



*Oklahoma City Employee Retirement System*  
*Comprehensive Annual Financial Report/A Pension Trust Fund of Oklahoma City*  
*The City of Oklahoma City, Oklahoma/for the Fiscal Year ended June 30, 2018 and 2017*





# OKLAHOMA CITY EMPLOYEE RETIREMENT SYSTEM

A Pension Trust Fund of  
Oklahoma City, Oklahoma

## *Board of Trustees*

Paul Bronson, Chairman

Ken Culver, Vice-Chairman

Frances Kersey, Secretary (ex-officio)

Robert Ponkilla, Treasurer (ex-officio)

Dianna Berry

Jacqueline Ames

Jamie O'Leary

Karla Nickels

Jim Williamson

Craig Freeman

Randy Thurman

Dennis Spencer

Regina Story

## *Management*

Rena Hutton, Administrator

Comprehensive Annual Financial Report  
for the Fiscal Years Ended June 30, 2018 and 2017

Prepared by The Oklahoma City Finance Department, Accounting Services Division  
Laura L. Papas, Controller



# OKLAHOMA CITY EMPLOYEE RETIREMENT SYSTEM

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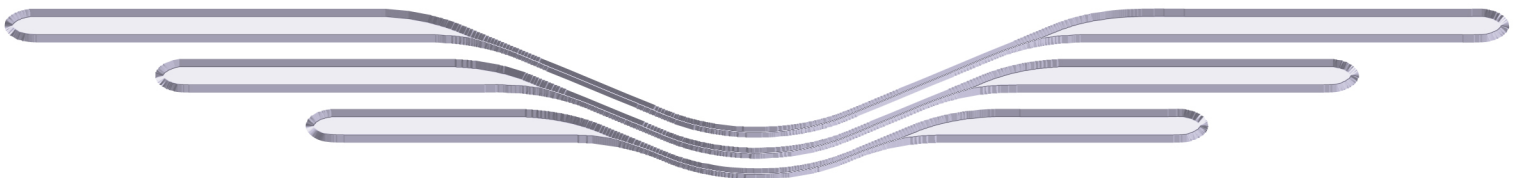
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# *Introductory*









# Oklahoma City Employee Retirement System

## Board of Trustees

**Paul Bronson**  
General Services Director  
Chairman

**Ken Culver**  
Vice Chair

**Frances Kersey**  
City Clerk  
Secretary

**Robert Ponkilla**  
City Treasurer  
Treasurer

**Jacqueline Ames**  
Police Service Tech II

**Dianna Berry**  
Personnel Director

**Craig Freeman**  
Finance Director

**Karla Nickels**  
Retired

**Jamie O'Leary**  
911 Communications  
Manager

**Dennis Spencer**

**Regina Story**  
Audit Manager

**Randy Thurman**

**Jim Williamson**  
City Auditor

Staff  
**Rena Hutton**  
Administrator

**Debbie Hayes**  
Analyst

December 21, 2018

The Board of Trustees  
Oklahoma City Employee Retirement System  
Oklahoma City, Oklahoma 73102

We are pleased to present the Comprehensive Annual Financial Report (CAFR) of the Oklahoma City Employee Retirement System ("System") for fiscal year ended June 30, 2018. During the past years, the System has seen significant advances and celebrated numerous successes and will continue to meet the challenges of tomorrow.

## **FINANCIAL INFORMATION**

The System's management is responsible for both the accuracy of the data and the completeness of the presentation of the financial statements, including all notes and disclosures. 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 fairly present the financial position of the System. The System's management is also responsible for establishing and maintaining a comprehensive framework of internal controls designed to ensure that assets are protected from loss, theft, or misuse and to ensure that adequate accounting information is generated in order to prepare financial statements in conformity with accounting principles generally accepted in the United States of America (U.S. GAAP). Because the cost of internal control should not exceed anticipated benefits, the objective is to provide reasonable, rather than absolute, assurance that the financial statements are free from material misstatements.

AGH LC, a firm of independent certified public accountants has audited the System's financial statements. The goal of the independent audit was to provide reasonable assurance that the financial statements of the System for the fiscal year ended June 30, 2018, are free from material misstatement. The independent audit involved examining, on a test basis, evidence supporting the amounts and disclosures in the statements, assessing the accounting principles used, and evaluating the overall financial statement presentation. The independent certified public accountants concluded, based upon the audit, that there was a reasonable basis for rendering an unmodified opinion that the System's financial statements for the fiscal year ended June 30, 2018, are fairly presented in conformity with U.S. GAAP. The Independent Accountants' Report on Financial Statements and Supplementary Information is presented as the first component of the Financial Section of this report.

U.S. GAAP requires that management provide a narrative introduction, overview and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis (MD&A). This letter of transmittal is designed to complement the MD&A and should be read in conjunction with it. The System's MD&A can be found immediately following the Independent Accountants' Report on Financial Statements and Supplementary Information.

## PROFILE OF THE SYSTEM

The Oklahoma City Employee Retirement System was created under the authority granted by Chapter 11 of the Oklahoma State Statutes on January 21, 1958, to provide pension and survivor benefits to all full-time civilian employees of The City of Oklahoma City. The benefit provisions of the System are established by City Ordinance. The System provides normal service retirement and early service retirement benefits for members who attain certain age and service requirements. Coverage for employment-connected (duty) disability benefits is immediate upon entry into the System; while for non-duty-related injuries or illnesses, disability benefits are provided after attainment of fifteen years of service. Members are vested after five years of service and are eligible for benefits at their early or normal service retirement date. For additional information on benefit provisions, see the Summary of Benefit Provisions Evaluated or Considered in the Actuarial Section of the CAFR.

## FUNDING

A pension plan is considered to be “well-funded” when it has enough money in reserve to meet all expected future obligations to its members. The System’s funding objective is to meet long-term benefit promises through contributions that remain approximately level as a percent of payroll. The greater the level of funding, the larger the ratio of assets accumulated to fund the actuarial accrued liabilities. Also, a better level of funding gives the members a higher degree of assurance that their pension benefits are secure. As of December 31, 2017, the System had an actuarial asset value of \$721,090,000 and an actuarial accrued liability of \$696,669,000, resulting in an unfunded actuarial accrued liability of (\$24,421,000).

The ratio of actuarial assets to actuarial accrued liabilities is 103.5%. The System is considered “well-funded” and is currently funded at better than 100%. The City’s dedication to provide a financially sound plan for its members is illustrated in the “Solvency Test-Schedule of Funding Progress” found in the Actuarial Section of the CAFR. This illustration presents the accrued liabilities calculated according to the plan funding method and historical progress made toward the funding of those liabilities. The “funded ratio” presents a positive indication of the financial strength of the System.

## FACTORS AFFECTING FINANCIAL CONDITION

As provided in the plan provisions, Section 40-95 of the Oklahoma City Municipal Code, the Board of Trustees is authorized to invest the plan assets and to take appropriate action regarding the investment, management, and custodianship of the plan assets. The investment responsibilities of the Board of Trustees include establishing reasonable investment objectives, developing investment policy guidelines, selecting investment managers, and evaluating performance results to assure adherence to guidelines and the achievement of objectives.

The Board of Trustees recognizes that the objective of a sound and prudent policy is to produce investment results, which will preserve the plan’s assets, as well as maximize earnings consistent with long-term needs. Furthermore, through diversification of plan assets over several investment classifications, the Board of Trustees recognizes the need to maintain a balanced investment approach to not only maximize investment results but also to reduce risk. The Board of Trustees has adopted a formal investment policy that was last modified December 2018. The policy guidelines provide that the System shall target 25% of the fund to fixed income strategies (Core Bonds 5%, Core Plus Bonds 7.5%, Global Bonds 7.5% and Low Volatility Hedge Fund Strategies 5%), 15% of the fund to real assets (Core Real Estate 6%, Opportunistic Real Estate 4% and Commodities 5%) and 60% to equity strategies (Large Cap Domestic Equities 20%, Small/Mid Cap Domestic Equities 10%, International Equities 10%, Emerging Market Equities 5%, Long/Short Equity Strategies 10% and Private Equity 5%). The asset mix may deviate from the targets. Deviations greater than predetermined acceptable levels may require rebalancing back to the target. When an asset class exceeds its range, the goal of rebalancing is to meet the target allocation with consideration of the other remaining asset classes.

The Board of Trustees believes its asset allocation will assist in safeguarding it against short-term market volatility while still providing opportunities for long-term growth. The Board of Trustees along with the investment advisor is involved in a thorough review of each investment manager and asset type to ensure they are fulfilling their role in achieving total portfolio performance. It is important that each investment manager maintain their assigned investment style so the System’s total portfolio is less likely to experience erratic market fluctuations.

For fiscal year 2018, investments provided a 9.0 percent rate of return. The System earned an annualized rate of return over the past three years of 6.9 percent, 8.48 percent over the last five years. The Board of Trustees continues to monitor the cost of benefits as well as the financial stability of the System to ensure all benefits promised are paid to our members.

#### AWARDS AND ACKNOWLEDGEMENTS

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Oklahoma City Employee Retirement System for its CAFR for the fiscal year ended June 30, 2017. Fiscal year 2017 was the eighteenth year that the System submitted and achieved this prestigious award. In order to be awarded a Certificate of Achievement, a report must satisfy both U.S. generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current CAFR continues to meet the Certificate of Achievement Program's requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate.

The Public Pension Coordinating Council (PPCC) awarded the PPCC Standards Award for the plan year December 31, 2017. The PPCC is a coalition of three associations that represent the vast majority of public employees in the United States. The associations are the:

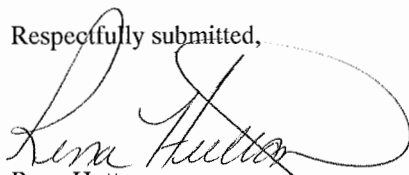
- National Association of State Retirement Administrators (NASRA)
- National Council on Teacher Retirement (NCTR)
- National Conference on Public Employee Retirement Systems (NCPERS)

The Public Pension Administration and Funding Standards are intended to reflect the minimum expectations for public retirement system management and administration, as well as serve as a benchmark by which all defined benefit public plans should be measured.


The preparation of this report could not have been accomplished without the dedicated efforts of The City's Controller and her staff. We would like to express our appreciation to all who assisted and contributed to its preparation.

On behalf of the Board of Trustees, we would like to take this opportunity to express our gratitude to the City staff, the System's advisors, and the many people who have worked so diligently to assure the successful operation of the Oklahoma City Employee Retirement System.

Respectfully submitted,



Rena Hutton  
Administrator



Robert Ponkilla  
Treasurer

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Government Finance Officers Association

**Certificate of  
Achievement  
for Excellence  
in Financial  
Reporting**

Presented to

**The Oklahoma City  
Employee Retirement System**

For its Comprehensive Annual  
Financial Report  
for the Fiscal Year Ended

**June 30, 2017**

*Christopher P. Morill*

Executive Director/CEO



Public Pension Coordinating Council

***Public Pension Standards Award  
For Funding and Administration  
2018***

Presented to

**Oklahoma City Employee Retirement System**

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 fluid and cursive, with the first name "Alan" and last name "Winkle" clearly distinguishable.

Alan H. Winkle  
Program Administrator

The Board of Trustees (Board) is a policy-making body and is responsible for the Oklahoma City Employee Retirement System's (System) proper operation. The System is administered under its guidance and direction, subject to such rules, regulations, and ordinances as adopted.

The Board consists of two ex-officio members, the City Treasurer and the City Clerk; two members from various City departments who are appointed by the City Council (Council); three members who have professional experience in investments and/or pension fund management who are appointed by Council, one member elected from the retired membership; three members elected from the active membership; and two members who serve by position, the Finance Director and the City Auditor. The Municipal Counselor's Office serves as the System's legal advisor.

Paul Bronson, Chairman General Services Director	Elected by active membership Term expires June 30, 2018
Ken Culver, Vice-Chairman	Appointed by the Council
Frances Kersey, Secretary City Clerk	Ex-Officio
Robert Ponkilla, Treasurer City Treasurer	Ex-Officio
Karla Nickels	Elected by retired membership Term expires December 31, 2018
Dianna Berry City Personnel Director	Appointed by Council
Craig Freeman City Finance Director	By Position
Regina Story Administrative Specialist	Elected by active membership Term expires June 30, 2018
Jacqueline Ames City Police Dispatcher	Appointed by Council
Jamie O'Leary 911 Communication Manager	Elected by active membership Term expires June 30, 2020
Jim Williamson City Auditor	By Position
Randy Thurman	Appointed by Council
Dennis Spencer	Appointed by Council

*Elected Trustees from the active membership serve three-year terms. The elected Trustee from the retiree membership serves a two-year term. Appointed trustees continue to serve until replaced by the Council. By position Trustees continue to serve as long as they hold their position. There are no limitations on the number of terms an elected Trustee may serve.*

CONSULTING SERVICES

LEGAL COUNSEL

Municipal Counselor's Office  
City of Oklahoma City  
Wiley Williams

Davis Graham & Stubbs LLP  
Cindy Birley  
Denver, Colorado

ACTUARY

Gabriel, Roeder, Smith & Company  
Louise M. Gates  
Southfield, Michigan

INVESTMENT CONSULTANT

Asset Consulting Group, Inc.  
Jason Pulos  
George Tarlas  
St. Louis, Missouri

MEDICAL CONSULTANT

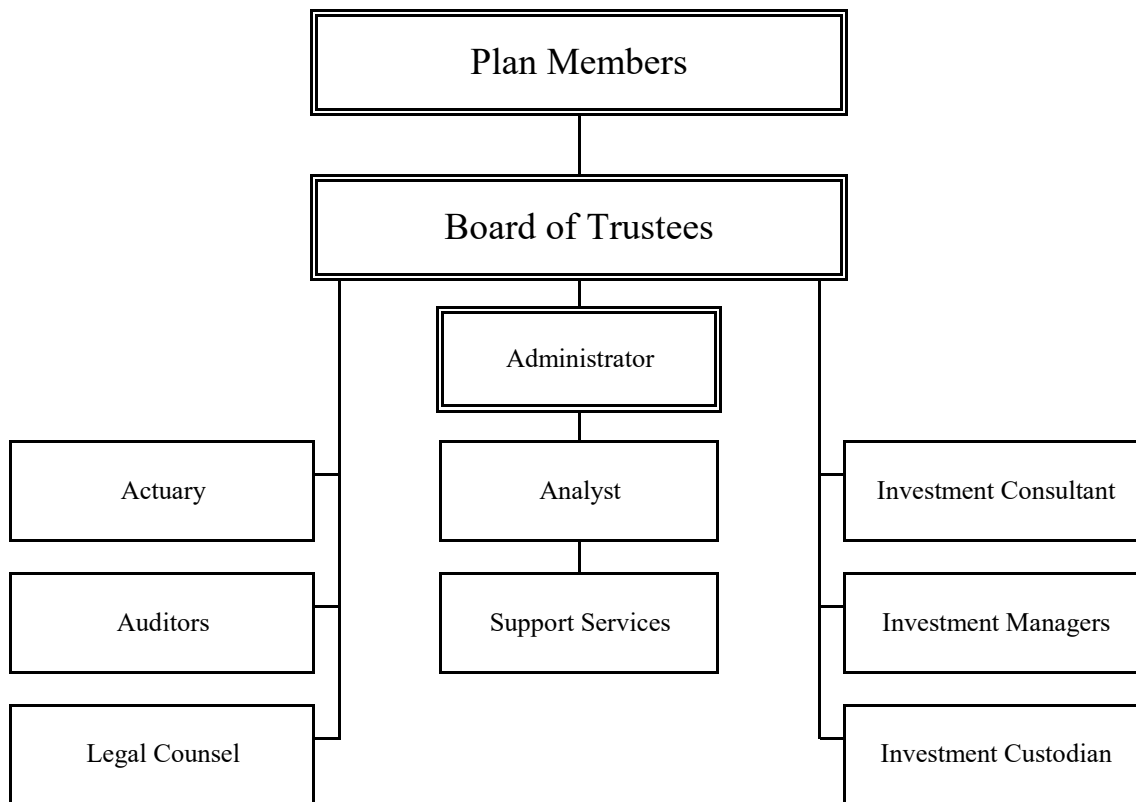
Independent Medical Examinations  
Dr. John Munneke, M.D.  
Medical Director  
Oklahoma City, Oklahoma

INDEPENDENT CERTIFIED PUBLIC ACCOUNTANT

Allen, Gibbs & Houlik, L.C.  
Wichita, Kansas

*See the Schedule of Fees and Commissions in the Investment Section for a list of investment professionals.  
Refer to the table of contents for page number.*







# *Oklahoma City Employee Retirement System*

**Paul E. Bronson**  
Chairman

**Rena L. Hutton**  
Administrator

**Address:**  
420 West Main  
Suite 343  
Oklahoma City, Oklahoma  
73102

**Phone:**  
(405) 297-3413  
(405) 297-2408

**Fax:**  
(405) 297-2216

The Members of the Oklahoma City Employee Retirement System:

The Comprehensive Annual Financial Report provides a comprehensive overview of the Oklahoma City Employee Retirement System's ("the System") financial position, funding activity and benefit payments during the past fiscal year. This report sets forth pertinent financial, investment, actuarial, and statistical data, and is available to all plan participants and the general public.

The Board realizes that proper, prudent, and faithful stewardship is necessary for the accumulation and preservation of assets needed to pay promised retirement benefits. Over the years, the Board has taken steps resulting in a positive financial position and a high level of security for the System. The System is considered to be one of the best funded retirement systems in the State of Oklahoma. As of June 30, 2018, the ratio of fiduciary net position to total pension liability is 103.92%. While the System is "well-funded", our ongoing challenge and goal is to maintain a fully funded status. To assist the Board in accomplishing this goal the System invests in various asset classes to provide a balanced investment approach and reduce overall risk. The Board will continue to monitor the System's financial stability and the cost of benefits to ensure all benefits promised are paid to our members.

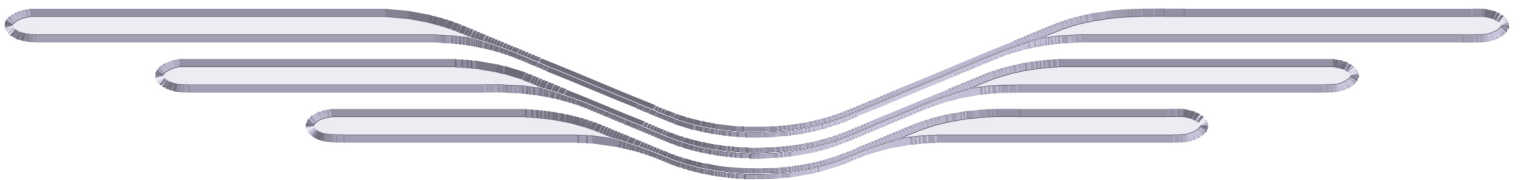
On behalf of the Board, and the System's staff I would like to take this opportunity to extend a special note of thanks to our membership for their support during the past year. Additionally, I would like to thank the many dedicated consultants who provide valuable information to the Board. And finally, I would like to recognize the support provided by the Mayor, City Council and City management in helping the System provide a financially secure retirement future for its members.

Sincerely,

A handwritten signature in cursive script that reads "Paul E. Bronson".

Paul E. Bronson, Chairman  
Oklahoma City Employee Retirement System

*Financial*





## INDEPENDENT AUDITOR'S REPORT

The Board of Trustees  
**Oklahoma City Employee Retirement System**  
Oklahoma City, Oklahoma

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

We have audited the accompanying financial statements of the Oklahoma City Employee Retirement System (System), a fiduciary component unit of the City of Oklahoma City, Oklahoma (City) as of and for the years ended June 30, 2018 and 2017, and the related notes to the financial statements, which collectively comprise the System's 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 opinions 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 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 opinions.

### ***Opinions***

In our opinion, the financial statements referred to above present fairly, in all material respects, the net position restricted for pension and other employee benefits of the System as of June 30, 2018 and 2017, and the respective changes in net position restricted for pension and other employee benefits for the years then ended, in accordance with accounting principles generally accepted in the United States of America.

## **Other Matters**

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, defined benefit pension plan and other post-employment benefits plan 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 audits were conducted for the purpose of forming opinions on the basic financial statements that collectively comprise the System's financial statements. The supporting schedules 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.

Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, 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 listed in the table of contents are presented for the purposes of additional analysis and are not a required part of the basic financial statements. Such information has 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 it.

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

In accordance with *Government Auditing Standards*, we have also issued our report dated December 21, 2018 on our consideration of the System's 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 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 System's internal control over financial reporting and compliance.

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

December 21, 2018  
Wichita, Kansas

## MANAGEMENT'S DISCUSSION AND ANALYSIS

Within this section of the Oklahoma City Employee Retirement System (System) annual financial report, the System's management provides narrative discussion and analysis of the financial activities of the System for the fiscal years ended June 30, 2018 and 2017. The financial performance of the System is discussed and analyzed within the context of the accompanying financial statements and disclosures following this section. Introductory information is available in the transmittal letter which precedes this discussion and analysis. The System is a pension trust of the City of Oklahoma City (City).

Pension trust resources are not available to fund City programs but are held in trust to pay retirement benefits to members.

### *Financial Summary*

- System net position reported in the financial statements is \$739,589,878 for 2018. This compares to the previous year when net position reported was \$702,133,165. These assets are held in trust to pay pension benefits to retirees.
- The fair value of investments at June 30, 2018, is \$742,716,467 compared to \$704,132,313 at June 30, 2017.
- The ratio of Plan fiduciary net position over the total pension liability at June 30, 2018, was 103.92%. The ratio of Plan fiduciary net position over the total pension liability at June 30, 2017, was 103.69%.

### *Overview of the Financial Statements*

This discussion and analysis introduces the basic financial statements. The basic financial statements include: (1) statement of fiduciary net position, (2) statement of changes in fiduciary net position, and (3) notes to the financial statements. Also included in this report is additional information to supplement the basic financial statements.

### **Financial Statements**

The System's annual report includes two basic financial statements. These statements provide both long-term and short-term information about the overall status of the System and are presented to demonstrate the extent to which the System has met its operating objectives efficiently and effectively using all the resources available and whether the System can continue to meet its objectives in the foreseeable future. Financial reporting for the System uses a perspective similar to that found in the private sector with its basis in full accrual accounting.

The first of these basic statements is the statement of fiduciary net position. This statement presents all of the assets and liabilities, with the difference reported as net position restricted for pension and other employee benefits. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the System as a whole is improving or deteriorating.

The second statement is the statement of changes in fiduciary net position which reports how the net position changed during the fiscal year and can be used to assess the System's operating results and analyze how the System's programs are financed. All current year revenues and expenses are included regardless of when cash is received or paid.

### **Notes to the Financial Statements**

The accompanying notes to the financial statements provide information essential to a full understanding of the financial statements. The notes to the financial statements begin immediately following the basic financial statements.

### **Other Information**

In addition to the basic financial statements and accompanying notes, this report also presents certain required supplementary information concerning the City's progress in funding its obligation to provide pension and other post-employment benefits to its employees.

