

***CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM***

FINANCIAL STATEMENTS  
WITH SUPPLEMENTARY INFORMATION

FOR THE YEARS ENDED APRIL 30, 2020 AND 2019

AND

INDEPENDENT AUDITOR'S REPORT



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TABLE OF CONTENTS

	<u>Page</u>
Independent Auditor's Report.....	1 - 2
Management's Discussion and Analysis .....	3 - 6
Financial Statements:	
Statements of Fiduciary Net Position.....	7
Statements of Changes in Fiduciary Net Position.....	8
Notes to the Financial Statements.....	9 - 24
Required Supplementary Information:	
Schedule of Changes in Net Pension Liability and Related Ratios.....	25
Schedule of City Contributions .....	26
Schedule of Investment Returns .....	27
Notes to Required Supplementary Information .....	28 - 30

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## INDEPENDENT AUDITOR'S REPORT

Board of Trustees  
**City of Kansas City, Missouri**  
**Firefighters' Pension System**  
Kansas City, Missouri

### **Report on the Financial Statements**

We have audited the accompanying financial statements of the City of Kansas City, Missouri Firefighters' Pension System (Plan), which comprise the statements of fiduciary net position as of April 30, 2020 and 2019, the related statements of changes in fiduciary net position for the years then ended, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements.

### ***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 audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. 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 Plan'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 Plan'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 fiduciary net position of the Plan as of April 30, 2020 and 2019, and the changes in fiduciary net position for the years then ended, in accordance with accounting principles generally accepted in the United States of America.

***Other Matter***

*Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and pension information included in the required supplementary information section 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.

*Allen, Gibbs & Houlik, L.C*

CERTIFIED PUBLIC ACCOUNTANTS

October 1, 2020  
Wichita, Kansas

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**MANAGEMENT'S DISCUSSION AND ANALYSIS**

The Firefighters' Pension System of the City of Kansas City, Missouri (Plan) is the defined benefit retirement plan for firefighters of Kansas City, Missouri (City). The Firefighters' Pension System was established by City ordinance in 1953 and is administered by the Retirement System Board of Trustees to provide retirement, disability and survivor benefits to its members.

This discussion and analysis of the Firefighters' Pension System's financial statements provides an overview of the Firefighters' Pension System's operations and investment performance during the years ended April 30, 2020 and 2019, with selected comparative information for the year ended April 30, 2018. Please read it in conjunction with the Firefighters' Pension System's financial statements and notes to the financial statements, which follow this section.

**Overview of the Financial Statements and Accompanying Information**

- The financial statements presented in this report are the Statements of Fiduciary Net Position as of April 30, 2020 and 2019 and the Statements of Changes in Fiduciary Net Position for the years ended April 30, 2020 and 2019. These statements reflect resources available for the payment of benefits as of the year-end, and the sources and uses of those funds during the year.
- The notes to the financial statements are an integral part of the financial statements and provide facts and detailed information to assist the reader in understanding the statements. Information in the notes includes a description of the Plan, a summary of significant accounting policies, the method used to value investments and a summary of investments.
- Required supplementary information presents schedules related to employer contributions and the funding of the Plan.

**2020 and 2019 Comparative Summary of Fiduciary Net Position**

	April 30, 2020	April 30, 2019	Amount Change	Percentage Change
Receivables	\$ 50,769,080	\$ 2,989,885	\$ 47,779,195	1,598.03%
Investments at fair value	479,042,442	554,386,371	(75,343,929)	-13.59%
Securities lending collateral	<u>35,702,433</u>	<u>23,834,490</u>	<u>11,867,943</u>	49.79%
Total assets	<u>565,513,955</u>	<u>581,210,746</u>	<u>(15,696,791)</u>	-2.70%
Due to broker for purchases of investments	1,142,428	834,809	307,619	36.85%
Administrative and investment expenses payable	518,912	671,845	(152,933)	-22.76%
Securities lending collateral	<u>35,702,433</u>	<u>23,834,490</u>	<u>11,867,943</u>	49.79%
Total liabilities	<u>37,363,773</u>	<u>25,341,144</u>	<u>12,022,629</u>	47.44%
Net position	<u>\$ 528,150,182</u>	<u>\$ 555,869,602</u>	<u>\$ (27,719,420)</u>	-4.99%

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

MANAGEMENT'S DISCUSSION AND ANALYSIS

**2020 and 2019 Comparative Summary of Changes in Fiduciary Net Position**

	April 30, 2020	April 30, 2019	Amount Change	Percentage Change
Member contributions	\$ 8,082,064	\$ 7,785,106	\$ 296,958	3.81%
Employer contributions	24,724,212	22,954,283	1,769,929	7.71%
Net investment (loss) income	<u>(14,510,911)</u>	<u>24,387,613</u>	<u>(38,898,524)</u>	-159.50%
Total additions	<u>18,295,365</u>	<u>55,127,002</u>	<u>(36,831,637)</u>	-66.81%
Benefits paid to members	43,699,528	42,035,175	1,664,353	3.96%
Refunds of contributions	1,914,858	863,232	1,051,626	121.82%
Administrative expenses	<u>400,399</u>	<u>415,090</u>	<u>(14,691)</u>	-3.54%
Total deductions	<u>46,014,785</u>	<u>43,313,497</u>	<u>2,701,288</u>	6.24%
Net change	(27,719,420)	11,813,505	(39,532,925)	-334.64%
Net position, Beginning of year	<u>555,869,602</u>	<u>544,056,097</u>	<u>11,813,505</u>	2.17%
Net position, End of year	<u>\$ 528,150,182</u>	<u>\$ 555,869,602</u>	<u>\$ (27,719,420)</u>	-4.99%

**2020 Financial Highlights**

The Plan's net position contracted by 5.0%, as seen in the statement of fiduciary net position. Global financial markets posted strong positive returns during the first three quarters despite volatility caused by headwinds from a weak global economy, trade disputes between the U.S. and China and geopolitical tensions. The Federal Reserve also cut rates for the first time since 2008. Then, in the fourth quarter, global equity markets experienced the swiftest market correction in history as the spread of COVID-19 halted economies around the world, and the longest bull market in history officially came to an end in mid-March. In response, the Federal Reserve took several emergency actions which included cutting rates twice and began a new round of quantitative easing to stabilize financial markets and support the flow of credit. Additionally, in the U.S., a \$2.2 trillion stimulus plan was announced. These measures led to a reduction in volatility and a strong comeback in the markets, with U.S. equities leading the way. The Plan's investment portfolio returned -2.1% for the year, which underperformed the return of the Policy Portfolio benchmark. The U.S. equity segments of the Plan posted negative returns but performed extremely well on a relative basis. Real assets was the best performing asset class, while Non-U.S. equities performed the worst.

