service within the last 10 years, multiplied by the total years of creditable service and a factor of 2.5%, subject to a maximum of 75% of the FAS. Benefits for Plan 2 members are the same as Plan 1 except they are calculated using a factor of 2.25% instead of 2.5%. Benefits vest with seven years of actual service. The calculation is reduced with early retirement.

When a Plan 1 member has been retired for 12 months, the member receives an annual post-retirement adjustment of 3% of the original base amount of the benefit. The annual post-retirement adjustment for Plan 2 members is 2%.

As of December 31, 2019, the WERS plan membership consisted of the following:

Member Category	Plan 1	Plan 2	Plan 3	Total
Inactive employees or beneficiaries currently receiving benefits	611	819	-	1,430
Inactive employees entitled to but not yet receiving benefits	-	140	-	140
Active employees	1	821	696	1,518
Total membership	612	1,780	696	3,088

Deferred Retirement Option Plan (DROP) Provision: The benefit structure of both Plan 1 and Plan 2 include a Deferred Retirement Option Plan (DROP) provision. Members must be eligible to receive a service retirement benefit as of the DROP retirement date to participate in the DROP. The DROP period is one to 60 months. The monthly benefit amount is computed as of the DROP election date based on the final average salary and years of service as of that date. The benefit is paid into the member’s notional DROP account during the deferral or DROP period. The member and City both continue to make the required contributions during the deferral period. These contributions are not credited to the member’s DROP account, but are credited to general System assets to improve funding. Interest at an annual rate of 5.0%, compounded monthly, is credited to the notional DROP account. Voluntary termination of employment during the DROP period results in loss of accrued interest. When the member terminates employment, the balance of the DROP account is paid as a lump sum and future monthly benefits are paid to the member. The balance of the notional DROP accounts as of December 31, 2019 was \$5,520,335.

Funding Policy: The contribution requirements of plan members and the reporting entity are established by City Ordinance and may be amended by the governing body. Members of Plan 1 and 2 are required to contribute 6.4% and 4.7% of covered salaries, respectively. Members of Plan 3 are required to contribute 4.7% of covered salaries. From its various operating funds, the City is required to contribute at an actuarially determined rate; the rate for 2019 was 12.1% of annual covered payroll for Plans 1, 2 and 3 (excluding compensation attributable to members who have made an irrevocable election to remain in the defined contribution plan after fully vesting at seven years of service). The actuarially determined rate is the estimated amount necessary to finance the cost of benefits earned by employees during the year, with an additional amount to finance any unfunded liability. The City may provide for pension expenses by levying ad valorem property taxes each year in the amount necessary to meet its obligation as determined by the WERS consulting actuary. For the year ended December 31, 2019, WERS received \$9,683,553 in contributions from the employer for Plans 1, 2 and 3.

Actuarial Assumptions: A summary of the actuarial assumptions and other inputs used in measuring the total pension liability are presented in the accompanying table. The actuarial assumptions used in the December 31, 2019 valuation were based on the results of the most recent experience study, which covered a three-year period ending December 31, 2016. The experience report is dated April 17, 2018.

Price inflation	2.75%
Wage inflation	3.25%
Salary increases, including wage inflation	3.5% to 6.5%
Long-term rate of return, net of investment expense, including price inflation	7.6%
Active Members	based on the RP-2000 Employee Table, projected generationally using Scale AA (ages set forward two years for males, zero for females).
Healthy Retirees And Beneficiaries	based on the RP-2000 Healthy Annuitant Table, projected generationally using Scale AA (ages set forward two years for males, zero for females)
Disabled Retirees	based on the RP-2000 Disabled Table for Males and Females, projected generationally using Scale AA.

**Actuarial Rate of Return Assumption:**

The long-term expected rate of return on pension plan investments is reviewed as part of the regular experience study prepared for the System. Several factors are considered in evaluating the long-term rate of return assumption, including long term historical data, estimates inherent in current market data, and an analysis in which best-estimate ranges of expected future real rates of return (expected return, net of investment expense and inflation), along with estimates of variability and correlations for each asset class. These ranges were combined to develop the long-term expected rate of return by weighting the expected future real rates of return the target asset allocation percentage and then adding expected inflation. The long-term rate of return assumption is intended to be a long-term assumption (30 to 50 years) and is not expected to change absent a significant change in the asset allocation, a change in the inflation assumption, or a fundamental change in the market that alters expected returns in future years. The target asset allocation and best-estimates of geometric real rates of return (net of 2.25% inflation assumption) for each major asset class are summarized in the accompanying table.

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return*
Large cap equity	31%	5.25%
Small cap equity	8%	5.85%
International equity	26%	5.75%
Fixed Income	19%	1.75%
Real Estate	7%	4.25%
Timber	5%	4.85%
Commodities	3%	0.95%
Cash	1%	0.55%
Total	100%	

\* Geometric mean, net of investment expenses.

**Discount Rate:** The fiduciary net position is projected to be available to make future benefit payments; therefore, a Municipal Bond Index Rate was not used in the determination of the Single Equivalent Interest Rate (SEIR) for either the December 31, 2019 or the December 31, 2018 valuations. Thus, the discount rate, or the SEIR, is equal to the long-term assumed rate of return on investments, as determined in the last experience study. The discount rate used to measure the total pension liability as of the December 31, 2019 valuation is 7.60%. Please note 7.50% is used in the annual funding valuation to determine the City's contribution rate.

The projection of cash flows used to determine the discount rate assumed that the employee contributions will be made at the current contribution rate and that the City contributions will be made at rates equal to the difference between the actuarially determined contribution rates and the employee rate. Projected future benefit payments for all current plan members were projected through 2124. Based on those assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

**Net Pension Liability of the City:** The components of net pension liability as of December 31, 2019, are shown in the accompanying table. Actuarial valuation of an ongoing plan involves estimates of reported amounts and assumptions about the probability of occurrence of events far into the future. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The total pension liability was determined by an actuarial valuation as of December 31, 2018. A Schedule of Changes in the Employer's Net Pension Liability and Related Ratios is presented in the required supplementary information of this report on page A-28.

Total Pension Liability (TPL)	\$ 668,661,985
Less: Fiduciary Net Position (FNP)	(617,892,432)
Net Pension Liability (NPL)	\$ 50,769,553
Ratio of FNP to TPL	92.41%

Sensitivity Analysis: The accompanying table presents the net pension liability of the City using the discount rate of 7.60%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1.0% lower (6.60%) or 1.0% higher (8.60%) than the current rate.

	Rate	City's Net Pension Liability
1.0% Decrease	6.60%	\$ 123,130,119
Current Rate	7.60%	50,769,553
1.0% Increase	8.60%	(10,583,099)

**5. Wichita Employees' Retirement System Plan 3b**

The City contributes to Wichita Employees' Retirement System Plan 3b, a defined contribution pension plan, for all of its full-time civilian employees hired or rehired on or after January 1, 1994. Benefits depend solely on amounts contributed to the plan plus investment earnings.

Plan 3, established by City Ordinance on April 9, 1993 and amended on February 8, 2000, requires that both the employee and the reporting entity contribute an amount equal to 4.7% of covered salaries. The reporting entity's contributions and earnings for each employee are 25% vested after three years of service, 50% vested after five years and are fully vested after seven years of service.

The employees participating in the Plan will be converted to WERS Plan 2, a defined benefit plan, unless they make an irrevocable election to remain in the defined contribution plan within 90 days of becoming vested. If an employee converts to Plan 2, the employee's Plan 3 account balance becomes part of WERS assets available to pay future benefits of WERS defined benefit plan members. For this reason, Plan 3 members who have not made an irrevocable election to remain in the defined contribution plan are reported with the WERS defined benefit plan. Fully vested Plan 3 members who elect to remain in the defined contribution plan are referred to as Plan 3b members and are reported as a separate plan on the combining financial statements beginning on page A-6.

Fully vested employees who elect to continue participation in Plan 3b may contribute additional amounts into the plan as permitted by the rules of the Internal Revenue Code in effect at the time of the contribution. Contributions of the reporting entity and earnings forfeited by employees who leave employment before seven years of service are used to reduce the reporting entity's contribution requirements. Benefit terms, including contribution requirements, are established and may be amended by the City Council. For the year ending December 31, 2019, employee and employer contributions to Plan 3b totaled \$198,343 and \$198,342, respectively. As of December 31, 2019, there were 82 members covered under the defined contribution Plan 3b.

**6. Police and Fire Retirement System of Wichita, Kansas**

Plan Description: The Police and Fire Retirement System (PFRS) consists of three plans: Plan A, Plan B and Plan C-79. The plans were established to provide retirement and survivor annuities, disability benefits, death benefits and other benefits for Police and Fire Officers of the reporting entity and their dependents. All full-time active "commissioned" Police and Fire department personnel are required to participate in the plans. Plans A and B were established by City Ordinance on January 1, 1965 and Plan C-79 was established January 1, 1979 by City Ordinance. Plan B was closed to new entrants as of January 1, 1965 and Plan A was closed to new entrants as of December 31, 1978. Establishment of and amendments to the benefit provisions for the PFRS are authorized by the City Council.

Benefits Provided: The primary benefits provided are retirement benefits. However, the System also provides ancillary benefits in the event of pre-retirement death, disability or termination of employment prior to meeting the eligibility requirements to retire.

Plan A and Plan B members are eligible to retire at 20 years of actual service regardless of age. Plan C members are eligible to retire at 30 years of creditable service regardless of age, 20 years of actual service and age 50 or 10 years of actual service and age 55. Benefits are calculated using Final Average Salary (FAS), which is the member's compensation for the three highest consecutive years of service within the last 10 years, multiplied by the total years of creditable service and a factor of 2.5%, subject to a maximum of 75% of the FAS. Benefits vest after 10 years of service.



When a member has been retired for 36 months, they will receive an annual post-retirement adjustment to their benefit of 2% of the original base amount of the benefit.

As of December 31, 2019, the PFRS defined benefit plan membership consisted of the following:

Member Category	Plan A	Plan B	Plan C-79	Total
Inactive employees or beneficiaries currently receiving benefits	432	165	447	1,044
Inactive employees entitled to, but not yet receiving benefits	-	-	38	38
Active employees	1	-	1,093	1,094
<b>Total membership</b>	<b>433</b>	<b>165</b>	<b>1,578</b>	<b>2,176</b>

**Backward Deferred Retirement Option Plan (DROP) Provision:** The benefit structure of the Wichita Police and Fire Retirement System includes a Backward Deferred Retirement Option Plan (DROP). The Backward DROP is available to Plan A and Plan C-79 members. Members must be eligible to receive a service retirement benefit as of the Backward DROP retirement date. The DROP period is one to 60 months. The DROP period is the time between the Backward DROP retirement date and the date the employee terminates service. The retirement benefit is calculated as of the day prior to the Backward DROP retirement date. The employee's monthly retirement benefits (for the DROP period) plus applicable post retirement adjustments and interest at an annual rate of 5.0%, compounded monthly, is payable upon the employee's termination of service. When the member terminates employment, the balance of the DROP account is paid as a lump sum and the member begins to receive monthly retirement benefits on the month following termination of service.

**Funding Policy:** The contribution requirements of plan members and the reporting entity are established by City Ordinance and may be amended by the governing body. PFRS members are required to contribute 6% to 8% of covered salaries. From its various operating funds, the City is required to contribute at an actuarially determined rate; the rate for 2019 was 18.9% of annual covered payroll. The actuarially determined rate is the estimated amount necessary to finance the cost of benefits earned by employees during the year, with an additional amount to finance any unfunded liability. The City may provide for pension expenses by levying ad valorem property taxes each year in the amount necessary to meet its obligation as determined by the PFRS consulting actuary. For the year ended December 31, 2019, PFRS received \$13,965,415 in contributions from the employer.

**Actuarial Assumptions:** A summary of the actuarial assumptions and other inputs used in measuring the total pension liability are presented in the table on the following page. The actuarial assumptions used in the December 31, 2019 valuation were based on the results of the most recent experience study, which covered the three-year period ending December 31, 2016. The experience report is dated April 17, 2018.

Price inflation	2.75%
Wage inflation	3.25%
Salary increases, including wage inflation	4.00% to 5.75%
Long-term rate of return, net of investment expense, including price inflation	7.59%
Active Members	based on the RP-2000 Employee Table for Males and Females projected generationally using Scale AA.
Healthy Retirees And Beneficiaries	based on the RP-2000 Healthy Annuitant Table for Males and Females projected generationally using Scale AA.
Disabled Retirees	based on the RP-2000 Disabled Table for Males and Females projected generationally using Scale AA.



Actuarial Rate of Return Assumption and Discount Rate: Information about the actuarial rate of return assumption and the discount rate is disclosed in Note 4 - Wichita Employees' Retirement System. Because the assets of the plans are pooled for investment purposes, the assumptions for the Police and Fire Retirement System are identical to those of the Wichita Employees' Retirement System.

Net Pension Liability of the City: The components of net pension liability as of December 31, 2019, are shown in the accompanying table. Actuarial valuation of an ongoing plan involves estimates of reported amounts and assumptions about the probability of occurrence of events far into the future. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The total pension liability was determined by an actuarial valuation as of December 31, 2018. A Schedule of Changes in the Employer's Net Pension Liability and Related Ratios is presented in the required supplementary information of this report on page A-30.

Total Pension Liability (TPL)	\$ 780,246,739
Less: Fiduciary Net Position (FNP)	(731,075,044)
Net Pension Liability (NPL)	<u>\$ 49,171,695</u>
Ratio of FNP to TPL	<u>93.70%</u>

Sensitivity Analysis: The accompanying table presents the net pension liability of the City using the discount rate of 7.59%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1.0% lower (6.59%) or 1.0% higher (8.59%) than the current rate.

	Rate	City's Net Pension Liability
1.0% Decrease	6.59%	\$ 142,896,455
Current Rate	7.59%	49,171,695
1.0% Increase	8.59%	(29,141,890)

**7. Insurance**

The WRS participate in the City of Wichita's self-insurance fund programs for workers' compensation, group life insurance, employee liability, property damage, auto liability and general liability. There were no settlements in excess of insurance coverage in any of the three most recent fiscal years. Additional information, including a general description of each program, can be found in the Comprehensive Annual Financial Report issued by the City of Wichita.

**8. Subsequent Event**

On March 11, 2020, the World Health Organization declared COVID-19 a global pandemic and recommended worldwide mitigation measures. The extent of COVID-19's effect on the System's operational and financial performance will depend on future developments, including the duration, spread and intensity of the pandemic, all of which are uncertain and difficult to predict considering the rapidly evolving landscape. As a result, it is not currently possible to ascertain the overall impact of COVID-19 on the System's operation. However, as the pandemic continues to evolve, this could have a material adverse effect on the System's operation, statement of net position, statement of activities and cash flows.

