

REPORT OF

MISSOURI STATE PUBLIC EMPLOYEES

DEFERRED COMPENSATION INCENTIVE PLAN

JUNE 30, 2019



Independent Auditor's Report

To the Board of Trustees
Missouri State Employees' Retirement System
Jefferson City, Missouri

Report on the Financial Statements

We have audited the accompanying financial statements of the Missouri State Employees' Retirement System Deferred Compensation Incentive Plan (the Plan) which comprise the statement of fiduciary net position as of June 30, 2019, and the related statement of changes in fiduciary net position for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

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

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Plan's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

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

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary financial position as of June 30, 2019, and the respective statement of changes in fiduciary net position for the year then ended in conformity 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 identified 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.

A handwritten signature in cursive script that reads "Eide Bailly LLP".

Boise, Idaho
December 13, 2019

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MANAGEMENT'S DISCUSSION AND ANALYSIS

For the Year Ended June 30, 2019

This discussion and analysis of the Missouri State Public Employees Deferred Compensation Incentive Plan (the "Plan") financial performance provides an overview of the Plan's financial activities for the year ended June 30, 2019. Please read it in conjunction with the Plan's financial statements, which follow this section.

Financial Highlights

- Assets available for plan benefits at June 30, 2019, were \$649,795,847, an increase of \$23,006,415 or 3.67% compared to June 30, 2018 assets available for plan benefits of \$626,789,432. These funds are available for distribution to plan participants in accordance with Plan provisions.
- Total additions were \$81,716,740 for the year ended June 30, 2019, resulting primarily from \$56,520,064 rollovers and transfers from other plans and \$24,600,021 from positive investment income for the year. For the year ended June 30, 2018, total additions were \$94,080,691, resulting primarily from \$62,191,060 rollovers and transfers from other plans and \$31,323,800 positive investment income.
- Total deductions were \$58,710,325 and \$49,314,331 for the years ended June 30, 2019 and 2018, respectively. Substantially all of the deductions were due to distributions to participants.
- At June 30, 2019, the number of active and terminated participants (those with a balance in their account) decreased to 32,848 compared to 34,437 at June 30, 2018.

Overview of the Financial Statements

The Plan is established as a profit sharing incentive plan as authorized by Section 401(a) of the Internal Revenue Code (IRC), as amended. Participants who are active participants in the Missouri State Public Employees Deferred Compensation Plan, who have been an employee of a participating employer for at least 12 consecutive months, and are making monthly deferrals of at least \$25 to the Missouri State Public Employee's Deferred Compensation Plan, are eligible to receive contributions on their behalf ranging from \$25 to \$35 per month. Beginning in 2010, the State of Missouri suspended contributions, but two participating employers still made matching contributions during the year. Participants may direct the contributions made by their employer into available investment options offered by the Plan and are 100% vested in their accounts. As of June 30, 2019, there are nine participating State employers in the Plan. Benefits are payable to participants, in accordance with Plan provisions, upon termination of employment with the State, retirement, death, or unforeseeable emergency based on the participant's account balance.

The Plan's financial statements are comprised of a statement of fiduciary net position, a statement of changes in fiduciary net position, and notes to financial statements.

The statement of fiduciary net position presents information on the Plan's assets and liabilities with the difference between the two reported as fiduciary net position held in trust for benefits. This statement reflects, at fair value, the participants' balances in their selected investment options, which are available to pay benefits.

The statement of changes in fiduciary net position presents information showing how the Plan's fiduciary net position held in trust for benefits changed during the year ended June 30, 2019. This statement reflects contributions made by and benefits paid to participants during the period. Investing activities during the period are also presented which includes interest and dividends added to participant accounts and the net appreciation

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or depreciation in fair value of the investments. Other transfers and fees affecting participant accounts are also reported in this statement.

The notes to financial statements provide additional information that is essential to a full understanding of the data provided in the financial statements. The Plan is considered by the Office of Administration – Division of Accounting to be a component unit of the State of Missouri and, therefore, the Plan is included as a pension trust fund in the State of Missouri’s Comprehensive Annual Financial Report.