Total additions, as shown on the statement of changes in fiduciary net position, were down \$36.8 million from the prior year, a 159.5% decline from the prior year. Although contributions grew \$2.1 million, due to normal payroll growth and an increase in the actuarial required contribution rate, net investment income dropped by \$38.9 million. Benefits paid to members increased by 4.0%, due in large part to cost-of-living adjustments, while refunds of contributions increased 121.8%, mostly related to retirements.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

MANAGEMENT'S DISCUSSION AND ANALYSIS

**2020 Operational Highlights**

No investment manager or other service provider changes occurred in the period, although a decision was made to replace the Plan's global long/short equity manager. The manager termination was effective at the end of the first calendar quarter; however, proceeds from the investment will not be available until the second quarter of 2020. Ongoing cash needs were met primarily through the sale of appreciating equity and fixed income securities.

**2019 and 2018 Comparative Summary of Fiduciary Net Position**

	April 30, 2019	April 30, 2018	Amount Change	Percentage Change
Receivables	\$ 2,989,885	\$ 2,429,085	\$ 560,800	23.09%
Investments at fair value	554,386,371	543,435,871	10,950,500	2.02%
Securities lending collateral	<u>23,834,490</u>	<u>30,466,536</u>	<u>(6,632,046)</u>	-21.77%
Total assets	<u>581,210,746</u>	<u>576,331,492</u>	<u>4,879,254</u>	0.85%
Due to broker for purchases of investments	834,809	842,447	(7,638)	-0.91%
Administrative and investment expenses payable	671,845	966,412	(294,567)	-30.48%
Securities lending collateral	<u>23,834,490</u>	<u>30,466,536</u>	<u>(6,632,046)</u>	-21.77%
Total liabilities	<u>25,341,144</u>	<u>32,275,395</u>	<u>(6,934,251)</u>	-21.48%
Net position	<u>\$ 555,869,602</u>	<u>\$ 544,056,097</u>	<u>\$ 11,813,505</u>	2.17%

**2019 and 2018 Comparative Summary of Changes in Fiduciary Net Position**

	April 30, 2019	April 30, 2018	Amount Change	Percentage Change
Member contributions	\$ 7,785,106	\$ 7,562,958	\$ 222,148	2.94%
Employer contributions	22,954,283	20,392,560	2,561,723	12.56%
Net investment income	<u>24,387,613</u>	<u>47,512,382</u>	<u>(23,124,769)</u>	-48.67%
Total additions	<u>55,127,002</u>	<u>75,467,900</u>	<u>(20,340,898)</u>	-26.95%
Benefits paid to members	42,035,175	40,728,098	1,307,077	3.21%
Refunds of contributions	863,232	531,748	331,484	62.34%
Administrative expenses	<u>415,090</u>	<u>386,608</u>	<u>28,482</u>	7.37%
Total deductions	<u>43,313,497</u>	<u>41,646,454</u>	<u>1,667,043</u>	4.00%
Net increase	11,813,505	33,821,446	(22,007,941)	-65.07%
Net position, Beginning of year	<u>544,056,097</u>	<u>510,234,651</u>	<u>33,821,446</u>	6.63%
Net position, End of year	<u>\$ 555,869,602</u>	<u>\$ 544,056,097</u>	<u>\$ 11,813,505</u>	2.17%



**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**MANAGEMENT'S DISCUSSION AND ANALYSIS**

**2019 Financial Highlights**

The global financial markets were volatile throughout the year due to trade tensions between the U.S. and China, Brexit issues in the United Kingdom, the Federal Reserve's actions of raising interest rates through December and then unexpectedly decreasing rates in March and fears of a possible recession. The investment portfolio posted a positive gross return of 5.2 percent, which underperformed the 5.8 percent increase in the Policy Portfolio benchmark. All segments of the fund performed relatively well, with the exceptions of fixed income and non-U.S. equity. U.S. equity was the best performing asset class on a relative and absolute basis, followed by real assets. Non-U.S. equity was the only asset class with negative performance, with emerging markets equity posting the worst return.

The 2.2 percent rise in Plan net position to \$556 million was largely due to investment income of \$24.4 million. Employee contributions and benefits paid to members grew in ordinary fashion while employer contributions increased by \$2.6 million due to an increase in the actuarial required contribution rate. Refunds of contribution significantly increased, with much of the increase attributable to distribution elections made by retiring employees, while benefits paid to members increased at an expected pace. Administrative expenses were \$28,000 higher than the previous year, primarily due to medical evaluation and legal fees.

**2019 Operational Highlights**

The only change in the Plan's service providers during the year was the addition of a new securities monitoring and litigation firm. There were no significant changes in the investment structure of the fund. On-going cash needs were met primarily through the sale of appreciating equity securities.

**Request for Information**

This financial report is designed to provide members of the Firefighters' Pension System, citizens, investors and creditors of the City of Kansas City, Missouri with a general overview of the Firefighters' Pension System's finances and to demonstrate its accountability for the money it receives. If you have questions about this report or need additional financial information, contact the Firefighters' Pension System, City Hall, 414 East 12th Street, 10th Floor, Kansas City, Missouri 64106-2705. There are no other currently known facts, conditions or decisions that are expected to have a significant effect on the financial position or results of operations of the Firefighters' Pension System.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

STATEMENTS OF FIDUCIARY NET POSITION

April 30, 2020 and 2019

	2020	2019
<b>Assets</b>		
<b>Investments, at Fair Value</b>		
Short-term investment funds	\$ 10,913,500	\$ 10,405,729
U.S. Treasuries	11,628,396	--
U.S. government-backed mortgages	4,352,715	--
Municipal bonds	1,848,263	--
Asset-backed securities	4,425,328	--
Corporate bonds - domestic	28,695,159	--
Corporate bonds - foreign	621,424	--
Domestic debt obligations	6,184,151	--
Domestic common stock	69,260,704	76,615,337
Foreign equities	1,725,842	1,992,406
Partnerships	12,927,657	14,980,288
Collective trusts - equities	167,007,656	182,764,325
Collective trusts - fixed income	105,414,358	161,203,304
Collective trusts - hedge funds	--	52,599,029
Collective trusts - real estate	54,037,289	53,825,953
	<b>479,042,442</b>	<b>554,386,371</b>
<b>Securities Lending Collateral</b>	<b>35,702,433</b>	<b>23,834,490</b>
	<b>514,744,875</b>	<b>578,220,861</b>
<b>Receivables</b>		
Contributions	1,670,798	1,421,855
Investment income	269,271	194,772
Due from broker for sales of investments	48,829,011	1,373,258
	<b>50,769,080</b>	<b>2,989,885</b>
<b>Total assets</b>	<b>565,513,955</b>	<b>581,210,746</b>
<b>Liabilities</b>		
Due to broker for purchases of investments	1,142,428	834,809
Administrative and investment expenses payable	518,912	671,845
Securities lending collateral	35,702,433	23,834,490
	<b>37,363,773</b>	<b>25,341,144</b>
<b>Net Position Restricted for Pensions</b>	<b>524,724,671</b>	<b>552,265,610</b>
<b>Net Position Restricted for Health Care Subsidy</b>	<b>3,425,511</b>	<b>3,603,992</b>
<b>Total Net Position</b>	<b>\$ 528,150,182</b>	<b>\$ 555,869,602</b>