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**WICHITA RETIREMENT SYSTEMS  
REQUIRED SUPPLEMENTARY INFORMATION**

**SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS  
WICHITA EMPLOYEES' RETIREMENT SYSTEM**

For the years ended December 31, 2014 through December 31, 2019 <sup>1</sup>

	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>
<b>TOTAL PENSION LIABILITY</b>				
Service cost	\$ 10,132,953	\$ 10,067,053	\$ 10,049,029	\$ 9,679,684
Interest	47,499,432	47,789,825	46,669,189	45,634,881
Benefit term changes	-	-	-	-
Differences between expected and actual experience	3,656,262	(2,668,930)	(1,893,808)	(2,791,029)
Assumption changes	(19,749,611)	32,865,478	-	-
Reclassification due to conversion of members to Plan 3b	(94,720)	(179,012)	(191,292)	(244,793)
Benefit payments, including member refunds	<u>(44,447,896)</u>	<u>(41,670,299)</u>	<u>(39,282,815)</u>	<u>(39,144,783)</u>
Net change in total pension liability	(3,003,580)	46,204,115	15,350,303	13,133,960
Total pension liability - beginning	<u>671,665,565</u>	<u>625,461,450</u>	<u>610,111,147</u>	<u>596,977,187</u>
Total pension liability - ending (a)	<u>668,661,985</u>	<u>671,665,565</u>	<u>625,461,450</u>	<u>610,111,147</u>
<b>PLAN FIDUCIARY NET POSITION</b>				
Employer contributions	9,683,553	10,099,027	9,642,540	8,946,064
Employee contributions	3,770,224	3,755,812	3,682,056	3,642,007
Reclassification due to conversion of members to Plan 3b	(94,720)	(179,012)	(191,292)	(244,793)
Net investment income	102,909,003	(39,511,690)	91,773,973	35,956,780
Benefit payments, including member refunds	(44,447,896)	(41,670,299)	(39,282,815)	(39,144,783)
Administrative expenses	<u>(619,398)</u>	<u>(580,204)</u>	<u>(633,379)</u>	<u>(615,829)</u>
Net change in plan fiduciary net position	71,200,766	(68,086,366)	64,991,083	8,539,446
Plan fiduciary net position - beginning	<u>546,691,666</u>	<u>614,778,032</u>	<u>549,786,949</u>	<u>541,247,503</u>
Plan fiduciary net position - ending (b)	<u>617,892,432</u>	<u>546,691,666</u>	<u>614,778,032</u>	<u>549,786,949</u>
Net pension liability - ending (a) - (b)	<u>\$ 50,769,553</u>	<u>\$ 124,973,899</u>	<u>\$ 10,683,418</u>	<u>\$ 60,324,198</u>
Plan fiduciary net position as a percentage of the total pension liability	92.41%	81.39%	98.29%	90.11%
Covered payroll	\$ 80,029,364	\$ 78,898,648	\$ 78,394,634	\$ 77,121,241
Employer's net pension liability as a percentage of covered payroll	63.44%	158.40%	13.63%	78.22%

**NOTES TO SCHEDULE**

	2015	2014
\$	9,644,456	\$ 9,278,998
	44,305,832	43,680,283
	-	-
	(656,102)	(3,427,255)
	(8,877,507)	(3,550,489)
	(465,171)	(571,242)
	<u>(37,089,403)</u>	<u>(37,681,042)</u>
	6,862,105	7,729,253
	<u>590,115,082</u>	<u>582,385,829</u>
	<u>596,977,187</u>	<u>590,115,082</u>
	9,031,463	9,423,640
	3,574,026	3,394,544
	(465,171)	(571,242)
	13,380	28,659,491
	(37,089,403)	(37,681,042)
	<u>(624,085)</u>	<u>(621,460)</u>
	(25,559,790)	2,603,931
	<u>566,807,293</u>	<u>564,203,362</u>
	<u>541,247,503</u>	<u>566,807,293</u>
\$	<u>55,729,684</u>	<u>\$ 23,307,789</u>
	90.66%	96.05%
\$	74,028,385	\$ 71,391,212
	75.28%	32.65%

Benefit changes:

- There have been no benefit changes in the plan in the last ten years.

Changes in actuarial assumptions:

December 31, 2018 valuation

- Decrease in the price inflation rate from 3.25% to 2.75%.
- Decrease in the investment return assumption from 7.75% to 7.50%.
- Decrease in the general wage growth assumption from 4.0% to 3.25%.
- Decrease in the covered payroll growth from 4.00% to 3.25%.
- Decrease in the indexation of terminated vested benefits from 4.00% to 3.50%.
- Modification of the retirement rates to better reflect the actual experience.
- Increase in the probability of entering the DROP from 70% to 75%.
- Change the termination of employment assumption.
- Decrease the merit component of the salary increase assumption.
- Reduce the sick leave load assumption from 2.50% to 1.75%.

December 31, 2015 valuation

- There were no changes to the assumptions used for the funding valuation, even though, the Single Equivalent Interest Rate (SEIR) at the measurement date was changed for GASB 67 valuation.

December 31, 2014 valuation

- Decrease in the price inflation rate from 3.50% to 3.25%.
- Modify Plan 2 retirement assumption to partially reflect experience. The changes increased rates at some ages and decreased them at others.
- Eliminate the disability assumption.
- Change the termination of employment assumption to a pure service-based assumption.
- Reduce the sick leave load from 4.0% to 2.5%.
- A 20% corridor was added to the actuarial value of assets calculation.

December 31, 2009 valuation

- Decrease in the price inflation rate from 4.0% to 3.5%.
- Decrease in the general wage growth assumption from 4.5% to 4.0%.
- Modification of the retirement rates for both Plans 1 and 2 to better reflect actual experience.
- Increase in the rates of termination of employment for ages under 32 for the ultimate assumption.
- Lower assumption for indexation of benefits for terminated vested members from 4.5% to 4.0% to be consistent with the general wage growth assumption.
- Non-disabled mortality tables were updated to reflect an additional year of mortality improvements.

<sup>1</sup> Schedule is intended to show a 10-year trend. Additional years will be reported as available.

**WICHITA RETIREMENT SYSTEMS  
REQUIRED SUPPLEMENTARY INFORMATION**

**SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS  
POLICE AND FIRE RETIREMENT SYSTEM OF WICHITA, KANSAS**

For the years ended December 31, 2014 through December 31, 2019<sup>1</sup>

	2019	2018	2017	2016
<b>TOTAL PENSION LIABILITY</b>				
Service cost	\$ 16,230,358	\$ 15,754,976	\$ 15,178,226	\$ 14,772,379
Interest	55,560,527	53,649,438	51,532,754	49,519,284
Benefit term changes	-	-	-	-
Differences between expected and actual experience	(3,777,136)	11,768,665	(1,784,785)	(2,576,401)
Assumption changes	(12,112,003)	26,241,485	-	-
Benefit payments, including member refunds	(42,111,381)	(39,381,501)	(36,930,533)	(35,552,267)
Net change in total pension liability	13,790,365	68,033,063	27,995,662	26,162,995
Total pension liability - beginning	766,456,374	698,423,311	670,427,649	644,264,654
Total pension liability - ending (a)	780,246,739	766,456,374	698,423,311	670,427,649
<b>PLAN FIDUCIARY NET POSITION</b>				
Employer contributions	13,965,415	14,331,422	13,369,785	12,585,895
Employee contributions	5,428,455	5,599,216	4,915,378	4,776,958
Net investment income	120,349,987	(43,988,371)	103,236,679	39,901,640
Benefit payments, including member refunds	(42,111,381)	(39,381,501)	(36,930,533)	(35,552,267)
Administrative expenses	(612,049)	(590,098)	(554,641)	(548,171)
Net change in plan fiduciary net position	97,020,427	(64,029,332)	84,036,668	21,164,055
Plan fiduciary net position - beginning	634,054,617	698,083,949	614,047,281	592,883,226
Plan fiduciary net position - ending (b)	731,075,044	634,054,617	698,083,949	614,047,281
Net pension liability - ending (a) - (b)	\$ 49,171,695	\$ 132,401,757	\$ 339,362	\$ 56,380,368
Plan fiduciary net position as a percentage of the total pension liability	93.70%	82.73%	99.95%	91.59%
Covered payroll	\$ 73,891,085	\$ 72,017,196	\$ 69,634,297	\$ 66,946,250
Employer's net pension liability as a percentage of covered payroll	66.55%	183.85%	0.49%	84.22%

**NOTES TO SCHEDULE**

Benefit changes:

- There have been no benefit changes in the plan in the last ten years.

Changes in actuarial assumptions:

	2015	2014
	\$ 14,981,100	\$ 15,894,290
	47,600,166	46,490,734
	-	-
	(3,259,180)	(12,040,126)
	(10,871,013)	226,376
	<u>(36,090,820)</u>	<u>(36,415,156)</u>
	12,360,253	14,156,118
	<u>631,904,401</u>	<u>617,748,283</u>
	<u>644,264,654</u>	<u>631,904,401</u>
	13,964,379	14,464,181
	4,603,331	4,529,895
	(163,702)	30,596,067
	(36,090,820)	(36,415,156)
	(521,018)	(542,207)
	<u>(18,207,830)</u>	<u>12,632,780</u>
	<u>611,091,056</u>	<u>598,458,276</u>
	<u>592,883,226</u>	<u>611,091,056</u>
	<u>\$ 51,381,428</u>	<u>\$ 20,813,345</u>
	92.02%	96.71%
	\$ 65,560,465	\$ 64,572,237
	78.37%	32.23%

December 31, 2018 valuation

- Decrease in the price inflation rate from 3.25% to 2.75%.
- Decrease in the investment return assumption from 7.75% to 7.50%.
- Decrease in the general wage growth assumption from 4.0% to 3.25%.
- Decrease in the covered payroll growth from 4.00% to 3.25%.
- Decrease in the indexation of terminated vested benefits from 4.00% to 3.50%.
- Modification to the retirement rates to reflect experience and created an assumption for members with more than 30 years of service to better reflect the actual retirement and BackDROP experience.
- Change the termination of employment assumption.
- Changed the probability of refund assumptions.
- Decrease the merit component of the salary increase assumption.
- Reduce the sick leave load assumption from 3.00% to 2.50%.

December 31, 2015 valuation

- There were no changes to the assumptions used for the funding valuation, even though, the Single Equivalent Interest Rate (SEIR) at the measurement date was changed for GASB 67 valuation.

December 31, 2014 valuation

- Decrease in the price inflation rate from 3.50% to 3.25%.
- Modify Plan C retirement assumption to partially reflect experience. Created separate rates for less than or more than 30 years of service.
- Lower assumed disability rates.
- Change the termination of employment assumption to a pure service-based assumption.
- Modify the probability of electing a refund to partially reflect actual, observed experience.
- Reduce the sick leave load from 4.0% to 3.0%.
- A 20% corridor was added to the actuarial value of assets calculation.

December 31, 2009 valuation

- Decrease in the price inflation rate from 4.0% to 3.5%.
- Decrease in the general wage growth assumption from 4.5% to 4.0%.
- Lower the retirement rates for Plan A and extend them to 35 years of service.
- Lower the retirement rates for Plan C members at ages before 53 and ages 58-60 and increase rates at ages 56 and 57.
- Increase the rates of termination of employment for ages under 44 and decrease rates at ages over 44.
- Lower assumption for indexation of benefits for terminated vested members from 4.5% to 4.0%.

<sup>1</sup> Schedule is intended to show a 10-year trend. Additional years will be reported as available.

**WICHITA RETIREMENT SYSTEMS  
REQUIRED SUPPLEMENTARY INFORMATION**

**SCHEDULE OF EMPLOYER CONTRIBUTIONS  
WICHITA EMPLOYEES' RETIREMENT SYSTEM**

For the years ended December 31, 2010 through December 31, 2019  
(dollars expressed in thousands)

	2019	2018	2017	2016	2015
Actuarially determined employer contributions	\$ 9,684	\$ 10,099	\$ 9,643	\$ 8,946	\$ 9,031
Actual employer contributions	9,684	10,099	9,643	8,946	9,031
Annual contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Covered payroll	\$ 80,029	\$ 78,899	\$ 78,395	\$ 77,121	\$ 74,028
Contributions as a percentage of covered payroll	12.10%	12.80%	12.30%	11.60%	12.20%

**NOTES TO SCHEDULE**

The system is funded with fixed contribution rates for members and actuarially determined amounts for the City of Wichita. The Actuarially Determined Employer Contributions in the Schedule of Employer Contributions are calculated as of December 31, two years prior to the end of the fiscal year in which contributions are reported.

The following actuarial methods and assumptions were used to determine the Actuarially Determined Contribution reported as of December 31, 2019.

Actuarial cost method	Entry age normal
Amortization method	Level percentage of payroll, open
Remaining amortization period	Rolling 20 years
Asset valuation method	Expected Value + 25% of (Fair Value - Expected Value)
Price inflation	3.25%
Salary increases, including wage inflation	4.25% - 7.20%
Long-term rate of return, net of investment expense and including inflation	7.75%

<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>
\$ 9,424	\$ 8,940	\$ 7,503	\$ 7,695	\$ 6,689
<u>9,424</u>	<u>8,940</u>	<u>7,503</u>	<u>7,695</u>	<u>6,689</u>
<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
\$ 71,391	\$ 70,953	\$ 70,783	\$ 75,444	\$ 79,636
13.20%	12.60%	10.60%	10.20%	8.40%

**WICHITA RETIREMENT SYSTEMS  
REQUIRED SUPPLEMENTARY INFORMATION**

**SCHEDULE OF EMPLOYER CONTRIBUTIONS  
POLICE AND FIRE RETIREMENT SYSTEM OF WICHITA, KANSAS**

For the years ended December 31, 2010 through December 31, 2019  
(dollars expressed in thousands)

	2019	2018	2017	2016	2015
Actuarially determined employer contributions	\$ 13,965	\$ 14,331	\$ 13,370	\$ 12,586	\$ 13,964
Actual employer contributions	13,965	14,331	13,370	12,586	13,964
Annual contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Covered payroll	\$ 73,891	\$ 72,017	\$ 69,634	\$ 66,946	\$ 65,560
Contributions as a percentage of covered payroll	18.90%	19.90%	19.20%	18.80%	21.30%

**NOTES TO SCHEDULE**

The system is funded with fixed contribution rates for members and actuarially determined amounts for the City of Wichita. The Actuarially Determined Employer Contributions in the Schedule of Employer Contributions are calculated as of December 31, two years prior to the end of the fiscal year in which contributions are reported.

The following actuarial methods and assumptions were used to determine the Actuarially Determined Contribution reported as of December 31, 2019.

Actuarial cost method	Entry age normal
Amortization method	Level percentage of payroll, open
Remaining amortization period	Rolling 20 years
Asset valuation method	Expected Value + 25% of (Fair Value - Expected Value)
Price inflation	3.25%
Salary increases, including wage inflation	5.00% - 6.75%
Long-term rate of return, net of investment expense and including inflation	7.75%



<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>
\$ 14,464	\$ 14,890	\$ 14,113	\$ 13,807	\$ 13,120
<u>14,464</u>	<u>14,890</u>	<u>14,113</u>	<u>13,807</u>	<u>13,120</u>
<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
\$ 64,572	\$ 65,306	\$ 64,150	\$ 62,759	\$ 63,077
22.40%	22.80%	22.00%	22.00%	20.80%

**WICHITA RETIREMENT SYSTEMS**  
**REQUIRED SUPPLEMENTARY INFORMATION**

**SCHEDULE OF INVESTMENT RETURNS**

For the years ended December 31, 2014 through December 31, 2019 <sup>1</sup>

	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>
Annual money-weighted rate of return, net of investment expenses	19.77 %	(5.86) %	17.40 %	7.16 %

<sup>1</sup> Schedule is intended to show a 10-year trend. Additional years will be reported as available.