Financial Analysis

Summarized financial information is presented in the following condensed statements as of and for the years ended June 30, 2019 and 2018:

Condensed Statements of Fiduciary Net Position as of:

	<u>June 30, 2019</u>	<u>June 30, 2018</u>
Assets:		
Investments	\$649,068,568	\$626,158,174
Cash and cash equivalents	555,514	495,052
Receivables and prepaid expenses	<u>171,765</u>	<u>151,487</u>
Total assets	<u>649,795,847</u>	<u>626,804,713</u>
Liabilities:		
Accounts payable	-	15,281
Fiduciary net position held in trust for benefits	<u>\$649,795,847</u>	<u>\$626,789,432</u>

Condensed Statement of Changes in Fiduciary Net Positions for the Year Ended:

	<u>June 30, 2019</u>	<u>June 30, 2018</u>
Additions:		
Employer contributions	\$ 25,650	\$ 35,110
Rollovers from other qualified plans	56,520,064	62,191,060
Investment income	24,600,021	31,323,800
Revenue sharing	<u>571,005</u>	<u>530,721</u>
Total additions	<u>81,716,740</u>	<u>94,080,691</u>
Deductions:		
Benefits paid to participants	58,178,341	48,823,723
Administrative expenses	<u>531,984</u>	<u>490,608</u>
Total deductions	58,710,325	49,314,331
Change in fiduciary net position	<u>\$23,006,415</u>	<u>\$44,766,360</u>

- Net assets available for plan benefits increased by approximately \$23.006 million during the year ended June 30, 2019, to approximately \$649.796 million. The increase is primarily reflected in the investment balances.
- Employer contributions were \$25,650 and \$35,110 for the years ended June 30, 2019 and 2018, respectively. There were no changes in employers during the year.

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- Rollovers from other qualified plans were approximately \$56.520 million for the year ended June 30, 2019, compared to \$62.191 million for the year ended June 30, 2018. Participants are allowed to rollover their account balances in other qualified plans into the Plan in accordance with Plan provisions. These amounts will vary each year, depending on the specific participants making this election.
- Investment income was approximately \$24.600 million for the year ended June 30, 2019, compared to approximately \$31.324 million for the year ended June 30, 2018. Positive market conditions were experienced again during 2019; however, the market was not as strong as 2018, thus leading to a slight decrease in investment income.
- Distributions to participants totaled approximately \$58.178 for the year ended June 30, 2019, compared to approximately \$48.824 million for the year ended June 30, 2018. That represents a relative increase of approximately \$9.354 million or 19.158%. Distributions will vary year-to-year based on the number of employees leaving the Plan.
- Administrative expenses were approximately \$532,000 and \$491,000 for the years ended June 30, 2019 and 2018, respectively, with no significant changes.

A summary of the investment balances at June 30, 2019 and 2018 is as follows:

	2019 Balance <u>(in thousands)</u>	2018 Balance <u>(in thousands)</u>
Stable Value Fund	\$363,058	\$348,739
Bond Funds	1,631	1,608
Large-Cap Equity Funds	44,390	42,447
Mid-Cap Equity Funds	3,552	3,275
Small-Cap Equity Funds	7,767	7,639
International Equity Funds	3,031	2,971
Asset Allocation Investments	4,308	4,336
Self-Managed Accounts	11,733	11,352
Target Date Funds	209,123	203,242
Other	476	549
Total	<u>\$649,069</u>	<u>\$626,158</u>

During the years ended June 30, 2019 and 2018, Plan participants elected to allocate their employee rollover contributions as follows:

Allocations of Contributions

	2019	2018
Stable Value Fund	62.7%	65.0%
Bond Funds	0.3%	0.3%
Large-Cap Equity Funds	5.3%	4.2%
Mid-Cap Equity Funds	0.4%	0.5%
Small-Cap Equity Funds	1.0%	1.1%
International Equity Funds	0.5%	0.4%
Asset Allocation Investments	0.4%	1.2%
Target Date Funds	29.4%	27.2%
Self-Managed Accounts	0.0%	0.1%
Total	<u>100.0%</u>	<u>100.0%</u>

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Other

Other than changes in the fair value of investment assets, as may be impacted by the stock and bond markets, along with changes in interest rates, no other matters are known by management to have a significant impact on the operations or financial position of the Plan.

Requests for Information

This financial report is designed to provide a general overview of the Plan's finances for all those with an interest. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Plan Administrator, c/o MOSERS, P.O. Box 209, Jefferson City, MO 65102-0209.