The accompanying notes are an integral part of these financial statements.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION

Years Ended April 30, 2020 and 2019

	2020	2019
<b>Additions</b>		
<b>Investment Income</b>		
Interest income	\$ 2,880,206	\$ 2,094,948
Dividend income	1,986,102	2,581,135
Net change in fair value of investments	(16,955,795)	22,195,745
Less investment expense	(2,504,430)	(2,587,597)
	<b>(14,593,917)</b>	24,284,231
<b>Securities Lending Income</b>		
Securities lending gross income	614,686	701,742
Securities lending expenses		
Borrower fees	(496,194)	(554,146)
Management fees	(35,486)	(44,214)
Total securities lending expenses	(531,680)	(598,360)
Net securities lending income	83,006	103,382
Total net investment (loss) income	<b>(14,510,911)</b>	24,387,613
<b>Contributions</b>		
Contributions from the City of Kansas City, Missouri		
Pension	21,728,336	20,015,327
Health subsidy	1,401,876	1,351,956
Health supplemental	1,594,000	1,587,000
Contributions from members	8,082,064	7,785,106
Total contributions	32,806,276	30,739,389
Total additions	<b>18,295,365</b>	55,127,002
<b>Deductions</b>		
<b>Benefits Paid</b>		
Retirement benefits	43,649,528	41,992,175
Funeral benefits	50,000	43,000
Total benefits paid	43,699,528	42,035,175
<b>Refunds</b>		
Termination	237,103	110,691
Retirement	1,677,755	752,541
<b>Administrative Expenses</b>	400,399	415,090
Total deductions	46,014,785	43,313,497
<b>Net (Decrease) Increase in Net Position</b>	<b>(27,719,420)</b>	11,813,505
<b>Net Position, Beginning of Year</b>	<b>555,869,602</b>	544,056,097
<b>Net Position, End of Year</b>	<b>\$ 528,150,182</b>	\$ 555,869,602

The accompanying notes are an integral part of these financial statements.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES**

Reporting Entity - The City of Kansas City, Missouri Firefighters' Pension System (Plan) is a contributory, single-employer, defined benefit pension plan covering all employees of the Firefighting Division of the City of Kansas City, Missouri (City). The Plan is considered part of the City's financial reporting entity and is included in the City's comprehensive annual financial report as a pension trust fund. Employees should refer to the Plan Agreement for more complete information.

Basis of Accounting - The financial statements are prepared on the accrual basis of accounting. Plan member contributions are recognized in the period in which the contributions are due. Employer contributions to the Plan are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when paid in accordance with the terms of the Plan.

Investments - Investments are valued at fair value as follows:

Government securities, asset-backed securities, corporate bonds and domestic debt obligations are valued at fair value based on prices quoted by a major dealer in such securities.

Common stock and foreign equities are valued at fair value based on closing prices reported on the composite summary of national securities exchanges or on over-the-counter or bid prices.

Collective trusts, partnerships and short-term investment funds consist primarily of non-marketable investments in various venture capital, corporate finance funds and private partnerships (collectively, Portfolio Funds). These funds are primarily invested in a diversified portfolio of equities, fixed income, real estate and alternative or non-traditional investments. These investments are recorded at fair value based on financial data, which is generally at an amount equal to the net asset value per share or the Portfolio Fund's proportionate interest in the net assets or net equity of the Portfolio Funds as determined by each Portfolio Fund's general partner or investment manager. The estimated value of such investments is subject to uncertainty and, therefore, may differ from the value that would have been used had a market for such investments existed.

Investment transactions are accounted for on a trade-date basis, and dividend income is recognized on the ex-dividend date. Interest income is recognized on an accrual basis. Realized gains and losses from investments are determined on an average cost basis.

Tax Status - The Retirement Board believes that the Plan is designed in accordance with section 401(a) of the Internal Revenue Code (Code) and is currently being operated in compliance with the applicable requirements of the Code.

Administrative Expenses - Plan administrative salaries, duplicating, telecommunications and travel expenses are included in the Plan's administrative expenses when incurred. The City provides office space, a portion of administrative and clerical services of the Human Resources Department and accounting services of the Finance Department without any direct charge to the Plan.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)**

Use of Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires the plan administrator to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

Subsequent Events - These financial statements considered subsequent events through October 1, 2020, the date the financial statements were available to be issued.

**2. PLAN DESCRIPTION**

The Plan is established by City ordinances enacted by the City Council. The Plan is administered by the Board of Trustees of the Firefighters' Pension System of Kansas City, Missouri (Board). The Board is composed of nine members, four of which are the Director of the Fire Department, the Director of Human Resources, the Director of Finance, and the City Treasurer. One is an appointed retired member and the remaining four are elected by the members of the pension system.

Tier I Member - Those employees hired before April 20, 2014.

Tier II Member - Those employees hired on or after April 20, 2014.

At April 30, 2020 and 2019, the Plan's membership consists of the following:

	2020		Total
	Tier I Members	Tier II Members	
Retirees and beneficiaries currently receiving benefits and terminated employees entitled to benefits but not yet receiving them	938	2	940
Current employees			
Vested	607	--	607
Nonvested	108	296	404
Inactive	--	13	13
Total	<u>1,653</u>	<u>311</u>	<u>1,964</u>
	2019		
	Tier I Members	Tier II Members	Total
Retirees and beneficiaries currently receiving benefits and terminated employees entitled to benefits but not yet receiving them	938	2	940
Current employees			
Vested	633	--	633
Nonvested	123	237	360
Inactive	--	8	8
Total	<u>1,694</u>	<u>247</u>	<u>1,941</u>

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**NOTES TO THE FINANCIAL STATEMENTS**

**2. PLAN DESCRIPTION (CONTINUED)**

Contributions - Funding is provided by contributions from the Plan's members, the City and earnings on investments. Firefighters contribute 10.55 percent of their base salary and an additional 1 percent to fund the health insurance subsidy. The City's contribution is set by the City Council in conjunction with its approval of the City's annual budget, based on the actuarially determined contribution rate set by the Plan's consulting actuary.

Based upon the May 1, 2018 and 2017 valuations, the actuary recommended City contribution rates of 32.54 percent and 30.62 percent, respectively, of covered payroll. For the years ended April 30, 2020 and 2019, the City contributed at rates of 31.84 percent and 30.21 percent, respectively, of annual covered payroll. The City Council also contributed 2 percent toward the health insurance subsidiary for 2020 and 2019.

Retirement Benefits - Benefit terms for the Plan are established in the City administrative code and can only be amended by the City Council. The Plan provides retirement, survivor, disability and pre-retirement death benefits as noted below:

Tier I Members - Members become vested for retirement benefits after 10 years of service. Members who retire with 25 years or more of creditable service are entitled to an annual pension of 2.5 percent of final average compensation multiplied by the number of years of creditable service, subject to a maximum limit of 80 percent of final compensation as defined in the Plan.