*Financial Analysis*

The System's net position at fiscal year-end is \$739,589,878. This is an increase of \$37,456,713 from last year's net position. Overall the System's financial position improved during fiscal year 2018.

**Summary of Plan Fiduciary Net Position**

	2018	2017	2018-2017 Amount of Change	2018-2017 %	2016	2017-2016 Amount of Change	2017-2016 %
<b>Assets</b>							
Cash	\$6,353,842	\$4,711,808	\$1,642,034	34.8%	\$906,709	\$3,805,099	419.7%
Receivables	1,855,107	1,285,904	569,203	44.3	601,666	684,238	113.7
Investments	742,716,467	704,132,313	38,584,154	5.5	650,393,910	53,738,403	8.3
Net pension asset	<u>35,026</u>	<u>-</u>	<u>35,026</u>	100.0	<u>60,916</u>	<u>(60,916)</u>	(100.0)
<b>Total assets</b>	<b>750,960,442</b>	<b>710,130,025</b>	<b>40,830,417</b>	5.7	<b>651,963,201</b>	<b>58,166,824</b>	8.9
<b>Deferred outflows</b>	<b>42,942</b>	<b>70,115</b>	<b>(27,173)</b>	(38.8)	<b>9,634</b>	<b>60,481</b>	627.8
<b>Liabilities</b>	<b>11,367,893</b>	<b>8,044,233</b>	<b>3,323,660</b>	41.3	<b>2,824,271</b>	<b>5,219,962</b>	184.8
<b>Deferred inflows</b>	<b>45,613</b>	<b>22,742</b>	<b>22,871</b>	100.6	<b>25,308</b>	<b>(2,566)</b>	(10.1)
<b>Net position</b>	<b><u>\$739,589,878</u></b>	<b><u>\$702,133,165</u></b>	<b><u>\$37,456,713</u></b>	5.3	<b><u>\$649,123,256</u></b>	<b><u>\$53,009,909</u></b>	8.2

Cash and investments increased by \$40.23 million during 2018 primarily due to net investment income of \$58.54 million, offset by benefits and other expenses in excess of contributions of \$20.97 million. Cash and investments increased by \$57.54 million during 2017 primarily due to net investment income of \$72.21 million, offset by benefits and other expenses in excess of contributions of \$19.30 million.

Receivables increased by \$572 thousand and \$684 thousand during 2018 and 2017, respectively. This is primarily due to the timing of interest receipts and contributions in both years.

In 2018, the net pension liability was converted to a net pension asset of \$35 thousand, deferred outflows decreased by \$27 thousand, and deferred inflows increased by \$23 thousand due to the actuarially determined pension calculations. In 2017, the net pension liability was \$2 thousand, deferred outflows increased by \$60 thousand, and deferred inflows decreased by \$3 thousand due to the actuarially determined pension calculations.

The increase in liabilities of \$3.32 million during the year ended June 30, 2018, was primarily due to the increase of \$2.89 million in amounts due to investment broker for pending trade purchases. The increase in liabilities of \$5.22 million during the year ended June 30, 2017, was primarily due to the increase of \$5.01 million that was due to investment broker for pending trade purchases.



Summary of Changes in Fiduciary Net Position

	<u>2018</u>	<u>2017</u>	2018-2017 Amount of <u>Change</u>	2018-2017 % <u>Change</u>	<u>2016</u>	2017-2016 Amount of <u>Change</u>	2017-2016 % <u>Change</u>
<b>Additions</b>							
Contributions	\$15,074,952	\$14,603,735	\$471,217	3.2%	\$14,973,280	(\$369,545)	(2.5%)
Investment income, net	58,534,108	72,212,734	(\$13,678,626)	(18.9)	(4,840,459)	77,053,193	1591.9
Other	<u>99,916</u>	<u>96,979</u>	<u>2,937</u>	3.0	<u>68,029</u>	<u>28,950</u>	42.6
<b>Total additions</b>	<b><u>73,708,976</u></b>	<b><u>86,913,448</u></b>	<b><u>(13,204,472)</u></b>	<b>(15.2)</b>	<b><u>10,200,850</u></b>	<b><u>76,712,598</u></b>	<b>752.0</b>
<b>Deductions</b>							
Benefits paid	34,063,359	32,208,452	1,854,907	5.8	29,712,236	2,496,216	8.4
Refunds of contributions	1,474,949	1,236,567	238,382	19.3	1,131,613	104,954	9.3
Administrative expenses	<u>504,102</u>	<u>458,520</u>	<u>45,582</u>	9.9	<u>397,730</u>	<u>60,790</u>	15.3
<b>Total deductions</b>	<b><u>36,042,410</u></b>	<b><u>33,903,539</u></b>	<b><u>2,138,871</u></b>	<b>6.3</b>	<b><u>31,241,579</u></b>	<b><u>2,661,960</u></b>	<b>8.5</b>
<b>Changes in net position (deficit)</b>	<b><u>37,666,566</u></b>	<b><u>53,009,909</u></b>	<b><u>(15,343,343)</u></b>	<b>(28.9)</b>	<b><u>(21,040,729)</u></b>	<b><u>74,050,638</u></b>	<b>351.9</b>
Beginning net position							
As previously reported	702,133,165	649,123,256	53,009,909	8.2	670,163,985	(21,040,729)	(3.1)
Change in accounting principle	<u>(209,853)</u>	<u>-</u>	<u>(209,853)</u>	100.0	<u>-</u>	<u>-</u>	0.0
As restated	<u>701,923,312</u>	<u>649,123,256</u>	<u>52,800,056</u>	8.1	<u>670,163,985</u>	<u>(21,040,729)</u>	(3.1)
<b>Ending net position</b>	<b><u>\$739,589,878</u></b>	<b><u>\$702,133,165</u></b>	<b><u>\$37,456,713</u></b>	<b>5.3</b>	<b><u>\$649,123,256</u></b>	<b><u>\$53,009,909</u></b>	<b>8.2</b>

Contributions increased \$471 thousand at June 30, 2018, primarily due to an increase in number of enrollees and an increase in the average salary. Contributions decreased \$370 thousand at June 30, 2017 due to a decrease in the employer contribution rate from 5.88% to 5.33% on July 1, 2016. At June 30, 2018, net investment income decreased \$13.68 million primarily due to a decrease in net market value appreciation of \$11.10 million and a decrease in investment interest and dividends of \$2.07 from 2017 to 2018. At June 30, 2017, net investment income increased \$77.05 million primarily due to net market value appreciation of \$75.82 million from 2016 to 2017.

The increase in benefits paid of \$1.85 million at June 30, 2018 and \$2.50 million at June 30, 2017 was due to an increase in the number of retirees and the amount of benefits paid to those retirees. The increases in refunds of contributions of \$238 thousand at June 30, 2018 and \$105 thousand at June 30, 2017 were due to changes in attrition rates.

***Economic Factors***

For the fiscal year ended June 30, 2018, System investments provided a 8.65% return with a net investment gain of \$58.53 million. This is mostly due to increases in emerging market investment returns. For the fiscal year ended June 30, 2017, System investments provided a 11.48% return with a net investment gain of \$72.21 million. In fiscal year 2018, net investment income was equivalent to 7.9% of net position compared to an equivalent of 10.3% in 2017.

**Financial Market Indices**

	<u>2018</u>	<u>2017</u>	2018-2017 Amount of <u>Change</u>	2018-2017 % <u>Change</u>	<u>2016</u>	2017-2016 Amount of <u>Change</u>	2017-2016 % <u>Change</u>
S&P 500	2,718.37	2,423.41	294.96	12.2%	2,098.86	324.55	15.5%
S&P MidCap 400	1,951.67	1,746.65	205.02	11.7	1,496.50	250.15	16.7
S&P SmallCap 600	1,017.38	855.85	161.53	18.9	761.87	93.98	12.3
Dow Jones Industrial Average	24,271.41	21,349.63	2,921.78	13.7	17,929.99	3,419.64	19.1
NASDAQ	7,510.30	6,140.42	1,369.88	22.3	4,842.67	1,297.75	26.8
10 Year Bond Yield (%)	2.85	2.30	0.55	23.9	1.49	0.81	54.4

Diversification of investments is one of the primary means the System uses to moderate risk. The investment section of this report provides details on the types of investments, asset allocation, and investment approach that guide the System's investment decisions. The investment section also contains information on some of the specific investments held and annual return over the last one, three, and five years.

***Contacting the System's Financial Management***

This financial report is designed to provide a general overview of the System finances, comply with finance-related laws and regulations, and demonstrate commitment to public accountability. If you have questions about this report or would like to request additional information, contact the City's Finance Department, Accounting Services Division, at 100 North Walker, Suite 300, Oklahoma City, Oklahoma 73102.

**STATEMENTS OF FIDUCIARY NET POSITION**  
**June 30,**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

	<b>2018</b>	<b>2017</b>
<b><u>ASSETS</u></b>		
<b><u>CASH</u></b>		
Non-pooled cash-----	\$6,353,842	\$4,711,808
<b><u>RECEIVABLES</u></b>		
Interest and dividends-----	1,223,278	1,213,334
Employer-----	295,562	18,323
Plan members-----	336,267	20,821
Other receivables-----	-	33,426
Total receivables-----	<u>1,855,107</u>	<u>1,285,904</u>
<b><u>INVESTMENTS, AT FAIR VALUE</u></b>		
Domestic common stock-----	324,500,885	230,774,221
Passive domestic stock funds-----	-	71,726,630
Government securities/fixed income-----	53,879,937	54,932,146
Passive bond fund-----	75,910,134	75,877,813
International stock-----	181,575,774	168,372,690
Treasury money market fund-----	10,705,980	14,010,800
Commodities-----	26,637,864	23,916,852
Real estate-----	65,243,808	60,263,058
Oklahoma City judgments-----	4,262,085	4,258,103
Total investments-----	<u>742,716,467</u>	<u>704,132,313</u>
<b><u>NET PENSION ASSET</u></b> -----	<u>35,026</u>	<u>-</u>
<b>Total assets</b> -----	<b><u>750,960,442</u></b>	<b><u>710,130,025</u></b>
<b><u>DEFERRED OUTFLOWS</u></b> -----		
	<b><u>42,942</u></b>	<b><u>70,115</u></b>
<b><u>LIABILITIES</u></b>		
Accounts payable-----	874,145	647,178
Due to broker-----	10,127,575	7,237,906
Wages and benefits payable-----	10,180	9,225
Compensated absences, current-----	19,856	21,184
Compensated absences, non-current-----	75,173	67,608
Net pension liability-----	-	1,642
Net OPEB liability-----	260,964	59,490
<b>Total liabilities</b> -----	<b><u>11,367,893</u></b>	<b><u>8,044,233</u></b>
<b><u>DEFERRED INFLOWS</u></b> -----		
	<b><u>45,613</u></b>	<b><u>22,742</u></b>
<b><u>NET POSITION</u></b>		
<b>Restricted for pension and other employee benefits</b> -----	<b><u>\$739,589,878</u></b>	<b><u>\$702,133,165</u></b>

See accompanying notes to financial statements.

**STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION**  
**For the Fiscal Years Ended June 30,**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

	<b>2018</b>	<b>2017</b>
<b><u>ADDITIONS</u></b>		
<b><u>CONTRIBUTIONS</u></b>		
Employer-----	\$7,056,707	\$6,871,464
Plan members-----	8,018,245	7,732,271
<b>Total contributions</b> -----	<b>15,074,952</b>	<b>14,603,735</b>
<b><u>INVESTMENT INCOME</u></b>		
Net appreciation in fair value of investments-----	51,058,090	62,161,932
Interest-----	1,129,447	10,209,928
Dividends-----	9,103,285	2,095,906
	61,290,822	74,467,766
Less: investment expense-----	(2,756,714)	(2,255,032)
<b>Net investment income</b> -----	<b>58,534,108</b>	<b>72,212,734</b>
Other-----	99,916	96,979
<b>Total additions</b> -----	<b>73,708,976</b>	<b>86,913,448</b>
<b><u>DEDUCTIONS</u></b>		
Benefits paid-----	34,063,359	32,208,452
Refunds of pension contributions-----	1,474,949	1,236,567
Administrative expenses-----	504,102	458,520
<b>Total deductions</b> -----	<b>36,042,410</b>	<b>33,903,539</b>
<b>Change in net position</b> -----	<b>37,666,566</b>	<b>53,009,909</b>
<b><u>NET POSITION RESTRICTED FOR PENSIONS</u></b>		
<b><u>AND OTHER EMPLOYEE BENEFITS</u></b>		
Beginning of year, as previously reported-----	702,133,165	649,123,256
Change in accounting principle-----	(209,853)	-
Beginning of year, as restated-----	701,923,312	649,123,256
<b>End of year</b> -----	<b>\$739,589,878</b>	<b>\$702,133,165</b>

See accompanying notes to financial statements.

## I. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

### I. A. INTRODUCTION

The accounting and reporting framework and the more significant accounting principles and practices are discussed in subsequent sections of this note. The remainder of the notes is organized to provide explanations, including required disclosures, of the Oklahoma City Employee Retirement System (System) financial activities for the fiscal years ended June 30, 2018 and 2017.

### I. B. BASIS OF PRESENTATION

#### I. B. 1. REPORTING ENTITY AND RELATIONSHIP TO THE CITY OF OKLAHOMA CITY, OKLAHOMA

The System was authorized and created by the City of Oklahoma City (City) ordinance on January 21, 1958, to hold funds in trust for its members. The purpose of the System is to provide retirement benefits and disability allowances for substantially all full-time, civilian employees of the City and public trusts included in the City's reporting entity. Assets are held separately from the City and may be used only for the payment of benefits to the members. The System administers a single employer defined benefit pension plan (Plan).

The System Board of Trustees (Board) is comprised of thirteen members. The City Council appoints two City employees or department heads from the various City departments. The City Council also appoints three members who have demonstrated professional experience relating to pension fund investment and management practices. The City Clerk serves as an ex-officio member (non-voting) and acts as the Clerk and Secretary of the Board. The City Auditor and Finance Director are members by position. Three members are elected by ballot of active City employees. One member is elected by ballot of retired City employees. The City Treasurer serves as an ex-officio member (non-voting) and acts as the Treasurer of the System.

#### *Method of Reporting in the City's Comprehensive Annual Financial Report (CAFR)*

The System is reported as a fiduciary component unit in the City's CAFR as a pension trust fund included in the City's fiduciary financial statements. This report can be obtained from Accounting Services at 100 N. Walker, Suite 300, Oklahoma City, OK 73102.

#### I. B. 2. BASIC FINANCIAL STATEMENTS

The basic financial statements include the statement of fiduciary net position and statement of changes in fiduciary net position. These statements report financial information of the System as a whole.

#### I. B. 3. MEASUREMENT FOCUS, BASIS OF ACCOUNTING, AND FINANCIAL STATEMENT PRESENTATION

Financial statements of the System are prepared on the accrual basis in accordance with accounting principles generally accepted in the United States (U.S. GAAP). Revenues are recognized when earned and expenses are recorded when incurred regardless of the timing of related cash flows. All assets and liabilities (both current and non-current) are included in the statement of net position. Plan member contributions to the System are recognized in the period in which the contributions are due. Employer contributions are recognized when due and the City has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan.

### **I. C. BUDGET LAW AND PRACTICE**

Oklahoma Statutes require the submission of financial information for public trusts. However, legal budgetary control levels are not specified. Accordingly, financial information for the System is submitted to its governing body. Appropriations are not recorded. Management's policy prohibits disbursements which exceed available cash.

### **I. D. POLICIES RELATED TO ASSETS, DEFERRED OUTFLOWS OF RESOURCES, LIABILITIES, DEFERRED INFLOWS OF RESOURCES**

#### **I. D. 1. CASH AND INVESTMENTS**

Cash equivalents are reported with investments. Cash deposits are reported at carrying value which approximates fair value.

Investments are reported at fair value which is determined using selected bases. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. Market quotations are as of fiscal year end. Managed funds not listed on an established market are reported at estimated fair value as determined by the investment manager based on quoted sales prices of the underlying securities.

Oklahoma City judgments are carried at cost which approximates market value.

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (i.e., the "exit price") in an orderly transaction between market participants at the measurement date.

Accounting guidance establishes a consistent framework for measuring fair value and establishes a fair value hierarchy based on the observability of inputs used to measure fair value. These different levels of valuation hierarchy are described as follows:

Level 1 - Quoted prices in active markets for identical assets or liabilities.

Level 2 - Quoted prices for similar assets or liabilities in active markets or inputs other than quoted prices that are observable.

Level 3 - Significant unobservable prices or inputs.

An investment's categorization within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement.

#### **I. D. 2. DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES**

In addition to assets and liabilities, the statement of fiduciary net position may report separate sections of deferred outflows of resources and deferred inflows of resources. Deferred outflows of resources represent a consumption of net position that applies to a future period which will not be recognized as an outflow of resources until that time. Deferred inflows of resources represent an acquisition of net position that applies to a future period which will not be recognized as an inflow of resources until that time.

### **I. D. 3. COMPENSATED ABSENCES**

Full-time, permanent employees are granted vacation benefits in varying amounts to specified maximums depending on tenure with the City. Sick leave accrues to full-time, permanent employees to specified maximums. Generally, after one year of service, employees are entitled to a percentage of their sick leave balance and all accrued vacation leave upon termination. Selected management employees are entitled to all accrued sick and vacation leave balances at termination. The estimated liabilities include required salary-related payments. Compensated absences are reported as accrued current and non-current liabilities in the financial statements.

### **I. D. 4. USE OF ESTIMATES**

The preparation of the System financial statements in conformity with U.S. GAAP requires the System to make significant estimates and assumptions that affect the reported amounts of net position held in trust for pension benefits at the date of the financial statements. The actuarial information included in the required supplementary information as of the benefit information date, the changes in the fiduciary net position during the reporting period, and applicable disclosures of contingent assets and liabilities at the date of the financial statements could also be affected. Actual results could differ from reported estimates.

Contributions to the System and the actuarial information included in the required supplementary information are determined from certain assumptions pertaining to interest rates, inflation rates, and employee compensation and demographics. Due to the changing nature of these assumptions, it is at least reasonably possible that changes in these assumptions may occur in the near term and, due to the uncertainties inherent in setting assumptions, that the effects of such changes could be material to the financial statements. In addition, due to the unpredictability of market performance, there are risks and uncertainties regarding future investment performance.

### **I. D. 5. RISK MANAGEMENT**

The System's risk management activities are recorded in the City Risk Management Fund, the Oklahoma City Municipal Facilities Authority (OCMFA) Services Fund and the Oklahoma City Post-Employment Benefit Trust (OCPEBT). The purpose of these funds is to administer employee life, employee health, unemployment, and disability insurance programs of the City, in which the System participates. These funds account for the risk financing activities of the System and constitute a transfer of risk from the System. Retiree health insurance claims liabilities are reported in OCPEBT.

The System pays a premium for insurance coverage and has no further costs or liabilities. Costs and liabilities for commercial insurance, stop-loss insurance, and claims paid are recorded in the City Risk Management Fund, the OCMFA Services Fund, and OCPEBT.

The System participates in the State of Oklahoma workers' compensation insurance plan, CompSource, Oklahoma.

### **I. E. TAX STATUS**

The Internal Revenue Service has determined and informed the System by a letter dated November 12, 2014, that the System is designed in accordance with applicable sections 401(a) of the Internal Revenue Code (Code). The Board believes that the System is designed and is currently being operated in compliance with the applicable requirements of the Code.

II. ASSETS

II. A. DEPOSITS AND INVESTMENTS

*Deposits*

Custodial credit risk for deposits is the risk that in the event of a bank failure, the System deposits may not be returned or the System will not be able to recover collateral securities in the possession of an outside party. The System policy does not formally address custodial credit risk for deposits. However, the investment policy restricts uninvested cash to minimal balances generally covered by Federal deposit insurance.

At June 30, 2018 and 2017, the System's cash is collateralized with securities held by the pledging financial institution in the name of the System or the City, less Federal depository insurance.

*Investments*

The System invests in various investment securities. Investment securities are exposed to various risks such as interest rate risk and credit risk. 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 System's financial position.

	2018						
	Cost	Fair Value/ Carrying Amount (1)	Level 1 Inputs	Level 2 Inputs	Level 3 Inputs	Measured at NAV (2)	Effective Duration (3)
<u>COMMON STOCK</u>							
Domestic	\$128,621,511	\$174,552,443	\$168,008,375	\$6,544,068	\$ -	\$ -	N/A
International (4)	2,332,610	3,382,110	3,382,110	-	-	-	N/A
<u>GOVERNMENT SECURITIES</u>							
U.S. Treasury bonds	9,694,653	9,636,769	-	9,636,769	-	-	14.60
U.S. Treasury TIPS	300,427	326,653	-	326,653	-	-	15.50
Federal agency notes	15,527,521	14,914,460	-	14,914,460	-	-	5.40
Ginnie Mae	5,999,296	5,906,338	-	5,906,338	-	-	4.10
Small Business							
Administration Loans	631,299	621,154	-	621,154	-	-	7.50
<u>CORPORATE OBLIGATIONS</u>							
Domestic	13,445,945	13,436,013	-	13,436,013	-	-	7.50
International (4)	5,191,409	5,142,344	-	5,142,344	-	-	7.10
<u>MUTUAL FUNDS</u>							
Equity (4)	123,176,520	211,403,523	64,850,425	35,607,525	-	110,945,573	N/A
Bond	65,493,279	75,910,134	-	-	-	75,910,134	4.10
Real estate investment trusts	51,526,292	65,243,808	-	1,322,219	-	63,921,589	N/A
Other	116,400,089	134,301,638	-	2,208,163	-	132,093,475	N/A
<u>OTHER INVESTMENTS</u>							
Money market (5)(6)	10,705,842	10,705,842	-	10,705,842	-	-	1.70
Foreign government obligations	1,638,581	1,634,557	-	1,634,557	-	-	8.80
Oklahoma City judgments (5)	4,262,085	4,262,085	-	-	-	-	4.00
Asset backed obligations	<u>11,536,066</u>	<u>11,336,596</u>	<u>-</u>	<u>11,336,596</u>	<u>-</u>	<u>-</u>	6.20
	<b><u>\$566,483,425</u></b>	<b><u>\$742,716,467</u></b>	<b><u>\$236,240,910</u></b>	<b><u>\$119,342,701</u></b>	<b><u>\$-</u></b>	<b><u>\$382,870,771</u></b>	

(continued)



*Investments (continued)*

	2017						
	Cost	Fair Value/ Carrying Amount (1)	Level 1 Inputs	Level 2 Inputs	Level 3 Inputs	Measured at NAV (2)	Effective Duration (3)
<u>COMMON STOCK</u>							
Domestic	\$125,070,404	\$167,728,768	\$160,412,354	\$7,316,414	\$ -	\$ -	N/A
International (4)	1,758,735	2,473,483	2,473,483	-	-	-	N/A
<u>GOVERNMENT SECURITIES</u>							
U.S. Treasury bonds	13,667,979	13,856,745	-	13,856,745	-	-	0.17
U.S. Treasury TIPS	2,780,095	2,829,013	-	2,829,013	-	-	0.08
Federal agency notes	14,444,123	14,016,790	-	14,016,790	-	-	0.04
Ginnie Mae	3,357,070	3,283,936	-	3,283,936	-	-	0.05
Small Business							
Administration Loans	43,262	42,877	-	42,877	-	-	0.07
<u>CORPORATE OBLIGATIONS</u>							
Domestic	11,716,634	12,358,394	-	12,358,141	-	253	0.08
International (4)	4,265,181	4,431,599	-	4,431,599	-	-	0.02
<u>MUTUAL FUNDS</u>							
Equity (4)	123,149,286	191,295,900	58,217,472	32,818,495	-	100,259,933	N/A
Bond	65,381,640	75,877,811	-	-	-	75,877,811	N/A
Real estate investment trusts	47,613,868	60,263,058	-	-	-	60,263,058	N/A
Other	120,408,648	132,129,143	20,742	6,031,854	-	126,076,546	N/A
<u>OTHER INVESTMENTS</u>							
Money market (5)(6)	9,050,660	9,050,660	9,050,660	-	-	-	0.12
Foreign government obligations	1,606,946	1,728,279	-	1,728,279	-	-	0.10
Oklahoma City judgments (5)	4,258,103	4,258,103	-	-	-	-	4.00
Asset backed obligations	<u>8,655,745</u>	<u>8,507,754</u>	<u>-</u>	<u>8,507,754</u>	<u>-</u>	<u>-</u>	0.04
	<b><u>\$557,228,379</u></b>	<b><u>\$704,132,313</u></b>	<b><u>\$230,174,711</u></b>	<b><u>\$107,221,897</u></b>	<b><u>\$-</u></b>	<b><u>\$362,477,601</u></b>	

- (1) Financial statement presentation is based on investment policy definitions, therefore individual line items will not agree to the statement of fiduciary net position.
- (2) The net asset value (NAV) is used as a practical expedient to estimate fair value. NAV is explained further in the paragraphs below.
- (3) Interest rate risk is estimated using effective duration in months for investment types listed except for the money market fund and judgments which uses weighted average months to maturity.
- (4) These line items include foreign investments.
- (5) Cost approximates fair value.
- (6) Consists solely of U.S. Treasury securities.