<u>2015</u>	<u>2014</u>
0.63 %	5.18 %

**WICHITA RETIREMENT SYSTEMS  
SUPPLEMENTARY INFORMATION**

**SCHEDULE OF ADMINISTRATIVE EXPENSES**

For the year ended December 31, 2019  
(with comparative totals for the year ended December 31, 2018)

	Police and Fire	Employees'	Employees'	Totals	
	Retirement System	Retirement System	Retirement Plan 3b	2019	2018
Personnel services:					
Wages	\$ 253,509	\$ 253,509	\$ -	\$ 507,018	\$ 488,736
Benefits	68,291	68,291	-	136,582	143,293
Total personnel services	<u>321,800</u>	<u>321,800</u>	<u>-</u>	<u>643,600</u>	<u>632,029</u>
Contractual services:					
Telephone	1,980	1,980	-	3,960	3,777
Postage	284	269	-	553	1,836
Transportation and travel	2,437	2,369	-	4,806	5,293
Data center charges	12,338	12,338	-	24,676	11,373
City administrative fees	24,765	31,592	-	56,357	53,090
Actuarial fees	22,467	23,800	-	46,267	129,686
Audit fees	8,397	8,397	-	16,794	17,786
Studies and consultants	32,359	6,466	-	38,825	29,082
Legal services	2,510	1,344	-	3,854	3,288
Advertising	405	405	-	810	470
Periodicals and manuals	199	199	-	398	364
Membership dues	430	2,430	-	2,860	2,680
Printing and photocopying	8,209	7,821	-	16,030	13,270
Plan 3 participant administration	-	24,007	9,343	33,350	32,400
Pension software expense	143,325	129,976	-	273,301	199,522
Custody transactions	27,317	40,305	-	67,622	55,317
Other	1,462	2,554	41	4,057	3,628
Total contractual services	<u>288,884</u>	<u>296,252</u>	<u>9,384</u>	<u>594,520</u>	<u>562,862</u>
Commodities:					
Office equipment and supplies	1,280	1,280	-	2,560	2,116
Other	85	66	-	151	679
Total commodities	<u>1,365</u>	<u>1,346</u>	<u>-</u>	<u>2,711</u>	<u>2,795</u>
Total administrative expenses	<u>\$ 612,049</u>	<u>\$ 619,398</u>	<u>\$ 9,384</u>	<u>\$ 1,240,831</u>	<u>\$ 1,197,686</u>

**WICHITA RETIREMENT SYSTEMS  
SUPPLEMENTARY INFORMATION**

**SCHEDULE OF INVESTMENT EXPENSES**

For the year ended December 31, 2019  
(with comparative totals for the year ended December 31, 2018)

	Police and Fire Retirement System	Employees' Retirement System	Employees' Retirement Plan 3b	Totals	
				2019	2018
Investment expenses:					
Financial consulting	\$ 141,260	\$ 139,127	\$ 2,133	\$ 282,520	\$ 258,000
Custodial bank	149,565	127,409	-	276,974	289,282
Investment management fees	3,200,642	2,728,393	11,580	5,940,615	6,363,079
Total investment expenses	<u>\$ 3,491,467</u>	<u>\$ 2,994,929</u>	<u>\$ 13,713</u>	<u>\$ 6,500,109</u>	<u>\$ 6,910,361</u>

**SCHEDULE OF PAYMENTS MADE TO CONSULTANTS OTHER THAN INVESTMENT ADVISORS**

For the year ended December 31, 2019  
(with comparative totals for the year ended December 31, 2018)

	Police and Fire Retirement System	Employees' Retirement System	Employees' Retirement Plan 3b	Totals	
				2019	2018
Ice Miller LLP (legal services)	\$ 2,510	\$ 1,344	\$ -	\$ 3,854	\$ 3,288
Cavanaugh Macdonald Consulting (actuarial services)	22,467	23,800	-	46,267	129,686
Allen, Gibbs & Houlik, L.C. (auditing services)	8,397	8,397	-	16,794	17,786
Northeast Retirement Services (participant accounting)	-	24,007	9,343	33,350	32,400
Total payments	<u>\$ 33,374</u>	<u>\$ 57,548</u>	<u>\$ 9,343</u>	<u>\$ 100,265</u>	<u>\$ 183,160</u>

INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING  
AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL  
STATEMENTS PERFORMED IN ACCORDANCE WITH  
GOVERNMENT AUDITING STANDARDS

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The Boards of Trustees  
**Wichita Retirement Systems**  
**Wichita, Kansas**

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Wichita Retirement Systems of the City of Wichita, Kansas (Systems), as of and for the year ended December 31, 2019 and the related notes to the financial statements, which collectively comprise the Systems' basic financial statements, and have issued our report thereon dated June 24, 2020.

### **Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the Systems' internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Systems' internal control. Accordingly, we do not express an opinion on the effectiveness of the Systems' internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses, as defined above. However, material weaknesses may exist that have not been identified.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Systems' financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

## **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

*Allen, Gibbs & Houlik, L.C.*  
CERTIFIED PUBLIC ACCOUNTANTS

June 24, 2020  
Wichita, Kansas

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*INVESTMENT SECTION*





May 18, 2020

The Wichita Retirement Systems  
Wichita Employees' Retirement System and Police & Fire Retirement System of Wichita  
455 North Main Street, 12<sup>th</sup> Floor  
Wichita, KS 67202

**RE: Report on 2019 Investment Activities**

Dear Board Members:

The City of Wichita created the Wichita Retirement Systems in order to make investments for the sole interest of the participants and beneficiaries of the Wichita Employees' Retirement System and the Police & Fire Retirement System of Wichita, Kansas. The combined Retirement Funds' assets are invested in accordance with these investment objectives: (1) to fulfill current benefit obligations; (2) to maximize return within reasonable and prudent levels of risk; and (3) to maintain sufficient liquidity to meet benefit payment obligations when due.

Fund assets are to be invested with the care, skill, and diligence that a prudent person acting in a like capacity would undertake. The Boards also acknowledge the objective of controlling the costs involved with administering and managing the investments of the Fund.

Through the Joint Investment Committee, the two Boards closely monitor the Fund's asset mix to assure compliance with the adopted Investment Policy Statement and appropriate City ordinances that regulate the investment process. The Boards' investment consultant provides performance and other analyses to facilitate their ongoing evaluation of Trust Fund results.

On an ongoing basis, the Boards implement a performance measurement and evaluation process that examines rates of return for the Trust Fund in total, the major asset classes, and individual managers. The Boards compare returns to broad market indices and relevant "peer groups" of investment managers with similar investment styles. All returns are time-weighted rates of return calculated by the Fund's investment consultant on a fair value basis with cash flow data provided by the Fund's custodian bank.

Comments in the following paragraphs reflect investment results for the one-year period ended December 31, 2019.

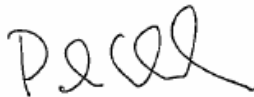
2019 ended with a rally in risk assets as the first phase of a U.S.-China trade deal and accommodative central banks fed investors' risk appetites. The U.S. Federal reserve cut interest rates 25 basis points (one-fourth of one percent) in October, marking the third and final cut of 2019. America's economic picture remained relatively healthy in the fourth quarter. The unemployment rate continued its long-running decline, dropping to 3.5%. Corporate earnings remained strong, and annualized GDP continued to grow at a rate above 2.0%.

The S&P 500 Index rose 9.1% in the fourth quarter bringing its year-to-date results to 31.5%. This was the index's best calendar year return since 2013 and capped a decade of strong performance. Another large cap index that includes mid-sized companies, the Russell 1000 Index, was up 31.4% for the year. From a style perspective, growth stocks significantly outperformed value stocks during 2019 (Russell 1000 Growth Index: +36.4%; Russell 1000 Value Index). From a size perspective small caps (Russell 2000 Index: +25.5%) underperformed large caps. Outside the U. S., the MSCI EAFE Index – a developed markets index – returned 8.2% in the fourth quarter and 22.0% for the entire calendar year.

After cutting rates at their October 2019 meeting, the Federal Open Market Committee (FOMC) left the Fed Funds rate unchanged at their December meeting, closing the year in a targeted range of 1.50% - 1.75%. Broad fixed income markets, as measured by the Bloomberg Aggregate Bond Index, returned 8.7% for the year. As of December 31, 2019 the duration of the Bloomberg Aggregate and Bloomberg TIPS indices were 5.87 and 4.67 years, respectively. Private real estate markets, as measured by the NCREIF Total Property Index, remained positive, gaining 6.4% in 2019. The NCREIF Timberland Index returned 1.3% during the last 12 months.

As noted in the Schedule of Investment Results, the Fund generated a total return of 19.2% (net of fees) for the year ended December 31, 2019, which trailed the 20.0% return of the Fund's target benchmark. In aggregate, active management added value during the year, particularly in fixed income.

Respectfully submitted,



Paul Erlendson  
Senior Vice President  
Callan LLC



Gordon Weightman, CFA  
Senior Vice President  
Callan LLC

**Investment Policy Summary**

Strategic Plan: Assets of the Wichita Employees’ and Police and Fire Retirement Systems (Fund) are invested in a diversified mix of domestic and international equities, domestic and international fixed income securities, real estate, timber and cash equivalents. The Fund is overseen by the Joint Investment Committee (JIC), comprised of the President of each Board, two elected members from each Board, two City Council appointees from each Board and a City Manager’s designee.

Investment Policies: The duties of the Boards include, but are not limited to, approving the Asset Allocation Plan and Investment Policy contained in the Strategic Plan, annual performance review of the investment portfolio and the hiring of a common financial consultant and actuary.

The duties of the JIC include, but are not limited to, making recommendations to the Boards on the Asset Allocation Plan and Investment Policy and the hiring of a common financial consultant and actuary; quarterly performance review of the investment portfolio; and retention and termination of the Fund’s investment managers and the custodial bank.

The assets of the Fund are managed solely in the interest of each System’s participants and beneficiaries. Fund assets are allocated to professional investment managers who are given full investment discretion with respect to assets under their management, subject to mandated investment guidelines. In the event an investment manager search is deemed prudent by the JIC, a “candidate profile” will be created for each search that lists the rationale and objective in addition to any preferences and requirements relevant to the selection of candidates.

Investment Objectives: The goal of the Fund is to ensure sufficient resources to meet or exceed benefit obligations. Pursuing these objectives, the Boards will endeavor to earn the maximum total return on assets consistent with maintaining a prudent level of risk. In investing and reinvesting monies in the Fund, there shall be exercised the judgment and care under the circumstances then prevailing which people of prudence, discretion and intelligence exercise in the management of their own affairs.

Total Fund returns are compared to a blended target index composed of market indexes weighted to the applicable asset class median. As of December 31, 2019, the blended target consisted of the following:

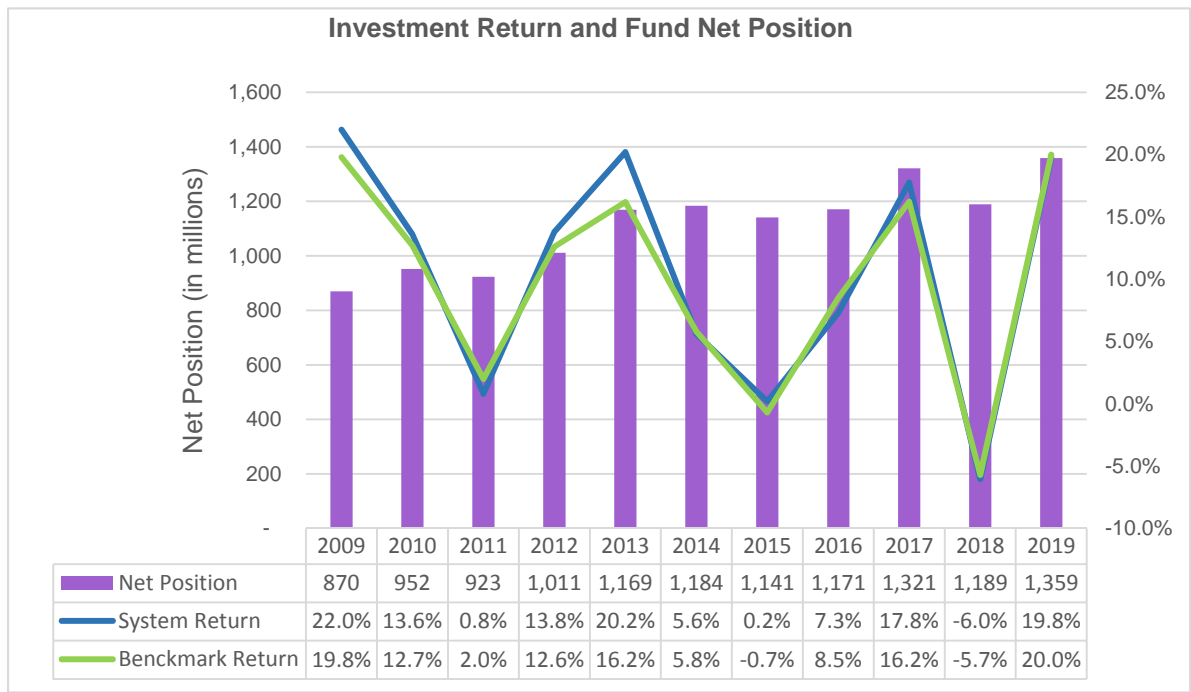
Asset Class	Target Allocation	Relevant Index
Domestic Equity	40%	Russell 3000 Index
International Equity	27%	Morgan Stanley Capital International, All Country World ex-U.S. Index. (MSCI - ACWI)
Fixed Income	20%	Bloomberg Barclays Aggregate Bond Index
Real Estate	7%	National Council of Real Estate Investment Fiduciaries (NCREIF) Total Property Index
Timber	5%	National Council of Real Estate Investment Fiduciaries (NCREIF) Timberland Index
Cash	1%	3 month Treasury Bill Index
Total	100%	

The Boards expect the Fund’s overall returns to be less volatile than the relevant market indices. The Fund’s long-term objective is to achieve an annualized rate of return that is 4.75% higher than the price inflation assumption.

Each equity and fixed income manager's total fund return on a time-weighted basis is compared to a universe of managers employing a similar investment style. Performance relative to a manager's style group is expected to be above median over rolling seven year periods. Over the long term, (ie. a market cycle or periods greater than seven years), each manager's performance will also be compared to a relevant market index.

**Investment Performance**

The accompanying chart illustrates the portfolio's annual gross investment performance compared to the benchmark and changes in the Fund's net position based on asset class allocations at year-end. Net investment performance was not available until 2018 with the change of the custodian of the Fund. After a volatile investment environment in 2008, returns in 2009 through 2013 helped stabilize the fund. The 2019 Fund return of 19.8% trailed the benchmark return of 20.0%. The Fund's net position increased by \$169.9 million, or 14.3%.



The accompanying table illustrates Fund performance compared with plan target and relevant index comparisons.

	Annualized Returns <sup>1</sup>			
	1 year	3 years	5 years	10 years
Fund performance <sup>2</sup>	19.77%	9.84%	7.35%	8.98%
<i>Fund target performance<sup>3</sup></i>	20.03%	9.52%	7.18%	8.19%
Domestic equity	30.44%	14.57%	10.93%	13.45%
<i>Russell 3000 Index</i>	31.02%	14.57%	11.24%	13.42%
International equity	21.82%	9.06%	5.94%	5.70%
<i>MSCI All Country World ex-US Index</i>	21.63%	9.84%	5.71%	5.21%
Fixed income	10.03%	5.05%	3.80%	4.81%
<i>Bloomberg Barclay's Aggregate Bond Index</i>	8.72%	4.03%	3.05%	3.75%
Real Estate	2.83%	5.78%	7.88%	12.25%
<i>NCREIF-ODCE Index</i>	6.42%	6.70%	8.25%	10.17%
Timber	1.30%	2.42%	3.12%	-
<i>NCREIF Timberland Index</i>	1.30%	2.71%	3.13%	-

<sup>1</sup> Performance returns are calculated using a time-weighted return on market values.

<sup>2</sup> Performance is gross of fees. Timber was funded after January 2011.

<sup>3</sup> Fund target performance is as follows:

(a) From 01/01/07 until 12/31/2010; 38% S&P 500 Index; 9% Russell 2000 Index; 20% Morgan Stanley Capital International EAFE Index; 28% Barclays Capital Aggregate Bond Index; 5% NCREIF Total Property Index.

(b) From 01/01/11 until 09/30/2011; 32% Russell 1000 Index; 9% Russell 2000 Index; 20% Morgan Stanley Capital International All Country World (ex-U.S.) Index; 28% Barclays Capital Aggregate Bond Index; 5% NCREIF Total Property Index.

(c) From 10/01/11 until 10/01/16; 32% Russell 1000 Index; 8% Russell 2000 Index; 22% Morgan Stanley Capital International All Country World (ex-U.S.) Index; 22% Barclays Capital Aggregate Bond Index; 5% NCREIF Total Property Index; 5% NCREIF Timberland Index; 3% Barclays Capital U.S. TIPS Index; 3% Dow Jones-UBS Commodity Index.

(d) From 10/01/16 until 05/31/19; 31% Russell 1000 Index; 8% Russell 2000 Index; 26% Morgan Stanley Capital International All Country World (ex-U.S.) Index; 19% Bloomberg/Barclays Aggregate Index; 7% NCREIF Total Property Index; 5% NCREIF Timberland Index; 3% Bloomberg Commodity Trust Index; 1% 3-month Treasury Bill.

(e.) From 06/01/19 until present; 40% Russell 3000 Index; 27% MSCI ex US IMI, 20% Blmbg Aggregate, 7% NCREIF NFI-ODCE Val Wt Nt, 5% NCREIF Timberland Index and 1% 3-month Treasury Bill.