If members terminate prior to retirement and before rendering 10 years of service, they forfeit the right to receive the portion of their accumulated Plan benefits attributable to City contributions and are refunded their member contributions with interest. Such refunds result in the forfeiture of all other benefits under the Plan and are reduced by a service charge if the terminated employee has less than five years of service.

An automatic annual cost-of-living adjustment of 3.0 percent non-compounded is provided in the Plan. The Plan also provides for a minimum monthly payment of \$600 to all current and future service and disability retirees.

Tier II Members - Members become vested for retirement benefits after 10 years of service. Members who retire with 27 years or more of creditable service are entitled to an annual pension of 2.5 percent of final average compensation multiplied by the number of years of creditable service, subject to a maximum limit of 80 percent of final compensation as defined in the Plan.

If members terminate prior to retirement and before rendering 10 years of service, they forfeit the right to receive the portion of their accumulated plan benefits attributable to City contributions and are refunded their member contributions with interest. Such refunds result in the forfeiture of all other benefits under the Plan and are reduced by a service charge if the terminated employee has less than five years of service.

An annual cost-of-living adjustment, not to exceed 2.5 percent non-compounded is provided in the Plan if the prior year funding ratio is equal to or greater than 80 percent and will be equal to the percentage increase in the prior 12 months of the final national consumer price index. The Plan also provides for a minimum monthly payment of \$600 to all current and future service and disability retirees.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**2. PLAN DESCRIPTION (CONTINUED)**

Death Benefits - If an active member dies, the following benefits are paid:

A funeral benefit of \$2,000 to the spouse or named beneficiary.

To the member's spouse until death, a pension equal to one-half of the member's accrued pension, but not less than 25 percent of the member's average final compensation. The minimum monthly benefit is \$275 to all spouses. Certain benefit provisions have been established for deaths sustained in the performance of a member's duties, or deaths of active members prior to retirement who have achieved 25 years or more of creditable service.

To the member's children, an allowance of \$100 a month each until the attainment of age 18, unless certain conditions are met whereby benefits may continue.

To the member's designated beneficiary or estate, if there is no surviving spouse or qualifying child, any remaining member contributions and interest.

If a retired member dies, the following benefits are paid:

To the member's spouse until death, a retirement benefit equal to one-half of the member's normal retirement benefit.

To the member's designated beneficiary or estate, if there is no surviving spouse, any remaining member contributions and interest.

Disability Benefits - Disability benefits are available for members and are based on an average final compensation. The Plan provides for a minimum monthly payment of \$600 to all current and future disability retirees.

Health Care Subsidy - Effective May 1, 1991, the Plan established a subsidy fund (subsidy). The City and active firefighters contribute 2 percent and 1 percent of salary, respectively. Prior to April 1 of each year, the Board of Trustees of the Plan establishes the dollar value of the monthly subsidy. The monthly subsidy for the years ended April 30, 2020 and 2019 was \$480 and \$470, respectively.

The subsidy is invested in both fixed income and equity securities and is stated at fair value. Investments totaled \$3,425,511 and \$3,603,992 at April 30, 2020 and 2019, respectively.

The actuarial valuations do not consider the subsidy's fiduciary net position, which at April 30, 2020 and 2019 was \$3,425,511 and \$3,603,992, respectively. According to the City ordinance that established the subsidy, if the fiduciary net position available for the subsidy is zero, the subsidy will no longer be available. For the years ended April 30, 2020 and 2019, City contributions for the subsidy were \$2,995,876 and \$2,938,956, respectively, and employee contributions were \$700,938 and \$675,978, respectively.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**3. DEPOSITS AND INVESTMENTS**

The City administrative code and ordinances passed by the City Council provide that Plan investments may include, but are not limited to, obligations of the U.S. government, state of Missouri and municipal corporations, including school districts, corporate bonds, real estate mortgages and common and preferred stocks. The Plan purchases investments from Securities and Exchange Commission registered securities broker-dealers and banks through its investment managers. Investments in U.S. Treasury obligations are held at the Federal Reserve Bank through the customer account of a financial institution.

Investment Policy - The asset type and classes, target allocation and ranges that have been approved by the Board are shown below. All percentages are based on fair values. The Board has authorized Plan staff, with the guidance from the investment consultant, to rebalance the portfolio in accordance with the current strategy guidelines below.

Asset Type and Class	Range	Target
Large Cap Equity	10% - 20%	15%
Small Cap Equity	5% - 15%	10%
Non-U.S. Equity	10% - 20%	15%
Long/Short Equity	5% - 15%	10%
Global Equity	5% - 15%	10%
Fixed Income	25% - 35%	30%
Real Estate	5% - 15%	10%

Securities Lending Transactions - City ordinances and the Plan's Board policies permit the Plan to use investments of the Plan to enter into securities lending transactions, which are loans of securities to broker-dealers and other entities for collateral with a simultaneous agreement to return the collateral for the same securities in the future.

The Plan has contracted with The Northern Trust Company as its third-party lending agent to lend domestic equity and debt securities for cash collateral of not less than 102 percent of the fair value and international debt and equity securities of not less than 105 percent of the fair value. At April 30, 2020 and 2019, management believes the Plan has no credit risk exposure to borrowers because the amounts the Plan owes the borrowers exceed the amounts the borrowers owe the Plan. Contracts with the lending agent require it to indemnify the Plan if borrowers fail to return the securities, if the collateral is inadequate to replace the securities lent or if the borrowers fail to pay the Plan for income distributions by the securities' issuers while the securities are on loan; therefore, non-cash collateral is not recorded as an asset or liability on the financial statements.

	2020	2019
Fair value of securities loaned	<u>\$ 34,007,074</u>	<u>\$ 23,254,256</u>
Fair value of cash collateral received from borrowers	<u>\$ 35,702,433</u>	<u>\$ 23,834,490</u>



**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**3. DEPOSITS AND INVESTMENTS (CONTINUED)**

All security loans can be terminated on demand by either the Plan or the borrower. The cash collateral received on each security loan was invested, in accordance with the Plan investment guidelines, in short-term funds. The maturities of the resulting investments generally match the maturities of the securities lending arrangements themselves. The Plan is not permitted to pledge or sell collateral received unless the borrower defaults.