**Fair Value Measurement**

The following is a description of the valuation methodologies used for assets measured at fair value in the tables above. There have been no changes in the methodologies used at June 30, 2018 and 2017.

An investment's categorization within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Money market funds are reported at cost which approximates fair value, are traded on active markets at quoted prices, and are valued at level 1. Judgments and certificates of deposit fair value approximates cost and therefore do not report a fair value measurement.

*(continued)*

***Fair Value Measurement (continued)***

Government securities include U.S. Treasury obligations consisting of U.S. Treasury strips, U.S. Treasury bonds, U.S. treasury TIPS, and federal agency notes, Government National Mortgage Associations notes, and Small Business Administration loans. These securities are valued at level 2 using pricing models that maximize the use of observable inputs for similar securities.

Corporate obligations consist of domestic and international corporate bonds and are valued using pricing models maximizing the use of observable inputs for similar securities which includes basing value on yields currently available on comparable securities of issuers with similar credit ratings. Corporate bonds are valued at level 2.

Foreign government obligations and asset backed obligations are valued by the use of inputs of quoted prices of similar securities and are valued at level 2.

The System invests in various mutual funds including equity funds, bond funds, and outside common trust funds. Mutual funds are valued at the daily closing price as reported by the fund. Mutual funds held by the System include open-end mutual funds which are valued at net asset value (NAV) using the current value of all investments, less operating expenses, divided by the number of shares held. Other mutual funds are valued at the required published daily value and transaction price and reported at level 1. The mutual funds held by the System are deemed to be actively traded.

The System invests in commingled funds and limited partnerships which are valued at NAV. The NAV, as provided by the trustee, is used as a practical expedient to estimate fair value. The NAV is based on the fair value of the underlying investments held by the fund and other various methods are used to value these securities. The investment objectives are described in the tables and paragraphs in greater detail below.

**Investments measured at the NAV**

The following tables summarize investments measured at fair value based on net asset value (NAVs) per share as of June 30, 2018 and 2017, respectively.

	<b>2018</b>			
	Fair Value	Unfunded Commitments	Redemption Frequency (if currently eligible)	Redemption Notice Period
<u>COMMINGLED FUNDS</u>				
US Large Cap Core	\$82,047,761	\$ -	Daily	T/D-2
Long/Short Equity	70,958,560	-	Quarterly	60 days
Core Fixed Income	21,138,866	-	Daily	T/D-2
Core Plus Fixed Income	8,109,333	-	Daily	T/D-2
Absolute Return	34,497,051	-	Quarterly	90 days
Global Opportunistic Fixed Income	46,661,935	-	Daily	T/D-2
Core Real Estate	60,775,110	-	Quarterly	90 days
Commodities	26,637,864	-	Daily	N/A
<u>LIMITED PARTNERSHIPS</u>				
<u>-PRIVATE EQUITY</u>				
Warburg Pincus	11,482,374	-	Not Eligible	Not Eligible
Siguler Guff	911,019	-	Not Eligible	Not Eligible
Mesirow	16,504,419	-	Not Eligible	Not Eligible
<u>LIMITED PARTNERSHIPS</u>				
<u>REAL ESTATE</u>				
TA Realty	3,146,479	-	Not Eligible	Not Eligible
Total Investments	<b><u>\$382,870,771</u></b>	<b><u>\$-</u></b>		

(continued)

*Investments measured at the NAV (continued)*

	2017			
Fair Value	Unfunded Commitments	Redemption Frequency (if currently eligible)	Redemption Notice Period	
<u>COMMINGLED FUNDS</u>				
US Large Cap Core	\$71,726,377	\$ -	Daily	T/D-2
Long/Short Equity	68,703,618	-	Quarterly	91 days
Emerging Markets Local Debt	1,771,153	-	Daily	N/A
Floating Rate High Income	2,852,877	-	Daily	N/A
Non-Dollar Hedged	663,525	-	Daily	N/A
Opportunistic US\$				
High Yield Securities	2,699,395	-	Daily	N/A
Core Fixed Income	21,218,764	-	Daily	T/D-2
Absolute Return	33,456,329	-	Quarterly	90 days
Global Opportunistic Fixed Income	46,672,096	-	Daily	10 days
Core Real Estate	56,072,433	-	Quarterly	90 days
Commodities	23,916,853	-	Daily	N/A
<u>LIMITED PARTNERSHIPS</u>				
<u>-PRIVATE EQUITY</u>				
Warburg Pincus	10,124,594	-	Not Eligible	Not Eligible
Siguler Guff	1,307,611	-	Not Eligible	Not Eligible
Mesirow	17,101,351	-	Not Eligible	Not Eligible
<u>LIMITED PARTNERSHIPS</u>				
<u>REAL ESTATE</u>				
TA Realty	4,190,625	-	Not Eligible	Not Eligible
Total Investments	<u>\$362,477,601</u>	<u>\$-</u>		

Commingled Funds

SSgA S&P Flagship Fund Non-Lending (U.S. Large Cap Core):

The investment objective of the fund is to approximate as closely as practicable, before expenses, the performance of the S&P 500 Index over the long term. The fund invests primarily in long term common stocks. Other investments include government issues, derivatives, and futures contracts.

K2 Overseas Fund (Long/Short Equity):

The investment objective of the fund is to achieve superior investment returns with less volatility than the Standard & Poor's 500 Composite Stock Index over a full market cycle by investing in a broadly diversified portfolio of hedge funds, other investment entities, and/or separate accounts, which engage in a variety of investment strategies that include long/short equity, equity market neutral, catalyst driven equity, or other similar hedge fund strategies. If redemption requests are received as of any redemption date for more than 20% of the net asset value of the fund as of such redemption date, the directors may, at their sole discretion; (i) satisfy all of such redemptions, or (ii) reduce all redemption requests pro-rata so that no more than 20% of the net asset value of the fund is redeemed as of such redemption date. The fund was formed on May 1, 2003, and commenced operations on March 1, 2004.

Western Asset Management Core Plus Fixed Income (Emerging Markets Local Debt):

The investment strategy of the fund, under normal market conditions, is to invest all or substantially all of its assets in lower-rated debt and other fixed income securities of non-U.S. issuers. Although the fund may invest in any country, it generally expects to invest a significant portion of its assets in the non-U.S. dollar denominated sovereign debt issued by emerging market countries and in fixed income securities of other issuers (including corporate issuers) located in such countries and supranational issuers that issue fixed income securities in the currency of such countries. The objective of the fund is to maximize total return, consistent with prudent investment management. The fund reserves the right to implement a redemption notice period. A notice period is currently not in place. The fund was incepted on May 30, 2006, and a termination date has not been determined.

**Western Asset Management Core Plus Fixed Income (Floating Rate High Income):**

The investment strategy of the fund, under normal market conditions, is to invest at least 80% of its total assets in U.S. dollar denominated loans, loan participations and fixed income securities that are rated below investment grade at the time of purchase by one or more nationally recognized statistical organizations or are of a comparable quality as determined by the investment manager. The objective of the fund is to maximize total return. The fund reserves the right to implement a redemption notice period. A notice period is currently not in place. The fund was inceptioned on August 12, 2003, and a termination date has not been determined.

**Western Asset Management Core Plus Fixed Income (Non-Dollar Hedged):**

The investment strategy of the fund, under normal market conditions, is to invest substantially all of its assets in non-U.S. dollar denominated debt and fixed income securities of foreign issuers, while hedging at least 75% of its foreign currency exposure. The objective of the fund is to maximize total return. The fund reserves the right to implement a redemption notice period. A notice period is currently not in place. The fund was inceptioned on September 3, 1997, and a termination date has not been determined.

**Western Asset Management Core Plus Fixed Income (Opportunistic US\$ High Yield Securities):**

The investment strategy of the fund, under normal market conditions, is to invest at least 90% of its total assets in U.S. dollar denominated debt or fixed income securities that are rated below investment grade at the time of purchase by one or more nationally recognized statistical organizations or are of comparable quality as determined by the investment manager. The objective of the fund is to maximize total return. The fund reserves the right to implement a 15 day redemption notice period. A notice period is currently not in place. The fund was inceptioned on September 15, 1999, and a termination date has not been determined.

**SSgA Bond Market Non-Lending Fund (Core Fixed Income):**

The investment objective of the fund is to approximate as closely as practicable, before expenses, the performance of the Barclays U.S. Aggregate Bond Index over the long term. The fund attempts to achieve its investment objective by investing in other collective investment funds, each an underlying fund, managed by the trustee, which have characteristics consistent with the fund's overall investment objective.

**PAAMCO (Absolute Return):**

PAAMCO consists of Pacific Hedged Strategies, LLC, which on June 1, 2004, transferred substantially all of its investment holdings to the Pacific Atlantic Master Fund, L.P. (Master Fund) in exchange for an ownership percentage in that fund. A related party, Pacific Alternative Asset Management Company, LLC serves as the investment manager of the company and the Master Fund. The objective is to seek capital appreciation with a risk-adjusted rate of return over a complete market cycle. The Master Fund may allocate substantially all of its assets across a variety of private investment vehicles (hedge funds), generally with fixed income and equity orientations, covering many different investment styles. Pacific Hedged Strategies, LLC was inceptioned April 25, 2000, and commenced operations on November 1, 2011. A termination date of the fund has not been established.

**Brandywine (Global Opportunistic Fixed Income):**

The investment objective of the fund is to achieve interest income and long-term capital appreciation by investing in U.S. fixed income instruments and non-U.S. developed and emerging markets sovereign debt securities. The fund concentrates its investments in bonds of countries having the best value in the form of high real interest rates. The Brandywine Global Investment Management Trust was organized on May 1, 2006, with an agreement permitting the investment advisor to create multiple funds. The fund is currently one of eight active funds in the investment trust. The trust will continue until May 1, 2056, unless sooner terminated upon the occurrence of any of the following: (1) resignation or removal of the trustee when no successor trustee is appointed, (2) termination of all the funds of the trust.

**Prime Property Fund (Core Real Estate):**

The fund is a core commingled real estate investment fund. The fund invests in high quality, well leased and strategically located U.S. properties. The fund seeks to achieve an aggregate long term annual return on investment equity of 8-10% with the majority of the return being realized from income, with modest appreciation, and using leverage when appropriate. Morgan Stanley Real Estate Advisor, Inc. serves as the sponsor and advisor of the fund. Redemptions are subject to available cash.

Gresham TAP Fund (Commodities):

The investment objectives of the fund are to provide an investor's portfolio of financial investments a partial inflation hedge, with an attractive risk/return profile as compared to other products using a commodity index or a pool of commodities. The fund commenced operations on March 1, 2011. A termination date of the fund has not been established.

Limited Partnerships - Private Equity

Warburg Pincus:

Investments consist of Warburg Pincus Private Equity XI, operations effective May 9, 2012, and Warburg Pincus Private Equity XII, operations effective December 1, 2015, both with the purpose to make private equity investments and help build durable companies with sustainable value. Each fund provides for a 12 year partnership life. With approval of the advisory committee, each fund may extend the partnership term up to two additional years. Each fund may be dissolved earlier upon specific events, as provided for in the respective partnership agreement.

Siguler Guff:

The purpose of the Siguler Guff Distressed Opportunities Fund III is to invest in pooled investment vehicles and direct investments consisting of direct or indirect securities of companies undergoing financial distress, operating difficulties and significant restructuring. The partnership's portfolio investments are generally illiquid. The partnership was formed on October 18, 2007. The term of the fund will continue until December 31, 2018, unless dissolved earlier in accordance with fund agreements. The term may be extended for up to three additional years with the consent of the advisory board.

Mesirow:

The purpose of the Mesirow Financial Private Equity Partnership Fund V is to invest in private equity limited partnerships. The fund was formed on November 5, 2008, and terminates on November 5, 2020. Provisions allow for three one-year extensions to provide for orderly liquidation of remaining assets.

Limited Partnerships - Real Estate

TA Realty:

The fund is organized for the purpose of investing in a diversified portfolio of income-producing real estate investment properties. The fund extends seven years from October 7, 2014, the date the capital commitments were substantially invested, unless extended longer or terminated earlier, as provided in the amended and restated partnership agreement dated January 10, 2013. The fund has invested in a geographically diversified portfolio of real estate investments, principally office, industrial, multifamily and retail properties. There are no further capital commitments to the fund.

**Credit Risk**

Ratings represent the System exposure to credit risk including obligations of the U.S. government and those explicitly guaranteed by the U.S. government. Money market funds are rated AAA/Aaa in 2018 and 2017.

	2018										
	<u>AAA</u>	<u>AA</u>	<u>A</u>	<u>BBB</u>	<u>BB</u>	<u>B</u>	<u>CCC</u>	<u>CC</u>	<u>D</u>	Not <u>Rated</u>	<u>N/A</u>
<u>GOVERNMENT SECURITIES</u>											
U.S. Treasury bonds	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
U.S. Treasury TIPS	0	100	0	0	0	0	0	0	0	0	0
Federal agency notes (1)	1	5	94	0	0	0	0	0	0	0	0
Ginnie Mae (1)	0	0	100	0	0	0	0	0	0	0	0
Small Business											
Administration Loans (1)	0	35	65	0	0	0	0	0	0	0	0
<u>CORPORATE OBLIGATIONS</u>											
Domestic	4	8	24	64	0	0	0	0	0	0	0
International	0	1	34	50	15	0	0	0	0	0	0
<u>MUTUAL FUNDS</u>											
Bond	0	29	61	2	8	0	0	0	0	0	0
<u>OTHER INVESTMENTS</u>											
Asset backed obligations	46	31	11	7	0	0	1	4	0	0	0
Money market fund	100	0	0	0	0	0	0	0	0	0	0
Foreign government obligations	0	0	12	70	18	0	0	0	0	0	0

(continued)

*Credit Risk (continued)*

	2017										
	AAA	AA	A	BBB	BB	B	CCC	CC	D	Not Rated	N/A
<u>GOVERNMENT SECURITIES</u>											
U.S. Treasury bonds	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%
U.S. Treasury TIPS	0	100	0	0	0	0	0	0	0	0	0
Federal agency notes (1)	0	0	100	0	0	0	0	0	0	0	0
Ginnie Mae (1)	0	4	96	0	0	0	0	0	0	0	0
Small Business											
Administration Loans (1)	0	0	100	0	0	0	0	0	0	0	0
<u>CORPORATE OBLIGATIONS</u>											
Domestic	3	8	26	59	4	0	0	0	0	0	0
International	0	2	59	36	3	0	0	0	0	0	0
<u>MUTUAL FUNDS</u>											
Bond	0	29	62	2	7	0	0	0	0	0	0
<u>OTHER INVESTMENTS</u>											
Asset backed obligations	40	26	14	13	1	0	1	5	0	0	0
Foreign government obligations	0	0	0	76	24	0	0	0	0	0	0

(1) Below is the list of agencies in which the government is currently invested

	2018	2017
Federal Home Loan Mortgage Corporation	\$4,421,929	\$4,985,445
Fannie Mae	10,492,531	9,031,345
Ginnie Mae	5,906,338	3,283,936
Small Business Administration Guaranteed Development	621,154	42,877
U. S. Treasury	9,963,422	16,685,758

**Foreign Investments**

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment. In 2018 and 2017, the System does not have any individual investments held in a foreign currency.

**Realized Gains/losses**

For the year ended June 30, 2018, net realized gains were \$21,713,522 compared to net realized gains of \$23,194,713 in 2017. Net realized gains are calculated independently of the calculation of net appreciation (depreciation) and include investments sold in the referenced year that had been held for more than one year for which unrealized gains and losses were reported in net appreciation (depreciation) in prior years.

**Investment Policies**

The System investment policies provide for investment managers who have full discretion of assets allocated to them subject to the overall investment guidelines set out in the policy. Manager performance is reviewed by a consultant who provides reports to the Board. Any changes in the investment management firm must be reported as they occur. Overall investment guidelines provide for diversification and allow investment in domestic and international common stocks, fixed income securities, cash equivalents, index funds, collective trust funds, mutual funds, and City judgments.

Custodial credit risk policy provides for the engagement of a custodian who accepts possession of securities for safekeeping; collects and disburses income; collects principal of sold, matured, or called items; and provides periodic accounting to the Board. The System holds \$506,076,659 in equity funds at June 30, 2018, compared to \$470,873,541 at June 30, 2017. Of these amounts \$176,233,040 in 2018 and \$146,903,931 in 2017 are held by the investment counterparty, not in the name of the System or the City.

**Asset Allocation Guidelines**

	<u>Minimum</u>	<u>Target</u>	<u>Maximum</u>	<u>Actual (1) (2)</u>	
				<u>2018</u>	<u>2017</u>
Equities	55.0%	55.0%	57.5%	54.3%	53.9%
Private equities	0.0	5.0	7.5	8.8	4.2
Fixed income (3)	20.0	25.0	30.0	24.4	25.6
Real assets	10.0	15.0	20.0	12.4	12.1

- (1) Percentages are based on investment policy definitions.
- (2) Percentage allocations are intended to serve as guidelines; the System Board is not required to strictly maintain the designed allocation. Market conditions or an investment transition may require an interim investment strategy and a temporary imbalance in asset mix.
- (3) Fixed income includes cash.

The System policy provides risk parameters for various portfolio compositions. These address credit risk, concentration of credit risk, interest rate risk, and foreign currency risk applicable to the portfolio. The System contractually delegates portfolio management to investment managers based on these prescribed portfolio structures. Domestic equity securities (common stock or equivalent) must be traded on a major U.S. exchange and may include issues convertible to common stocks. International equity securities are non-U.S. issuances whose principal markets are outside the U.S. In general, cash may not exceed more than 10% of any equity manager's portfolio.

**Portfolio Parameters**

Large Cap Domestic Portfolio

Investment in equity securities may not exceed 10% of an individual equity, 10% of the market value of the individual portfolio, or 10% of any company's outstanding equity.

Small/Mid Cap Portfolio

Investment in equity securities may not exceed 5% of an individual equity, 10% of the market value of the individual portfolio, or 5% of any company's outstanding equity.

International Portfolio

Investment policy designates that no single stock may exceed 5% of the market value of the individual portfolio or 5% of any company's outstanding equity. Cash assets may be invested in short-term fixed income investments denominated in U.S. dollars or other foreign currencies. Fixed income should not exceed 10% of the individual portfolio.

Emerging Markets Portfolio

Investment policy designates that no single stock may exceed 5% of the market value of the individual portfolio or 5% of any company's outstanding equity. Cash should not exceed 10% of the individual portfolio.

Long Short Equity Portfolio

This portfolio will be implemented through a fund of funds approach. Equity oriented strategies shall include primarily fundamental long/short equity managers, but may include other primarily equity oriented strategies at the managers discretion.

Private Equity and Venture Capital Portfolio

Within the Private Equity/Venture Capital investment portfolio, the following securities and/or strategies may be included: Seed, Early, and Late Stage Venture Capital; Small, Mid and Large Market Buyout; Mezzanine Debt; and Distressed Debt. Other strategies that improve the potential risk/reward profile may be included.

Core Fixed Income Portfolio

Investments may include any amount of U.S. government or U.S. government agencies obligations. Corporate bonds are diversified by industry and no more than 5% of any issuer. Mortgages and mortgage-backed securities are permitted. Bonds must have a minimum quality rating of BBB with overall portfolio average credit quality of AA or higher. International bonds may not exceed 20% of an individual portfolio and no more than 5% may be invested in one country. Convertible securities or preferred stock may not exceed 5% of the portfolio. Average option adjusted duration of the portfolio shall approximate the option adjusted duration of the relevant benchmark designated as the Barclays Capital Aggregate Bond Index.

Core Plus Fixed Income Portfolio

Income investment is structured to include 75-100% domestic securities and 0-25% high yield, emerging market, non-dollar securities which may include below investment grade corporate bonds. Other provisions are similar to the core fixed income portfolio with exceptions for bonds limited to 2% and neither cash or structured notes, as individual investment types, may exceed 5% of the total portfolio. Derivatives may be used on a limited basis to eliminate undesirable risk. No more than 5% of the portfolio will be invested in original futures margin and option premiums. Swap contracts may be executed with counterparties whose credit rating is A2/A or better. Average option adjusted duration of the portfolio shall approximate the option adjusted duration of the relevant benchmark designated as the Barclays Capital Aggregate Bond Index, within a band of plus or minus 20%. On an ongoing basis, cash should not exceed 5% of the portfolio.

Low Volatility Hedge Fund of Funds

This portfolio will be implemented through a fund of funds approach. The portfolio is intended to serve as a surrogate to traditional fixed income and maintain a volatility profile similar to the Barclays Capital Aggregate Bond Index. The portfolio may include various relative value, event driven and market neutral oriented hedge fund strategies all at the manager's discretion.

Real Estate Manager

The manager may invest in real estate and related securities permitted under Oklahoma Law including improved or unimproved retail property, mortgages, and collective investment funds including Real Estate Investment Trusts or Real Estate Funds, notes secured by real property, mortgage-backed bonds and pass through securities backed by mortgages. Investments in real estate properties will be broadly diversified by geography, by property type and the number of properties.