**Asset Allocation**

The Wichita Employees' and the Police and Fire Retirement Boards believe that a diversified portfolio aids in the preservation of investment principal. Growth with limited risk is the Fund's objective. The Boards established the Joint Investment Committee (JIC) to manage the assets of both Systems. Asset allocation, in conjunction with investment manager selection, has a significant impact on investment performance. The JIC is responsible for recommending an Asset Allocation Plan developed with the assistance of Callan, LLC, the Board's financial consultant.



The Boards review the adopted Asset Allocation Plan at least every three years. In 2016, the JIC conducted an Asset-Liability Study to determine whether asset classes should be added, removed, or changed from the existing asset mix. The Boards' financial consultant assisted with asset modeling to define appropriate capital market and liability assumptions to create asset mix alternatives that help simulate financial conditions, define risk tolerance, and identify the appropriate target mix for the portfolio. After a thorough review, the JIC made the following asset allocation changes: (1) eliminated the 3% allocation in the Treasury Inflation Protected Securities (TIPS) fund; (2) reduced domestic equity exposure by 1%; (3) reduced fixed income exposure by 3%; (4) increased the cash position by 1%; (5) increased international equities by 4%; and (6) increased the real estate allocation by 2% in the portfolio. The implementation of the changes began in September 2016 and was completed as of December 31, 2017. In 2019 the JIC liquidated the commodity asset allocation in the portfolio.

The Boards' commitment to the adopted Asset Allocation Plan, which ensures a diversified portfolio, is especially important to minimize the Fund's exposure to market volatility and to help preserve sufficient funding for future generations. As of December 31, 2019, 68.0% of the Fund's assets were invested in equities, 18.93% in fixed income, 6.70% in real estate, 5.52% in timber and 0.85% in cash. The accompanying table displays the Fund's target and actual asset allocations on December 31, 2019.

Asset Class	Asset Allocation			
	Minimum <sup>1</sup>	Target	Maximum <sup>1</sup>	Actual
Domestic equity:				
Large/mid-cap	17.50%	20.80%	24.00%	20.90%
Large-cap passive	8.50%	10.40%	11.50%	11.45%
Small-cap	7.00%	7.80%	9.50%	7.93%
Total domestic equity	33.00%	39.00%	45.00%	40.28%
International equity:				
Active core	9.00%	10.40%	12.00%	10.49%
Passive core	5.50%	6.50%	7.50%	7.49%
Small-cap	3.00%	3.90%	4.50%	3.79%
Emerging markets	4.50%	5.20%	6.00%	5.95%
Total international equity	22.00%	26.00%	30.00%	27.72%
Fixed income:				
Active core	6.50%	7.60%	8.50%	7.57%
Active core plus	6.50%	7.60%	8.50%	7.60%
Global	3.00%	3.80%	5.00%	3.76%
Total fixed income	16.00%	19.00%	22.00%	18.93%
Real estate:				
Core	5.00%	7.00%	9.00%	6.70%
Timber	3.00%	5.00%	7.00%	5.52%
Cash	0.00%	1.00%	5.00%	0.85%

<sup>1</sup> Because the styles within each asset class are more restrictive than the overall asset class, the min/max ranges for the styles within each asset class may not total the min/max for the overall asset class.

### Investment Holdings

The Fund's top ten largest equity holdings by fair value and top ten largest fixed income holdings by fair value as of December 31, 2019 are summarized in the accompanying tables. A complete listing of the portfolio of investments is available from the Pension Management Office upon request.

Ten Largest Equity Holdings			
As of December 31, 2019			
Holding	Fair Value	Number of Shares	Percent of Total Portfolio
Microsoft Corporation	\$ 14,082,452	89,299	1.04%
Amazon.com, Inc.	9,982,032	5,402	0.74
VISA, Inc.	7,130,241	37,947	0.53
Apple, Inc.	7,037,322	23,965	0.52
Facebook, Inc.	6,894,142	33,589	0.51
Alphabet, Inc. Class C	6,135,585	4,589	0.45
Alibaba Group Holding, Ltd	6,101,905	28,769	0.45
Salesforce.com, Inc.	5,647,511	34,724	0.42
Adobe, Inc.	5,068,520	15,368	0.37
Nestle SA	3,966,892	36,661	0.29
Total	\$ 72,046,602	310,313	5.32%

Ten Largest Fixed Income Holdings			
As of December 31, 2019			
Holding	Fair Value	Number of Shares	Percent of Total Portfolio
US Treasury Bond	\$ 6,241,667	5,750,000	0.46%
US Treasury Bill	3,738,167	3,740,000	0.28
Japanese Government CPI Linked	3,674,419	388,314,850	0.27
US Treasury Note	2,796,982	2,655,000	0.21
FNMA Pool #0BM4580	1,911,046	1,822,201	0.14
Russian Federal Bond - OFZ	1,874,343	107,850,000	0.14
FNMA Pool #0BH2594	1,814,685	1,740,260	0.13
Malaysia Government Bond	1,723,951	6,650,000	0.13
US Treasury Note	1,633,996	1,620,000	0.12
FNMA Pool #0AZ4750	1,559,956	1,483,530	0.12
Total	\$ 26,969,212	521,625,841	2.00%

The tables presented on the following pages provide additional information about portfolio investments, including fair value of investment assets by investment, assets under management and related investment management fees by manager and brokerage commissions earned for the year ended December 31, 2019.



Investment Summary by Type of Investment as of December 31, 2019		
Type of Investment	Fair Value	% of Total Portfolio
Government short-term investment fund	\$ 32,083,134	2.36%
Equity:		
Domestic equity	536,946,004	39.51
International equity	365,718,566	26.91
Total equities	902,664,570	66.42
Fixed income	250,525,814	18.43
Real estate	90,057,532	6.63
Target date and money market funds	6,224,462	0.46
Timber	74,784,648	5.50
Derivative investments	52,808	0.00
Securities lending short-term collateral investment pool	2,753,663	0.20
<b>Total Investments</b>	<b>\$ 1,359,146,631</b>	<b>100.00%</b>

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Investment Assets Under Management and Related Management Fees		
As of and for the year ended December 31, 2019		
Asset Category/Investment Manager	Management Fees	Fair Value
Fixed income:		
Richmond Capital Management, Inc.	\$ 196,626	\$ 99,198,147
Western Asset Management Co.	307,807	101,969,888
The Bank of New York Mellon Collective Trust GSTIF <sup>1</sup>	-	32,083,134
Mellon Asset Management	177,334	49,410,587
Total fixed income	681,767	282,661,756
Domestic equity:		
Barrow, Hanley, Mewhinney & Strauss, Inc.	639,130	135,199,074
Boston Partners Asset Management	437,857	50,875,004
Fred Alger Management, Inc.	606,005	143,036,632
Peregrine Capital Management	455,625	52,799,257
SSGA <sup>2</sup> S&P 500 Flagship Fund	34,493	155,036,037
Total domestic equity	2,173,110	536,946,004
International equity:		
Fidelity Investment Asset Mgmt	600,360	138,588,846
SSGA <sup>2</sup> MSCI World-Ex-U.S. Index	57,178	101,389,251
Brandes Investment Partners	400,615	51,267,665
AQR Emerging Markets Index Fund	551,413	74,472,804
Total international equity	1,609,566	365,718,566
Real estate:		
RREEF America REIT II	462,145	49,492,223
UBS Trumbull Property Fund	357,164	40,565,309
Total real estate	819,309	90,057,532
Timber:		
Molpus Woodlands Fund III	242,789	23,649,841
Molpus Woodlands Fund IV	293,706	30,134,807
Molpus Woodlands Fund V	22,540	21,000,000
Total timber	559,035	74,784,648
Commodities:		
Wellington	97,828	-
Defined contribution pooled funds:		
SSGA <sup>2</sup> Target Date Funds	-	5,864,427
SSGA <sup>2</sup> Cash Series Prime Fund CL C	-	360,035
Total defined contribution pooled funds	-	6,224,462
Total	\$ 5,940,615	\$ 1,356,392,968

<sup>1</sup> Government Short Term Investment Fund

<sup>2</sup> State Street Global Advisors

Schedule of Brokerage Commissions				
For the year ended December 31, 2019				
Brokerage Firm	Total Commissions	Number of Shares	Commission Per Share	Percent of Total
Goldman Sachs & Co, NY	\$ 47,014	516,885	\$ 0.09096	12.50%
Cowen and Company, Llc, Jersey City	43,503	1,201,876	0.03620	11.57
Credit Suisse (HK) Limited, Hong Kong	11,393	478,800	0.02379	3.03
J.P. Morgan Securities Inc, New York	11,334	345,849	0.03277	3.01
Cowen and Co Llc, New York	11,275	599,612	0.01880	3.00
Jefferies & Co Inc, New York	11,136	403,452	0.02760	2.96
Credit Suisse, New York (CSUS)	10,942	625,718	0.01749	2.91
Weeden & Co, New York	10,768	414,568	0.02597	2.86
Goldman Sachs Intl, London (GSILGB2X)	9,217	545,632	0.01689	2.45
Liquidnet Inc, New York	9,179	489,136	0.01876	2.44
Piper Jaffray & Co, Jersey City	8,068	242,616	0.03326	2.14
Bay Crest Partners Llc, New York	7,884	218,998	0.03600	2.10
Tourmaline Partners Llc, New York	7,826	217,402	0.03600	2.08
Citigroup Global Markets Ltd, London	7,474	938,776	0.00796	1.99
Bernstein Sanford C & Co, New York	7,263	391,932	0.01853	1.93
UBS Equities, London	6,991	556,779	0.01256	1.86
Baird, Robert W & Co Inc, Milwaukee	6,797	176,138	0.03859	1.81
Credit Lyonnais Secs, Singapore	5,935	125,400	0.04733	1.58
Macquarie Bank Ltd, Hong Kong	5,647	177,700	0.03178	1.50
UBS Securities Llc, Stamford	4,953	206,029	0.02404	1.32
BNP Paribas Sec Srvs SA, Singapore	4,843	136,800	0.03541	1.29
BTIG Llc, New York	4,837	144,252	0.03353	1.29
Merrill Lynch Pierce Fenner Smith Inc NY	4,621	174,130	0.02654	1.23
Wells Fargo Securities, Llc, New York	4,566	126,712	0.03603	1.21
Barclays Capital Le, New York	4,237	141,698	0.02990	1.13
Suntrust Capital Markets Inc, New York	4,194	120,177	0.03490	1.12
Barclays Capital Inc/Le, New Jersey	3,909	127,396	0.03068	1.04
RBC Capital Markets Llc, New York	3,899	113,527	0.03434	1.04
Deutsche Bk Intl Eq, London (DEUTGB22EEQ)	3,867	761,254	0.00508	1.03
Other firms (Includes 115 brokerage firms, each contributing less than 1% of total)	92,539	5,702,239	0.01623	24.58
<b>Total brokerage commissions</b>	<b>\$ 376,111</b>	<b>16,421,483</b>	<b>\$ 0.02290</b>	<b>100.00%</b>

*ACTUARIAL SECTION*



June 2, 2020

Boards of Trustees for the Wichita Employees' Retirement System and  
Police and Fire Retirement System of Wichita, Kansas  
City Hall, 12<sup>th</sup> Floor  
455 N. Main Street  
Wichita, KS 67202

**Re: *Certification of the December 31, 2019 Actuarial Valuations***

Dear Board Members:

This is the Actuary's Certification Letter for the Actuarial Section of the Comprehensive Annual Financial Report (CAFR) for the Wichita Employees' Retirement System and the Police and Fire Retirement System of Wichita, Kansas as of December 31, 2019. This letter includes references to three documents produced by Cheiron for each System: the Actuarial Valuation Report as of December 31, 2019, the GASB 67 Report as of December 31, 2019, and the GASB 68 Report as of December 31, 2019.

**Actuarial Valuation Reports as of December 31, 2019**

The purpose of the annual Actuarial Valuation Reports as of December 31, 2019 are to determine the actuarial funding status of the Systems on that date and to calculate the employer contribution rate for Fiscal Year 2021.

Actuarial funding is based on the Entry Age Normal cost method. Under this method, a contribution rate provides for the current cost (normal cost) plus a level percentage of payroll to amortize the Unfunded Actuarial Liability (UAL). The UAL is amortized over an open (rolling) 20-year period as a level percentage of payroll. For actuarial valuation purposes, System assets are based on the Actuarial Value of Assets. For these Systems, the Actuarial Value of Assets is calculated as the expected Actuarial Value of Assets plus 25% of the difference between the expected Actuarial Value of Assets and the actual Market Value of Assets. The actuarial value is limited to no less than 80% and no more than 120% of market value.

The funding objective of the Systems is to establish and receive contributions which (1) when expressed as a percent of active payroll, will remain approximately level from generation to generation of Wichita citizens, and (2) when combined with present assets and future investment returns will be sufficient to meet the financial obligations of the Systems for present and future retirees and beneficiaries.

The Boards of Trustees are responsible for establishing and maintaining the funding policy of the Systems.

The December 31, 2019 valuation results are based on the same actuarial assumptions and methods used in the December 31, 2018 valuations produced by the prior actuary. The

assumptions were based on recommendations from the experience studies covering the period January 1, 2014 through December 31, 2016 prepared by the prior actuary. Cheiron has reviewed the assumptions. While we consider these assumptions to be generally reasonable, we have not performed our own actuarial experience study. The actuarial assumptions and methods used for funding purposes meet the parameters set by Actuarial Standards of Practice.

We certify that the valuations were performed in accordance with generally accepted actuarial principles and practices. In particular, the assumptions and methods used for funding purposes meet the requirements of the Actuarial Standards of Practice, in particular Standards Nos. 4, 27, 35, and 44.

### **GASB 67 and 68 Reports as of December 31, 2019**

The purpose of the GASB 67 and 68 Reports as of June 30, 2019 are to provide accounting and financial reporting information under GASB 67 for the Systems and under GASB 68 for the City of Wichita. These reports are not appropriate for other purposes, including the measurement of funding requirements for the Systems.

For financial reporting purposes, measurements as of the reporting date are based on the fair value of assets and the Total Pension Liability as of December 31, 2019.

The calculation of the Total Pension Liability and the projection of the System's contributions and projected benefit payments as of December 31, 2019 were based on the same data, actuarial assumptions and methods, and plan provisions as used in the actuarial valuation reports as of December 31, 2019, except for the discount rate.

In accordance with Paragraph 40 of GASB Statement No. 67, the projection of the Plan's fiduciary net position is based on a long-term expected rate of return of 7.60% per annum for the Wichita Employees' Retirement System and 7.59% for the Police and Fire Retirement System of Wichita, Kansas, net of investment expenses. For the Actuarial Valuation as of December 31, 2019, the investment rate of return is net of both investment and administrative expenses and is assumed to be 7.50%. The administrative expenses for the plan year ending December 31, 2019 were 0.10% of assets for the Wichita Employees' Retirement System and 0.09% for the Police and Fire Retirement System of Wichita, Kansas.

We certify that the reports were performed in accordance with generally accepted actuarial principles and practices. In particular, the assumptions and methods used for disclosure purposes have been prepared in accordance with our understanding of generally accepted accounting principles as promulgated by the GASB.

We prepared the following supporting schedules that are included in the Comprehensive Annual Financial Report. All historical information prior to December 31, 2019 is based on information reported by the prior actuary.



## **Actuarial Section**

Summary of Actuarial Methods and Assumptions  
Active Member Valuation Data  
Retirants and Beneficiaries Added to and Removed from Rolls  
Solvency Test  
System Experience Gain/(Loss)  
Schedule of Funding Progress

## **Statistical Section**

Average Benefit by Years of Service  
Retired Members by Type and Benefit Amount

## **Financial Section**

Calculation of the Total Pension Liability and Net Pension Liability  
Sensitivity Analysis of the Net Pension Liability  
Schedule of Changes in the Employers' Net Pension Liability and Related Ratios  
Schedule of Employer Contributions

## **Disclaimers**

In preparing our reports, we relied on information (some oral and some written) supplied by the Wichita Retirement Systems staff. This information includes, but is not limited to, the plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23. The reports do not reflect any subsequent changes in the membership or assets.