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STATEMENT OF FIDUCIARY NET POSITION
June 30, 2019

ASSETS	
Investments	\$649,068,568
Cash and cash equivalents	555,514
Prepaid expenses	92,004
Revenue share receivable	79,761
Total assets	<u>649,795,847</u>
LIABILITIES	
Accounts payable	<u>-</u>
Total liabilities	<u>-</u>
NET POSITION	
Fiduciary net position held in trust for benefits	<u><u>\$649,795,847</u></u>

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

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STATEMENT OF CHANGES IN FIDUCIARY NET POSITION
For the Year Ended June 30, 2019

ADDITIONS

Contributions:	
Employers	\$ 25,650
Rollovers	56,520,064
Total contributions	<u>56,545,714</u>
Investment income:	
Net appreciation in fair value of investments	10,470,384
Interest and dividends	14,129,637
Total investment income	<u>24,600,021</u>
Revenue sharing	571,005
Total additions	<u>81,716,740</u>

DEDUCTIONS

Benefits paid to participants	58,178,341
Administrative expenses	531,984
Total deductions	<u>58,710,325</u>
Change in fiduciary net position	23,006,415
Fiduciary net position held in trust for benefits, beginning of year	<u>626,789,432</u>
Fiduciary net position held in trust for benefits, end of year	<u>\$649,795,847</u>

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

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NOTES TO FINANCIAL STATEMENTS

1. DESCRIPTION OF THE PLAN

The following description of the Missouri State Employees Deferred Compensation Incentive Plan (the “Plan”), which is administered by the Missouri State Employees’ Retirement System (“MOSERS”), is provided for general information purposes only. For a more complete description of the Plan provisions, refer to the detailed plan documents or the Revised Statutes of the State of Missouri.

General: The Plan was established by the Missouri State Public Employees’ Deferred Compensation Commission (the “Commission”) in July 1995 pursuant to Section 401(a) of the Internal Revenue Code (“IRC”). The first employer contributions to the Plan were made in January 1996. The participating employers include the State of Missouri and its agencies and retirement systems which elect to participate. There are currently nine participating State employers in the Plan. The Plan is considered a component unit of the State of Missouri and is included as a pension trust fund in the State of Missouri’s Comprehensive Annual Financial Report.

The supervisory authority for the management and operation of the Plan is the Board of Trustees of MOSERS. MOSERS has hired a recordkeeper to handle participant services and recordkeeping and an investment custodian to hold the Plan’s investments. ICMA-RC is recordkeeper for the Plan. State Street Investor Services is the investment custodian for the Plan’s investments in mutual funds, Target Date Funds, and the Voya Stable Value fund. TD Ameritrade is the custodian for the Plan’s self-directed brokerage account.

The Plan is classified as a governmental plan and is not subject to Title 1 of the Employee Retirement Income Security Act of 1974 (“ERISA”). The Plan, accordingly, does not file Form 5500, which was developed by the Internal Revenue Services, Department of Labor, and the Pension Benefit Guaranty Corporation to satisfy the reporting requirements of the IRS and ERISA.

Eligibility and Contributions: No employee contributions are made to the Plan. Participants who are active participants in the Missouri State Employees Deferred Compensation Plan, who have been an employee of a participating employer for at least 12 consecutive months, and who are making monthly deferrals of at least \$25 to the Missouri State Public Employees Deferred Compensation Plan are eligible to receive contributions on their behalf as indicated in the table below.

<u>Participant’s Monthly Contribution</u>	<u>State’s Monthly Match</u>
\$25 to \$29.50	\$25
\$30 to \$34.50	\$30
\$35 or more	\$35

In February 2010, the State of Missouri, Division of Budget and Planning announced that the employer incentive (match) associated with the State of Missouri Deferred Compensation Plan was suspended for all participants beginning with their March 31, 2010, paycheck. Of the nine participating employers, only two are currently making matching contributions.

Participants may make rollover contributions from other qualified plans in the Plan.