**Compliance with State Requirements**

The System investment policy is more restrictive than the requirements of Oklahoma law found in Title 60 of the Oklahoma Statutes and the standards of the Oklahoma Uniform Prudent Investor Act. These statutes restrict public trust investing to the Prudent Investor Rule defined by Title 60 Oklahoma Statutes to consider the purposes, terms, distribution requirements, and other circumstances of the Trust and to exercise reasonable care, skill, and caution. Investment decisions must be evaluated not in isolation, but in the context of the trust portfolio as a whole and as a part of the overall investment strategy having risk and return objectives reasonably suited to the Trust.

**Securities Lending Transactions**

City ordinance and the Board of Trustees permit the System to lend securities with a simultaneous agreement to return collateral for the same securities in the future with agent indemnification in the event of borrower default. Securities lent may consist of both equity and fixed income securities. Collateral may consist of cash or securities issued or guaranteed by the U.S. government or its agencies. The System may use or invest cash collateral at its own risk. However, collateral other than cash may not be pledged, sold, or otherwise transferred without borrower default.

At June 30, 2018 the System has no credit risk exposure to borrowers because the amounts the System owes the borrowers exceed the amounts the borrowers owe the System. The contract with the lending agent requires them to indemnify the System if the borrowers fail to return the securities (and if the collateral is inadequate to replace the securities lent) or fail to pay the System for income distributions by the securities' issuers while the securities are on loan. Custodial credit risk for securities lending transactions is included in the previous discussion of the System policy.

**Derivatives**

The System's derivative position currently includes interest rate swaps, foreign currency forwards, index swaps, treasury bond futures and swaptions. The System is exposed to credit risk on hedging derivative instruments that are in asset positions. In the System's investment policy, derivatives may be used to reduce or eliminate undesirable portfolio risks caused by currency exposure, duration and yield curve position. Derivatives may not be used to create exposure to an asset class that is not permitted by portfolio guidelines. At June 30, 2018 and 2017, derivative investments comprise less than .5% of the System's portfolio.



**II. B. CONTRIBUTIONS RECEIVABLE**

	<u>2018</u>			<u>2017</u>
	<u>Employee</u>	<u>Employer</u>	<u>Total</u>	<u>Total</u>
City General Fund	\$140,534	\$123,523	\$264,057	\$16,360
City Parking Fund	799	702	1,501	97
City Police Fund	4,090	3,595	7,685	380
City Fire Fund	732	592	1,324	98
City Emergency Management Fund	11,542	10,145	21,687	1,278
City Airports Fund	17,517	15,396	32,913	2,058
City Fleet Services Fund	3,818	3,356	7,174	459
City Risk Management Fund	1,184	1,040	2,224	105
City Information Technology Fund	18,384	16,159	34,543	1,927
City Print Shop Fund	380	334	714	47
City Maps Operations Fund	253	274	527	447
City Solid Waste Management Fund	12,564	11,042	23,606	1,549
City Water Utilities Fund	46,257	40,658	86,915	9,293
City Stormwater Drainage Fund	45,753	40,214	85,967	1,694
Police/Fire Equipment Use Tax Fund	-	-	-	-
City Grants Management Fund	3,105	2,730	5,835	389
System	471	414	885	53
Oklahoma City Public Property Authority - Golf Courses	4,995	4,390	9,385	679
Juvenile Justice Fund	994	874	1,868	-
City Transportation Fund	4,313	3,791	8,104	431
City and Schools Sales Tax Fund	3,643	3,202	6,845	53
Oklahoma City Zoo Trust	<u>14,939</u>	<u>13,131</u>	<u>28,070</u>	<u>1,747</u>
	<u>\$336,267</u>	<u>\$295,562</u>	<u>\$631,829</u>	<u>\$39,144</u>

There are no receivables older than thirty days.

***Other Accounts Receivable***

At June 30, 2018 there is no other accounts receivable. At June 30, 2017, there was \$33,426 in other accounts receivable. This is due from the City for management of the City's deferred compensation and defined contribution single employer pension plans.

**II. C. NET PENSION ASSETS**

The System share of the net pension asset is allocated using the System's share of employer contributions for the last payroll in the fiscal year. The System share for 2018 was .14%. A net pension liability was reported for 2017.

	<u>2018</u>
Actuarial valuation date	12/31/16
Rolled forward to date	6/30/17
Total	\$25,018,531
System share	\$35,026

**II. D. PENSION DEFERRED OUTFLOWS**

Differences are deferred when the pension system's actuarial estimate of the plan's experience costs for a given period differ from the actual experience costs. Deferred outflows that result from plan experience differences are divided by the beginning expected remaining service life of its members and amortized over that period, with the current year amount included in the determination of pension expense. Differences are also calculated and recorded as deferred outflows when actual investment earnings exceed estimated investment earnings. This amount is amortized over a fixed 5 year period for each unique fiscal year. Current year employee contributions are deferred and included in the following year net pension liability calculation.

	<u>2018</u>		<u>2017</u>	
	Total Plan	System Share	Total Plan	System Share
Current year contributions - Employer	\$7,056,707	\$9,879	\$6,853,993	\$9,596
Differences between projected and actual investment earnings on Plan investments	11,866,229	16,613	37,021,084	51,830
Change in assumptions	<u>5,140,925</u>	<u>7,197</u>	<u>6,206,446</u>	<u>8,689</u>
	<u>\$24,063,861</u>	<u>\$33,689</u>	<u>\$50,081,523</u>	<u>\$70,115</u>

**II. E. OTHER POST-EMPLOYMENT BENEFITS (OPEB) DEFERRED OUTFLOWS**

Differences are deferred when the OPEB system's actuarial estimate of the plan's experience costs for a given period differ from the actual experience costs. Differences are also calculated and recorded as deferred outflows when actual investment earnings exceed estimated investment earnings. This amount is amortized over a fixed 5 year period for each unique fiscal year. Current year employee contributions are deferred and included in the following year net OPEB liability calculation.

	<u>2018</u>	
	Total Plan	System Share
Current year contributions - Employer	\$14,562,836	\$7,281
Investment projected vs actual	<u>3,943,180</u>	<u>1,972</u>
OPEB deferred outflows	<u>\$18,506,016</u>	<u>\$9,253</u>

**III. LIABILITIES AND DEFERRED INFLOWS**

**III. A. COMPENSATED ABSENCES**

Compensated absences balances changed from 2017 to 2018 by accruals of \$24,682 and usages of \$18,445 compared to changes in accruals of \$22,257 and usages of \$19,679 from 2016 to 2017.

**III. B. NET PENSION LIABILITY**

The System share of the net pension liability is allocated using the System's share of employer contributions for the last payroll in the fiscal year. The System share for 2017 was .14%. A net pension asset was reported for 2018.

	<u>2017</u>
Actuarial valuation date	12/31/15
Rolled forward to date	6/30/16
Total	\$1,173,138
System share	\$1,642

**III. C. NET OPEB LIABILITY**

The System share of the net OPEB liability is allocated using the System's share of full-time employees for the last payroll in the fiscal year. The System share for 2018 is .05%.

	<b><u>2018</u></b>
Actuarial valuation date	6/30/17
Total	\$521,927,864
System share	\$260,964

**III. D. PENSION DEFERRED INFLOWS**

Differences are deferred when the pension system's actuarial estimate of the plan's experience costs for a given period differ from the actual experience costs. Deferred outflows that result from plan experience differences are divided by the beginning expected remaining service life of its members and amortized over that period, with the current year amount included in the determination of pension expense.

	<u>2018</u>		<u>2017</u>	
	Total	System	Total	System
	<u>Plan</u>	<u>Share</u>	<u>Plan</u>	<u>Share</u>
Differences between expected and actual pension plan experience	<u>\$16,418,156</u>	<u>\$22,985</u>	<u>\$16,244,126</u>	<u>\$22,742</u>
	<b><u>\$16,418,156</u></b>	<b><u>\$22,985</u></b>	<b><u>\$16,244,126</u></b>	<b><u>\$22,742</u></b>

**III. E. OPEB DEFERRED INFLOWS**

Differences are deferred when the OPEB system's actuarial estimate of the plan's experience costs for a given period differ from the actual experience costs. Deferred inflows that result from plan experience differences and changes in assumptions are divided by the beginning expected remaining service life of its members and amortized over that period, with the current year amount included in the determination of the OPEB expenses.

	<u>2018</u>	
	Total	System
	<u>Plan</u>	<u>Share</u>
Differences between expected and actual OPEB plan experience	\$1,518,042	\$759
Change in assumptions	<u>43,737,688</u>	<u>21,869</u>
	<b><u>\$45,255,730</u></b>	<b><u>\$22,628</u></b>

**IV. A. BENEFITS PAID**

*Benefits Paid*

	<u>2018</u>	<u>2017</u>
Pension	\$33,870,859	\$32,038,452
Death	<u>192,500</u>	<u>170,000</u>
	<b><u>\$34,063,359</u></b>	<b><u>\$32,208,452</u></b>

IV. B. PENSION EXPENSE

<u>2018</u>		<u>2017</u>	
Total	System	Total	System
<u>Plan</u>	<u>Share</u>	<u>Plan</u>	<u>Share</u>
<b><u>\$7,074,201</u></b>	<b><u>\$9,904</u></b>	<b><u>\$8,991,679</u></b>	<b><u>\$12,588</u></b>

*Deferred Inflows of Resources and Deferred Outflows of Resources to be Recognized in Future Pension Expense*

	<u>2018</u>			<u>2017</u>	
	Total	System		Total	System
	<u>Plan (1)</u>	<u>Share (2)</u>		<u>Plan (1)</u>	<u>Share (2)</u>
2019	(\$2,360,898)	(\$3,305)	2018	\$3,191,695	\$4,468
2020	8,028,060	11,239	2019	3,191,695	4,468
2021	3,361,492	4,706	2020	13,580,653	19,013
2022	(6,860,827)	(9,605)	2021	8,914,085	12,480
2023	(1,161,459)	(1,626)	2022	(1,308,234)	(1,832)
Thereafter	<u>(417,370)</u>	<u>(584)</u>	Thereafter	<u>(586,490)</u>	<u>(820)</u>
	<b><u>\$588,998</u></b>	<b><u>\$825</u></b>		<b><u>\$26,983,404</u></b>	<b><u>\$37,777</u></b>

- (1) Total Plan includes deferred outflows of resources less deferred inflows of resources less deferred outflows of resources for employer contributions, which are excluded from actuarial calculations.  
(2) System share is calculated from the indicated year proportionate amount.

IV. C. OPEB EXPENSE

<u>2018</u>	
Total	System
<u>Plan</u>	<u>Share</u>
<b><u>\$24,553,649</u></b>	<b><u>\$12,277</u></b>

*Deferred Inflows of Resources and Deferred Outflows of Resources to be Recognized in Future OPEB Expense*

	<u>2018</u>	
	Total	System
	<u>Plan (1)</u>	<u>Share (2)</u>
2019	(\$3,997,193)	(\$1,999)
2020	(3,997,193)	(1,999)
2021	(3,997,193)	(1,999)
2022	(3,997,195)	(1,999)
2023	(3,617,683)	(1,809)
Thereafter	<u>(21,706,093)</u>	<u>(10,851)</u>
	<b><u>(\$41,312,550)</u></b>	<b><u>(\$20,656)</u></b>

- (1) Total Plan includes deferred outflows of resources less deferred inflows of resources less deferred outflows of resources for employer contributions, which are excluded from actuarial calculations.  
(2) System share is calculated from the indicated year proportionate amount.

**V. PENSION PLAN**

**V. A. PLAN DESCRIPTION**

*Plan Administration*

OCERS provides retirement benefits for substantially all full-time, non-uniformed employees of the System, the City, the Oklahoma City Public Property Authority, and the Oklahoma City Zoological Trust. Unless otherwise indicated, OCERS information is provided as of the latest actuarial valuation, December 31, 2017 and December 31, 2016, rolled forward to June 30, 2018 and 2017, respectively. The information presented in this note is reported in the financial statements of the System as of June 30, 2019 and 2018, respectively. Actuarial valuations are performed annually.

The required supplementary information immediately following the notes to the financial statements presents certain ten-year trend information for as many years as the information measured in conformity with GASB 68 is available.

*Funding Policies, Contribution Methods and Benefit Provisions*

Year established and governing authority	1958; City Council Ordinance	
Determination of contribution requirements	Actuarially	
	<b><u>2018</u></b>	<b><u>2017</u></b>
Employer	5.56% of covered payroll	5.33% of covered payroll
Plan members	6.00% of covered payroll	6.00% of covered payroll
Funding of administrative costs	Investment Earnings	Investment Earnings
Period required to vest	5 years	5 years
Post-retirement benefit increases	Cost of living adjustments are compounded annually; increases must be approved by the System Board	Cost of living adjustments are compounded annually; increases must be approved by the System Board
Eligibility for distribution	30 years credited service regardless of age, or age 60 with 10 years (Pre 3/67 hires), or 25 years of credited service regardless of age, or age 65 with 5 years (Post 3/67 hires), or age 55 with 5 years on a reduced basis, or 5 years service, with benefits.	30 years credited service regardless of age, or age 60 with 10 years (Pre 3/67 hires), or 25 years of credited service regardless of age, or age 65 with 5 years (Post 3/67 hires), or age 55 with 5 years on a reduced basis, or 5 years service, with benefits.

**Funding Policy**

Contribution requirements are actuarially determined and established by City Council ordinance. Beginning July 1, 2017, the employer contribution rate changed from 5.33% to 5.56% of covered payroll. Beginning July 1, 2016, the employer contribution rate changed from 5.88% to 5.33% of covered payroll. The employee contributes 6.00% of covered payroll. Administrative costs are funded with investment earnings.

**Benefit Provisions**

The System was established by City Council Ordinance in 1958 to hold funds in trust to provide pension, disability, and survivor benefits to its members.

Benefit provisions include both duty and non-duty disability retirement and death benefits. Average Final Compensation (AFC) determines the retirement benefit and is calculated as the highest 36 months of earned employee compensation (excluding compensation for unused vacation and sick leave and amounts elected to be deferred under Section 125 of the Internal Revenue Code) during the last 60 months of service. Generally, the normal retirement benefit is 2% of AFC for each full year of service, plus 1/12 of 2% for each whole month of a partial year of service to a maximum of 100% of AFC. There are modifications to the normal retirement benefit for early and deferred retirement, duty and non-duty disability, and death benefits.

**Post-Retirement Benefit Adjustments**

Retirement pension may be adjusted annually for changes in the Consumer Price Index. The maximum adjustment is 2% compounded annually.

**Membership**

	<u>2018</u>	<u>2017</u>
Active plan members	2,425	2,506
Inactive plan members currently receiving benefits	1,545	1,491
Inactive plan members entitled to but not yet receiving benefits	120	108
	<u><u>4,090</u></u>	<u><u>4,105</u></u>

**Actuarial Assumptions**

	<u>2018</u>	<u>2017</u>
Valuation date	12/31/2017	12/31/2016
Actuarial cost method	Individual Entry Age Normal	Individual Entry Age Normal
Amortization method	Level % of payroll	Level % of payroll
Amortization period	26 years, closed	27 years, closed
Actuarial asset valuation method	4-year smoothed market	4-year smoothed market
Actuarial Assumptions		
Investment rate of return	7.1%	7.4%
Cost of living benefit increases (maximum)	2.0%	2.0%
Price Inflation	2.3%	2.5%
Projected salary increases	3.25% to 6.75%	3.75% to 7.25%
Mortality table	RP 2000 mortality table projected to 2010	RP 2000 mortality table projected to 2010
Experience study	Actuarial assumptions were based upon results of experience study covering the period January 1, 2008 through December 31, 2012	Actuarial assumptions were based upon results of an experience study covering the period January 1, 2008, through December 31, 2012.

Projections of benefits for financial reporting purposes are based on the substantive plan (the Plan as understood by the System and Plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the System and Plan members to that point. Actuarial calculations reflect a long-term perspective. The actuarial methods and assumptions used techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of calculations.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future and amounts are subject to continual revision as results are compared to past expectations and new estimates are made about the future.

V. B. NET PENSION LIABILITY

*Net Pension Liability*

	<u>2018</u>	<u>2017</u>
Total pension liability	\$711,681,455	\$677,114,634
Fiduciary net position	<u>739,589,878</u>	<u>702,133,165</u>
Net pension asset (liability)	<u>\$27,908,423</u>	<u>\$25,018,531</u>
Plan fiduciary net position as a percentage of the total pension liability	<u>103.92%</u>	<u>103.69%</u>

	<u>2018</u>		
	<u>Total Pension Liability</u>	<u>Plan Fiduciary Net Position</u>	<u>Net Pension Asset (Liability)</u>
Beginning balance	\$677,114,634	\$702,133,165	\$25,018,531
Service cost	16,298,968	-	(16,298,968)
Interest	49,396,977	-	(49,396,977)
Differences between expected and actual experience	(11,129,273)	-	11,129,273
Changes of assumptions	15,474,961	-	(15,474,961)
Contributions - employer	-	7,056,707	7,056,707
Contributions - employee	-	8,018,246	8,018,246
Net investment income	-	58,534,107	58,534,107
Benefit payments and refunds	(35,474,812)	(35,474,812)	-
Administrative expense	-	(504,102)	(504,102)
Other changes	-	<u>(173,433)</u>	<u>(173,433)</u>
	<u>\$711,681,455</u>	<u>\$739,589,878</u>	<u>\$27,908,423</u>

	<u>2017</u>		
	<u>Total Pension Liability</u>	<u>Plan Fiduciary Net Position</u>	<u>Net Pension Asset</u>
Beginning balance	\$650,296,394	\$649,123,256	(\$1,173,138)
Service cost	16,630,642	-	(16,630,642)
Interest	47,499,801	-	(47,499,801)
Differences between expected and actual experience	(3,867,184)	-	3,867,184
Changes of assumptions	-	-	-
Contributions - employer	-	6,871,464	6,871,464
Contributions - employee	-	7,732,269	7,732,269
Net investment income	-	72,212,736	72,212,736
Benefit payments and refunds	(33,445,019)	(33,445,019)	-
Administrative expense	-	(458,522)	(458,522)
Other changes	-	<u>96,981</u>	<u>96,981</u>
	<u>\$677,114,634</u>	<u>\$702,133,165</u>	<u>\$25,018,531</u>

**V. C. RATE OF RETURN AND DISCOUNT RATE**

***Rate of Return***

For the years ended June 30, 2018 and 2017, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense was 8.65% and 11.48%, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

***Long-term Expected 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 real rates of return are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation. See Note II. A. DEPOSITS AND INVESTMENTS, Investments, Asset Allocation Guidelines for target allocation of investments.

	Long-term Expected Rate of Return	
	<u>2018</u>	<u>2017</u>
Core Bonds	2.74%	2.77%
Core Plus	3.01	3.04
Global Bonds	2.52	2.55
Absolute Return	3.82	4.20
U.S. Large Cap Equity	7.53	7.48
U.S. Small Cap Equity	8.79	8.71
International Developed Equity	8.51	8.45
Emerging Market Equity	9.80	9.72
Long/Short Equity	6.27	7.23
Private Equity	10.16	10.20
Core Real Estate	5.91	5.88
Opportunistic Real Estate	9.00	9.02
Commodities	2.17	2.10

***Discount Rate***

A single discount rate of 7.1% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 7.1%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. 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.



*Sensitivity of Net Pension Liability to Changes in the Discount Rate*

The following table presents the total pension liability of the System, calculated using the discount rate of 7.1%, as well as what the System total pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.1%) or 1-percentage-point higher (8.1%) than the current rate and the resulting net pension asset(liability):

	Rate	Total Pension Liability				
		2018		2017		
		Total Plan	System Share (1)	Rate	Total Plan	System Share (1)
1% decrease	6.10%	\$798,368,605	\$1,117,716	6.40%	\$759,407,117	\$1,063,170
Current single discount rate	7.10	711,681,455	996,354	7.40	677,114,634	947,960
1% increase	8.10	638,626,672	894,077	8.40	607,668,423	850,736

(1) System share is reported in the financial statements in the year subsequent to Plan reporting.

**VI. DEFINED CONTRIBUTION PLANS**

The System participates in two defined contribution plans administered by the International City Manager’s Association Retirement Corporation (ICMA Retirement). Plan provisions and contribution requirements are established or amended by City Council resolution. The plans are money purchase plans qualified under section 401 of the Internal Revenue Code.

Participants of the first plan are comprised of eligible employees hired before September 1, 2001. The City and participants are required to contribute 8.35% and 6.0% of annual covered payroll, respectively. Participants of the first plan vest at service inception and are entitled to 100% of vested contributions.

Participants of the second plan are comprised of eligible employees hired after September 1, 2001. The City and participants are required to contribute 7.0% and 6.0% of annual covered payroll, respectively. Participants of the second plan vest after 5 years of service.

The two plans include 97 participants comprised of City Council appointees and management personnel. The System has no participants.

**VII. OTHER POST-EMPLOYMENT BENEFITS (OPEB)**

*Change in Accounting Principle*

Effective July 1, 2017, the City changed its method of accounting with the implementation of GASB statement 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pension. As a result the City recognized an increase in the net OPEB liability, an increase in deferred outflows of resources and a decrease in net position related to the change in accounting for post-employment benefits.

**VII. A. PLAN DESCRIPTION**

The System provides post-employment healthcare benefits for retired employees and their dependents through the City of Oklahoma City Post-retirement Medical Plan (the Plan), a single-employer defined benefit healthcare plan administered by the OCPEBT. The benefits, coverage levels, employee contributions and employer contributions are governed by the City Council and can be amended by the City Council through its personnel manual and union contracts. The Plan issues a separate report that can be obtained from Human Resources at 420 W. Main, Suite 110, Oklahoma City, OK 73102.

The OPEBT also administers the medical plan for retirees of the Central Oklahoma Transportation and Parking Authority (COTPA). The COTPA OPEB plan information is not included in total Plan amounts reported in this note. This information is reported separately in the OCPEBT financial statements and can be obtained from the Finance Department, Accounting Services Division, 100 N. Walker, Suite 300, Oklahoma City, OK 73102.

**Funding Policies, Contribution Methods and Benefit Provisions**

	<u>2018</u>
Year established and governing authority	2008; City Council Ordinance
Determination of contribution requirements	City Policy
Employer	54% of premium
Plan members	46% of premium
Funding of administrative costs	Investment earnings
Period required to vest	5 years
Eligibility for distribution	General employees are eligible for membership in the Plan if they retire from the City on or after age 60 with 15 years of service or at any age with 25 years of service. Employees hired before January 1, 2017 reaching the age of 55 with a minimum of five (5) years service on or before December 31, 2016 are grandfathered in. General employees hired after January 1, 2017 are not eligible for cost sharing. Police officers are eligible for benefits under the Plan if they retire from the City on or after age 55 with 5 years of service or at any age with 20 years of service. Firefighters with 20 years of service retiring before January 1, 2003, are eligible for membership. Participation may only be elected at the time of retirement.