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

These reports are for the use of the Boards and their auditor in preparing financial reports in accordance with applicable law and accounting requirements. Any other user of these reports is not an intended user and is considered a third party.

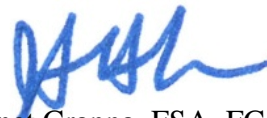
Cheiron's reports were prepared solely for the Wichita Employees' Retirement System and the Police and Fire Retirement System of Wichita, Kansas for the purposes described herein, except that the Plan's auditor may rely on these reports solely for the purpose of completing an audit related to the matters herein. They are not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

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

Sincerely,  
Cheiron



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



Janet Cranna, FSA, FCA, MAAA, EA  
Principal Consulting Actuary



Jake Libauskas, FSA, MAAA, EA  
Associate Actuary



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**1. Wichita Employees' Retirement System**

Provisions of the plan are outlined in the financial section of this report beginning on page A-22. The Plans prepare two actuarial valuations - one for funding purposes and one for accounting and financial reporting purposes under Governmental Accounting Standards Board Statement 67, *Financial Reporting for Pension Plans - an Amendment of GASB Statement No. 25*. With the exception of the discount rate used, the actuarial cost methods and assumptions used for financial reporting purposes are consistent with those utilized for funding purposes.

**A. Actuarial Cost Method**

The actuarial cost method is a procedure for allocating the actuarial present value of pension plan benefits and expenses to time periods. The method used for the valuation is known as the Entry Age Normal actuarial cost method and has the following characteristics:

- The annual normal costs for each individual active member are sufficient to accumulate the value of the member's pension at time of retirement, and
- Each annual normal cost is a constant percentage of the member's year-by-year projected covered compensation.

The Entry Age Normal actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's assumed pensionable compensation rates between the entry age of the member and the assumed exit age.

The portion of the actuarial present value of retirement system benefits allocated to the valuation year is called the normal cost. The portion of the actuarial present value not provided for by the actuarial present value of future normal costs is called the actuarial liability. Deducting actuarial assets from the actuarial liability determines the unfunded actuarial liability (or surplus). The Wichita Employees' Retirement System (WERS) had an unfunded actuarial liability of \$62.2 million as of December 31, 2019.

**B. Actuarial Assumptions Used for Valuations**

System contribution requirements and actuarial present values are calculated by applying experience assumptions to the benefit provisions and participant information of the Retirement System using the actuarial cost method. These assumptions were proposed by the Fund's actuary following the completion of an experience study covering the period January 1, 2014 through December 31, 2016, and adopted by the Board on September 19, 2018. An experience study is performed every five years.

The actuarial valuation of assets is based upon the "Expected Value plus 25%" method, which levels the effects of fair value fluctuations by recognizing 25% of the difference between the expected actuarial value and the fair value of assets. The Board first adopted this methodology for the December 31, 2002 valuation. Actuarial gains and losses reduce or increase the unfunded actuarial liability or surplus, which is amortized over a rolling 20-year amortization period.

Long-Term Rate of Return: The investment return rate, net of investment expenses and administrative expenses, used for the actuarial valuation performed for funding purposes is 7.50% per year, compounded annually. This rate consists of 2.75% in recognition of long-term price inflation and 4.75% in recognition of a real rate of return over price inflation. This assumption, used to equate the value of payments due at different points in time, was adopted by the Board and was first used for the December 31, 2018 valuation.

The 7.6% rate of return used for accounting purposes is based on the same underlying data as the rate used for funding purposes. However, the rate used for accounting purposes represents investment return, net of investment expenses. Administrative expenses are accounted for separately, consistent with the requirements of GASB Statement No. 67.

Salary Projections: These assumptions are used to project current salaries to determine average annual compensation. They consist of the same inflation component used for the investment return assumption, a component reflecting productivity and the competition from other employers for personnel, and a years-of-service component to reflect promotion and longevity increments.

Salary increases are assumed to occur mid-year. The salary increase assumptions are expected to produce 3.25% annual increases in active member payroll (the inflation and productivity base rate), given a constant active member group size. This is the same payroll growth assumption used to amortize the unfunded actuarial liability. The rate of return over assumed wage growth is 4.25% per year. These assumptions were first used for the December 31, 2018 valuation. Assumptions about annual rates of salary increases are summarized in the accompanying table.

Years of Service	Inflation Component	Productivity Component	Merit and Longevity	Total
Under 1	2.75%	0.50%	3.25%	6.50%
1	2.75	0.50	3.10	6.35
2	2.75	0.50	2.90	6.15
3	2.75	0.50	2.70	5.95
4	2.75	0.50	2.50	5.75
5	2.75	0.50	2.30	5.55
6	2.75	0.50	2.10	5.35
7	2.75	0.50	1.90	5.15
8	2.75	0.50	1.80	5.05
9	2.75	0.50	1.70	4.95
10	2.75	0.50	1.60	4.85
11	2.75	0.50	1.50	4.75
12	2.75	0.50	1.40	4.65
13	2.75	0.50	1.30	4.55
14	2.75	0.50	1.20	4.45
15	2.75	0.50	1.06	4.31
16	2.75	0.50	0.92	4.17
17	2.75	0.50	0.78	4.03
18	2.75	0.50	0.64	3.89
19	2.75	0.50	0.50	3.75
20	2.75	0.50	0.35	3.60
Over 20	2.75	0.50	0.25	3.50

Annual Post-Retirement Benefit Increases: Retirees in Plan 1 are entitled to annual post-retirement benefit increases of 3% of their original benefit after 12 months of retirement. Retirees in Plan 2 are entitled to annual post-retirement benefit increases of 2% of their original benefit after 12 months of retirement. Post-retirement benefit increases are not compounded.

**Rates of Retirement and Deferred Retirement Option Plan (DROP) Elections:** The rates displayed in the accompanying table are used to measure the probability of eligible members retiring under either the regular retirement provisions or the Deferred Retirement Option Plan. In addition, the following assumptions apply to members in this category:

- Plan 2: 75% of members with 33.33 or more years of service that are at least age 62 were assumed to elect the DROP with an average DROP period of 36 months.
- All members of the retirement system were assumed to retire on or before age 70. Deferred vested members are assumed to retire at age 62. This assumption was first used in the December 31, 2018 actuarial valuation.

**Marriage:** 70% of non-retired members were assumed to be married for purposes of death benefits. In each case, the male was assumed to be three years older than the female.

**Sick Leave:** Accumulated unused sick leave is converted to service credits for the purpose of computing annual benefits. The calculated normal retirement benefits were increased by 1.75% to account for the inclusion of unused sick leave in the calculation of service credit. This assumption was first used with the December 31, 2018 valuation.

Rates of Retirement		
Retirement		
Age	Plan 1	Plan 2
55	15%	1%
56	15	1
57	15	1
58	15	1
59	15	1
60	40	3
61	40	10
62	20	50
63	20	25
64	20	25
65	100	40
66	N/A	40
67	N/A	40
68	N/A	40
69	N/A	40
70	N/A	100

**Forfeiture of Vested Benefits:** A percentage of the actuarial present value of vested termination benefits is assumed to be forfeited by a withdrawal of accumulated contributions. This percentage is applied individually based on years of service. The data in the accompanying table was first used for the December 31, 2004 actuarial valuation.

Years of Service	Percent Forfeiting
Less than 15	60%
15 - 19	40
20 - 24	20
25 or more	-

**Plan 3 Transfer:** Plan 3 (defined contribution plan) members are assumed to elect Plan 2 if they acquire seven years of service. An actuarial reserve is held for the difference between the fair and actuarial value of assets. This assumption was last revised for the December 31, 2004 valuation.

**Mortality Assumptions:** This assumption is used to measure the probabilities of members dying before retirement and the probabilities of each pension payment being made after retirement. As summarized in the following table, the RP-2000 tables are used, with generational mortality. This table was first used for the December 31, 2004 actuarial valuation.

Active Members	based on the RP-2000 Employee Table, projected generationally using Scale AA (ages set forward two years for males, zero for females).
Healthy Retirees And Beneficiaries	based on the RP-2000 Healthy Annuitant Table, projected generationally using Scale AA (ages set forward two years for males, zero for females).
Disabled Retirees	based on the RP-2000 Disabled Table for Males and Females, projected generationally using Scale AA.

Rates of Separation from Active Membership:

This assumption measures the probabilities of a member terminating employment. The rates do not apply to members who are eligible to retire. Annual probabilities of terminating are summarized in the accompanying table. This assumption was first used for the December 31, 2018 valuation.

Years of Service	Termination Rates	Years of Service	Termination Rates
0-1	13.50 %	15	3.00 %
2	12.00	16	2.75
3	10.00	17	2.50
4	9.00	18	2.25
5	8.00	19	2.00
6	7.00	20	1.75
7	6.00	21	1.50
8	5.00	22	1.25
9-11	4.50	23-25	1.00
12	4.00	26-29	0.50
13	3.50	30+	0.00
14	3.25		

Vested Deferred Pensions: Amounts are assumed to increase during the deferral period to 3.50% per year, compounded annually. This assumption was first used in the December 31, 2018 valuation.

C. Actuarial Tables

Several tables are presented on the following pages to provide information about active members of the Wichita Employees' Retirement System, as well as retirees and beneficiaries. These tables also present information about the solvency of the plan, system experience and funding progress.

Active Member Valuation Data as of December 31, 2019							
Valuation Date	Number of Members				Annual Covered Payroll (in thousands)	Average Annual Pay	Percentage Change in Average Annual Pay
	Plan 1	Plan 2	Plan 3 <sup>1</sup>	Total			
12/31/2010	61	993	661	1,715	\$ 79,636	\$ 46,435	2.1 %
12/31/2011	31	916	611	1,558	75,444	48,424	4.3
12/31/2012	26	950	527	1,503	70,783	47,095	(2.7)
12/31/2013	15	957	517	1,489	70,952	47,652	1.2
12/31/2014	8	989	520	1,517	71,391	47,061	(1.2)
12/31/2015	5	988	539	1,532	74,028	48,321	2.7
12/31/2016	3	952	617	1,572	77,121	49,059	1.5
12/31/2017	3	891	647	1,541	78,395	50,873	3.7
12/31/2018	2	852	675	1,529	78,899	51,601	1.4
12/31/2019	1	821	696	1,518	80,029	52,720	2.2

<sup>1</sup> Plan 3 totals do not include Plan 3b members, who have made an irrevocable election to remain in the defined contribution plan.

Retirants and Beneficiaries Added to and Removed from Rolls								
Valuation Date	Added to Rolls		Removed from Rolls		Year-End Rolls		Annual Pensions	
	No.	Annual Pensions <sup>1</sup>	No.	Annual Pensions <sup>1</sup>	No.	Annual Pensions <sup>1</sup>	Average Pension	Percentage Increase (Decrease)
12/31/2010	71	\$ 1,847,020	59	\$ 949,872	1,193	\$ 29,855,835	\$ 25,026	2.9 %
12/31/2011	164	4,305,336	47	824,103	1,310	32,885,454	25,103	0.3
12/31/2012	50	1,010,373	58	1,036,870	1,302	31,730,663	24,371	(2.9)
12/31/2013	72	1,676,296	47	744,036	1,327	33,294,857	25,090	3.0
12/31/2014	68	1,549,070	54	927,726	1,341	34,427,388	25,673	2.3
12/31/2015	90	1,830,381	51	1,132,754	1,380	35,726,088	25,888	0.8
12/31/2016	78	1,730,868	65	1,194,869	1,393	36,931,056	26,512	2.4
12/31/2017	71	1,678,547	48	1,153,410	1,416	38,125,080	26,924	1.6
12/31/2018	77	1,811,362	72	1,537,746	1,421	39,094,992	27,512	2.2
12/31/2019	78	2,148,529	69	1,428,652	1,430	40,503,100	28,324	2.9

<sup>1</sup> Values are estimated based upon annualized pension amounts.

Solvency Test								
Valuation Date	Aggregate Actuarial Liability For:				Reported Valuation Assets	Portion of Actuarial Liabilities Covered by Reported Assets		
	(1) Active Member Contributions	(2) Retirants and Beneficiaries <sup>1</sup>	(3) Active Members (Employer Financed)	(3)		(1)	(2)	(3)
12/31/2010	\$ 50,473,365	\$ 293,227,477	\$ 196,734,871	(3)	\$ 516,307,845	100 %	100 %	87.7 %
12/31/2011	45,440,569	349,202,490	160,530,664	(3)	513,298,382	100	100	73.9
12/31/2012	49,519,050	347,350,296	174,936,109	(3)	520,320,051	100	100	70.6
12/31/2013	50,337,976	362,224,034	169,823,819	(3)	542,157,342	100	100	76.3
12/31/2014	51,408,059	369,926,908	168,780,115	(3)	560,031,764	100	100	82.2
12/31/2015	51,609,961	378,186,127	176,058,606	(3)	568,464,178	100	100	78.8
12/31/2016	53,857,062	385,231,766	181,400,097	(3)	575,971,337	100	100	75.6
12/31/2017	55,050,806	395,107,729	184,748,720	(3)	598,793,422	100	100	80.5
12/31/2018	56,965,551	408,534,420	193,208,730	(3)	598,778,588	100	100	69.0
12/31/2019	56,989,509	422,969,785	195,297,778	(3)	613,063,149	100	100	68.2

<sup>1</sup> Includes vested and nonvested terminated members.

**System Experience:** For the year ended December 31, 2019, the Wichita Employees' Retirement System experienced an actuarial loss of approximately \$1.9 million. The loss for the 2019 plan year reflects the combined impact of an actuarial net gain of \$1.6 million on the actuarial value of plan assets and an actuarial loss of \$3.5 million on liabilities. The loss on System liabilities were primarily due to the change in actuary partially offset by salary increases that were lower than expected. Information about the factors that contributed to the actuarial loss is presented in the following table.

	Increase (Decrease)		
	Actuarial Liability	Actuarial Value of Assets	Unfunded Actuarial Liability
	(a)	(b)	(a) - (b)
Balances as of December 31, 2018	\$ 658,708,701	\$ 598,778,588	\$ 59,930,113
Changes for the year:			
Normal cost	9,138,247	-	9,138,247
Plan 3 members transferring to Plan 3b	(94,720)	(94,720)	-
Contributions	-	13,453,777	(13,453,777)
Benefit payments	(44,447,896)	(44,447,896)	-
Interest	48,448,370	43,763,639	4,684,731
Impact of assumption changes	-	-	-
Expected actuarial value at December 31, 2019	671,752,702	611,453,388	60,299,314
Actual actuarial value as of December 31, 2019	675,257,072	613,063,149	62,193,923
Actuarial (gain) loss	\$ 3,504,370	\$ (1,609,761)	\$ 1,894,609

Schedule of Funding Progress						
Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Liability (AL) (b)	Unfunded AL (UAL) (b)-(a)	Funded Ratio (a)/(b)	Active Member Covered Payroll (c)	UAL as a Percentage of Active Member Covered Payroll [(b)-(a)]/(c)
12/31/2010	\$ 516,308	\$ 540,436	\$ 24,128	95.5%	\$ 79,636	30.3%
12/31/2011	513,298	555,174	41,876	92.5	75,444	55.5
12/31/2012	520,320	571,805	51,485	91.0	70,783	72.7
12/31/2013	542,157	582,386	40,229	93.1	70,953	56.7
12/31/2014	560,032	590,115	30,083	94.9	71,391	42.1
12/31/2015	568,464	605,855	37,391	93.8	74,028	50.5
12/31/2016	575,971	620,219	44,248	92.9	77,121	57.4
12/31/2017	598,793	634,907	36,114	94.3	78,395	46.1
12/31/2018	598,779	658,709	59,930	90.9	78,899	76.0
12/31/2019	613,063	675,257	62,194	90.8	80,029	77.7

(Rounded dollar amounts are in thousands.)

A schedule of Employer Contributions, including a comparison of actuarially determined contributions to actual contributions made, is presented as Required Supplementary Information on page A-32 in the Financial Section of this report.