At April 30, 2020, the Plan had the following investments and maturities:

Type	Fair Value	Maturities in Years				Loaned Under Securities Lending Agreements
		Less than 1	1 - 5	6 - 10	More than 10	
U.S. Treasuries	\$ 11,628,396	\$ --	\$ 8,111,285	\$ 531,601	\$ 2,985,510	\$ 7,353,430
U.S. government-backed mortgages	4,352,715	--	--	1,108,515	3,244,200	--
Municipal bonds	1,848,263	--	1,848,263	--	--	--
Asset-backed securities	4,425,328	--	--	1,028,959	3,396,369	--
Corporate bonds - domestic	28,695,159	--	11,020,794	11,947,029	5,727,336	5,817,182
Corporate bonds - foreign	621,424	--	--	621,424	--	--
Domestic debt obligations	6,184,151	--	585,448	584,094	5,014,609	--
Short-term investment funds	10,913,500	10,913,500	--	--	--	--
	<u>68,668,936</u>	<u>\$ 10,913,500</u>	<u>\$ 21,565,790</u>	<u>\$ 15,821,622</u>	<u>\$ 20,368,024</u>	
Domestic common stock	69,260,704					20,836,462
Foreign equities	1,725,842					--
Partnerships	12,927,657					--
Collective trusts - equities	167,007,656					--
Collective trusts - fixed income	105,414,358					--
Collective trusts - real estate	54,037,289					--
	<u>\$ 479,042,442</u>					<u>\$ 34,007,074</u>

At April 30, 2019, the Plan held no investments with maturity dates, and all securities loaned under securities lending agreements were investments in domestic common stock.

Custodial Credit Risk - Custodial credit risk is the risk that, in the event of the failure of the counterparty, the Plan will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. Consistent with the Plan's securities lending policy, \$34,007,074 and \$23,254,256 was held by the counterparty that was acting as the Plan's agent in securities lending transactions at April 30, 2020 and 2019, respectively.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**3. DEPOSITS AND INVESTMENTS (CONTINUED)**

Investment Concentrations - The following presents investments that represent 5 percent or more of the fiduciary net position of the Plan, as of April 30, 2020:

<u>Investment</u>	<u>Fair Value</u>
NT Collective S&P 500 Index Fund - Non-Lending	\$ 56,353,940
Acadian Global Equity Fund	53,112,167
Blackrock Strategic Income Opportunities Portfolio	40,852,998
Marathon-London International Fund	40,089,888
Pioneer Multi-Sector Fixed Income Trust	39,968,383
JPMCB Special Situation Property Fund	31,427,119

The following presents investments that represent 5 percent or more of the fiduciary net position of the Plan, as of April 30, 2019:

<u>Investment</u>	<u>Fair Value</u>
Pioneer Multi-Sector Fixed Income Trust	\$ 68,197,881
NT Common S&P 500 Index Fund - Non-Lending	62,463,424
Acadian Global Equity Fund	54,632,104
Georgetown Diversified Fund, Ltd.	52,599,028
Blackrock Strategic Income Opportunities Portfolio	47,223,268
Marathon-London International Fund	45,462,264
Franklin Templeton Global Multisector Plus Trust	31,071,196
JPMCB Special Situation Property Fund	30,608,117

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**3. DEPOSITS AND INVESTMENTS (CONTINUED)**

Credit Risk - Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations to the Plan. As of April 30, 2020 and 2019, the Plan's fixed income assets that are not government guaranteed represented 91 percent and 100 percent, respectively, of the fixed income portfolio. The Plan has not established a policy with regard to credit risk. The following tables summarize the Plan's fixed income portfolio exposure levels and credit qualities at April 30, 2020 and 2019:

Average Credit Quality and Exposure Levels of Nongovernment Guaranteed Securities

<u>Fixed Income Security Type</u>	<u>Fair Value April 30, 2020</u>	<u>Percentage of all Fixed Income Assets</u>	<u>Weighted Average Credit Quality</u>
Short-term investment funds	\$ 10,913,500	6.3%	Not rated
Municipal bonds	1,848,263	1.1%	Aa2
Asset-backed securities	4,425,328	2.5%	Aaa
Corporate bonds - domestic	28,695,159	16.5%	A2
Corporate bonds - foreign	621,424	0.4%	A2
Domestic debt obligations	6,184,151	3.5%	Aaa
Collective trusts - fixed income	105,414,358	60.5%	Not rated
	<u>\$ 158,102,183</u>	<u>90.8%</u>	
<u>Fixed Income Security Type</u>	<u>Fair Value April 30, 2019</u>	<u>Percentage of all Fixed Income Assets</u>	<u>Weighted Average Credit Quality</u>
Short-term investment funds	\$ 10,405,729	6.1%	Not rated
Collective trusts - fixed income	161,203,304	93.9%	Not rated
	<u>\$ 171,609,033</u>	<u>100%</u>	

Each portfolio is managed in accordance with operational guidelines that are specific as to permissible credit quality ranges, exposure levels within individual quality tiers and the average credit quality of the overall portfolios.

Interest Rate Risk - Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The Plan has not established a policy with regard to interest rate risk. The Plan actually owns an interest in the underlying assets of the collective trusts and the money market funds and the unit values are based on the fair value of their underlying assets.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**3. DEPOSITS AND INVESTMENTS (CONTINUED)**

Effective Duration of Fixed Income by Security Type

<u>Fixed Income Security Type</u>	<u>Fair Value April 30, 2020</u>	<u>Percentage of all Fixed Income Assets</u>	<u>Weighted Average Effective Duration (Years)</u>
Short-term investment funds**	\$ 10,913,500	6.3%	**
U.S. Treasuries	11,628,396	6.7%	7.40
U.S. government-backed mortgages	4,352,715	2.5%	1.76
Municipal bonds	1,848,263	1.1%	4.44
Asset-backed securities	4,425,328	2.5%	4.22
Corporate bonds - domestic	28,695,159	16.5%	6.77
Corporate bonds - foreign	621,424	0.4%	7.45
Domestic debt obligations	6,184,151	3.5%	3.37
Collective trusts - fixed income	105,414,358	60.5%	4.17
	<u>\$ 174,083,294</u>	<u>100%</u>	

<u>Fixed Income Security Type</u>	<u>Fair Value April 30, 2019</u>	<u>Percentage of all Fixed Income Assets</u>	<u>Weighted Average Effective Duration (Years)</u>
Short-term investment funds**	\$ 10,405,729	6%	**
Collective trusts - fixed income	161,203,304	94%	2.68
	<u>\$ 171,609,033</u>	<u>100%</u>	

\*\*The Plan actually owns an interest in the underlying assets of the short-term investment funds and the unit values are based on the fair value of their underlying assets. The short-term investment funds do not have a maturity date, even though their underlying assets do have maturity dates of less than one year.

Foreign Currency Risk - Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The Plan's currency risk exposure, or exchange rate risk, primarily reside within the Plan's foreign debt obligations and foreign equity holdings through the Plan's various asset managers. The Plan's policy for each specific portfolio does not place limits on the amount of foreign exposure that can be held by the individual asset managers.