**Funding Policy**

Contribution requirements are actuarially determined and established by City Council ordinance. Beginning January 1, 2017, the employer contribution rate changed from 56% of premium to 54% of premium for retirees. Beginning January 1, 2016, the employer contribution rate changed from 58% of premium to 56% of premium for retirees. The employee contributes the balance of the premium. Administrative costs are funded with investment earnings.

**Benefit Provisions**

The City provides medical benefits either through a fully insured health plan or through a self-insured Group Indemnity Plan. Benefits include general inpatient and outpatient medical services and prescription drug coverage. Additional benefits for dental, life and vision are available with no subsidy from the City. Coverage for dependents can continue upon the death of the retiree. Spouses and eligible dependents of employees who die in active service while eligible for benefits can receive coverage.

**Membership (1)**

Active members	<u>2018</u> 3,479
Retirees and beneficiaries currently receiving benefits	2,173
	<u><u>5,652</u></u>

(1) The number of members are reported as of the actuarial valuation date of June 30, 2017.

*Annual Required Contributions - Actuarial Assumptions*

	<u>2018</u>
Provisions for:	City OPEB
Disability benefits	Yes
Death benefits	Yes
Valuation date	6/30/17
Actuarial cost method	Entry Age Normal
Amortization method	Level Percent of Payroll
Amortization period	30 years, closed
Actuarial asset valuation method	4-year smoothed market
Investment rate of return	7.5%
Inflation	3.75%
Projected salary increases	3.75%
Health care trend rate	8.5% (6.0% for Medicare age)
Ultimate rate	4.5%
Mortality table	RP 2000 combined mortality table fully generational using scale AA

**VII. B. NET OPEB LIABILITY**

*System Share*

The System's share of net OPEB liability is allocated using the System's share of employees for the payroll ending June 30, 2017. The system share is .05%.

	<u>2018</u>	
	<u>Total</u>	<u>System Share</u>
Total OPEB liability	\$570,691,262	\$285,346
Fiduciary net position	48,763,398	24,382
Net OPEB liability	<u>\$521,927,864</u>	<u>\$260,964</u>
Plan fiduciary net position as a percentage of the total OPEB liability	<u>8.54%</u>	<u>8.54%</u>

	<u>2018</u>					
	<u>Total OPEB Liability</u>		<u>Plan Fiduciary Net Position</u>		<u>Net OPEB Liability</u>	
	<u>OPEBT</u>	<u>System Share</u>	<u>OPEBT</u>	<u>System Share</u>	<u>OPEBT</u>	<u>System Share</u>
Beginning balance	\$596,737,157	\$298,369	\$42,233,216	\$21,117	\$554,503,941	\$277,252
Service cost	24,740,136	12,370	-	-	24,740,136	12,370
Interest	18,750,099	9,375	-	-	18,750,099	9,375
Changes of benefits terms	(11,788,937)	(5,894)	-	-	(11,788,937)	(5,894)
Differences between expected and actual experience	4,301,652	2,151	-	-	4,301,652	2,151
Changes of assumptions	(47,713,842)	(23,857)	-	-	(47,713,842)	(23,857)
Contributions - employer	-	-	15,817,181	7,909	(15,817,181)	(7,909)
Net investment income	-	-	5,117,072	2,559	(5,117,072)	(2,559)
Benefit payments and refunds	(14,335,003)	(7,168)	(14,335,003)	(7,168)	-	-
Administrative expense	-	-	(69,068)	(35)	69,068	35
	<u>\$570,691,262</u>	<u>\$285,346</u>	<u>\$48,763,398</u>	<u>\$24,382</u>	<u>\$521,927,864</u>	<u>\$260,964</u>

**VII. C. RATE OF RETURN AND DISCOUNT RATE**

*Rate of Return*

For the year ended June 30, 2018, the annual money-weighted rate of return on pension plan investments, net of OPEB plan investment expense was 11.43%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

*Long-term Expected Rate of Return*

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These real rates of return are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class are included in the OPEB plan's target asset allocation.

	Long-term Expected <u>Rate of Return</u> <u>2018</u>
Domestic Equity	7.50%
Domestic Bonds	2.50
International Equity	8.50
International Bonds	3.50
Real Estate	4.50

*Discount Rate*

The discount rate used to measure the total OPEB liability was 3.75%. Assets were projected using expected benefit payments and expected asset returns. Expected benefit payments by year were discounted using the expected asset return assumption for years in which the assets were sufficient to pay all benefit payments. Any remaining benefit payments after the net position is exhausted are discounted at the 20-year municipal bond rate. Therefore, the long-term expected rate of return on OPEB investments (7.50%) was applied to years 2019 through 2027 of projected benefit payments and the 20-year municipal bond rate based on a range of indices from 3.13%-3.56% was applied to projected benefit payments after 2027 to determine the total OPEB liability. The discount rate increased from 3.13% on June 30, 2016 to 3.75% on June 30, 2017.

*Sensitivity of Net OPEB Liability to Changes in the Discount Rate*

The following table presents the total OPEB liability of the System, calculated using the discount rate of 3.75%, as well as what the System total OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (2.75%) or 1-percentage-point higher (4.75%) than the current rate and the resulting net OPEB asset(liability):

	<u>2018</u>				
	<u>Rate</u>	<u>Total OPEB Liability</u>		<u>Net OPEB Liability</u>	
		<u>Plan</u>	<u>System</u>	<u>OPEB</u>	<u>System</u>
1% decrease	2.75%	\$670,288,235	\$335,144	\$621,524,837	\$310,762
Current single discount rate	3.75	570,691,262	285,346	521,927,864	260,964
1% increase	4.75	491,811,356	245,906	443,047,958	221,524

*Sensitivity of Net OPEB Liability to Changes in the Healthcare Cost Trends*

The following table presents the total OPEB liability of the System, calculated using the discount rate of 8.5%, as well as what the System total OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (7.5%) or 1-percentage-point higher (9.5%) than the current rate and the resulting net OPEB asset(liability):

	<u>Rate</u>	<u>Total OPEB Liability</u>		<u>Net OPEB Liability</u>	
		<u>Plan</u>	<u>System Share</u>	<u>Total Rate</u>	<u>System Share</u>
1% decrease	7.50%	\$503,551,114	\$251,776	\$434,947,466	\$217,474
Current single discount rate	8.50	570,691,262	285,346	521,927,864	260,964
1% increase	9.50	637,831,410	318,916	634,213,523	317,107

OCPEBT financial statements including the actuarial report referred to in this note may be obtained from the Finance Department, Accounting Services Division, 100 N. Walker, Suite 300, Oklahoma City, OK 73102.

**VII. F. TERMINATION BENEFITS**

At June 30, 2018, the System had no terminated employees participating in COBRA health and/or dental care in various options available from the City. COBRA participants pay 102% of employee premium cost for continuing coverage. COBRA continuation coverage benefits are available for eligible employees for up to 18 months. Employees on military leave are eligible up to 24 months. Dependents of employees who lose coverage due to a qualifying event are eligible for up to 36 months. Benefits provided are not material to the financial statements.

**VIII. RELATED PARTY TRANSACTIONS**

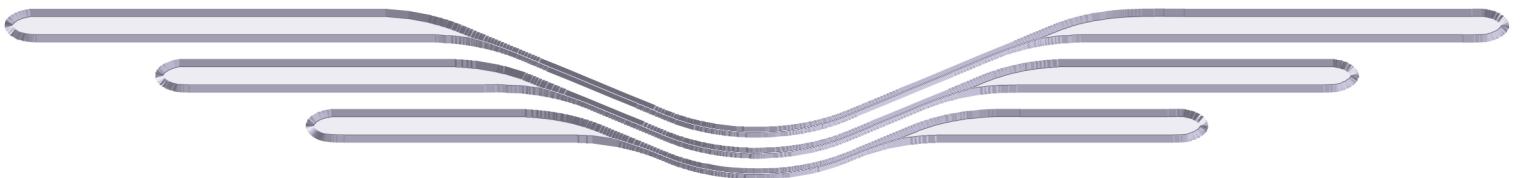
As of June 30, 2018 and 2017, the System held judgments in the amounts of \$4,262,085 and \$4,258,103, respectively. The judgments earn 6.5 and 5.75 percent interest, respectively. State Statutes permit the System to purchase judgments rendered against the City throughout the year. In November of each year, the City (through the property tax levy process) pays the System for the principal amount and earned interest for each purchased judgment.

The System reimburses the City for the cost of providing financial and other services. Amounts charged are expensed during the period incurred. For fiscal years ending June 30, 2018 and 2017, the System reported charges for City services of \$95,783 and \$105,080, respectively.

The City reimburses the System for the cost of providing services. System staff provided administrative services for the City's deferred compensation and defined contribution plans. However, responsibilities are contractually limited and the System does not hold or administer these plan assets in a trustee capacity. Revenue for services is reported in the period earned. For fiscal years ending June 30, 2018 and 2017, the System reported income for services of \$33,423 and \$33,426, respectively.

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*Required Supplementary Information*







**REQUIRED SUPPLEMENTARY INFORMATION  
DEFINED BENEFIT PENSION PLAN**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

**I. SCHEDULE OF CHANGES IN THE CITY'S NET PENSION LIABILITY (ASSET) AND RELATED RATIOS (1)**

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
<u>Total Pension Liability</u>					
Service cost	\$16,298,968	\$16,630,642	\$16,478,008	\$15,803,400	\$14,859,971
Interest	49,396,977	47,499,801	46,209,223	44,280,609	42,402,916
Differences between expected and actual experience of the total pension liability	(11,129,273)	(3,867,184)	(12,124,853)	(4,744,650)	(4,484,757)
Assumption changes	15,474,961	-	7,271,967	-	-
Benefits payments, including refunds	<u>(35,474,812)</u>	<u>(33,445,019)</u>	<u>(30,843,849)</u>	<u>(29,079,762)</u>	<u>(27,348,122)</u>
<b>Net change in total pension liability</b>	<b>34,566,821</b>	<b>26,818,240</b>	<b>26,990,496</b>	<b>26,259,597</b>	<b>25,430,008</b>
Pension liability, beginning	<u>677,114,634</u>	<u>650,296,394</u>	<u>623,305,898</u>	<u>597,046,301</u>	<u>571,616,293</u>
<b>Pension liability, ending</b>	<b><u>711,681,455</u></b>	<b><u>677,114,634</u></b>	<b><u>650,296,394</u></b>	<b><u>623,305,898</u></b>	<b><u>597,046,301</u></b>
<u>Plan Fiduciary Net Position</u>					
Contributions - employer	7,056,707	6,871,464	7,411,117	8,207,083	8,871,692
Contributions - employee	8,018,246	7,732,269	7,562,162	7,668,356	7,421,749
Net investment income	58,534,107	72,212,736	(4,840,456)	25,206,761	94,658,124
Benefits payments, including refunds	(35,474,812)	(33,445,019)	(30,843,849)	(29,079,762)	(27,348,122)
Administrative expense	(504,102)	(458,522)	(397,732)	(445,438)	(461,529)
Other	<u>(173,433)</u>	<u>96,981</u>	<u>68,029</u>	<u>148,187</u>	<u>95,319</u>
<b>Net change in fiduciary net position</b>	<b>37,456,713</b>	<b>53,009,909</b>	<b>(21,040,729)</b>	<b>11,705,187</b>	<b>83,237,233</b>
Plan fiduciary net position, beginning	<u>702,133,165</u>	<u>649,123,256</u>	<u>670,163,985</u>	<u>658,458,798</u>	<u>575,221,565</u>
<b>Plan fiduciary net position, ending</b>	<b><u>739,589,878</u></b>	<b><u>702,133,165</u></b>	<b><u>649,123,256</u></b>	<b><u>670,163,985</u></b>	<b><u>658,458,798</u></b>
<b>Net pension liability (asset), ending</b>	<b><u>(\$27,908,423)</u></b>	<b><u>(\$25,018,531)</u></b>	<b><u>\$1,173,138</u></b>	<b><u>(\$46,858,087)</u></b>	<b><u>(\$61,412,497)</u></b>
Covered payroll	\$130,273,619	\$114,233,221	\$126,036,039	\$127,805,936	\$124,957,446
Plan fiduciary net position as a percentage of total pension liability	103.92%	103.69%	99.82%	107.52%	110.29%
Net pension liability (asset) as a percentage of covered payroll	- 21.42%	- 21.90%	0.93%	- 36.66%	- 49.15%
<u>Actuarial assumptions</u>					
Valuation date	12/31/17	12/31/16	12/31/15	12/31/14	12/31/14
Actuarial cost method	Individual entry age normal	Individual entry age normal	Individual entry age normal	Individual entry age normal	Individual entry age normal
Amortization method	Level % of payroll	Level % of payroll	Level % of payroll	Level % of payroll	Level % of payroll
Amortization period	26 years, closed	27 years, closed	27 years, closed	28 years, closed	28 years, closed
Actuarial asset valuation method	4-year smoothed market	4-year smoothed market	4-year smoothed market	4-year smoothed market	4-year smoothed market
Investment rate of return	7.1%	7.4%	7.5%	7.5%	7.5%
Cost of living benefit increases (maximum)	2%	2%	2%	2%	2%
Inflation	2.3%	2.5%	2.8%	3.0%	3.0%
Projected salary increases	3.25% to 6.75%	3.75% to 7.25%	3.75% to 7.25%	3.75% to 7.25%	3.75% to 7.25%
Mortality table	RP 2000 mortality table projected to 2010	RP 2000 mortality table projected to 2010	RP 2000 mortality table projected to 2010	RP 2000 mortality table projected to 2010	RP 2000 mortality table projected to 2010
Experience study	Actuarial assumptions were based upon results of an experience study covering the period January 1, 2008, through December 31, 2012, and an assumption study dated May 31, 2018.	Actuarial assumptions were based upon results of an experience study covering the period January 1, 2008, through December 31, 2012.	Actuarial assumptions were based upon results of an experience study covering the period January 1, 2008, through December 31, 2012.	Actuarial assumptions were based upon results of an experience study covering the period January 1, 2008, through December 31, 2012.	Actuarial assumptions were based upon results of an experience study covering the period January 1, 2008, through December 31, 2012.

- (1) Amounts presented represent the System's share presented in Note II. C. NET PENSION ASSET and are reported for the fiscal year in which they are reported on the financial statements. The Plan's pension information is measured as of December 31 and rolled forward to June 30 of the year prior to inclusion in the financial statements.
- (2) This schedule is presented to illustrate the requirement to show information for 10 years. However, results for measurement dates before 2014, are not available.

**REQUIRED SUPPLEMENTARY INFORMATION**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

**II. SCHEDULE OF SYSTEM SHARE OF NET PENSION LIABILITY (ASSET) (1) (2)**

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
System share	0.14%	0.14%	0.13%	0.14%
System share of the net pension liability (asset)	(\$35,026)	\$1,642	(\$60,916)	(\$85,978)
Other funds of the City share of the net pension liability (asset)	<u>(24,983,505)</u>	<u>1,171,496</u>	<u>(46,797,171)</u>	<u>(61,326,519)</u>
<b>Total net pension liability (asset)</b>	<b><u>(\$25,018,531)</u></b>	<b><u>\$1,173,138</u></b>	<b><u>(\$46,858,087)</u></b>	<b><u>(\$61,412,497)</u></b>
<b>Covered payroll</b>	<b><u>\$159,927</u></b>	<b><u>\$176,450</u></b>	<b><u>\$166,148</u></b>	<b><u>\$174,940</u></b>
System share of net pension liability (asset) as a percentage of covered payroll	-21.90%	0.93%	-36.66%	49.15%

- (1) Amounts presented represent the System's share presented in Note II. C. NET PENSION ASSET and are reported for the fiscal year in which they are reported on the financial statements. The Plan's pension information is measured as of December 31 and rolled forward to June 30 of the year prior to inclusion in the financial statements. Therefore, this information will not tie to information presented in the schedule of changes in net pension liability (asset) and related ratios.
- (2) This schedule is presented to illustrate the requirement to show information for 10 years. However, results for reporting dates before 2015, are not available.

**III. SCHEDULE OF EMPLOYER CONTRIBUTIONS**

Fiscal Year Ending <u>June 30.</u>	Actuarially Determined Contribution	Actual Contribution (b)	Contributions Deficiency (Excess) (a-b)	Covered Payroll (c)	Actual Contribution As a Percentage of Covered Payroll (b/c)
	<u>(ADC) (a)</u>				
2018	\$6,878,447	\$7,056,707	(\$178,260)	\$130,273,619	5.42%
2017	6,088,631	6,871,464	(782,833)	114,233,221	6.02
2016	7,410,919	7,411,117	(198)	126,036,039	5.88
2015	8,230,702	8,207,083	23,619	127,805,936	6.42
2014	8,934,457	8,871,692	62,765	124,957,446	7.10
2013	11,320,094	11,320,094	-	114,933,000	9.85
2012	9,614,625	9,614,625	-	109,293,000	8.80
2011	7,132,772	7,132,772	-	102,915,000	6.93
2010	5,585,595	5,585,595	-	110,408,000	5.06
2009	5,464,178	5,464,178	-	105,566,000	5.18

**IV. SCHEDULE OF INVESTMENT RETURNS**

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Annual money-weighted rate of return, net of investment expense (1)	8.65%	11.48%	-0.78%	4.10%	17.10%

- (1) Results for the other years within the last ten years are not available.

**REQUIRED SUPPLEMENTARY INFORMATION  
OTHER POST-EMPLOYMENT BENEFIT PLAN (1)**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

**I. SCHEDULE OF CHANGES IN THE NET OPEB LIABILITY (ASSET) AND RELATED RATIOS (1)**

	<u>2018</u>
System Share	0.05%
System share of the net OPEB liability (asset)	\$260,964
Other funds of the City share of the net OPEB liability (asset)	<u>521,666,900</u>
<b>Total net OPEB liability (asset)</b>	<b><u>\$521,927,864</u></b>
Covered - employee payroll	\$224,808,000
System share of covered employee payroll percentage of total OPEB liability	\$112,404
Net OPEB liability (asset) as a percentage of covered - employee payroll	43.07%
Plan fiduciary net positions as a percentage of total OPEB liability	8.54%

- (1) Amounts presented above represent the System's proportionate share presented in NOTE VII. OTHER POST-EMPLOYMENT BENEFITS (OPEB)
- (2) This schedule is presented to illustrate the requirement to show information for 10 years. However, results for measurement years before June 30, 2018, are not available. This information will be developed prospectively beginning in 2018.

**II. SCHEDULE OF SYSTEM'S SHARE OF EMPLOYER CONTRIBUTIONS (1)(2)**

<u>June 30,</u>	Contractually Required Contributions <u>(CRC) (3)</u>	Contributions in relation to <u>CRC</u>	Contributions Deficiency <u>(Excess)</u>	Covered <u>Payroll</u>	Actual Contribution As a Percentage of <u>Covered Payroll</u>
2018	\$12,582	\$7,281	\$5,301	\$111,489	6.53%

- (1) The amounts reported represent amounts paid and covered payroll for the fiscal year indicated.
- (2) This schedule is presented to illustrate the requirement to show information for 10 years. However, Authority share for fiscal years before June 30, 2018, is not available. This information will be developed prospectively until eventually 10 years of information is available. Total plan information is provided below.
- (3) Contributions are deferred in the fiscal year reported and recognized in the financial statements in the subsequent year.

<u>June 30,</u>	Covered <u>Payroll</u>	Employer Contributions
2017	\$224,808,000	\$15,817,181
2016	219,484,135	17,811,341
2015	213,091,393	18,851,545
2014	203,859,835	19,619,034
2013	197,922,710	19,904,516
2012	180,551,843	20,064,984
2011	175,293,051	18,746,937
2010	176,563,546	19,424,748
2009	171,420,918	18,688,224

**III. NOTES TO REQUIRED SUPPLEMENTARY INFORMATION**

See Note VII. OTHER POST-EMPLOYMENT BENEFITS (OPEB) for actuarial assumptions and other information used to determine the annual required contributions.

**SUPPORTING SCHEDULES**  
**For the Fiscal Years Ended June 30,**  
**SCHEDULE OF ADMINISTRATIVE EXPENSES**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

	<u>2018</u>	<u>2017</u>
<u>PERSONAL SERVICES</u>		
Staff salaries and benefits	\$253,891	\$219,145
Compensated absences	6,237	2,579
Other post-employment benefits	<u>12,629</u>	<u>14,420</u>
Total personal services	<u>272,757</u>	<u>236,144</u>
<u>PROFESSIONAL SERVICES</u>		
Actuarial	47,100	63,000
Accounting	16,414	23,878
Information technology services	28,294	29,888
Audit	21,365	20,336
Building rent and related costs	28,275	28,290
Medical exams	3,100	2,800
Legal fees	48,986	22,223
Postage and printing	5,175	7,831
Other administrative services	<u>14,136</u>	<u>8,287</u>
Total professional services	<u>212,845</u>	<u>206,533</u>
<u>TRAINING AND EDUCATION</u>	<u>15,426</u>	<u>10,184</u>
<u>MISCELLANEOUS</u>		
Supplies	1,126	1,157
Other	<u>1,948</u>	<u>4,502</u>
Total miscellaneous	<u>3,074</u>	<u>5,659</u>
<b>Total administrative expenses</b>	<b><u>\$504,102</u></b>	<b><u>\$458,520</u></b>

**SCHEDULE OF INVESTMENT EXPENSES AND SECURITIES LENDING MANAGEMENT FEES**

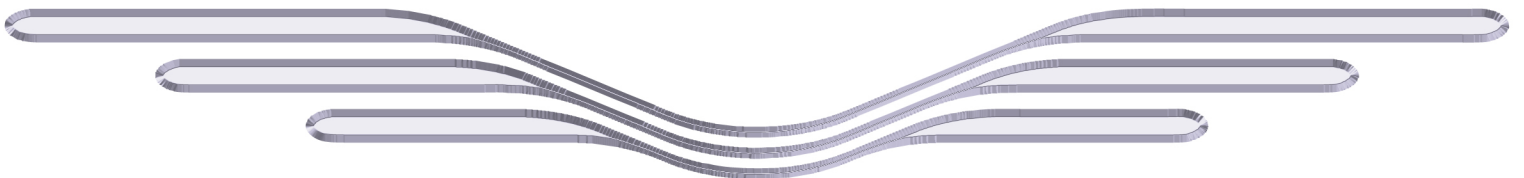
	<u>2018</u>	<u>2017</u>
Management fees	\$1,641,768	\$2,035,535
Custodial fees	276,608	80,204
Investment performance analysis	177,500	130,000
Other	<u>660,838</u>	<u>9,293</u>
<b>Total investment expenses</b>	<b><u>\$2,756,714</u></b>	<b><u>\$2,255,032</u></b>
<b>Securities lending management fees</b>	<b><u>\$-</u></b>	<b><u>\$-</u></b>

**SCHEDULE OF CONSULTING EXPENSES (1)**

		<u>2018</u>	<u>2017</u>
Gabriel, Roeder, Smith & Co.	Actuarial	\$47,100	\$63,000
Asset Consulting Group, Inc.	Consulting	177,500	130,000
Allen, Gibbs & Houlik, LC	Auditing	21,365	20,336
Davis Graham & Stubbs, LLP	Legal	35,101	22,223

(1) For fees and commissions paid to investment professionals, see the Schedule of Fees and Commissions in the Investment Section of this report.