## D. Summary of Benefit Provisions

Plan 1 is a closed plan, which is applicable to members employed prior to July 18, 1981 who did not elect to be converted to Plan 2. Plan 2 is applicable to members employed prior to July 18, 1981 who elected to be covered by Plan 2, those employed or re-employed on or after July 18, 1981 and before January 1, 1994, and Plan 3 members who, upon vesting, elect to become members of Plan 2. A summary of benefit provisions applicable to the plans is presented below. A more detailed description of Plan provisions is available upon request from the Pension Management Office.

Contributions:• Employee contributions:

Plan 1: 6.4% of base salary, longevity and overtime pay.

Plan 2 and Plan 3: 4.7% of base salary and longevity pay (effective February 19, 2000).

• Employer contributions:

Actuarially determined amounts which, together with employee contributions and investment earnings, fund the obligations of the System in accordance with accepted actuarial principles.

Unused sick leave: Accumulated unused sick leave is converted to service credits for the purpose of computing annual benefits.

Normal Retirement:• Eligibility:

Plan 1: Age 60 with seven or more years of service, or any age with 30 or more years of service.

Plan 2: Age 62 with seven or more years of service.

• Benefit:

Plan 1: Years of service times 2.5% of final average salary, to a maximum of 75%.

Plan 2: Years of service times 2.25% of final average salary, to a maximum of 75%.

• Final Average Salary: Average for the three consecutive years within the last 10 years of service that produce the highest average salary.Early Retirement:• Eligibility: Age 55 with seven or more years of service.• Benefit: An amount computed as for normal retirement, but reduced for each month retirement precedes age 60 under Plan 1 and age 62 under Plan 2. The amount of reduction per month of early retirement is computed as follows:

Plan 1: A service-graduated percentage for each month retirement precedes age 60. The percentage is .05 of 1% if service is 29 years but less than 30 years, increasing by .05 of 1% for each additional year service is less than 30 years, to a maximum of .50 of 1% if service is less than 21 years.

Plan 2: An age-graduated percentage for each month retirement precedes age 62. The percentage is 0.6% for each month that the member's age precedes age 62, up to a maximum of 50.4% at age 55.

Service-Connected Disability:

- Eligibility: All Plans: No age or service requirement. Disability must be permanent and total, and precludes performance of any duties for a City position commensurate with the employee's training, experience, and education.
- Benefit:
  - Plan 1: 60% of final rate of salary.
  - Plan 2: 50% of final rate of salary.

Non-Service Connected Disability:

- Eligibility: Seven or more years of service and under age 60, Plan 1, or age 62, Plan 2. Disability must be permanent and total and preclude performance of any duties for a City position commensurate with the employee's training, experience and education.
- Benefit:
  - Plan 1: 30% of final average salary plus 1% of final average salary for each year of service in excess of seven years, to a maximum of 50%.
  - Plan 2: 25% of final rate of salary.

Deferred Retirement Option Plan (DROP):

- Eligibility: Must be eligible for retirement and elect to participate in the DROP for 1 to 60 months.
- Benefit: Benefit computed based on years of service and final average salary as of DROP election date, which is paid into member's notional DROP account during the deferral period. Member continues to make required employee contributions during the deferral period. Interest at an annual rate of 5% is credited to the notional DROP account. Voluntary termination of employment during the DROP period results in a loss of accrued interest. Balance of DROP account is payable within 90 days of actual termination of employment.

Deferred Retirement:

- Eligibility:
  - Plan 1: Termination of service with 7 or more years of service and under age 60.
  - Plan 2: Termination of service with 7 or more years of service and under age 62.
- Benefit: Deferred pensioner may apply for a reduced retirement benefit upon meeting the applicable age requirement for early retirement (55 years) or an unreduced pension upon meeting the applicable age requirement for normal retirement (60 years, Plan 1 or 62 years, Plan 2). A refund of employee contributions, plus 5% annual interest, may be elected in lieu of a retirement benefit. Retirement benefit is computed as for normal retirement. Deferred pensions are adjusted during the deferral period based on changes in the National Average Earnings Index, up to 5.5% annually.

Pre-Retirement Survivor Benefits (surviving spouse and minor child):

- Eligibility: Death of employee with seven or more years of credited service.
- Benefit: 50% of the benefit earned by the deceased employee at the time of death, plus 10% of the deceased employee's final average salary for each minor child under age 18, to a maximum of 75% of final average salary. If no surviving spouse, benefit is 20% of final average salary on account of each child to a maximum of 60% of final average salary; terminates when child reaches age 18.



Pre-Retirement Survivor Benefits (designated beneficiary): When no spouse or minor child is eligible for a survivor's benefit, the retiree may designate a beneficiary.

- Eligibility: Death of employee with seven or more years of credited service.
- Benefit: Accumulated contributions plus 5% annual interest, and one month's salary for each full year of service, not to exceed six months of salary.

Post-Retirement Survivor Benefits (surviving spouse and minor child):

- Eligibility: Spouse must have been married to retired employee for one year or more at time of death if retired after January 1, 2000. If retired prior to January 1, 2000, must have been married to retired employee at retirement. A minor child must be under age 18.
- Benefit: 50% of benefit paid to retiree at time of death, plus 10% of retiree's final average salary for each minor child under age 18, to a maximum of 75% of final average salary. If no surviving spouse, benefit is 20% of final average salary on account of each child to a maximum of 60% of final average salary; terminates when child reaches age 18. Plan 1 also includes a \$1,500 funeral benefit.

Post-Retirement Survivor Benefits (designated beneficiary): When no spouse or minor child is eligible for a survivor's benefit, the retiree may designate a beneficiary.

- Benefit: Final partial benefit due retiree through date of death plus balance, if any, of contributions and interest. Plan 1 also includes a \$1,500 funeral benefit.

Refund of Contributions:

- Eligibility: Termination of employment without eligibility for any other benefit.
- Benefit: Accumulated contributions at the time of termination, plus 5% annual interest.

## 2. Wichita Employees' Retirement System Plan 3 and Plan 3b

The City contributes to Wichita Employees' Retirement System Plan 3, a defined contribution pension plan, for all of its full-time civilian employees hired or rehired on or after January 1, 1994. Provisions of the plan are outlined in the financial section of this report beginning on page A-22.

### A. Summary of Benefit Provisions

Because Plan 3 and Plan 3b are defined contribution plans, members of those plans are only entitled to certain limited retirement benefits as described below. In the event that a Plan 3 or Plan 3b member is granted either of these benefits, the member will be required to forfeit the balance of contributions and earnings in his or her participant account.

Service-Connected Disability:

- Eligibility: No age or service requirement. Disability must be permanent and total and preclude the performance of any duties for a City position commensurate with the employee's training, experience and education.
- Benefit: 50% of final rate of salary; or distribution of vested Plan 3 account.

Non-Service Connected Disability:

- Eligibility: Seven or more years of service and under age 62. Disability must be permanent and total and preclude the performance of any duties for a City position commensurate with the employee's training, experience and education.
- Benefit: 25% of final rate of salary; or distribution of vested Plan 3 account.

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### 3. Police and Fire Retirement System of Wichita, Kansas

Provisions of the plan are outlined in the Financial Section of this report beginning on page A-25. The Plans prepare two actuarial valuations - one for funding purposes and one for accounting and financial reporting purposes under Governmental Accounting Standards Board Statement No. 67, *Financial Reporting for Pension Plans - an Amendment of GASB Statement No. 25*. With the exception of the discount rate used, the actuarial cost methods and assumptions used for financial reporting purposes are consistent with those utilized for funding purposes.

#### A. Actuarial Cost Method

The actuarial cost method is a procedure for allocating the actuarial present value of pension plan benefits and expenses to time periods. The method used for the valuation is known as the Entry Age Normal actuarial cost method and has the following characteristics:

- The annual normal costs for each individual active member are sufficient to accumulate the value of the member's pension at time of retirement, and
- Each annual normal cost is a constant percentage of the member's year-by-year projected covered compensation.

The Entry Age Normal actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's assumed pensionable compensation rates between the entry age of the member and the assumed exit age.

The portion of the actuarial present value of retirement system benefits allocated to the valuation year is called the normal cost. The portion of the actuarial present value not provided for by the actuarial present value of future normal costs is called the actuarial liability. Deducting actuarial assets from the actuarial liability determines the unfunded actuarial liability (or surplus). The Police and Fire Retirement System (PFRS) had an unfunded actuarial liability of \$66.2 million as of December 31, 2019.

#### B. Actuarial Assumptions Used for Valuations

System contribution requirements and actuarial present values are calculated by applying experience assumptions to the benefit provisions and participant information of the Retirement System, using the actuarial cost method. These assumptions were proposed by the Fund's actuary following the completion of an experience study covering the period January 1, 2014 through December 31, 2016, and adopted by the Board on September 26, 2018. An experience study is performed every five years.

The actuarial valuation of assets is based upon the "Expected Value plus 25%" method, which levels the effects of fair value fluctuations by recognizing 25% of the difference between the expected actuarial value and the fair value of assets. The Board first adopted this methodology for the December 31, 2002 valuation. Actuarial gains and losses reduce or increase the unfunded actuarial liability or surplus, which is amortized over a rolling 20-year amortization period.

Long-Term Rate of Return: The investment return rate, net of investment expenses and administrative expenses, used for the actuarial valuation performed for funding purposes is 7.50% per year, compounded annually. This rate consists of 2.75% in recognition of long-term price inflation and 4.75% in recognition of a real rate of return over price inflation. This assumption, used to equate the value of payments due at different points in time, was adopted by the Board and was first used for the December 31, 2018 valuation.

The 7.59% rate of return used for accounting purposes is based on the same underlying data as the rate used for funding purposes. However, the rate used for accounting purposes represents investment return, net of investment expenses. Administrative expenses are accounted for separately, consistent with the requirements of GASB Statement No. 67.

**Salary Projections:** These assumptions are used to project current salaries to determine average annual compensation. They consist of the same inflation component used for the investment return assumption, a component reflecting productivity and the competition from other employers for personnel and a years-of-service component to reflect promotion and longevity increments.

Salary increases are assumed to occur mid-year. The salary increase assumptions are expected to produce 3.25% annual increases in active member payroll (the inflation and productivity base rate), given a constant active member group size. This is the same payroll growth assumption used to amortize the unfunded actuarial liability. The rate of return over assumed wage growth is 4.25% per year. This assumption was first used for the December 31, 2018 valuation. Assumptions about annual rates of salary increases are summarized in the accompanying table.

Years of Service	Inflation Component	Productivity Component	Merit and Longevity	Total
Under 15	2.75 %	0.50 %	2.50 %	5.75 %
15-17	2.75	0.50	1.00	4.25
18+	2.75	0.50	0.75	4.00

**Annual Post-Retirement Benefit Increases:** Retirees in the Police and Fire Retirement System are entitled to annual post-retirement benefit increases of 2% of their original benefit after 36 months of retirement. Post-retirement benefit increases are not compounded.

**Rates of Retirement and Backward Deferred Retirement Option Plan (Back DROP) Elections:** The rates displayed in the accompanying table are used to measure the probability of eligible members retiring under either the regular retirement provisions or the Backward Deferred Retirement Option Plan. It is assumed that members who retire under service retirement provisions elect a Back DROP of up to five years which maximizes the actuarial value of the retirement benefit determined as of the retirement date. These rates were first used for the December 31, 2018 valuation.

Years of Service (YOS)	Plans A & B		Age of Member	Plan C-79				
	Police	Fire		Less than 30 YOS		30 or More YOS		
				Police	Fire	Service of Member	Police	Fire
28 or less	5 %	5 %	50-58	10 %	10 %	30	0 %	0 %
29	5	5	59	10	15	31	0	0
30	10	5	60+	100	100	32	25	15
31	10	5				33	50	20
32	30	25				34	75	50
33	50	25				35+	100	100
34	50	25						
35	100	100						
Over 35	100	100						

**Marriage:** 80% of non-retired members were assumed to be married for purposes of death benefits. In each case, the male was assumed to be three years older than the female.

Sick Leave: Accumulated unused sick leave is converted to service credits for the purpose of computing annual benefits. The calculated normal retirement benefits were increased by 2.50% to account for the inclusion of unused sick leave in the calculation of service credit. This assumption was last revised with the December 31, 2018 valuation.

Forfeiture of Vested Benefits: A percentage of the actuarial present value of vested termination benefits is assumed to be forfeited by a withdrawal of accumulated contributions. This percentage is applied individually based on years of service. The data in the accompanying table was first used for the December 31, 2018 actuarial valuation.

Years of Service	Percent Forfeiting
10 - 14	65 %
15 - 19	10
20 or more	-

Mortality Assumptions: This assumption is used to measure the probabilities of members dying before retirement and the probabilities of each pension payment being made after retirement. As summarized in the following table, the RP-2000 tables are used, with generational mortality. The table was first used in the December 31, 2004 actuarial valuation.

Active Members	based on the RP-2000 Employee Table for Males and Females projected generationally using Scale AA.
Healthy Retirees And Beneficiaries	based on the RP-2000 Healthy Annuitant Table for Males and Females projected generationally using Scale AA.
Disabled Retirees	based on the RP-2000 Disabled Table for Males and Females projected generationally using Scale AA.

Rates of Disability: This assumption measures the probabilities of a member receiving a disability retirement. The rates do not apply to members who are eligible to retire. The rates of recovery from disability are assumed to be zero. The accompanying table provides the assumed probability of active members becoming disabled in during the next year. These rates were first used for the December 31, 2014 valuation.

Annual Probability of Becoming Disabled		
Age	Police	Fire
20	0.09 %	0.07 %
25	0.15	0.12
30	0.30	0.24
35	0.49	0.39
40	0.69	0.54
45	0.88	0.70
50	1.08	0.85
55	1.28	0.91

Rates of Separation from Active Membership: This assumption measures the probabilities of a member terminating employment. The rates do not apply to members who are eligible to retire. This assumption was last revised for the December 31, 2018 valuation.

Percent Separating Within Year		
Years of Service	Police	Fire
0-5	5.50 %	2.00 %
6	4.50	2.00
7-8	3.00	2.00
9-13	3.00	1.50
14-16	2.00	1.50
17-22	2.00	0.00
Over 22	0.00	0.00

Vested Deferred Pensions: Amounts for Plan C-79 are assumed to increase during the deferral period to 3.50% per year, compounded annually. This assumption was most recently revised with the December 31, 2018 valuation.

C. Actuarial Tables

Several tables are presented on the following pages to provide information about active members of the Police and Fire Retirement System, as well as retirees and beneficiaries. These tables also present information about the solvency of the plan, system experience and funding progress.

Active Member Valuation Data						
Valuation Date	Number of Members		Total Members	Annual Covered Payroll (in thousands)	Average Annual Pay	Percentage Change in Average Annual Pay
	Plan A	Plan C-79				
12/31/2010	21	1,068	1,089	\$ 63,077	\$ 57,922	1.0 %
12/31/2011	14	1,074	1,088	62,759	57,682	(0.4)
12/31/2012	11	1,073	1,084	64,150	59,179	2.6
12/31/2013	9	1,076	1,085	65,306	60,190	1.7
12/31/2014	8	1,060	1,068	64,572	60,461	0.5
12/31/2015	5	1,045	1,050	65,560	62,439	3.3
12/31/2016	4	1,059	1,063	66,946	62,979	0.9
12/31/2017	2	1,080	1,082	69,634	64,357	2.2
12/31/2018	2	1,065	1,067	72,017	67,495	4.9
12/31/2019	1	1,093	1,094	73,891	67,542	0.1

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Retirants and Beneficiaries Added to and Removed from Rolls								
Valuation Date	Added to Rolls		Removed from Rolls		End of Year Rolls		Annual Pensions	
	No.	Annual Pensions <sup>1</sup>	No.	Annual Pensions <sup>1</sup>	No.	Annual Pensions <sup>1</sup>	Average Pension	Percentage Increase (Decrease)
12/31/2010	47	\$ 1,439,435	28	\$ 541,662	892	\$ 22,570,141	\$ 25,303	3.4 %
12/31/2011	48	1,615,338	29	525,289	911	24,030,607	26,378	4.3
12/31/2012	33	1,201,800	23	435,120	921	25,226,219	27,390	3.8
12/31/2013	48	1,938,485	17	380,985	952	27,143,376	28,512	4.1
12/31/2014	63	2,400,693	42	850,741	971	29,165,652	30,037	5.3
12/31/2015	44	1,652,860	26	494,625	989	30,774,324	31,117	3.6
12/31/2016	31	1,286,489	33	629,314	987	31,914,576	32,335	3.9
12/31/2017	41	1,757,606	28	694,600	1,000	33,526,716	33,527	3.7
12/31/2018	43	1,888,265	28	544,427	1,015	35,386,980	34,864	4.0
12/31/2019	56	2,090,904	27	604,235	1,044	37,445,846	35,868	2.9

<sup>1</sup> Values are estimated based on annualized pension amounts.