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Investment Options: Participants in the Plan may invest in the following options:

- Fixed earnings investments underwritten by Voya Retirement Insurance and Annuity Company (“VRIAC”)
- Self-directed brokerage options through TD Ameritrade
- Target date funds
- Mutual funds
- MOSERS Investment Portfolio (“MIP”) fund

Mutual fund investment options were closed to new investors after May 1, 2009, but the allocation of future contributions is permitted for investors who designated those allocation instructions prior to May 1, 2009. Effective June 30, 2017, the option to invest in the MIP fund was no longer available to Plan participants. All participants invested in the MIP fund as of that date may continue to defer into it, but no rollovers or new elections are permitted.

Participant Accounts: Each participant’s account is credited with the employers’ matching contributions, rollovers and allocations of Plan earnings as applicable and charged with an allocation of Plan expenses. Allocations are based on participant earnings or account balances, as defined. Earnings are credited to individual participant account balances based upon investment performance of the specific options selected by the participant. The benefit to which a participant is entitled is the benefit that can be provided from the participant’s vested account.

Vesting: Participants are at all times 100% vested in their account balances.

Payment of Benefits: Employees participating in the Plan or their beneficiaries may withdraw the fair value of funds contributed to the Plan or contract value of stable value fund upon retirement, death, qualifying hardship or separation of service from the Employer, subject to Internal Revenue Service limitations. Participants may select from various payout options, including lump sum payments, rollover to other qualified plans or individual retirement arrangements, or payments over various periods. Retiring participants have the option to annuitize their account balances as one of the payout options. The plan provides this option through an annuity that can be purchased from insurance companies available through the Plan’s record-keeper. Depending upon the option selected, the payments may be actuarially determined.

Plan Membership: As of June 30, 2019, the Plan’s membership consisted of the following:

Active participants	17,625
Retired and inactive participants	<u>15,223</u>
Total	<u>32,848</u>

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting: The accompanying financial statements have been prepared on the economic resources measurement focus and the accrual basis of accounting in accordance with U.S. generally accepted accounting principles. The Governmental Accounting Standards Board (“GASB”) is the accepted standard setting body for establishing governmental accounting and reporting principles.

Use of Estimates: The preparation of financial statements in conformity with the U.S. generally accepted accounting principles requires management to make significant estimates and assumptions that affect the reported amounts of net assets held in trust for benefits, liabilities and changes therein. Actual results could differ from those estimates.

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Related Plan: The Missouri State Public Employees Deferred Compensation Plan (the “Deferred Compensation Plan”) is related to the Plan through common sponsorship and administration. Both are offered by the State of Missouri to the same employees, and the operations and administration are handled together. Certain balances are allocated between the two plans based on either investment balances or number of participants. The Deferred Compensation Plan issues separate financial statements.

Contributions and Contributions Receivable: Contributions are recorded when the related deferred compensation payment is withheld from the participating employees’ salary and the employer is required to make the matching contribution. Contributions are credited by the applicable investment custodian upon receipt from the Employer. Contributions receivable represent employer contributions related to the fiscal year not remitted to the investment custodian at fiscal year-end. There were no contributions receivable at year end.

Revenue Share and Revenue Share Receivable: The Plan receives shareholder service fees, 12(b)1 fees, and other commissions from individual mutual fund companies. The record keeper receives this income as the intermediary and allocates monthly revenue to the Plan based upon the balances of the assets within the mutual fund. The revenue share income is used to pay a portion of the recordkeeping fees, which reduces the actual fees paid by the participants of the Plan. The revenue for each month is allocated the following month. As of the fiscal year end, the unpaid balances have been accrued as a receivable by the Plan.

Prepaid Expenses: The due from MOSERS represents a cash balance held by MOSERS to pay for administrative expenses of the Plan as they arise. During the year ended June 30, 2019, a total of \$1,200,000 was transferred to MOSERS to cover administrative expenses. The Plan was allocated approximately \$348,000 of that transfer amount and \$92,004 remains at June 30, 2019 to cover future expenses.

Investment Valuation: Investments in mutual funds and self-directed brokerage accounts are presented at fair value based on published market prices. Investments in the Voya Stable Value Fund are valued at contract value as this is the value realizable by participants. This value approximates fair value. Investments in the Missouri Target Date Funds are valued at fair value base on the fair value of the underlying assets comprising each Missouri Target Date Fund, as provided by the individual fund managers. Investments in the MOSERS Investment Portfolio (“MIP”) Fund are valued on a monthly basis based on the fair value of the underlying assets. The underlying assets of MIP mirror the defined benefit portfolio of MOSERS.