# *Investment*







**ASSET CONSULTING GROUP**

231 SOUTH BEMISTON AVENUE

14<sup>TH</sup> FLOOR

ST. LOUIS, MISSOURI 63105

TEL 314.862.4848

FAX 314.862.5967

WWW.ACGNET.COM

December 17, 2018

Oklahoma City Employees Retirement System  
Oklahoma City, Oklahoma

The investment performance returns as shown in the five year investment performance review are all calculated using information derived from monthly statements provided by the Fund's custodial institution. Monthly returns are calculated using a time-weighted rate of return methodology based upon beginning and end of month market values and cash flows. Monthly returns are linked to provide compounded, annual, and annualized rates of return for periods of one, three, five years and beyond when available. The returns as shown in this report are gross of investment manager fees.

The investment performance of the Total Fund and its segments is compared to relevant benchmark returns and presented to the Board of Trustees on a monthly basis. For the Total Fund, the benchmark is an index which reflects the asset mix policy established by the Board of Trustees and is referred to as the Policy Portfolio. Comparisons to the Policy Portfolio, the median total fund universe, and the median return of a universe of total funds with similar asset allocation are presented to the Board of Trustees on a quarterly basis.

All of the above comparisons are included in the Statement of Investment Policy, Objectives, and Guidelines, and are also reported to the Board of Trustees on a quarterly basis. Investment objectives are spelled out for the Total Fund and each of the segments for one year time periods and longer (3-5 years), and include protecting the fund corpus, both nominally and in terms of inflation, achieving a return in excess of the risk free rate of return (90 day U.S. T-bills), achieving a return in excess the actuarial required return, and a return in excess of the median return of a universe of funds with similar asset mix, and achieving a return in excess of that of an unmanaged index return (constructed to reflect the asset mix of the Fund's assets). In addition, investment managers are monitored for adherence to style, both on a returns-based regression analysis as well as a holdings-based characteristic analysis versus the appropriate benchmarks specified in the Statement of Investment Policy, Objectives, and Guidelines. Current asset allocation ranges, and targets within those ranges, are measured against target ranges established in the Statement of Investment Policy, Objectives, and Guidelines on a monthly basis. The status of each is also presented in a monthly investment performance review submitted to the Board of Trustees.

The risk profile of the Total Fund and its segments is also measured quarterly for one, three, five years and beyond when available, and includes the usual MPT statistics: alpha, beta, R<sup>2</sup>, and standard deviation. To further reduce risk, Fund assets are diversified by asset class, by security, by investment manager, and by investment manager style. The fund has a long term strategic target allocation of 60% to equity, 25% to fixed income, and 15% to real assets.

Respectfully submitted,

Jason C. Pulos, CFA  
Managing Director

## **INVESTMENT POLICY SUMMARY (STATEMENT)**

### **I. POLICY PURPOSE AND OBJECTIVES**

The primary objective of the Oklahoma City Employee Retirement System (System) is to provide eligible employees with retirement benefits. Assets will be invested in a diversified portfolio to achieve attractive real rates of return. Following prudent standards for preservation of capital, the goal is to achieve the highest possible rate of return consistent with the Plan's tolerance for risk as determined by the Board of Trustees in its role as fiduciary.

### **II. PARTIES ASSOCIATED WITH THE SYSTEM**

#### ***Board of Trustees (Board)***

The Board is responsible for the appropriateness and execution of the investment policy. The Board accomplishes this by retaining and meeting regularly with: an investment consultant, investment managers, and a custodian; who then aide in defining and reviewing the adequacy of the investment policy, as well as the objectives and guidelines for the System.

#### ***Investment Consultant***

The investment consultant aides in developing a management team of investment managers, monitors their performance, and then provides the Board with a quarterly report. Their position also evaluates and makes recommendations on portfolio management and other areas of investments.

#### ***Investment Managers***

Investment managers are hired in a fiduciary capacity, and as such, are responsible for specific securities decisions and have full discretion in the management of assets, subject to the overall investment policy.

#### ***Custodian***

The custodian's fiduciary position accepts possession of securities for safekeeping and oversees the collection and disbursement of income and provides accounting statements and status reports to the Board. The Custodian interacts with the investment managers in relation to the securities held in account and meets with the Board as required.

#### ***Investment Committee***

The System's investment committee meets to discuss investment issues with the consultant and investment managers, makes recommendations to the Board for consideration, and is the source for policy clarification.

### **III. INVESTMENT OBJECTIVES AND GUIDELINES**

#### **III. A. OBJECTIVES**

The Board structures the System's portfolio for maximum investment style diversification and expected total return investment results. As applicable to the equities portfolio, the total return concept means dividend income plus realized and unrealized capital appreciation. The Board achieves this by retaining multiple equity and fixed income portfolio investment managers and brokers from external professional organizations, purchasing judgments of the City of Oklahoma City (City), and implementing various programs.

Fixed income investments constitute a portion of the System's assets to primarily reduce the volatility of the total portfolio, in addition to providing current income.



The investment managers operate within a set of guidelines, objectives, and constraints. The Board follows the policy that, except for established guidelines and unusual circumstances, no restrictions will be placed on the selection of individual investments by the investment managers.

The investment managers vote proxies in the manner which they feel will most benefit the System, however, the Board reserves the right to instruct the investment managers on how to vote individual proxies. The investment managers retain records of proxy voting and, upon request, makes these records available to the Board.

The Board has authorized a commission recapture program whereby certain brokers rebate 50% or more of their commissions back to the System. The recapture brokers provide monthly transaction reports to the Board or its representative for review.

The Board instituted a securities lending program to generate additional income above and beyond that produced through dividend, interest and capital appreciation. The Board receives collateral, consistent with industry standards, of at least 102% of fair value, initially, on equity securities and 100% on fixed income securities. Securities are priced daily and collateral adjustments (marked to market) made as required.

Trustees, officers, employees, investment managers, and investment consultants involved in the investment process shall refrain from personal business activity that could conflict with proper execution of the investment program, or which could impair their ability to make impartial investment decisions. Employees, investment officials, and investment consultants shall disclose to the Chairperson of the Board any direct financial interests in financial institutions that conduct business with the System, and they shall further disclose any personal financial investment positions that could be related to the performance of the System. Such disclosure shall be made to the Board within 90 days of any such position being taken. Employees, officers, Trustees, and investment consultants shall subordinate their personal investment transactions to those of the System, particularly with regard to the timing of purchases and sales.

The System is subject to an annual audit of its financial position. The Board or Chairperson may establish internal control procedures, as deemed necessary for services performed by the City and/or its employees on behalf of the System.

**III. B. PORTFOLIO ASSET ALLOCATION GUIDELINES**

Target percentages have been determined for each asset class. Percentage allocations are intended to serve as guidelines; the Board will not be required to remain strictly at the designated allocation. Market conditions or an investment transition (asset class or investment manager) may require an interim investment strategy and, therefore, a temporary imbalance in asset mix.

	<u>Minimum</u>	<u>Target</u>	<u>Maximum</u>		<u>Minimum</u>	<u>Target</u>	<u>Maximum</u>
Equities				Fixed Income			
Large Cap Domestic	15.0%	20.0%	25.0%	Core Bonds	2.5%	5.0%	10.0%
Small/Mid Cap Domestic	5.0	10.0	15.0	Core Plus Bonds	2.5	7.5	12.5
International	5.0	10.0	15.0	Global Bonds	2.5	7.5	12.5
Emerging Market Equities	0.0	5.0	10.0	Low Volatility Hedge	0.0	5.0	10.0
Long/Short Equity	5.0	10.0	15.0	Real Assets	10.0	15.0	20.0
Private Equity	0.0	5.0	7.5				

For purposes of this policy statement, fixed income may include certain hedge fund strategies that exhibit similar volatility to fixed income with low correlation to long, only equity and fixed income markets. The above target allocations will be achieved over an appropriate time period, based on market conditions, investment manager availability and portfolio needs and constraints.

### **III. C. PERFORMANCE OBJECTIVES**

The System's investment total return is expected to provide equal or superior results, using a three-year moving average, relative to the following benchmarks:

- An absolute return objective of 7.4% (or current actuarial rate).
- A relative return objective of 35% S&P 500 Index, 10% Russell 2500 index, 10% MSCI-EAFE, 5% MSCI Emerging Markets Index, 35% Barclays Capital Bond Index, 5% NFI-ODCE Property Index.
- A relative return objective of above median in consultant's total fund peer group universe.

### **III. D. ANNUAL REVIEW OF GUIDELINES**

In view of the rapid changes within the capital markets and investment management techniques, the Board and its investment managers should review these guidelines annually. Any recommended changes to the investment policy should be communicated in writing to the Board for review. Exceptions to these guidelines may be made anytime with the written approval of the Board.

## **IV. INVESTMENT MANAGER OBJECTIVES AND PERFORMANCE**

### **IV. A. INVESTMENT OBJECTIVE OF INVESTMENT MANAGERS**

The investment management style and process of each investment manager is important because of the manner in which each style blends with the structure of the portfolio; therefore, adherence to this discipline is a critical issue. The portfolio should be managed in a style consistent with the investment manager's other portfolios within the same investment mandate or product. Any significant deviation from the investment manager's stated style will require written approval from the Board.

### **IV. B. PERFORMANCE CRITERIA FOR MONEY MANAGERS**

Investment manager performance is monitored over current and long term time periods. Performance will be reviewed over the following periods with an emphasis on 3 and 5 year periods:

- 3 months
- Year to date
- One Year
- Three Years
- Five Years

The investment manager's performance will be evaluated on absolute return, relative return, volatility profile, and consistency with stated style.

### **IV. C. INVESTMENT MANAGER PERFORMANCE EXPECTATIONS**

Investment manager portfolios should outperform the designated broad based or other relevant benchmark over a market cycle. Relative performance should be above median over a market cycle when compared to relevant peer groups.

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## INVESTMENT SUMMARY

June 30, 2018

	<u>Domestic Common Stock</u>	<u>Government Securities/Fixed Income</u>	<u>Passive Bond Fund</u>	<u>International Stock</u>
<b><u>EQUITY</u></b>				
<b><u>DOMESTIC COMMON STOCK</u></b>				
Active, small cap growth	\$42,487,065	\$ -	\$ -	\$2,824,927
Active, small cap value	45,643,622	-	-	-
Active, large cap core	86,421,756	-	-	557,183
Passive, large cap S&P 500	82,047,761	-	-	252
Hedge-long/short	-	-	-	70,958,560
<b><u>INTERNATIONAL STOCKS</u></b>				
Active, small cap growth	-	-	-	-
Active, large cap value	-	-	-	33,952,446
Active, large cap growth	-	-	-	30,897,979
Active, emerging markets	-	-	-	35,607,526
<b><u>FIXED INCOME</u></b>				
Active	3,323,383	53,879,937	-	6,776,901
Passive	-	-	75,910,134	-
Hedge-low volatility	34,497,051	-	-	-
<b><u>COMMODITIES</u></b>				
Commodities	-	-	-	-
<b><u>REAL ASSETS</u></b>				
Real Estate	-	-	-	-
<b><u>PRIVATE EQUITY</u></b>				
	30,080,247	-	-	-
<b><u>OTHER</u></b>				
Cash Equivalents	-	-	-	-
Oklahoma City judgments	-	-	-	-
	<b><u>\$324,500,885</u></b>	<b><u>\$53,879,937</u></b>	<b><u>\$75,910,134</u></b>	<b><u>\$181,575,774</u></b>

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

Treasury Money Market <u>Fund</u>	<u>Commodities</u>	<u>Real Estate</u>	<u>Oklahoma City Judgments</u>	<u>Accrued Income</u>	<u>Total</u>
\$1,401,521	\$ -	\$ -	\$ -	\$14,763	\$46,728,276
760,806	-	-	-	43,766	46,448,194
519,955	-	-	-	70,269	87,569,163
-	-	-	-	-	82,048,013
-	-	-	-	-	70,958,560
-	-	-	-	-	-
-	-	-	-	-	33,952,446
-	-	-	-	-	30,897,979
138	-	-	-	-	35,607,664
6,004,605	-	-	-	352,982	70,337,808
-	-	-	-	-	75,910,134
-	-	-	-	-	34,497,051
-	26,637,864	-	-	-	26,637,864
-	-	63,921,589	-	589,175	64,510,764
-	-	1,322,219	-	-	31,402,466
2,018,955	-	-	-	18,328	2,037,283
-	-	-	<u>4,262,085</u>	<u>135,219</u>	<u>4,397,304</u>
<b><u>\$10,705,980</u></b>	<b><u>\$26,637,864</u></b>	<b><u>\$65,243,808</u></b>	<b><u>\$4,262,085</u></b>	<b><u>\$1,224,502</u></b>	<b><u>\$743,940,969</u></b>

**INVESTMENT HOLDINGS COST TO MARKET**  
**June 30, 2018**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

	<u>Cost of Holdings</u>	<u>Cash Equivalents</u>	<u>Cost</u>	<u>Fair Value</u>	<u>% of Total Fair Value</u>
<b><u>EQUITY</u></b>					
<b><u>DOMESTIC COMMON STOCK</u></b>					
Active, small cap growth	\$37,339,028	\$1,401,521	\$38,740,549	\$46,728,276	6.28%
Active, small cap value	23,576,384	760,806	24,337,190	46,448,194	6.24
Active, large cap core	70,038,709	519,955	70,558,664	87,569,163	11.79
Passive, large cap S&P 500	26,527,754	-	26,527,754	82,048,013	11.03
Hedge-long/short	47,512,517	-	47,512,517	70,958,560	9.54
<b><u>INTERNATIONAL STOCKS</u></b>					
Active, large cap value	28,631,756	-	28,631,756	33,952,446	4.56
Active, large cap growth	18,393,833	-	18,393,833	30,897,979	4.15
Active, emerging markets	27,966,033	138	27,966,171	35,607,664	4.79
<b><u>FIXED INCOME</u></b>					
Active	67,912,850	6,004,605	73,917,455	70,337,808	9.45
Passive	59,263,306	-	59,263,306	75,910,134	10.20
Hedge-low volatility	32,428,605	-	32,428,605	34,497,051	4.64
<b><u>COMMODITIES</u></b>					
Commodities	35,000,000	-	35,000,000	26,637,864	3.58
<b><u>REAL ASSETS</u></b>					
Real Estate	50,037,117	-	50,037,117	64,510,764	8.67
<b><u>PRIVATE EQUITY</u></b>					
	22,982,144	-	22,982,144	31,402,466	4.22
<b><u>OTHER</u></b>					
Oklahoma City judgments	4,262,085	-	4,262,085	4,397,304	0.59
Treasury Money Market	-	<u>2,018,955</u>	<u>2,018,955</u>	<u>2,037,283</u>	<u>0.27</u>
	<b><u>\$551,872,121</u></b>	<b><u>\$10,705,980</u></b>	<b><u>\$562,578,101</u></b>	<b><u>743,940,969</u></b>	<b><u>100.00%</u></b>

**INTEREST AND DIVIDEND INCOME (1)**

Equities	(128,798)
Fixed Income	(352,982)
Judgments	(135,219)
Real Estate	(589,175)
Cash Equivalents	<u>(18,328)</u>
	<b><u>\$742,716,467</u></b>

(1) For purposes of portfolio evaluation by the consultant and to follow the investment policy guidelines, the investment categorization on this schedule does not tie to the statements of fiduciary net position. Interest income, dividend income and money market positions are included as shown above. See the investment summary for a reconciliation of this presentation to the statement of fiduciary net position presentation.

**INVESTMENT RESULTS (1)**  
**As of June 30, 2018**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

	<u>1 Year</u>	<u>3 Years</u>	<u>5 Years</u>
<b><u>TOTAL PORTFOLIO</u></b>			
System Composite	8.4%	6.3%	7.9%
Median Total Fund (between 55-70% Equity)	0.8	0.7	0.8
Policy Index	8.4	6.9	7.9
<b><u>EQUITIES</u></b>			
<b><u>LARGE CAP - PASSIVE</u></b>			
State Street Global Advisors S & P 500 Flagship Fund (inception March 2008)	14.4	12.0	13.5
Standard & Poor's 500 Index	14.4	11.9	13.4
<b><u>LARGE CAP - ACTIVE</u></b>			
Enhanced Investment Technologies, LLC (inception January 2007)	14.3	11.8	13.8
Russell 1000	14.5	11.6	13.4
<b><u>SMALL CAP VALUE</u></b>			
Earnest Partners (inception May 2003)	13.2	11.3	14.0
Russell 2500 Value Index	16.2	10.3	12.3
<b><u>SMALL CAP GROWTH</u></b>			
Timesquare Capital Management LLC (inception February 2010)	17.1	8.3	11.5
Russell 2500 Growth Index	21.4	10.9	13.9
<b><u>HEDGE FUND - LONG/SHORT</u></b>			
K2 Advisors (inception January 2005)	4.3	1.6	5.9
Standard & Poor's 500 Index	14.4	11.9	13.4
<b><u>INTERNATIONAL</u></b>			
<b><u>LARGE CAP VALUE</u></b>			
Lazard International Strategic (inception September 2013)	13.4	4.9	0.0
Morgan, Stanley, Capital International/Europe, Australia, and Far East	7.4	5.4	6.9
<b><u>LARGE CAP GROWTH</u></b>			
Harding Loevner (inception June 2012)	11.3	9.3	9.6
Morgan, Stanley, Capital International/All Country World Index Ex-U.S.	7.8	5.6	6.5
<b><u>EMERGING MARKETS</u></b>			
Wells Capital EM Fund (inception December 2016)	8.6	0.0	0.0
MSCI Emerging Markets Index	8.6	6.0	5.4
Wasatch	9.9	4.3	4.1
MSCI Emerging Markets Small Cap	6.0	2.9	4.6
<b><u>FIXED INCOME</u></b>			
<b><u>CORE BONDS - PASSIVE</u></b>			
State Street Global Advisors Passive Bond Market Non-Securities Lending Index Fund	(0.4)	1.7	2.3
Barclays Capital Aggregate	(0.4)	1.7	2.3
Brandywine Global Opportunistic Fixed Income	0.0	3.5	2.7
Citigroup World Government Bond	1.9	2.8	1.1
<b><u>CORE BONDS - ACTIVE</u></b>			
Western Asset Management (inception January 2003)	0.1	3.2	3.6
Barclays Capital Aggregate	(0.4)	1.7	2.3
<b><u>HEDGE FUND - LOW VOLATILITY</u></b>			
PAAMCO (inception February 2006)	4.8	1.3	3.1
Barclays Capital Aggregate	4.1	1.9	3.0
<b><u>COMMODITIES</u></b>			
Gresham TAP Fund (inception October 2014)	13.1	(2.9)	0.0
Bloomberg Commodity	7.4	(4.5)	(6.4)
<b><u>REAL ESTATE</u></b>			
Prime Property Fund LLC	9.4	10.7	12.8
National Counsel of Real Estate Investment Fiduciaries Property Index	7.5	8.4	10.0
<b><u>PRIVATE EQUITY</u></b>			
Siguler Guff, Mesirow, Warburg Pincus, TA Associates	13.2	11.8	15.1
<b><u>INTERNAL</u></b>			
City of Oklahoma City Judgments	5.4	5.2	5.0
Merrill Lynch 1-3 Year Treasury Bond	0.1	0.4	0.6

(1) Monthly returns are calculated using a time-weighted rate of return methodology based on beginning and ending fair values and cash flows and are linked to provide compounded, annual, and annualized rates of return for periods of one, three, and five years. The returns as shown in this report are net of transaction costs and investment manager fees.

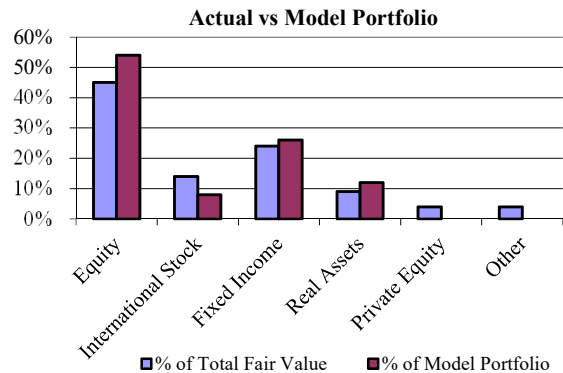
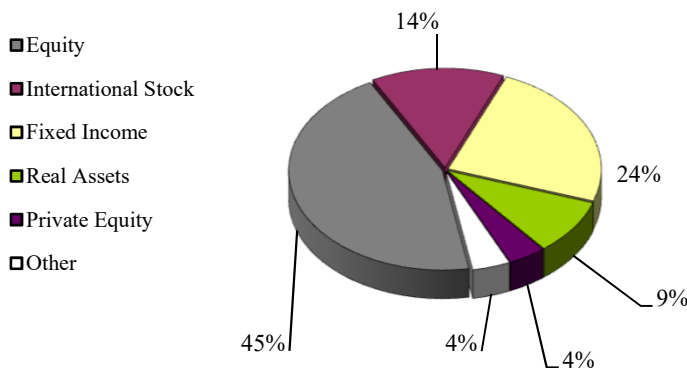
**ASSET ALLOCATION (1)**  
**June 30, 2018**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

	<u>Fair Value of Holdings</u>	<u>Cash Equivalents</u>	<u>Accrued Income</u>	<u>Fair Value</u>	<u>% of Total Fair Value</u>	<u>% of Model Portfolio</u>
<b><u>EQUITY</u></b>						
<b><u>DOMESTIC COMMON STOCK</u></b>						
Active, small cap	\$90,955,614	\$2,162,327	\$58,529	\$93,176,470	12.52%	
Active, large cap	86,978,939	519,955	70,269	87,569,163	11.79	
Passive, large cap	82,048,013	-	-	82,048,013	11.03	
Hedge-long/short	70,958,560	-	-	70,958,560	<u>9.54</u>	
					<u>44.88</u>	53.9%
<b><u>INTERNATIONAL STOCK</u></b>						
Active, large cap	100,457,951	138	-	100,458,089	<u>13.50</u>	8.4
<b><u>FIXED INCOME</u></b>						
Active	63,980,221	6,004,605	352,982	70,337,808	9.45	
Passive	75,910,134	-	-	75,910,134	10.20	
Hedge-low volatility	34,497,051	-	-	34,497,051	<u>4.64</u>	
					<u>24.29</u>	25.6
<b><u>COMMODITIES</u></b>						
Commodities	26,637,864	-	-	26,637,864	3.58	0.0
<b><u>REAL ASSETS</u></b>						
Real Estate	63,921,589	-	589,175	64,510,764	8.67	12.1
<b><u>PRIVATE EQUITY</u></b>						
	31,402,466	-	-	31,402,466	4.22	0.0
<b><u>OTHER</u></b>						
Oklahoma City judgments	4,262,085	-	135,219	4,397,304	0.59	0.0
Treasury Money Market	-	<u>2,018,955</u>	<u>18,328</u>	<u>2,037,283</u>	<u>0.27</u>	<u>0.0</u>
	<b><u>\$732,010,487</u></b>	<b><u>\$10,705,980</u></b>	<b><u>\$1,224,502</u></b>	<b><u>743,940,969</u></b>	<b><u>100.00%</u></b>	<b><u>100.0%</u></b>
<b><u>INTEREST AND DIVIDEND INCOME</u></b>						
Equities				(128,798)		
Fixed Income				(352,982)		
Judgments				(135,219)		
Real Estate				(589,175)		
Cash Equivalents				(18,328)		
				<b><u>\$742,716,467</u></b>		

(1) For purposes of portfolio evaluation by consultant and to follow the investment policy guidelines, the investment categorization on this schedule does not tie to the statements of plan net position. Accrued income and cash equivalent positions are included. See the investment summary for a reconciliation of this presentation to the statement of net position presentation.