Solvency Test							
Aggregate Actuarial Liability For							
Valuation Date	(1)	(2)	(3)	Reported Valuation Assets	Portion of Actuarial Liabilities Covered by Reported Assets		
	Active Member Contributions	Retirants and Beneficiaries <sup>1</sup>	Active Members (Employer Financed Portion)		(1)	(2)	(3)
12/31/2010	\$ 63,515,814	\$ 270,693,677	\$ 202,698,947	\$ 497,925,786	100 %	100 %	80.8 %
12/31/2011	66,390,179	293,730,691	202,367,017	510,946,217	100	100	74.5
12/31/2012	70,527,705	305,985,839	212,559,831	533,380,618	100	100	73.8
12/31/2013	74,238,693	325,096,785	218,412,805	571,261,929	100	100	78.7
12/31/2014	74,684,418	348,915,979	208,304,004	600,860,146	100	100	85.1
12/31/2015	77,222,492	364,943,124	212,970,051	620,148,816	100	100	83.6
12/31/2016	81,765,281	377,864,418	222,014,789	640,508,756	100	100	81.5
12/31/2017	85,753,036	393,307,456	230,956,665	677,616,328	100	100	86.0
12/31/2018	88,116,395	425,093,252	248,875,679	690,969,459	100	100	71.4
12/31/2019	91,219,009	446,538,086	250,689,554	722,197,375	100	100	73.6

<sup>1</sup> Includes vested and nonvested terminated members.

**System Experience:** For the year ended December 31, 2019, the Police and Fire Retirement System experienced an actuarial gain of \$5.8 million. The gain for the 2019 plan year reflects the combined impact of an actuarial net gain of \$3.0 million on the actuarial value of plan assets and an actuarial gain of \$2.8 million on liabilities primarily due to the change in actuary and salary increases that were lower than expected. Information about the factors that contributed to the actuarial loss is presented in the following table.

	Increase (Decrease)		
	Actuarial Liability	Actuarial Value of Assets	Unfunded Actuarial Liability
	(a)	(b)	(a) - (b)
Balances as of December 31, 2018	\$ 762,085,326	\$ 690,969,459	\$ 71,115,867
Changes for the year:			
Normal cost	14,583,212	-	14,583,212
Contributions	-	19,393,870	(19,393,870)
Benefit payments	(42,111,381)	(42,111,381)	-
Interest	56,699,512	50,986,204	5,713,308
Assumption changes	-	-	-
Change in Benefits	-	-	-
Expected actuarial value at December 31, 2019	791,256,669	719,238,152	72,018,517
Actual actuarial value as of December 31, 2019	788,446,649	722,197,375	66,249,274
Actuarial loss (gain)	\$ (2,810,020)	\$ (2,959,223)	\$ (5,769,243)

Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Liability (AL) (b)	Unfunded AL (UAL) (b)-(a)	Funded Ratio (a)/(b)	Active Member Covered Payroll (c)	UAL as a Percentage of Active Member Covered Payroll [(b)-(a)]/(c)
12/31/2010	\$ 497,926	\$ 536,908	\$ 38,983	92.7%	\$ 63,077	61.8%
12/31/2011	510,946	562,488	51,542	90.8	62,759	82.1
12/31/2012	533,381	589,073	55,693	90.5	64,150	86.8
12/31/2013	571,262	617,748	46,486	92.5	65,306	71.2
12/31/2014	600,860	631,904	31,044	95.1	64,572	48.1
12/31/2015	620,149	655,136	34,987	94.7	65,560	53.4
12/31/2016	640,509	681,644	41,136	94.0	66,946	61.4
12/31/2017	677,616	710,017	32,401	95.4	69,634	46.5
12/31/2018	690,969	762,085	71,116	90.7	72,017	98.7
12/31/2019	722,197	788,447	66,249	91.6	73,891	89.7

(Rounded dollar amounts are in thousands.)

A schedule of Employer Contributions, including a comparison of actuarially determined contributions to actual contributions made, is presented as Required Supplementary Information on page A-34 in the Financial Section of this report.

## D. Summary of Benefit Provisions

Plan A is a closed plan which was applicable to members who entered the System between January 1, 1965 and December 31, 1978; and to members who entered prior to January 1, 1965 and elected Plan A coverage. Plan B is a closed plan which was applicable to members who entered the System prior to January 1, 1965 and elected Plan B coverage. Plan C-79 is an open plan which is applicable to members entering the System after December 31, 1978. A summary of benefit provisions applicable to the plans is presented below. A more detailed description of Plan provisions is available upon request from Pension Management.

Contributions:• Employee contributions:

Plan A: 8.0% of salary.

Plan B: 6.0% of salary.

Plan C-79: 7.0% of salary.

• Employer contributions:

Actuarially determined amounts which, together with employee contributions and investment earnings, fund the obligations of the System in accordance with accepted actuarial principles.

Unused sick leave: Accumulated unused sick leave is converted to service credits for the purpose of computing annual benefits.

Normal Retirement:• Eligibility:

Plan A: Any age with 20 years of actual service.

Plan B: Any age with 20 years of actual service.

Plan C-79: Age 55 with 10 years of actual service, age 50 with 20 or more years of actual service, or any age with 30 years of creditable service.

• Benefit: Years of service times 2.5% of final average salary, to a maximum of 75%.• Final Average Salary: Average for the three consecutive years within the last 10 years of service that produce the highest average salary.Service-Connected Disability:• Eligibility: Disability must be permanent and preclude employee from performing the duties of their position.• Benefit: 75% of final salary rate if injury, 50% if disease.• Conditions: Benefit plus earnings from gainful employment cannot exceed current salary for rank held at time of disability. Benefit is recomputed at age 55 using service retirement formula, updated final average salary, and service credit for period of disability.Non-Service Connected Disability:• Eligibility: Seven or more years of service and under age 55. Disability must be permanent and preclude employee from performing the duties of their position.• Benefit: 30% of final average salary plus 1% of final average salary for each year of service in excess of seven years. Maximum is 50% of final average salary.• Conditions: Benefit plus earnings from gainful employment cannot exceed current salary for rank held at the time of disability.



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Backward Deferred Retirement Option Plan (Back DROP):

- Eligibility: Must be eligible to receive a service retirement benefit as of the Backward DROP retirement date and elect the Back DROP for a period of 1 to 60 months.
- Benefit: Under the Back DROP, the member may elect a benefit based on a retirement date up to 60 months prior to the current date. The monthly benefit is computed based on service, final average salary and benefit formula at the selected prior date. The DROP account available to the retiring member is the computed benefit multiplied by the number of months of Back DROP plus applicable post-retirement adjustments and 5% annual compounded interest.

Deferred Retirement:

- Eligibility: Vested members of C-79 who leave City service may defer their pension benefit by electing to leave their contributions in the Retirement System until they are eligible for a retirement benefit; age 55 with less than 20 years of actual service and age 50 with 20 or more years of actual service. A refund of employee contributions, plus 5% annual interest, may be elected in lieu of a retirement benefit.
- Benefit: Retirement benefit is computed as for normal retirement. Deferred pensions are indexed during the deferral period based on changes in the National Average Earnings Index, up to 5.5% annually.

Pre-Retirement Survivor Benefits Service-Connected Death:

- Eligibility: When death results from performance of duty as a fire fighter or police officer, there is no minimum service requirement. Spouse and minor children of member at the time of death are eligible for a survivor's benefit.
- Benefit: 50% of final salary plus 10% of final salary for each minor child under age 18, to a maximum of 75% of final salary. If no surviving spouse, benefit is 20% of final salary for each child under age 18 to a maximum of 60% of final salary; terminates when child reaches age 18.

Pre-Retirement Survivor Benefits Non-Service-Connected Death:

- Eligibility: Spouse and minor children of member at the time of death.
  - Plan A: Three or more years of service.
  - Plan B: 20 or more years of service.
  - Plan C-79: Three or more years of service.
- Benefit:
  - Plan A: 35% of final average salary plus 1% of final average salary for each year of service over three years to a maximum of 50% of final average salary, plus 10% of final average salary on account of each minor child under age 18 to a maximum of 66 2/3% of final average salary. If no surviving spouse, benefit is 15% of final average salary for each child under age 18 to a maximum of 50% of final average salary; terminates when child reaches age 18.
  - Plan B: 50% of final salary.
  - Plan C-79: Identical to Plan A benefits.

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Post-Retirement Survivor Benefits:

- Eligibility: 20 or more years of service. If retired prior to January 1, 2000, surviving spouse must have been married to retired member at date of retirement. Effective January 1, 2000, surviving spouse must have been married to retired member for a minimum of 12 months at time of death.

- Benefit:

Plan A: 35% of final average salary plus 1% of final average salary for each year of service over three years to a maximum of 50% of final average salary, plus 10% of final average salary for each minor child under age 18 to a maximum of 66 2/3%. If no surviving spouse, 15% of final average salary for each child to a maximum of 50%.

Plan B: 50% of final salary to surviving spouse or if no surviving spouse pension's payable to children under age 18.

Plan C-79: Identical to Plan A benefits.

Funeral Benefit:

- Eligibility: Plan A, B and C-79 members who retired after November 21, 1973.

- Benefit:

Plan A: \$750 payable to a beneficiary. Plan A members who retired prior to November 21, 1973 are not eligible for a funeral benefit.

Plan B: \$750 payable to a beneficiary. Plan B members who retired between January 1, 1965 and November 21, 1973 are eligible for a \$100 funeral benefit payable to a beneficiary.

Plan C-79: \$750 payable to a beneficiary

Refund of Contributions:

- Eligibility: Termination of employment without eligibility for any other benefit.
- Benefit: Accumulated contributions at the time of termination plus 5% annual interest, beginning January 1, 2000.

*STATISTICAL SECTION*





**Statistical Section Overview**

This section includes detailed schedules showing trends related to changes in the net position, including deductions from the net position for benefits and refunds beginning on page D-2, average benefit payments beginning on page D-8, and retired members by type and benefit amount beginning on page D-12. These schedules may be considered useful in evaluating the condition of the Systems and understanding the information presented in the financial statements, note disclosures and required supplementary information.

The Schedule of Changes in Fiduciary Net Position, including deductions from the net position for benefits and refunds, is derived from the Comprehensive Annual Financial Report for the relevant fiscal year. All other information is derived from internal sources of the Systems, except for information that is derived from the actuarial valuations of the plans.

## WICHITA RETIREMENT SYSTEMS

### CHANGES IN FIDUCIARY NET POSITION WICHITA EMPLOYEES' RETIREMENT SYSTEM

For years ended December 31, 2010 through December 31, 2019  
(accrual basis of accounting)

	Fiscal Year			
	2019	2018	2017	2016
<b>ADDITIONS</b>				
Employer contributions	\$ 9,683,553	\$ 10,099,027	\$ 9,642,540	\$ 8,946,064
Employee contributions	3,770,224	3,755,812	3,682,056	3,642,007
Net income (loss) from investing activities	102,909,003	(39,511,690)	91,773,973	35,956,780
Reclassifications due to participant conversion	-	-	-	-
Total additions	<u>116,362,780</u>	<u>(25,656,851)</u>	<u>105,098,569</u>	<u>48,544,851</u>
<b>DEDUCTIONS</b>				
Benefit payments				
Service retirement	35,624,779	34,715,603	33,606,377	32,442,114
Survivor benefit	3,715,161	3,576,872	3,492,605	3,394,194
DROP lump sum payments	3,737,391	1,969,674	1,077,319	2,122,297
Qualified domestic relations order	130,868	135,301	150,477	142,351
Disability (service)	73,146	74,483	54,609	53,905
Disability (non-service)	234,168	253,239	239,262	220,021
Funeral benefits	107,570	54,276	48,063	86,569
Pension administration	619,398	580,204	633,379	615,829
Depreciation	-	-	-	-
Refunds	824,813	890,851	614,103	683,332
Reclassifications due to participant conversion	94,720	179,012	191,292	244,793
Total deductions	<u>45,162,014</u>	<u>42,429,515</u>	<u>40,107,486</u>	<u>40,005,405</u>
Net increase (decrease) in fiduciary net position	71,200,766	(68,086,366)	64,991,083	8,539,446
Net position - beginning, as previously reported	546,691,666	614,778,032	549,786,949	541,247,503
Prior period adjustment	-	-	-	-
Net position - beginning, restated	<u>546,691,666</u>	<u>614,778,032</u>	<u>549,786,949</u>	<u>541,247,503</u>
Net position - ending	<u>\$ 617,892,432</u>	<u>\$ 546,691,666</u>	<u>\$ 614,778,032</u>	<u>\$ 549,786,949</u>

Note: In 2015, a prior period adjustment was made to report non-vested Plan 3 participants as part of the Wichita Employees' Retirement System. Prior to 2015, those members were reported with Plan 3b members in the defined contribution plan. Reclassifications due to participant conversion represent members of Plan 3 who vest with seven years of service and move into either Plan 2 or Plan 3b.

Fiscal Year

	2015	2014	2013	2012	2011	2010
\$	9,031,463	\$ 8,464,927	\$ 7,990,502	\$ 6,471,423	\$ 6,596,124	\$ 4,529,765
	3,574,026	2,435,831	2,304,481	2,343,641	2,537,440	2,664,619
	13,380	27,894,626	92,166,874	57,965,946	2,570,423	55,169,082
	-	2,942,734	2,465,600	2,025,607	2,680,431	1,276,393
	<u>12,618,869</u>	<u>41,738,118</u>	<u>104,927,457</u>	<u>68,806,617</u>	<u>14,384,418</u>	<u>63,639,859</u>
	31,786,968	30,632,053	29,346,178	28,490,161	25,279,476	23,806,844
	3,121,649	2,956,020	2,762,399	2,658,630	2,591,380	2,478,774
	885,185	2,798,396	2,650,766	1,327,860	5,873,920	3,104,564
	99,384	58,561	56,936	53,820	56,285	74,004
	53,201	59,753	57,193	67,910	67,247	78,511
	216,319	216,557	232,372	243,470	247,876	254,152
	59,823	57,349	267,956	93,770	66,890	93,649
	553,844	441,869	404,514	396,167	444,630	429,764
	70,241	63,888	63,890	62,562	63,016	63,477
	866,874	400,433	570,712	341,634	449,266	191,171
	465,171	-	-	-	-	-
	<u>38,178,659</u>	<u>37,684,879</u>	<u>36,412,916</u>	<u>33,735,984</u>	<u>35,139,986</u>	<u>30,574,910</u>
	(25,559,790)	4,053,239	68,514,541	35,070,633	(20,755,568)	33,064,949
	552,232,824	548,179,585	479,665,044	444,594,411	465,349,979	432,285,030
	14,574,469	-	-	-	-	-
	<u>566,807,293</u>	<u>548,179,585</u>	<u>479,665,044</u>	<u>444,594,411</u>	<u>465,349,979</u>	<u>432,285,030</u>
\$	<u>541,247,503</u>	<u>\$ 552,232,824</u>	<u>\$ 479,665,044</u>	<u>\$ 444,594,411</u>	<u>\$ 465,349,979</u>	<u>\$ 465,349,979</u>

## WICHITA RETIREMENT SYSTEMS

### CHANGES IN FIDUCIARY NET POSITION WICHITA EMPLOYEES' RETIREMENT SYSTEM PLAN 3b

For years ended December 31, 2010 through December 31, 2019  
(accrual basis of accounting)

	Fiscal Year			
	2019	2018	2017	2016
<b>ADDITIONS</b>				
Employer contributions	\$ 198,342	\$ 202,075	\$ 200,003	\$ 203,532
Employee contributions	198,343	202,077	200,003	203,509
Net income (loss) from investing activities	1,776,395	(598,098)	1,156,192	467,817
Reclassifications due to participant conversion	94,720	179,012	191,292	244,793
Total additions	<u>2,267,800</u>	<u>(14,934)</u>	<u>1,747,490</u>	<u>1,119,651</u>
<b>DEDUCTIONS</b>				
Pension administration	9,384	27,384	9,725	7,366
Depreciation	-	-	-	-
Refunds	575,000	349,140	348,275	614,342
Reclassifications due to participant conversion	-	-	-	-
Total deductions	<u>584,384</u>	<u>376,524</u>	<u>358,000</u>	<u>621,708</u>
Net increase (decrease) in fiduciary net position	1,683,416	(391,458)	1,389,490	497,943
Net position - beginning, as previously reported	8,104,736	8,496,194	7,106,704	6,608,761
Prior period adjustment	-	-	-	-
Net position - beginning, restated	<u>8,104,736</u>	<u>8,496,194</u>	<u>7,106,704</u>	<u>6,608,761</u>
Net position - ending	<u>\$ 9,788,152</u>	<u>\$ 8,104,736</u>	<u>\$ 8,496,194</u>	<u>\$ 7,106,704</u>

Note: In 2015, a prior period adjustment was made to report non-vested Plan 3 participants as part of the Wichita Employees' Retirement System. Prior to 2015, those members were reported with Plan 3b members in the defined contribution plan. Reclassifications due to participant conversion represent members of Plan 3 who vest with seven years of service and move into either Plan 2 or Plan 3b.