Purchases and sales of securities are recorded on a trade date basis. Realized investment gains and losses are determined using the average cost. Dividends are recorded on the declaration date. Interest is recorded when earned.

Investments Contract with Voya Life Insurance and Annuity Company: In 2006, the Plan entered into a benefit-responsive investment contract with ING Life Insurance and Annuity Company, which was subsequently, renamed Voya Retirement Insurance and Annuity Company (“VRIAC”). This benefit-responsive investment contract is the Voya Stable Value Fund. VRIAC maintains the contributions in a separate account. The value of the separate account is the fair market value of investments plus cash balances and accruals, less liabilities, in accordance with such methods as described in the contract of as VRIAC may adopt from time to time. Income and gains or losses, realized or unrealized, are credited or charged directly to the separate account. The values determined may decrease or increase according to such procedure. The separate account is charged with expenses arising from the operations of the account including taxes, brokerage, commissions, and other costs. The contract value as reported to the Plan by VRIAC is the value represented in the Interest Accumulation Fund, which is the accounting record maintained under the contract for amounts reflecting the termination value of the predecessor investment vehicle (Nationwide) plus or minus deposits received, withdrawals made, fees charged, interest at the Credited Rate and other adjustments. Participants may direct the withdrawal or transfer of all or a portion of their investment contracts.

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The fair value of the investment contract as of June 30, 2019, was \$356,304,860 and the contract value on June 30, 2019, was \$363,057,734. The average yield and crediting interest rates were approximately 2.63% for the year ended June 30, 2019. The crediting interest rate is based on a formula agreed upon with the issuer. The interest rates are reviewed on a quarterly basis for resetting. The crediting interest rate formula is in part based on the fair value of the underlying securities of the investment contract.

Certain events, such as termination of the contract by the Plan or the termination of the Plan, would limit the Plan's ability to transact at the contract value with VRIAC. The plan administrator believes the occurrence of such events that would also limit the Plan's ability to transact at contract value with plan participants is not probable.

Interest Income: Interest income is recorded as earned for the Stable Value Fund. The interest rate for the Stable Value Fund was 2.62% at June 30, 2019. The interest rate ranged from 2.57% to 2.74% for the year ended June 30, 2019. Total interest income recognized was \$12,261,354 during the year ended June 30, 2019, and is included in interest and dividends on the statement of changes in fiduciary net position.

Administrative Expenses: Expenses are recorded when the liability is incurred, regardless of when the payment is made. ICMA-RC charges annual recordkeeping and advisory fees total \$25 per participant, of which participants pay \$1.25 monthly and the Plans pay the remainder. This fee covers services for both this Plan and the Deferred Compensation Plan and is allocated between the two plans. Participants with an account in the Deferred Compensation Plan are not charged an additional fee for this Plan.

In addition, the two plans paid administrative fees of \$25,000 quarterly to MOSERS for administration services provided to the two plans. These quarterly fees are paid out of the \$25 annual per participant fee charged. These quarterly fees are also allocated between the two plans.

The Plan incurred approximately \$205,000 for recordkeeping fees and \$327,000 for MOSERS administration, for a total of approximately \$532,000 administrative expenses.

Benefits Paid: Benefits are recorded at the time withdrawals are made from the Plan participant accounts, which generally coincides with the trade date.

Rollovers: Rollovers represent contributions transferred from other qualified plans and are recorded when received.

3. TAX STATUS

The Plan is reviewed by legal counsel to ensure conformity with Section 401(a) of the IRC. Accordingly, any amount of contributions under the Plan and any income attributable to the amounts so contributed are included in the gross income of the participant only for the taxable year in which such benefit is paid or otherwise made available to the participant or beneficiary. The Trust established under the Plan is treated as exempt from federal income taxation.

4. CASH AND CASH EQUIVALENTS

Cash and cash equivalents represent the Plan's portion of the Administrative Allowance account that is maintained by ICMA-RC. Revenue share amounts are deposited into the account and used to pay Plan expenses such as record keeping fees, plan audits and financial statement preparation. The balance is allocated between the related plans based upon their respective investment balances. At June 30, 2019, The Administrative Allowance Account had a total balance of \$1,147,221 and is invested in the Fidelity Money Market Government Portfolio. Of that amount, \$555,514 is allocated to the Missouri State Employees

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Deferred Compensation Incentive Plan and \$591,707 is allocated to the Missouri State Employees Deferred Compensation Plan.