**Asset Allocation by Class**





**LARGEST HOLDINGS (1)**  
**June 30, 2018**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

**10 Largest Stock Holdings (by fair value)**

<u>Shares</u>	<u>Stock</u>	<u>Fair Value</u>
12,400	Apple, Inc.	\$2,295,364
24,158	Republic Services, Inc	1,651,441
22,800	Transunion Com	1,633,392
16,300	Microsoft Corp	1,607,343
12,785	Centene Corporation	1,575,240
900	Amazon Com Inc	1,529,820
9,167	SBA Communications	1,513,655
6,831	Huntington Ingalls	1,480,892
12,514	Charles River Labs	1,404,822
33,984	D R Horton, Inc	1,393,344

**10 Largest Fixed Income Holdings (by fair value)**

<u>Par</u>	<u>Bonds</u>	<u>Rate</u>	<u>Maturity</u>	<u>Fair Value</u>
\$2,070,000	United States Treasury Bonds	4.500%	11/15/2043	\$2,353,251
1,480,000	Government National Mortgage Association	0.045	30 yr July	1,538,288
1,300,000	United States Treasury Bonds	3.000	5/15/2047	1,303,809
1,000,000	Government National Mortgage Association	4.000	30 yr July	1,024,922
780,000	United States Treasury Bonds	3.750	11/15/2043	782,620
710,000	United States Treasury Bonds	3.125	5/15/2048	729,719
740,000	Federal National Mortgage Association	0.000	10/9/2019	716,431
730,000	United States Treasury Bonds	2.750	11/15/2047	696,580
610,000	United States Treasury Bonds	3.125	5/15/2048	582,097
460,000	United States Treasury Bonds	3.000	2/15/2047	461,653

(1) A complete list of portfolio holdings is available upon request.

**SCHEDULE OF FEES AND COMMISSIONS**  
**June 30, 2018**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

**INVESTMENT MANAGEMENT FEES**

	<u>Fair Value of Holdings (1)</u>	<u>Cash Equivalents</u>	<u>Accrued Income</u>	<u>Total Assets under Management</u>	<u>Fees</u>
<b><u>EQUITY MANAGERS</u></b>					
<b><u>ACTIVE</u></b>					
Timesquare Capital Management, LLC					
New York, NY	\$45,311,992	\$1,401,521	\$14,763	\$46,728,276	\$406,784
Earnest Partners; Atlanta, GA	45,643,622	760,806	43,766	46,448,194	261,530
Enhanced Investment Technologies, LLC; Palm Beach Gardens, FL	86,978,939	519,955	70,269	87,569,163	164,122
<b><u>PASSIVE</u></b>					
State Street Global Advisors; Boston, MA	82,048,013	-	-	82,048,013	26,345
<b><u>HEDGE</u></b>					
K2 Advisors; Stanford, CT (2)	70,958,560	-	-	70,958,560	-
<b><u>INTERNATIONAL INVESTMENT MANAGERS</u></b>					
<b><u>ACTIVE</u></b>					
Lazard International Strategic, New York, NY (2)	33,952,446	-	-	33,952,446	-
Harding Loevner; Bridgewater, NJ (2)	30,897,979	-	-	30,897,979	-
Wells Fargo Capital, Dallas, TX	35,607,526	138	-	35,607,664	123,360
Wasatch Advisors; Salt Lake City, UT (2)	-	-	-	-	-
<b><u>FIXED INCOME MANAGERS</u></b>					
<b><u>ACTIVE</u></b>					
Western Asset Management; Pasadena, CA	63,980,221	6,004,605	352,982	70,337,808	157,097
<b><u>PASSIVE</u></b>					
State Street Global Advisors; Boston, MA	75,910,134	-	-	75,910,134	7,198
Brandywine Global Investment Management, LLC Philadelphia, PA	-	-	-	-	164,532
<b><u>HEDGE</u></b>					
Pacific Hedged Strategies LLC; New York, NY (2)	34,497,051	-	-	34,497,051	-
<b><u>COMMODITIES</u></b>					
Commodities	26,637,864	-	-	26,637,864	-
<b><u>REAL ESTATE</u></b>					
Morgan Stanley Prime Property Fund; New York, NY (2)	63,921,589	-	589,175	64,510,764	-
TA Associates Realty; Boston, MA	-	-	-	-	-
<b><u>PRIVATE EQUITY</u></b>					
Siguler Guff; New York, NY (2)	31,402,466	-	-	31,402,466	-
<b><u>OTHER</u></b>					
Oklahoma City Judgments	4,262,085	-	135,219	4,397,304	-
Treasury Money Market	-	2,018,955	18,328	2,037,283	-
	<b><u>\$732,010,487</u></b>	<b><u>\$10,705,980</u></b>	<b><u>\$1,224,502</u></b>	<b><u>\$743,940,969</u></b>	<b><u>\$1,310,968</u></b>
<b><u>INTEREST AND DIVIDEND INCOME</u></b>					
Equities				(128,798)	
Fixed Income				(352,982)	
Judgments				(135,219)	
Real Estate				(589,175)	
Cash Equivalents				(18,328)	
				<b><u>\$742,716,467</u></b>	

- (1) For purposes of portfolio evaluation by the consultant and to follow the investment policy guidelines, the investment categorization on this schedule does not tie to the statements of fiduciary net assets. Interest income, dividend income and money market positions are included as shown above. See the investment summary for a reconciliation of this presentation to the statement of fiduciary net assets presentation.
- (2) Fees are netted with earnings for each respective fund.

**SCHEDULE OF FEES AND COMMISSIONS**  
**June 30, 2018**

**OKLAHOMA CITY EMPLOYEE**  
**RETIREMENT SYSTEM**

**OTHER INVESTMENT SERVICE FEES**

Custodial Fees	<u>\$276,608</u>
Investment Consultant Fees	<u>\$177,500</u>

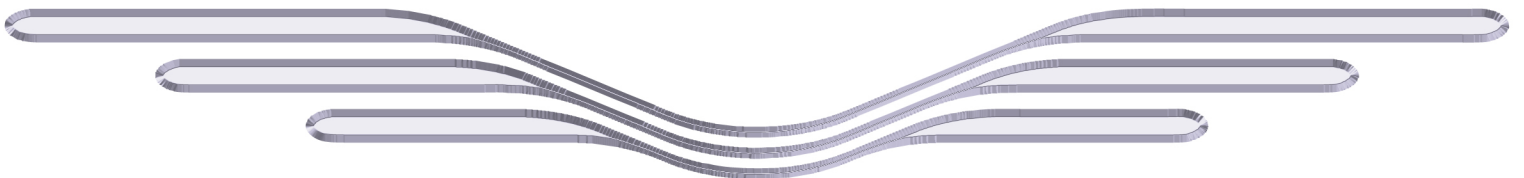
**BROKER COMMISSION (1)**

<u>Broker</u>	<u>Shares</u>	<u>Commission Expense</u>	<u>Average Cost/Share</u>
Merrill Lynch	165,800	\$5,331	0.032152473
Derivatives	2,280	4,607	2.020548246
Credit Suisse Securities	122,000	3,655	0.029957951
UBS Securities LLC	89,600	2,703	0.030163504
Deutsche Bank Securities	97,900	2,438	0.024901226
Virtu Americas LLC	47,700	2,230	0.046755765
Morgan Stanley	82,700	2,210	0.026725151
Industrial and Commercial Bank of China Financial	75,000	2,023	0.026969867
Sanford C. Bernstein & Co, LLC	71,128	1,760	0.024738359
J.P. Morgan Securities LLC	61,300	1,700	0.027734747
Citigroup Global Markets LLC	36,804	1,562	0.042438322
Cowen and Company LLC	38,532	1,349	0.035000519
Jefferies LLC	50,000	1,318	0.026357200
SG Americas Securities	38,600	1,285	0.033294560
Stifel, Nicolaus & Company, Inc.	24,292	1,085	0.044684670
Instinet LLC	39,500	1,044	0.026417722
All others \$1,000 or less	<u>449,222</u>	<u>14,355</u>	0.031955247
	<b><u>1,492,358</u></b>	<b><u>\$50,655</u></b>	

(1) The commissions are included in the net appreciation (depreciation) amounts reported in the financial statements.

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*Actuarial*





September 7, 2018

Board of Trustees  
Oklahoma City Employee Retirement System  
420 W. Main St., Suite 343  
Oklahoma City, Oklahoma 73102

Dear Board Members:

The basic financial objective of the Oklahoma City Employee Retirement System (OCERS) is to establish and receive contributions which, expressed as percentages of active member payroll, will remain approximately level from generation to generation of Oklahoma City citizens, and when combined with present assets and future investment return will be sufficient to meet the financial obligations of the System to present and future benefit recipients.

The purpose of the valuation was to determine contribution rates for the 2019-2020 fiscal year and to measure the System's funding progress. The valuation should not be relied upon for any other purpose. The valuation process develops contribution rates that are sufficient to fund the plan's normal cost (i.e., the costs assigned by the valuation method to the year of service about to be rendered), as well as to fund the unfunded actuarial accrued liabilities as a level percent of active member payroll over a finite period. The valuation was completed based upon population data, asset data, and plan provisions in effect on December 31, 2017.

The valuation was based upon information, furnished by the plan's administrative staff, concerning Retirement System benefits, financial transactions, and individual members, terminated members, retirees and beneficiaries. We checked the data for internal and year to year consistency, but did not audit the data. As a result, we do not assume responsibility for the accuracy or completeness of the data provided.

The actuary prepared the following supporting schedules for the Comprehensive Annual Financial Report:

- Solvency Test-Schedule of Funding Progress
- Summary of Benefit Provisions Evaluated or Considered
- Schedule of Retirants and Beneficiaries as of the Valuation Date
- Schedule of Active and Inactive Member Valuation Data
- Summary of Actuarial Assumptions and Methods
- Analysis of Financial Experience – Derivation of Experience Gain (Loss) for Valuation Years 2013-2017
- Schedule of Retirees and Beneficiaries Added to and Removed from Rolls
- Schedule of Funding Progress
- Brief Summary of Actuarial Assumptions and Methods



In addition, we prepared actuarial schedules in connection with GASB Statement Numbers 67 and 68. These were provided in a separate communication.

Assets are valued on a market related basis that recognizes a portion of each year's investment gain or loss over a closed four-year period. Annual actuarial valuations are based upon assumptions regarding future activity in specific risk areas including the rate of investment return and payroll growth, eligibility for the various classes of benefits and longevity among retired lives. These assumptions are adopted by the Board after considering the advice of the actuary and other professionals. Each actuarial valuation takes into account all prior differences between actual and assumed experience in each risk area and adjusts the contribution rates as needed.

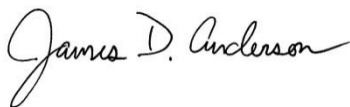
The December 31, 2017 valuation was based upon assumptions that were recommended in connection with a 2013 study of System experience. Future actuarial measurements may differ significantly from those presented in the annual valuations due to such factors as experience differing from that anticipated by actuarial assumptions, changes in plan provisions, actuarial assumptions/methods or applicable law. Due to the limited scope of the assignment, we did not perform an analysis of the potential range of future measurements.

Based upon the results of the December 31, 2017 valuation, we are pleased to report to the Board that the Retirement System is meeting its basic financial objective and continues to operate in accordance with actuarial principles of level percent of payroll financing. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice (ASOP) issued by the Actuarial Standards Board. The assumptions and methods used for funding purposes meet the parameters set by the ASOPs. The signing actuaries are independent of the plan sponsor. Louise Gates and James D. Anderson are Members of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,



Louise M. Gates, ASA, FCA, MAAA



James D. Anderson, FSA, EA, FCA, MAAA

Enclosures

cc: Rena Hutton (Retirement System Administrator)





## Solvency Test – Schedule of Funding Progress (dollar amounts in thousands)

Accrued Liabilities (AL)									
Valuation Date	(1) Member Contribs.	(2) Retirants and Beneficiaries	(3) Active & Inactive Members (Employer Financed Portion)	Total AL	Funding Value of Assets	Portion of Liabilities Covered by Assets			
						(1)	(2)	(3)	Overall
12/31/98	\$37,900	\$ 82,258	\$ 118,498	\$ 238,656	\$ 260,877	100 %	100 %	119 %	109 %
12/31/99	39,866	85,724	120,316	245,906	307,872	100	100	152	125
12/31/00	41,550	100,936	180,814	323,300	350,398	100	100	115	108
12/31/01	42,226	116,552	185,819	344,597	372,737	100	100	115	108
12/31/02	44,368	128,120	200,072	372,560	375,382	100	100	101	101
12/31/03	46,654	136,873	207,496	391,023	374,192	100	100	92	96
12/31/04	48,487	150,664	216,013	415,164	381,495	100	100	84	92
12/31/05	54,239	169,752	212,913	436,904	424,182	100	100	94	97
12/31/06	55,557	187,693	214,297	457,547	476,913	100	100	109	104
12/31/07	60,118	204,470	224,239	488,827	529,876	100	100	118	108
12/31/08	62,128	221,456	235,650	519,234	528,664	100	100	104	102
12/31/09	65,106	237,302	254,019	556,427	529,137	100	100	89	95
12/31/10	64,922	267,120	234,792	566,834	524,731	100	100	82	93
12/31/11	67,324	252,166	214,229	533,719	514,499	100	100	91	96
12/31/12	69,987	257,057	226,544	553,588	547,686	100	100	97	99
12/31/13	72,209	281,206	228,451	581,866	589,527	100	100	103	101
12/31/14	74,142	297,061	236,092	607,295	628,686	100	100	109	104
12/31/15	74,832	320,443	238,710	633,985	665,077	100	100	113	105
12/31/16	76,435	347,246	237,531	661,212	692,359	100	100	113	105
12/31/17	78,265	378,063	240,341	696,669	721,090	100	100	110	104

## Summary of Benefit Provisions Evaluated or Considered (December 31, 2017)

### Regular Retirement (no reduction factor for age)

**Eligibility** - Pre 3-1-67 hires: Age 60 with 20 years of service; or, any age with 30 years of service.

Post 3-1-67 hires: Age 65 with 5 years of service; or, any age with 25 years of service.

**Annual Amount** - Normal retirement benefit: 2% of average final compensation for all years and complete months of service, to a maximum of 100% of AFC.

**Average Final Compensation (AFC)** - Average earned compensation (excluding compensation for unused vacation and sick leave) during highest 36 months of service out of the last 60 consecutive months of service.

### Early Retirement (reduction factor for age)

**Eligibility** - Age 55 with 5 years of service.

**Annual Amount** - Same as regular retirement amount but reduced 4% for each full year or portion of a year that payments commence prior to age 65 (age 60 if hired prior to 3-1-67).

### Deferred Retirement (vested benefit)

**Eligibility** - 5 years of service. Benefit begins at age 65 (age 60 if hired prior to 3-1-67) or at age 55 on a reduced basis.

**Annual Amount** - Same as regular retirement based on service and average final compensation at time of termination.

### Duty Disability Retirement

**Eligibility** - No age or service requirements.

**Annual Amount** - 40% of average final compensation, reduced if degree of disability is less than total disability.

### Non-Duty Disability Retirement

**Eligibility** - Any age with 15 years of service.

**Annual Amount** - 2% of average final compensation for each full year of service, plus 1/12 of 2% for each full month of service due to a partial year of service to a maximum of 40% of AFC. Amount is reduced if degree of disability is less than total disability.

# Summary of Benefit Provisions Evaluated or Considered (December 31, 2017)

## Duty Death Before Retirement

**Eligibility** - No age or service requirements.

**Annual Amount** - 20% of average final compensation to an eligible spouse. Payments cease upon death. If there is no eligible spouse, accumulated employee contributions are paid to designated beneficiary. For members eligible under age and service conditions, the benefit is the amount the spouse would have received as a joint annuitant under normal or early retirement conditions.

## Non-Duty Death Before Retirement

**Eligibility** - Any age with 15 years of service.

**Annual Amount** - Same as duty death.

## Post-Retirement Adjustments

Pensions may be adjusted annually (in January) for changes in the Consumer Price Index. The maximum adjustment is 2% per year compounded. The first adjustment is made one year following retirement for those age 65 (60 for pre 3-1-67 hires) or those awarded disability allowances. For all others, the first adjustment is made no earlier than 4 years following retirement.

## Post-Retirement Death Benefit

**Eligibility** – Retiree currently collecting pension benefits from the System.

**Amount** – A one-time payment of \$5,000 payable upon the death of the retiree. This benefit is payable only upon the death of the retiree, and is payable to the designated beneficiary.

## Member Contributions

6% of annual pay.

## Employer Contributions

7% of annual payroll effective March 2, 2001 – December 31, 2005.

The actuarially determined contribution rate (up to a maximum of 10% of pay) effective January 1, 2006.

## Partial Lump Sum Payment Option

Members who are eligible for Regular Retirement may elect this optional form of payment, which allows for cash at retirement of up to \$30,000. Any remaining monthly retirement benefit is reduced actuarially to reflect the payment of cash at retirement.

## Schedule of Retirants and Beneficiaries as of the Valuation Date

Valuation Date	No. of Pension Recipients				Total Annual Pensions <sup>(2)</sup>	% of Payroll	Average Annual Pension	% Incr. in Total Pensions
	Service	Disability	Survivor	Total				
1998	633	56	202	891	\$ 7,134,692	9.0 %	\$ 8,008	4.6 %
1999	643	56	202	901	7,470,215	9.2	8,291	4.7
2000 <sup>(1)</sup>	646	61	203	910	9,188,323	11.4	10,097	23.0
2001	694	63	205	962	10,386,513	12.4	10,797	13.0
2002	725	65	210	1,000	11,261,772	13.0	11,262	8.4
2003	731	68	207	1,006	11,972,938	14.0	11,902	6.3
2004	773	66	207	1,046	13,038,432	14.7	12,465	8.9
2005	796	67	213	1,076	14,355,655	15.7	13,342	10.1
2006	823	69	221	1,113	15,766,306	16.5	14,166	9.8
2007	854	66	233	1,153	17,117,037	17.2	14,846	8.6
2008	894	59	225	1,178	18,459,873	17.5	15,671	7.8
2009	936	56	226	1,218	19,673,159	17.8	16,152	6.6
2010	995	59	229	1,283	21,945,667	21.3	17,105	11.6
2011	1018	56	225	1,299	22,946,844	21.0	17,665	4.6
2012	1,030	55	239	1,324	23,757,916	20.7	17,944	3.5
2013	1,062	54	229	1,345	25,047,506	21.0	18,623	5.4
2014	1,101	55	224	1,380	26,599,897	21.4	19,275	6.2
2015	1,144	55	223	1,422	28,481,665	22.2	20,029	7.1
2016	1,211	57	223	1,491	30,700,847	24.2	20,591	7.8
2017	1,264	51	230	1,545	32,813,000	26.3	21,238	6.9

(1) Reflects a one-time increase resulting from purchasing power study.

(2) Annual pension amounts shown above are reported to the actuary by the City and reflect annual pension payments as of the indicated valuation date.

## Schedule of Active and Inactive Member Valuation Data

Valuation Date Dec. 31	Number of		Annual Payroll <sup>(1)</sup>	Active Member Averages			Ratio of Active to Retired Members	% Increase/ (Decrease) in Avg Pay
	Active Members	Inactive Members		Age	Service	Pay		
1997	2,418	19	\$74,752	43.3 yrs	11.1 yrs	\$30,908	2.7	4.6 %
1998	2,404	25	79,195	43.7	11.6	32,929	2.7	6.5
1999	2,453	36	80,897	43.8	11.6	32,979	2.7	0.2
2000	2,454	41	80,503	44.0	11.6	32,805	2.7	(0.5)
2001	2,454	49	83,862	44.0	11.4	34,174	2.6	4.2
2002	2,374	55	86,428	44.5	11.7	36,406	2.4	6.5
2003	2,290	61	85,666	45.2	12.3	37,409	2.3	2.8
2004	2,302	54	88,866	45.2	12.3	38,604	2.2	3.2
2005	2,312	58	91,641	45.5	12.3	39,637	2.1	2.7
2006	2,353	62	95,504	45.5	12.1	40,588	2.1	2.4
2007	2,380	66	99,574	45.5	12.0	41,838	2.1	3.1
2008	2,422	71	105,566	45.8	11.9	43,586	2.1	4.2
2009	2,380	73	110,408	46.3	12.3	46,390	2.0	6.4
2010	2,304	81	102,915	46.4	12.3	44,668	1.8	(3.7)
2011	2,398	75	109,293	46.3	12.1	45,577	1.8	2.0
2012	2,459	83	114,933	46.4	12.0	46,740	1.9	2.6
2013	2,487	82	119,457	46.4	11.9	48,032	1.8	2.8
2014	2,500	82	124,142	46.5	11.9	49,657	1.8	3.4
2015	2,586	89	128,499	46.5	11.3	49,690	1.8	0.1
2016	2,506	108	127,017	46.6	11.6	50,685	1.7	2.0
2017	2,425	120	124,681	46.8	11.8	51,415	1.6	1.4

(1) In thousands of dollars.

# Summary of Actuarial Assumptions and Methods

## 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 individual entry-age actuarial cost method and has the following characteristics.

- (i) The annual normal costs for each individual active member, payable from the date of employment to the date of retirement, are sufficient to accumulate the value of the member's pension at time of retirement.
- (ii) Each annual normal cost is a constant percentage of the member's year by year projected compensation.

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

The portion of the actuarial present value 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 accrued liability. Deducting System assets from the actuarial accrued liability determines the unfunded actuarial accrued liability.

## Experience Gains and Losses

Experience gains and losses are the difference between actual experience and the experience anticipated by the actuarial assumptions during the period between two actuarial valuation dates. The recognition of gains and losses is based on the provisions of the Retirement System ordinance.

## Asset Valuation Method

The funding value of assets recognizes assumed investment income fully each year. Differences between actual and assumed investment income are phased-in over a closed 4-year period. During periods when investment performance exceeds the assumed rate, funding value of assets will tend to be lower than market value. During periods when investment performance is less than the assumed rate, funding value of assets will tend to be greater than market value. The funding value of assets is unbiased with respect to market value. At any time it may be either greater or less than market value. If assumed rates are exactly realized for 4 consecutive years, it will become equal to market value.