Annual Money-Weighted Rate of Return - For the years ended April 30, 2020 and 2019, the annual money-weighted rate of return on the pension plan investments, net of pension plan investment expense, was -2.35% and 4.62 percent, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**4. NET PENSION LIABILITY**

The components of the net pension liability of the City at April 30, 2020 and 2019 were as follows:

	2020	2019
Total pension liability	\$ 821,693,244	\$ 787,888,848
Plan fiduciary net position	(524,724,671)	(552,265,610)
City's net pension liability	\$ 296,968,573	\$ 235,623,238
Fiduciary net position as a % of total pension liability	63.86%	70.09%

**5. ACTUARIAL METHODS AND ASSUMPTIONS**

An actuary from Cheiron determines the total pension liability. The total pension liability as of April 30, 2020 and 2019 was determined based on an actuarial valuation prepared as of May 1, 2019 and 2018, respectively, rolled forward one year, using the following actuarial assumptions:

Price inflation	2.50%
Salary increases, including wage inflation	3.0% to 8.0%
Long-term investment rate of return, net of plan investment expense, including inflation	7.25%
Mortality tables:	
Healthy	RP-2000 Combined Healthy Mortality Table set forward one year for males and females, projected using a modified Scale MP-2015 on a generational basis
Disabled	RP-2000 Combined Disabled Mortality Table projected using a modified Scale MP-2015 on a generational basis

The actuarial assumptions used in the May 1, 2019 and 2018 valuations were based on the results of the most recent actuarial expense study for the period of May 1, 2011 to April 30, 2016. The actuarial experience study is dated February 9, 2017.

For purposes of calculating the total pension liability, future ad hoc cost of living adjustments (COLAs) of 3.0 percent (simple COLA) were assumed to be granted in all future years for Tier I Members. For Tier II Members, COLA will only be payable if the prior year's funding ratio is greater than or equal to 80 percent and will be equal to the percentage increase in the consumer price index, up to a maximum of 2.50 percent, payable at the 27<sup>th</sup> anniversary date of hire.

Long-Term Expected Real Rate of Return - The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**5. ACTUARIAL METHODS AND ASSUMPTIONS (CONTINUED)**

target asset allocation percentage and by adding expected inflation. Best-estimates arithmetic real rates of return for each major asset class included in the Plan's target asset allocation as of April 30, 2020 and 2019 are summarized in the following table:

Asset Class	April 30, 2020		April 30, 2019	
	Target Allocation	Long-Term Expected Real Rate of Return	Target Allocation	Long-Term Expected Real Rate of Return
Large Cap Equity	15%	7.1%	15%	8.5%
Small Cap Equity	10%	8.4%	10%	9.8%
Non-U.S. Equity	15%	8.4%	15%	9.7%
Long/Short Equity	10%	5.5%	10%	7.3%
Global Equity	10%	7.9%	10%	9.3%
Fixed Income	30%	3.0%	30%	5.2%
Real Estate	10%	7.5%	10%	7.5%

Discount Rate - The discount rate used to measure the total pension liability was 7.25 percent as of April 30, 2020 and 2019. In the professional judgment of the Plan's actuary, the funding policy of the Plan will result in the pension plan's projected Fiduciary Net Position being greater than or equal to the benefit payments projected for each future period. Therefore, the long-term expected rate of return was applied to all periods of projected benefit payments.

Sensitivity Analysis - The following sensitivity analysis presents the net pension liability of the City, calculated using the discount rate as well as what the City's net pension liability would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate as of April 30, 2020 and 2019:

	2020		
	1% Decrease	Current Discount Rate	1% Increase
	(6.25%)	(7.25%)	(8.25%)
Total pension liability	\$ 930,585,720	\$ 821,693,244	\$ 731,946,462
Fiduciary net position	(524,724,671)	(524,724,671)	(524,724,671)
Net pension liability	\$ 405,861,049	\$ 296,968,573	\$ 207,221,791

  

	2019		
	1% Decrease	Current Discount Rate	1% Increase
	(6.25%)	(7.25%)	(8.25%)
Total pension liability	\$ 892,509,562	\$ 787,888,848	\$ 701,686,686
Fiduciary net position	(552,265,610)	(552,265,610)	(552,265,610)
Net pension liability	\$ 340,243,952	\$ 235,623,238	\$ 149,421,076

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**6. RISKS AND UNCERTAINTIES**

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

Plan contributions are made and the total pension liability is reported based on certain assumptions pertaining to interest rates, inflation rates and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimation and assumption process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

**7. FAIR VALUE MEASUREMENTS**

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value measurements must maximize the use of observable inputs and minimize the use of unobservable inputs. There is a hierarchy of three levels of inputs that may be used to measure fair value:

- Level 1** Quoted prices in active markets for identical assets or liabilities
- 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 the assets or liabilities
- Level 3** Unobservable inputs supported by little or no market activity and are significant to the fair value of the assets or liabilities

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**7. FAIR VALUE MEASUREMENTS (CONTINUED)**

The following tables present the fair value measurements of assets and liabilities recognized in the accompanying financial statements measured at fair value on a recurring basis and the level within the fair value hierarchy in which the fair value measurements fall at April 30, 2020 and 2019:

	Total Fair Value	April 30, 2020		
		Level 1	Level 2	Level 3
Investments by fair value level				
U.S. Treasuries	\$ 11,628,396	\$ --	\$ 11,628,396	\$ --
U.S. government-backed mortgages	4,352,715	--	3,762,792	589,923
Municipal bonds	1,848,263	--	1,848,263	--
Asset-backed securities	4,425,328	--	4,425,328	--
Corporate bonds - domestic	28,695,159	--	28,695,159	--
Corporate bonds - foreign	621,424	--	621,424	--
Domestic debt obligations	6,184,151	--	5,566,424	617,727
Domestic common stock	69,260,704	69,260,704	--	--
Foreign equities	1,725,842	1,725,842	--	--
Collective trusts - equities	56,353,940	--	56,353,940	--
Short-term investment funds	10,913,500	10,913,500	--	--
Total investments measured at fair value	<u>196,009,422</u>	<u>\$ 81,900,046</u>	<u>\$ 112,901,726</u>	<u>\$ 1,207,650</u>
Investments measured at net asset value (NAV) (A)				
Partnerships	12,927,657			
Collective trusts - equities	110,653,716			
Collective trusts - fixed income	105,414,358			
Collective trusts - real estate	<u>54,037,289</u>			
Total investments measured at net asset value (NAV)	<u>283,033,020</u>			
Total investments measured at fair value	<u>\$ 479,042,442</u>			



**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**7. FAIR VALUE MEASUREMENTS (CONTINUED)**

	April 30, 2019			
	Total Fair Value	Level 1	Level 2	Level 3
Investments by fair value level				
Domestic common stock	\$ 76,615,337	\$ 76,615,337	\$ --	\$ --
Foreign equities	1,992,406	1,992,406	--	--
Collective trusts - equities	62,463,424	--	62,463,424	--
Collective trusts - fixed income	14,710,960	--	14,710,960	--
Short-term investment funds	10,405,729	10,405,729	--	--
Total investments measured at fair value	166,187,856	\$ 89,013,472	\$ 77,174,384	\$ --
Investments measured at net asset value (NAV) (a)				
Partnerships	14,980,288			
Collective trusts - equities	120,300,901			
Collective trusts - fixed income	146,492,344			
Collective trusts - hedge funds	52,599,029			
Collective trusts - real estate	53,825,953			
Total investments measured at net asset value (NAV)	388,198,515			
Total investments measured at fair value	\$ 554,386,371			

(a) Certain investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. The fair value amounts included above are intended to permit reconciliation of the fair value hierarchy to the amounts presented in the statements of fiduciary net position.