Fiscal Year

	2015	2014	2013	2012	2011	2010
\$	190,049	\$ 1,147,770	\$ 1,116,464	\$ 1,189,456	\$ 1,244,150	\$ 2,298,753
	190,049	1,147,770	1,116,240	1,189,456	1,244,150	1,349,100
	(80,749)	1,104,224	3,655,978	2,315,117	170,531	2,124,997
	465,171	-	-	-	-	-
	<u>764,520</u>	<u>3,399,764</u>	<u>5,888,682</u>	<u>4,694,029</u>	<u>2,658,831</u>	<u>5,772,850</u>
	5,056	64,686	73,351	72,742	76,217	73,844
	-	54,768	54,763	53,625	54,017	54,408
	733,125	1,107,222	1,010,244	959,751	709,739	642,116
	-	2,942,734	2,465,600	2,025,607	2,680,431	1,276,393
	<u>738,181</u>	<u>4,169,410</u>	<u>3,603,958</u>	<u>3,111,725</u>	<u>3,520,404</u>	<u>2,046,761</u>
	26,339	(769,646)	2,284,724	1,582,304	(861,573)	3,726,089
	21,156,891	21,926,537	19,641,813	18,059,509	18,921,082	15,194,993
	(14,574,469)	-	-	-	-	-
	<u>6,582,422</u>	<u>21,926,537</u>	<u>19,641,813</u>	<u>18,059,509</u>	<u>18,921,082</u>	<u>15,194,993</u>
\$	<u><u>6,608,761</u></u>	<u><u>\$ 21,156,891</u></u>	<u><u>\$ 21,926,537</u></u>	<u><u>\$ 19,641,813</u></u>	<u><u>\$ 18,059,509</u></u>	<u><u>\$ 18,921,082</u></u>



## WICHITA RETIREMENT SYSTEMS

### CHANGES IN FIDUCIARY NET POSITION POLICE AND FIRE RETIREMENT SYSTEM OF WICHITA, KANSAS

For years ended December 31, 2010 through December 31, 2019  
(accrual basis of accounting)

	Fiscal Year			
	2019	2018	2017	2016
<b>ADDITIONS</b>				
Employer contributions	\$ 13,965,415	\$ 14,331,422	\$ 13,369,785	\$ 12,585,895
Employee contributions	5,428,455	5,599,216	4,915,378	4,776,958
Net income (loss) from investing activities	120,349,987	(43,988,371)	103,236,679	39,901,640
Total additions	<u>139,743,857</u>	<u>(24,057,733)</u>	<u>121,521,842</u>	<u>57,264,493</u>
<b>DEDUCTIONS</b>				
Benefit payments				
Service retirement	30,941,654	28,998,635	27,471,812	26,169,001
Survivor benefit	3,611,221	3,431,832	3,253,128	3,275,582
Backward DROP lump sum payments	5,232,443	4,836,668	4,279,460	3,951,323
Qualified domestic relations order	237,496	222,699	220,953	221,720
Disability (service)	1,573,985	1,533,354	1,439,920	1,546,440
Disability (non-service)	69,254	73,957	72,513	71,496
Funeral benefits	20,697	23,283	18,772	20,974
Pension administration	612,049	590,098	554,641	548,171
Depreciation	-	-	-	-
Refunds	424,631	261,073	173,975	295,731
Total deductions	<u>42,723,430</u>	<u>39,971,599</u>	<u>37,485,174</u>	<u>36,100,438</u>
Net increase (decrease) in fiduciary net position	97,020,427	(64,029,332)	84,036,668	21,164,055
Net position - beginning	634,054,617	698,083,949	614,047,281	592,883,226
Net position - ending	<u>\$ 731,075,044</u>	<u>\$ 634,054,617</u>	<u>\$ 698,083,949</u>	<u>\$ 614,047,281</u>

Fiscal Year

	2015	2014	2013	2012	2011	2010
\$	13,964,379	\$ 14,464,181	\$ 14,889,714	\$ 14,113,014	\$ 13,806,880	\$ 13,119,984
	4,603,331	4,529,895	4,607,691	4,543,523	4,403,425	4,467,983
	(163,702)	30,596,067	99,494,232	60,619,414	2,404,099	54,963,698
	<u>18,404,008</u>	<u>49,590,143</u>	<u>118,991,637</u>	<u>79,275,951</u>	<u>20,614,404</u>	<u>72,551,665</u>
	24,767,622	22,854,129	21,081,456	19,751,947	18,492,549	17,657,512
	3,216,979	3,147,177	2,963,019	2,798,141	2,704,987	2,569,695
	5,550,489	7,903,252	5,202,861	3,245,820	2,877,779	4,296,127
	200,947	159,200	130,426	116,670	117,737	115,432
	1,818,427	1,794,729	1,701,928	1,816,648	1,835,512	1,745,289
	70,479	70,558	68,445	67,428	66,411	65,394
	17,697	28,688	9,871	11,425	21,371	16,618
	483,193	478,320	402,003	396,424	445,898	421,251
	37,825	63,887	401,901	62,562	63,016	63,477
	448,180	457,423	63,890	357,192	636,120	492,380
	<u>36,611,838</u>	<u>36,957,363</u>	<u>32,025,800</u>	<u>28,624,257</u>	<u>27,261,380</u>	<u>27,443,175</u>
	(18,207,830)	12,632,780	86,965,837	50,651,694	(6,646,976)	45,108,490
	611,091,056	598,458,276	511,492,439	460,840,745	467,487,721	422,379,231
\$	<u><u>592,883,226</u></u>	<u><u>\$ 611,091,056</u></u>	<u><u>\$ 598,458,276</u></u>	<u><u>\$ 511,492,439</u></u>	<u><u>\$ 460,840,745</u></u>	<u><u>\$ 467,487,721</u></u>

## WICHITA RETIREMENT SYSTEMS

### AVERAGE BENEFIT BY YEARS OF SERVICE *New Retirees by Calendar Year* **WICHITA EMPLOYEES' RETIREMENT SYSTEM**

For years ended December 31, 2010 through December 31, 2019

	Fiscal Year			
	2019	2018	2017	2016
<b>AVERAGE MONTHLY PENSION BENEFIT</b>				
0 - 5 years of service	\$ -	\$ -	\$ -	\$ -
5 - 10 years of service	779	709	1,092	648
10 - 15 years of service	1,196	989	1,332	1,159
15 - 20 years of service	1,986	1,795	2,175	1,915
20 - 25 years of service	2,155	2,291	2,299	2,249
25 - 30 years of service	3,485	2,617	2,395	2,849
More than 30 years of service	3,752	4,020	4,235	3,456
Average for all years of service	2,551	2,573	2,310	2,167
<b>AVERAGE FINAL AVERAGE SALARY</b>				
0 - 5 years of service	\$ -	\$ -	\$ -	\$ -
5 - 10 years of service	4,490	4,185	5,807	3,293
10 - 15 years of service	4,403	3,930	4,722	4,226
15 - 20 years of service	4,795	4,422	5,699	4,837
20 - 25 years of service	4,413	4,523	4,609	4,442
25 - 30 years of service	5,817	4,276	3,868	4,419
More than 30 years of service	4,811	5,148	5,425	4,322
Average for all years of service	4,843	4,617	4,971	4,289
<b>NUMBER OF RETIRED MEMBERS</b>				
0 - 5 years of service	-	-	-	-
5 - 10 years of service	5	5	4	7
10 - 15 years of service	11	11	14	15
15 - 20 years of service	5	9	8	8
20 - 25 years of service	7	15	10	13
25 - 30 years of service	5	8	6	7
More than 30 years of service	22	26	10	17
Total for all years of service	<u>55</u>	<u>74</u>	<u>52</u>	<u>67</u>

Fiscal Year

2015		2014		2013		2012		2011		2010	
\$	-	\$	-	\$	-	\$	-	\$	-	\$	290
	746		665		1,164		980		554		-
	1,095		950		1,278		921		994		2,852
	1,791		1,624		1,621		2,026		1,655		-
	1,861		1,957		1,992		2,492		1,853		2,745
	2,983		2,230		2,433		2,477		2,435		3,646
	4,003		3,217		3,891		3,455		3,187		1,993
	2,174		1,921		1,760		2,084		1,844		2,928
\$	-	\$	-	\$	-	\$	-	\$	-	\$	2,956
	3,823		3,206		5,437		3,361		3,110		-
	3,617		3,353		4,091		3,472		3,298		5,058
	4,546		4,343		3,914		4,541		4,359		-
	3,727		4,027		4,288		5,275		4,021		5,100
	4,799		4,065		4,397		4,762		4,090		5,134
	5,197		4,495		5,388		5,125		4,703		4,269
	4,367		4,026		4,409		4,460		3,995		4,839
	-		-		-		-		-		1
	11		11		8		2		11		-
	7		10		17		6		21		2
	13		19		12		5		23		-
	9		14		6		4		31		2
	9		9		7		6		18		7
	13		20		4		4		19		2
	<u>62</u>		<u>83</u>		<u>54</u>		<u>27</u>		<u>123</u>		<u>14</u>

## WICHITA RETIREMENT SYSTEMS

### AVERAGE BENEFIT BY YEARS OF SERVICE *New Retirees by Calendar Year* **POLICE AND FIRE RETIREMENT SYSTEM OF WICHITA, KANSAS**

For years ended December 31, 2010 through December 31, 2019

	Fiscal Year			
	2019	2018	2017	2016
<b>AVERAGE MONTHLY PENSION BENEFIT</b>				
0 - 5 years of service	\$ -	\$ -	\$ -	\$ -
5 - 10 years of service	3,379	-	-	-
10 - 15 years of service	-	-	2,744	2,688
15 - 20 years of service	4,196	4,549	2,533	1,895
20 - 25 years of service	3,230	3,861	3,144	3,108
25 - 30 years of service	4,233	4,073	4,320	4,509
More than 30 years of service	4,866	4,359	6,304	4,658
Average for all years of service	3,913	4,116	3,972	4,235
<b>AVERAGE FINAL AVERAGE SALARY</b>				
0 - 5 years of service	\$ -	\$ -	\$ -	\$ -
5 - 10 years of service	4,341	-	-	-
10 - 15 years of service	-	-	5,122	5,014
15 - 20 years of service	5,464	5,429	4,726	3,590
20 - 25 years of service	5,931	6,062	5,596	5,586
25 - 30 years of service	6,119	6,196	6,349	6,887
More than 30 years of service	6,488	5,711	7,929	5,917
Average for all years of service	6,026	5,983	6,082	6,055
<b>NUMBER OF RETIRED MEMBERS</b>				
0 - 5 years of service	-	-	-	-
5 - 10 years of service	1	-	-	-
10 - 15 years of service	-	-	1	1
15 - 20 years of service	2	1	5	1
20 - 25 years of service	15	10	7	2
25 - 30 years of service	11	13	14	7
More than 30 years of service	7	11	4	10
Total for all years of service	36	35	31	21

Fiscal Year

2015	2014	2013	2012	2011	2010
\$ -	\$ 3,710	\$ -	\$ -	\$ -	\$ 290
-	-	3,371	-	-	-
-	1,867	2,254	2,344	2,381	2,852
4,203	1,993	3,930	3,929	3,784	-
3,004	2,971	3,037	3,691	2,983	2,745
4,074	4,212	4,138	-	4,064	3,646
4,589	4,870	4,790	-	4,847	1,993
3,979	3,984	3,697	3,281	3,349	2,928
\$ -	\$ 4,890	\$ -	\$ -	\$ -	\$ 2,956
-	-	4,262	-	-	-
-	5,150	4,065	3,838	3,980	5,058
5,280	4,842	4,961	5,120	4,970	-
5,490	5,132	4,936	5,652	4,704	5,100
5,963	5,698	5,696	-	5,810	5,134
5,824	6,192	6,387	-	6,463	4,269
5,756	5,671	5,337	4,959	4,997	4,839
-	1	-	-	-	1
-	-	1	-	-	-
-	1	3	2	2	2
1	1	1	1	2	-
8	13	10	3	9	2
9	11	20	-	4	7
11	17	2	-	1	2
<u>29</u>	<u>44</u>	<u>37</u>	<u>6</u>	<u>18</u>	<u>14</u>

## WICHITA RETIREMENT SYSTEMS

### RETIRED MEMBERS BY TYPE AND BENEFIT AMOUNT WICHITA EMPLOYEES' RETIREMENT SYSTEM

As of December 31, 2019

Monthly Benefit	Active in DROP	Non-Service Disability	QDRO <sup>1</sup>	Service	Service Disability	Survivor	Total
Less than \$500	0	1	1	47	0	67	116
500 - 1,000	3	7	5	134	1	62	212
1,000 - 1,500	5	3	2	158	0	57	225
1,500 - 2,000	11	2	0	140	3	44	200
2,000 - 2,500	6	2	1	127	0	26	162
2,500 - 3,000	7	0	1	97	0	5	110
3,000 - 3,500	14	0	0	96	0	5	115
3,500 - 4,000	14	0	0	106	0	0	120
4,000 - 4,500	3	0	0	65	0	0	68
4,500 - 5,000	3	0	0	60	0	0	63
More than \$5,000	11	0	0	103	0	2	116
	<u>77</u>	<u>15</u>	<u>10</u>	<u>1,133</u>	<u>4</u>	<u>268</u>	<u>1,507</u>

### POLICE AND FIRE RETIREMENT SYSTEM OF WICHITA, KANSAS

As of December 31, 2019

Monthly Benefit	Non-Service Disability	QDRO <sup>1</sup>	Service	Recalc. Service Disability	Service Disability	Survivor	Total
Less than \$500	0	2	5	0	0	1	8
500 - 1,000	2	9	6	0	2	27	46
1,000 - 1,500	3	7	42	1	0	34	87
1,500 - 2,000	0	1	85	0	0	44	130
2,000 - 2,500	0	1	125	3	0	40	169
2,500 - 3,000	0	0	102	3	2	19	126
3,000 - 3,500	0	0	88	6	7	1	102
3,500 - 4,000	0	0	90	13	8	3	114
4,000 - 4,500	0	0	71	26	13	1	111
4,500 - 5,000	0	0	65	6	2	1	74
More than \$5,000	0	0	68	6	2	1	77
	<u>5</u>	<u>20</u>	<u>747</u>	<u>64</u>	<u>36</u>	<u>172</u>	<u>1,044</u>

<sup>1</sup> Qualified Domestic Relations Order