The actuarial assumptions were based upon the results of an experience study for the System covering the period January 1, 2008 through December 31, 2012. A report dated December 4, 2013 presented the results of the experience study. The actuarial assumptions represent estimates of future experience.

## Summary of Actuarial Assumptions and Methods

### Investment Return (net of expenses).

The rate of investment return assumed in the valuation was 7.10% per year, compounded annually net of investment and administrative expenses. The assumed real rate of return over wage inflation is 3.85% per year.

### Wage Inflation

The wage inflation rate assumed in this valuation was 3.25% per year. The wage inflation rate is defined to be the portion of total pay increases for an individual that are due to macroeconomic forces including productivity, price inflation, and labor market conditions. The wage inflation rate does not include pay changes rated to individual merit and seniority effects.

### Salary Increase Rates

These assumptions are used to project current pays to those which will determine average final compensation.

Sample Years of Service	Annual Rate of Merit and Longevity
1	3.50 %
2	3.50
3	3.50
4	3.50
5	3.50
6	3.50
7	3.50
8	3.50
9	3.50
10	3.50
11	3.50
12	3.50
13	3.50
14	3.00
15+	0.00

The active member population is assumed to remain constant. For purposes of financing the unfunded liabilities, total payroll is assumed to grow at a rate of 3.25% per year.

### Price Inflation

The assumed rate of price inflation used in this valuation was 2.25% per year.

## Summary of Actuarial Assumptions and Methods

**Mortality rates** are used to measure the probabilities of a member dying before retirement and the probability of each benefit payment being made. The RP 2000 mortality table projected to 2010 was used in this valuation of the System. This table was used by the Oklahoma Public Employees Retirement System (OPERS) at the time of the last System experience study. Sample statistics are shown below. This table was first used in the December, 31, 2013 valuation.

Sample Ages	Value at Retirement of \$1 Monthly for Life		Future Life Expectancy (Years)	
	Men	Women	Men	Women
50	\$149.34	\$152.27	31.81	34.12
55	140.72	144.52	27.13	29.40
60	129.86	134.77	22.62	24.85
65	116.94	123.16	18.40	20.57
70	102.32	109.95	14.56	16.65
75	85.86	95.27	11.08	13.11
80	68.61	79.30	8.09	9.96

**Rates of Retirement** are used to measure the probabilities of an eligible member retiring during the next year, and are summarized below. These rates were first used for the December 31, 2013 valuation.

Age of Member	Percent of Eligible Members Retiring During Next Year	Years of Service	Percent Retiring
55	6%	25	15%
56	6	26	10
57	6	27	10
58	6	28	10
59	6	29	10
60	6	30	10
61	6	31	10
62	6	32	10
63	6	33	10
64	6	34	10
65	40	35	10
66	25	36	10
67	25	37	10
68	30	38	10
69	40	39	10
70	100	40	20
		41	10
		42	20
		43	10
		44	10
		45	100

The service based retirement rates were applied to those members first eligible to retire under "25 and out". The age based retirement rates were applied to members retiring under '65/5' or the Plan's early retirement condition. The probability of retiring at age 70 was assumed to be 100% regardless of service.



## Summary of Actuarial Assumptions and Methods

### 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.

Sample Ages	Years of Service	% of Active Members Separating within Next Year
ALL	0	25.00%
	1	17.00
	2	12.00
	3	8.00
	4	6.00
25	5 & Over	7.00
30		6.00
35		4.75
40		3.50
45		2.40
50		1.50
55		1.00
60	1.00	

### Rates of Disability

This assumption measures the probabilities of a member becoming disabled.

Age of Member	% of Active Members During Next Year	
	Males	Females
25	0.08%	0.06%
30	0.09	0.07
35	0.11	0.09
40	0.14	0.13
45	0.21	0.19
50	0.62	0.57
55	0.97	0.86
60	1.10	0.96

Disabled life mortality is measured by the RP 2000 mortality table projected to 2010 at time of disability.

**Marriage Assumption.** 80% of the population is assumed to be married for purposes of death-in-service benefits.

**Forfeitures.** All vested terminated members who terminate close to retirement were assumed to elect a deferred retirement while those terminating with less service were assumed to elect a refund of their contributions in lieu of deferred retirement benefits.

## Analysis of Financial Experience

### Derivation of Experience Gain (Loss)

### for Valuation Years 2013 - 2017

Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is hoped that gains and losses will cancel each other over a period of years, but sizable year to year fluctuations are common. Detail on the derivation of the experience gain (loss) is shown below, along with a year by year historic comparison.

	Amounts Shown are Expressed in Thousands of Dollars				
	2017	2016	2015	2014	2013
(1) UAAL* at start of year	\$ (31,147)	\$ (31,092)	\$ (21,391)	\$ (7,661)	\$ 5,902
(2) Normal cost	15,735	16,017	15,767	15,170	14,550
(3) Actual member and employer contributions	15,095	14,496	15,812	15,608	17,827
(4) Interest accrual on (1), (2) and (3)	(2,281)	(2,245)	(1,606)	(591)	320
(5) Expected UAAL before changes: (1) + (2) - (3) + (4)	(32,788)	(31,816)	(23,042)	(8,690)	2,945
(6) Increase due to benefit/assumption changes	15,886	0	7,149	0	3,568
(7) Increase due to revised actuarial methods	0	0	0	0	0
(8) Expected UAAL after changes: (5) + (6) + (7)	(16,902)	(31,816)	(15,893)	(8,690)	6,513
(9) Actual UAAL at end of year	(24,421)	(31,147)	(31,092)	(21,391)	(7,661)
(10) Gain (loss): (8) - (9)	7,519	(669)	15,199	12,701	14,174

\* *Unfunded Actuarial Accrued Liability (UAAL).*

A detailed analysis of gain or loss by source is not available for the years shown above.

## Schedule of Retirees and Beneficiaries Added to and Removed from Rolls Comparative Statement

Year Ended Dec. 31	Added to Rolls <sup>(2)</sup>		Removed from Rolls		Rolls End of Year			% Incr. in Benefits
	No.	Annual Benefits <sup>(1)</sup>	No.	Annual Benefits	No.	Annual Benefits	Avg. Annual Benefits	
2009	86	\$1,905,592	46	\$692,306	1,218	\$ 19,673,159	\$ 16,152	6.6 %
2010	120	3,059,254	55	786,746	1,283	21,945,667	17,105	11.6
2011	70	1,778,917	54	777,740	1,299	22,946,844	17,665	4.6
2012	74	1,467,021	49	655,949	1,324	23,757,916	17,944	3.5
2013	86	2,215,300	65	925,710	1,345	25,047,506	18,623	5.4
2014	95	2,483,415	60	931,024	1,380	26,599,897	19,275	6.2
2015	102	2,868,873	60	987,105	1,422	28,481,665	20,029	7.1
2016	108	2,856,572	39	637,390	1,491	30,700,847	20,591	7.8
2017	107	2,944,277	53	832,124	1,545	32,813,000	21,238	6.9

(1) Includes post retirement cost-of-living adjustments.

(2) Includes reported data corrections.

## Schedule of Funding Progress<sup>(1)</sup>

Actuarial Valuation Date December 31,	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b)-(a)	Funded Ratio (a)/(b)	Active Member Covered Payroll (c)	UAAL as a Percentage of Active Member Covered Payroll ((b-a)/c)
2007	\$529,876	\$488,827	\$(41,049)	108.4 %	\$ 99,574	(41.2) %
2008	528,664	519,234	(9,430)	101.8	105,566	(8.9)
2009	529,137	556,427	27,290	95.1	110,408	24.7
2010	524,731	566,834	42,103	92.6	102,915	40.9
2011 <sup>*#</sup>	514,499	533,719	19,220	96.4	109,293	17.6
2012	547,686	553,588	5,902	98.9	114,933	5.1
2013 <sup>#</sup>	589,527	581,866	(7,661)	101.3	119,457	(6.4)
2014	628,686	607,295	(21,391)	103.5	124,142	(17.2)
2015 <sup>#</sup>	665,077	633,985	(31,092)	104.9	128,499	(24.2)
2016	692,359	661,212	(31,147)	104.7	127,017	(24.5)
2017 <sup>#</sup>	721,090	696,669	(24,421)	103.5	124,681	(19.6)

(1) Dollar amounts are in thousands.

# Changes in methods and assumptions.

\* Plan provision changes.

## Schedule of Contributions

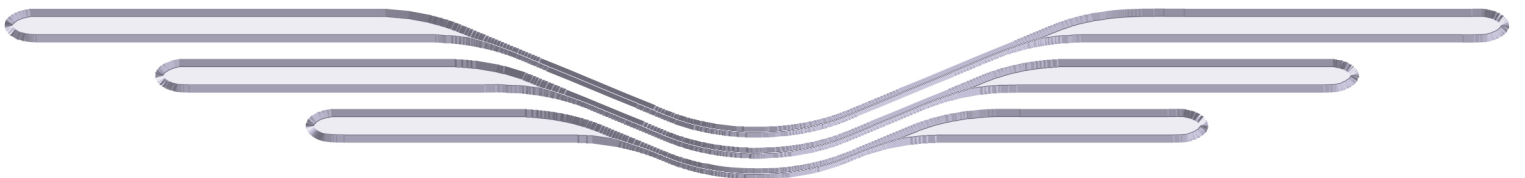
Last 10 Fiscal Years (Which May be Built Prospectively)

FY Ending June 30,	Actuarially Determined Contribution	Actual Contribution	Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll
2009					
2010					
2011					
2012					
2013					
2014	\$ 8,934,457	\$ 8,871,692	\$ 62,765	\$ 124,957,446	7.10%
2015	8,230,702	8,207,083	23,619	127,805,936	6.42%
2016	7,410,919	7,411,117	(198)	126,036,039	5.88%
2017	6,088,631	6,871,464	(782,833)	114,233,221	6.02%
2018	6,878,447	7,056,707	(178,260)	130,273,619	5.42%

## Summary of Actuarial Methods and Assumptions

Valuation Date	December 31, 2017
Actuarial Cost Method	Individual Entry Age
Amortization Method	Level Percent of payroll
Amortization Period	24 years closed
Asset Valuation Method	4-year smoothed market
Actuarial Assumptions:	
Investment Rate of Return	7.10%
Projected Salary Increases*	3.25% - 6.75%
*Includes Wage Inflation	3.25%
Cost-of-Living Adjustments	Up to 2.0% per year

*Statistical*







This section of the Oklahoma City Employee Retirement System's (System) Comprehensive Annual Financial Report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information say about overall financial health. This information has not been audited by the independent auditor.

***Financial Trends***

These schedules contain trend information to help the reader understand how the System's financial performance and well-being changed over time. The schedules include the schedule of changes in fiduciary net position for the last ten years.

***Benefit Information***

These schedules contain data to help the reader understand how the information in the System's financial report relates to the benefits provided to members. The schedules include the schedule of benefit and refund deductions from net position by type and the schedule of average benefit payments for the last ten years, as well as, the schedule of retired members by benefit type as of the actuarial date.

**SCHEDULE OF CHANGES  
IN FIDUCIARY NET POSITION  
Last Ten Fiscal Years**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

	Fiscal Year				
	2018	2017	2016	2015	2014
<b><u>ADDITIONS</u></b>					
Member contributions	\$8,018,245	\$7,732,271	\$7,562,163	\$7,668,356	\$7,421,749
Employer contributions	7,056,707	6,871,465	7,411,117	8,207,083	8,871,692
As a percentage of covered payroll (1)	5.56%	5.23%	5.88%	6.44%	7.15%
Investment income, net of expenses	58,534,108	72,212,737	(4,840,459)	25,206,761	94,658,124
Other revenues and transfers	99,916	96,982	68,029	130,719	95,319
Total additions	<u>73,708,976</u>	<u>86,913,455</u>	<u>10,200,850</u>	<u>41,212,919</u>	<u>111,046,884</u>
<b><u>DEDUCTIONS</u></b>					
Benefits	34,063,359	32,208,452	29,712,236	27,913,256	26,311,079
Refunds of contributions	1,474,949	1,236,567	1,131,613	1,166,506	1,037,043
Administrative expenses	504,102	458,520	397,730	445,438	461,529
Total deductions	<u>36,042,410</u>	<u>33,903,539</u>	<u>31,241,579</u>	<u>29,525,200</u>	<u>27,809,651</u>
<b>Change in net position</b>	<b><u>\$37,666,566</u></b>	<b><u>\$53,009,916</u></b>	<b><u>(\$21,040,729)</u></b>	<b><u>\$11,687,719</u></b>	<b><u>\$83,237,233</u></b>

	Fiscal Year				
	2013	2012	2011	2010	2009
<b><u>ADDITIONS</u></b>					
Member contributions	\$7,163,848	\$6,284,934	\$6,455,918	\$6,520,844	\$6,163,902
Employer contributions	11,320,094	7,132,772	5,585,595	5,464,178	7,211,608
As a percentage of covered payroll (1)	9.49%	8.56%	6.77%	5.04%	6.16%
Investment income, net of expenses (2)	63,652,351	83,749,300	43,651,980	(84,311,983)	(18,921,048)
Other revenues and transfers	189,958	204,707	459,817	500,973	541,652
Total additions	<u>82,326,251</u>	<u>97,371,713</u>	<u>56,153,310</u>	<u>(71,825,988)</u>	<u>(5,003,886)</u>
<b><u>DEDUCTIONS</u></b>					
Benefits	24,827,093	23,286,808	21,573,879	19,693,836	18,796,264
Refunds of contributions	903,029	819,060	921,698	996,700	850,590
Administrative expenses	468,753	429,338	390,512	429,296	381,455
Total deductions	<u>26,198,875</u>	<u>24,535,206</u>	<u>22,886,089</u>	<u>21,119,832</u>	<u>20,028,309</u>
<b>Change in net position</b>	<b><u>\$56,127,376</u></b>	<b><u>\$72,836,507</u></b>	<b><u>\$33,267,221</u></b>	<b><u>(\$92,945,820)</u></b>	<b><u>(\$25,032,195)</u></b>

- (1) Prior to July 1, 2008, the employer contribution rate changed on January 1 of each year. The policy was changed in 2009 to change the rate on July 1 of each year.
- (2) Investment income was significantly affected by declines in market values in 2009 and 2008 in conjunction with national economic recessions.

**SCHEDULE OF BENEFIT AND REFUND  
DEDUCTIONS FROM NET POSITION BY TYPE  
Last Ten Calendar Years**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

Year <u>Ending (1)</u>	Age & Service <u>Benefits</u>		Disability Benefits <u>Retirants</u>		<u>Death</u>	Total <u>Benefits (2)</u>	Separation <u>Refunds</u>
	<u>Retirees</u>	<u>Survivors</u>	<u>Duty</u>	<u>Non-Duty</u>			
6/30/2018	\$30,092,314	\$3,145,045	\$266,733	\$366,767	\$192,500	\$34,063,359	\$1,474,949
6/30/2017	28,443,257	2,929,177	245,772	420,246	170,000	32,208,452	1,236,567
6/30/2016	26,131,784	2,781,979	246,305	402,168	150,000	29,712,236	1,131,613
12/31/2014	23,188,546	2,780,818	254,383	376,150	-	26,599,897	1,219,379
12/31/2013	21,704,920	2,741,337	258,581	342,668	-	25,047,506	1,070,270
12/31/2012	20,484,825	2,688,606	240,528	343,957	-	23,757,916	995,842
12/31/2011	19,868,406	2,473,567	246,933	357,938	-	22,946,844	1,099,826
12/31/2010	18,812,865	2,472,410	225,454	434,938	-	21,945,667	899,878
12/31/2009	16,753,895	2,322,037	219,526	341,310	-	19,636,768	947,693
12/31/2008	15,698,808	2,166,615	235,047	359,403	-	18,459,873	807,503

- (1) Beginning in 2016, information is presented on a fiscal year basis. In years prior to 2016, calendar year has been used to correspond with the actuarial analysis and will not tie to the financial statements.  
(2) Total benefits does not include death benefits before 2016.

**SCHEDULE OF RETIRED  
MEMBERS BY BENEFIT TYPE  
As of June 30, 2018**

**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

<u>Amount of Monthly Benefit</u>	<u>Number of Retirees</u>	<u>Type of Retirements (1)</u>						<u>Life</u>	<u>Death Benefit</u>	<u>Option Selected (2)</u>		
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>			<u>Opt. 1</u>	<u>Opt. 2</u>	<u>Opt. 3</u>
Deferred	120	-	-	-	-	-	-	-	-	-	-	-
\$1-250	24	4	7	8	1	4	-	10	-	8	-	6
251-500	108	23	53	22	3	6	1	55	2	29	5	17
501-750	160	41	64	39	11	3	2	61	6	46	12	35
751-1,000	150	40	58	28	15	6	3	59	11	33	13	34
1,001-1,250	142	48	53	27	6	2	6	65	1	41	9	26
1,251-1,500	112	54	32	17	-	1	8	52	-	30	10	20
1,501-1,750	150	102	23	18	1	3	3	62	-	40	21	27
1,751-2,000	116	92	15	7	1	-	1	49	-	35	16	16
Over 2,000	<u>583</u>	<u>539</u>	<u>16</u>	<u>19</u>	<u>7</u>	<u>-</u>	<u>2</u>	<u>277</u>	<u>-</u>	<u>150</u>	<u>54</u>	<u>102</u>
	<b><u>1,665</u></b>	<b><u>943</u></b>	<b><u>321</u></b>	<b><u>185</u></b>	<b><u>45</u></b>	<b><u>25</u></b>	<b><u>26</u></b>	<b><u>690</u></b>	<b><u>20</u></b>	<b><u>412</u></b>	<b><u>140</u></b>	<b><u>283</u></b>

- (1) Type of Retirement  
1 - Normal retirement for age and service  
2 - Early retirement  
3 - Survivor payments – death after retirement  
4 - Survivor payments - death in service  
5 - Duty disability retirement  
6 - Non-duty disability retirement
- (2) Option Selected  
Life - Single life  
Death Benefit - 20% of average final compensation  
Opt. 1 - 100% of retiree’s benefit payable to survivor  
Opt. 2 - 75% of retiree’s benefit payable to survivor  
Opt. 3 - 50% of retiree’s benefit payable to survivor

**SCHEDULE OF AVERAGE  
BENEFIT PAYMENTS (1)  
Last Ten Calendar Years**

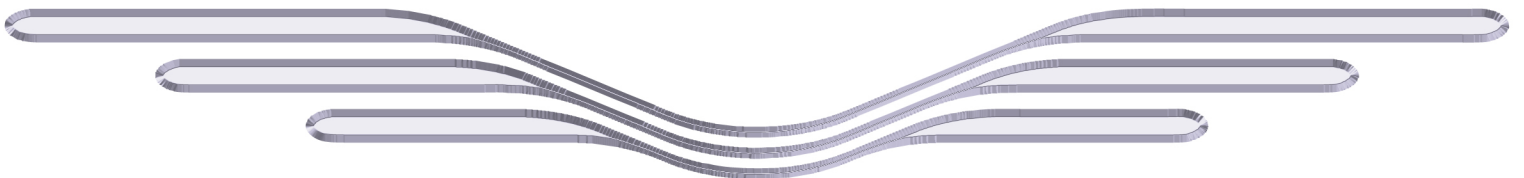
**OKLAHOMA CITY EMPLOYEE  
RETIREMENT SYSTEM**

	<b>Years of Credited Service (2)</b>					
	<b>5-9</b>	<b>10-14</b>	<b>15-19</b>	<b>20-24</b>	<b>25-29</b>	<b>30+</b>
<b>Period 1/1/17 to 12/31/17</b>						
Average Monthly Benefit	\$672	\$692	\$1,331	\$1,581	\$2,614	\$3,395
Final Average Salary	4,518	3,948	4,343	5,218	5,304	5,136
Number of Active Retirees	5	13	11	5	23	25
<b>Period 1/1/16 to 12/31/16</b>						
Average Monthly Benefit	\$381	\$1,119	\$1,725	\$1,915	\$2,509	\$3,373
Final Average Salary	3,633	5,444	4,355	5,424	5,186	5,135
Number of Active Retirees	7	12	7	9	27	25
<b>Period 1/1/15 to 12/31/15</b>						
Average Monthly Benefit	\$401	\$1,103	\$996	\$1,717	\$2,738	\$3,554
Final Average Salary	3,507	4,888	3,602	4,386	5,562	5,493
Number of Active Retirees	7	3	12	6	30	25
<b>Period 1/1/14 to 12/31/14</b>						
Average Monthly Benefit	\$319	\$835	\$1,010	\$1,970	\$2,422	\$3,126
Final Average Salary	3,424	3,496	3,482	4,978	4,921	5,025
Number of Active Retirees	6	10	7	7	23	24
<b>Period 1/1/13 to 12/31/13</b>						
Average Monthly Benefit	\$441	\$958	\$1,280	\$1,734	\$2,288	\$3,470
Final Average Salary	3,649	4,295	4,516	4,747	4,888	5,223
Number of Active Retirees	6	10	7	10	20	15
<b>Period 1/1/12 to 12/31/12</b>						
Average Monthly Benefit	\$709	\$1,011	\$1,730	\$1,461	\$2,284	\$3,073
Final Average Salary	4,912	4,836	5,705	4,158	4,821	4,864
Number of Active Retirees	1	3	5	15	16	8
<b>Period 1/1/11 to 12/31/11</b>						
Average Monthly Benefit	\$547	\$1,227	\$1,894	\$2,405	\$2,322	\$3,230
Final Average Salary	4,607	4,094	6,646	6,568	4,572	4,844
Number of Active Retirees	7	3	4	4	18	13
<b>Period 1/1/10 to 12/31/10</b>						
Average Monthly Benefit	\$562	\$646	\$1,235	\$1,732	\$2,182	\$2,996
Final Average Salary	3,909	3,269	4,387	4,741	4,588	4,853
Number of Active Retirees	2	9	7	8	42	24
<b>Period 1/1/09 to 12/31/09</b>						
Average Monthly Benefit	\$328	\$795	\$1,095	\$1,711	\$1,933	\$2,891
Final Average Salary	2,415	3,468	3,538	4,778	4,091	4,775
Number of Active Retirees	2	6	10	6	25	20
<b>Period 1/1/08 to 12/31/08</b>						
Average Monthly Benefit	\$431	\$616	\$983	\$1,380	\$2,084	\$3,006
Final Average Salary	3,589	3,018	3,600	4,071	4,374	4,672
Number of Active Retirees	6	5	11	7	31	8

(1) Retirement Effective Dates 1/1/08 to 12/31/17

(2) No benefits are earned for 0-4 years of credited services.

*Other*





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 Board of Trustees  
**Oklahoma City Employee Retirement System**  
Oklahoma City, Oklahoma

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 Oklahoma City Employee Retirement System (System) as of and for the years ended June 30, 2018 and 2017, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents, and have issued our report thereon dated December 21, 2018.

### **Internal Control over Financial Reporting**

In planning and performing our audits of the financial statements, we considered the System's 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 our opinions on the effectiveness of the System's internal control. Accordingly, we do not express opinions on the effectiveness of the System's 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 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 audits we did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the System's financial statements are free of 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 audits 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 System'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 System's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

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

December 21, 2018  
Wichita, Kansas