Equity and short-term investment funds classified as Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. Corporate and governmental debt securities and certain collective trusts classified as Level 2 of the fair value hierarchy are valued using third-party pricing services based on market observable information such as market quotes for similar assets, as well as normal market pricing considerations such as duration, interest rates and prepayment assumptions.

The fair value estimates presented herein are based on pertinent information available to management as of April 30, 2020 and 2019. Although management is not aware of any factors that would significantly affect the estimated fair value amounts, such amounts have not been comprehensively revalued for purposes of these financial statements since that date, and current estimates of fair value may differ significantly from the amounts presented herein.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO THE FINANCIAL STATEMENTS

**7. FAIR VALUE MEASUREMENTS (CONTINUED)**

Where quoted market prices are available in an active market, securities are classified within Level 1 of the valuation hierarchy. If quoted market prices are not available, then fair values are estimated by using quoted prices of securities with similar characteristics or independent asset pricing services and pricing models, the inputs of which are market-based or independently sourced market parameters, including, but not limited to, yield curves, interest rates, volatilities, prepayments, defaults, cumulative loss projections and cash flows. Such securities are classified in Level 2 of the valuation hierarchy. In certain cases where Level 1 or Level 2 inputs are not available, securities are classified within Level 3 of the hierarchy.

The valuation method for investments measured at the net asset value (NAV) per share (or its equivalent) is presented below.

	April 30, 2020			
	Fair Value	Unfunded Commitments	Redemption Frequency (If Currently Eligible)	Notice Period
Partnerships (A)	\$ 12,927,657	\$ --	Monthly	15 Days
Collective trusts - equities (B)	110,653,716	--	Daily/Monthly	3-30 Days
Collective trusts - fixed income (C)	105,414,358	--	Daily	1 Business Day
			Once per	45 days prior to
Collective trusts - real estate (D)	31,427,119	--	Quarter	quarter end
Collective trusts - real estate (D)	22,610,170	--	Daily	1 Business Day
Total investments measured at NAV	<u>\$ 283,033,020</u>	<u>\$ --</u>		

	April 30, 2019			
	Fair Value	Unfunded Commitments	Redemption Frequency (If Currently Eligible)	Notice Period
Partnerships (A)	\$ 14,980,288	\$ --	Monthly	15 Days
Collective trusts - equity (B)	120,300,901	--	Daily/Monthly	3-30 Days
Collective trusts - fixed income (C)	146,492,344	--	Daily	1 Business Day
			Once per	45 days prior to
Collective trusts - real estate (D)	30,608,117	--	Quarter	quarter end
Collective trusts - real estate (D)	23,217,836	--	Daily	1 Business Day
Collective trusts - hedge funds (E)	52,599,029	--	Quarterly	90 Days
Total investments measured at NAV	<u>\$ 388,198,515</u>	<u>\$ --</u>		

(A) This category is a limited partnership. Investments are open-ended Global Core/Core Plus infrastructure investments.

(B) This category includes collective trust funds. Each invests in equity securities both on the national and international markets listed on public market exchanges.

(C) This category is a fixed income fund that is traded daily. The fund includes U.S. and non-U.S. government, securitized and corporate bonds, and currencies across the entire quality spectrum.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**NOTES TO THE FINANCIAL STATEMENTS**

**7. FAIR VALUE MEASUREMENTS (CONTINUED)**

(D) This category is a common collective trust redeemable quarterly with a 45 day and 1 day notice period, respectively. Investments are open-ended U.S. Commercial real estate.

(E) This category is a limited partnership domiciled in the Cayman Islands. Investments provide exposure to more than 60 "hedge fund risk premiums" across nine broad strategy groups (event driven, convertible arbitrage, equity market neutral, dedicated short bias, long/short equity, emerging markets, global macro, managed futures and fixed income relative value) with a dynamic and disciplined investment process that aims to provide risk-balanced, long-term exposure to the underlying strategies. The result is a high risk-adjusted expected return stream with low correlation to traditional asset classes.

**8. RELATED PARTY TRANSACTIONS**

The Plan reimburses the City for the cost of providing financial and other services. Amounts charged are expensed during the period incurred.

**9. SUBSEQUENT EVENTS**

On January 30, 2020, the World Health Organization declared the coronavirus outbreak a "Public Health Emergency of International Concern" and on March 11, 2020, declared it to be a pandemic. The pandemic in the United States and throughout the world resulted in substantial volatility in financial markets. This had a significant adverse impact on investment portfolios. Global equity markets experienced the swiftest market correction in history as the spread of COVID-19 halted economies around the world, and the longest bull market in history officially came to an end in mid-March. In response, the Federal Reserve took several emergency actions which included cutting rates twice and beginning a new round of quantitative easing to stabilize financial markets and support the flow of credit. Additionally, in the U.S., a \$2.2 trillion stimulus plan was announced. These measures led to a reduction in volatility and a strong comeback in the markets, with U.S. equities leading the way. As a result of the pandemic and these stimulus measures, the Plan's investments may continue to experience volatility in fair value.

REQUIRED SUPPLEMENTARY INFORMATION

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS**

Last Ten Fiscal Years

	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>
<b>Total pension liability</b>						
Service cost	\$ 15,915,926	\$ 15,499,462	\$ 15,135,242	\$ 12,886,414	\$ 13,124,510	\$ 13,137,551
Interest on total pension liability	57,027,647	54,607,607	52,444,755	46,425,259	44,922,139	43,442,934
Differences between expected and actual experience	3,952,169	78,742	6,556,970	(1,411,774)	(1,569,538)	--
Changes of assumptions	--	--	--	73,346,941	--	--
Benefit payments, including member refunds	<u>(43,091,346)</u>	<u>(39,168,957)</u>	<u>(37,245,710)</u>	<u>(36,922,344)</u>	<u>(35,808,161)</u>	<u>(34,761,116)</u>
<b>Net change in total pension liability</b>	33,804,396	31,016,854	36,891,257	94,324,496	20,668,950	21,819,369
<b>Total pension liability - beginning</b>	<u>787,888,848</u>	<u>756,871,994</u>	<u>719,980,737</u>	<u>625,656,241</u>	<u>604,987,291</u>	<u>583,167,922</u>
<b>Total pension liability - ending</b>	<u>821,693,244</u>	<u>787,888,848</u>	<u>756,871,994</u>	<u>719,980,737</u>	<u>625,656,241</u>	<u>604,987,291</u>
<b>Fiduciary net position</b>						
Net investment income (loss)	(13,158,656)	24,331,965	47,009,524	58,651,918	(7,690,067)	32,672,401
City contributions	21,728,336	20,015,327	17,435,993	16,754,798	16,631,844	16,258,533
Member contributions	7,381,126	7,109,128	6,882,375	6,534,349	6,173,154	6,258,482
Benefits paid	(41,176,488)	(38,305,725)	(36,713,962)	(35,905,329)	(33,876,851)	(32,536,750)
Refunds of contributions	(1,914,858)	(863,232)	(531,748)	(1,017,015)	(1,931,310)	(1,956,321)
Administrative expenses	<u>(400,399)</u>	<u>(415,090)</u>	<u>(386,608)</u>	<u>(345,060)</u>	<u>(300,479)</u>	<u>(264,100)</u>
<b>Net change in fiduciary net position</b>	(27,540,939)	11,872,373	33,695,574	44,673,661	(20,993,709)	20,432,245
<b>Fiduciary net position - beginning</b>	<u>552,265,610</u>	<u>540,393,237</u>	<u>506,697,663</u>	<u>462,024,002</u>	<u>483,017,711</u>	<u>462,585,466</u>
<b>Fiduciary net position - ending</b>	<u>524,724,671</u>	<u>552,265,610</u>	<u>540,393,237</u>	<u>506,697,663</u>	<u>462,024,002</u>	<u>483,017,711</u>
<b>Net pension liability, ending</b>	<u>\$ 296,968,573</u>	<u>\$ 235,623,238</u>	<u>\$ 216,478,757</u>	<u>\$ 213,283,074</u>	<u>\$ 163,632,239</u>	<u>\$ 121,969,580</u>
<b>Fiduciary net position as a percentage of total pension liability</b>	63.86%	70.09%	71.40%	70.38%	73.85%	79.84%
<b>Covered payroll</b>	\$ 68,246,790	\$ 66,264,508	\$ 64,492,241	\$ 57,625,619	\$ 59,294,555	\$ 59,410,476
<b>Net pension liability as a percentage of covered payroll</b>	435.14%	355.58%	335.67%	370.12%	275.97%	205.30%

**Note to schedule:** This schedule is intended to show a 10-year trend. Additional years will be reported as they become available. As discussed in Note 2, the activity related to the health care subsidy is excluded from the above information.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**SCHEDULE OF CITY CONTRIBUTIONS**

Last Ten Fiscal Years

	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>
Actuarially determined employer contribution	\$ 21,562,471	\$ 19,747,524	\$ 17,316,499	\$ 16,726,994	\$ 16,581,464	\$ 16,162,139	\$ 16,182,139	\$ 15,400,040	\$ 14,045,886	\$ 12,827,773
Actual City contributions	21,728,336	20,015,327	17,435,993	16,754,798	16,631,844	16,258,533	11,795,883	13,120,169	11,603,818	10,297,638
Annual contribution deficiency (excess)	\$ (165,865)	\$ (267,803)	\$ (119,494)	\$ (27,804)	\$ (50,380)	\$ (96,394)	\$ 4,386,256	\$ 2,279,871	\$ 2,442,068	\$ 2,530,135
Covered payroll	\$ 68,246,790	\$ 66,264,508	\$ 64,492,241	\$ 57,625,619	\$ 59,294,555	\$ 59,410,476	\$ 58,356,072	\$ 60,062,558	\$ 51,983,293	\$ 51,934,305
Actual contributions as a percentage of covered payroll	31.84%	30.21%	27.04%	29.08%	28.05%	27.37%	20.21%	21.84%	22.32%	19.83%

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

**SCHEDULE OF INVESTMENT RETURNS**

Last Ten Fiscal Years

<b>Fiscal Year Ending April 30</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>
Annual money-weighted rate of return, net of investment expense	-2.35%	4.62%	9.53%	12.89%	-1.50%	7.19%	10.85%

**Note to schedule:** This schedule is intended to show a 10-year trend. Additional years will be reported as they become available.

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION

**Changes of benefit and funding terms** – The following changes to the plan provisions were reflected in the valuation as listed below:

5/01/2019 Valuation

- No changes to benefit or funding terms.

5/01/2018 Valuation

- No changes to benefit or funding terms.

5/01/2017 Valuation

- No changes to benefit or funding terms.

5/01/2016 Valuation

- No changes to benefit or funding terms.

5/01/2015 Valuation

- No changes to benefit or funding terms.

5/01/2014 Valuation

- Effective April 20, 2014, member contribution rates increased by 1.00 percent and Tier II have been added to the Plan.

5/01/2011 Valuation

- According to Ordinance No. 100606, members can now designate at retirement that a qualified domestic partner receive death benefits.



**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION

**Changes in actuarial assumptions and methods** – The following changes to the Plan provisions were reflected in the valuations as listed below:

5/01/2019 Valuation

- No changes in actuarial assumptions or methods.

5/01/2018 Valuation

- No changes in actuarial assumptions or methods.

5/01/2017 Valuation

- All assumptions have been revised based on the results of the experience study conducted for the period May 1, 2011 to April 30, 2016.
- Administrative expense assumption was increased from 0.35 percent of payroll to 0.37 percent of payroll.

5/01/2016 Valuation

- No changes in actuarial assumptions or methods.

5/01/2015 Valuation

- An administrative expense assumption of 0.35 percent of payroll was added. Retirement rates added for Tier II.

5/01/2014 Valuation

- The investment return assumption decreased from 7.75 percent to 7.50 percent.

5/01/2012 Valuation

- An actuarial experience study was conducted and resulted to changes in the following assumptions:
  - Inflation
  - Real wage growth
  - Termination rates
  - Retirement rates
  - Disability rates
  - Duty related disability percentage
  - Spouse age difference
  - Marriage assumption
  - Health mortality
  - Disabled mortality

**CITY OF KANSAS CITY, MISSOURI  
FIREFIGHTERS' PENSION SYSTEM**

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION

The following actuarial methods and assumptions were used to determine the actuarially determined employer contribution reported in the most recent fiscal year, which was based on the May 1, 2018 actuarial valuation:

Valuation Date	May 1, 2018
Timing	Actuarially determined contribution rates are calculated based on the actuarial valuation one year prior to the beginning of the plan year.

Key Methods and Assumptions Used to Determine Contribution Rates:

Actuarial cost method	Entry Age
Asset valuation method	5-year smoothed market. 80% / 120% corridor around market value
Amortization method	30-year layered amortization as a level percent of pay for changes to the unfunded actuarial liability on or after 5/1/2008.
Discount rate	7.25%
Amortization growth rate	3.00%
Price inflation	2.50%
Salary increases	Ranges from 8.0% to 3.0%
Cost-of-living adjustments	Tier I: 3.00% simple Tier II: 2.50% simple payable at 27th anniversary of date of hire if the prior year's funding ratio is greater than or equal to 80%
Mortality	Healthy: RP-2000 Combined Healthy Mortality Table set forward one year for males and females, projected using a modified Scale MP-2015 on a generational basis Disabled: RP-2000 Combined Disabled Mortality Table projected using a modified Scale MP-2015 on a generational basis.