5. INVESTMENTS

The Plan's investment policy is to provide a user friendly mechanism for participants to accumulate and preserve assets for retirement during years of employment and beyond. Missouri Target Date Funds were added to the investment options in April 2009 to simplify retirement investing for Plan participants. New participants into the Plan after April 2009 have the choice between thirteen target date funds, a stable value fund, or a self-directed brokerage option. Effective July 1, 2012, new participants could invest in the MIP fund; however, effective June 30, 2017, the policy changed to no longer allow any new entrants into the MIP option. The self-directed brokerage option was retained for participants who prefer "hands-on" approach to retirement investing. Participants who were already contributing to one or more of the 31 mutual funds before April 2009 can continue to the same mutual fund or funds and have the choice of the investments available to new participants.

Missouri Target Date Funds: These funds were created exclusively for participants of the Plan and the Deferred Compensation Plan. Each new participant who does not make an investment selection is, by default, invested in the target date fund closest to when he or she is first eligible to retire, assumed to be age 65. Participants may choose any target date fund as their investment in the Plan. The target date funds with dates farthest in the future have the most aggressive investment approach and are more heavily invested in stocks. These funds automatically adjust from a long-term growth focus to a more conservative investment mix as the participants move closer to retirement, investing more in bonds and less in stock.

Stable Value Fund: Voya Investment Management Co., LLC. is the manager of the Voya Stable Value Fund's assets. The Stable Value Fund provides a stable rate of return by investing in various types of bonds including treasuries, agencies, corporate and mortgage-backed securities. The fund is wrapped by an insurance contract, issued by VRIAC, which stabilizes the interest rate paid as well as ensuring that participants get their principal plus interest when they decide to withdraw from the fund. However, the insurance wrapper guarantee of participants' return of principal does not extend to certain employer-initiated events, such as employer decision to terminate the contract or withdrawals that might arise from mass layoff or similar events.

In advance of each quarter, the Voya Stable Value Fund establishes a rate of return for that quarter, as described previously. Stable Value Fund investment income included in the accompanying financial statements is net of annual fees which are deducted from earnings prior to posting to the participant accounts. The annual fees as a percentage of participating assets are .30%.

Mutual Funds: The Plan offers various mutual funds, along with a self-directed brokerage option through an independent broker, which allows investments not offered by the Plan. Shares of mutual funds are not insured, although some securities in which the funds invest may be insured or backed by the U.S. government or its agencies. Investment income in the accompanying financial statements is net of management and other expenses charged by the fund managers which are deducted from earnings prior to posting to the participant accounts.

MOSERS Investment Portfolio ("MIP") Fund: The MIP fund is a monthly valued investment option offering participants the ability to purchase units of the MOSERS investment portfolio. MIP is an actively managed, diversified portfolio of investments including U.S. and foreign public and private equity and debt, real estate, commodities, emerging markets, timber, foreign currency transactions, derivative transactions, and hedge funds. The fund is geared toward investors seeking long-term total

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returns. MOSERS issues separate financial statements which include detailed information of the underlying assets.

Investments as of June 30, 2019, by investment type, are as follows:

Investments at fair value	
Target Date Funds	\$209,123,293
Large-Cap Equity Mutual Funds	44,389,745
Self-Managed Accounts	11,733,354
Small-Cap Equity Mutual Funds	7,767,161
International Equity Mutual Funds	3,030,647
Mid-Cap Equity Mutual Funds	3,551,686
Asset Allocation Mutual Funds	4,308,275
Bond Mutual Funds	1,631,025
MOSERS investment portfolio fund	<u>475,648</u>
Investments at fair value	286,010,834
Investments at contract value	
Stable Value Fund	<u>363,057,734</u>
Total investments	<u>\$649,068,568</u>

Custodial credit risk for investments, and cash and cash equivalents, is the risk that the Plan would not be able to recover the value of investments in the event of a failure by the counterparty to a transaction. The Plan does not have any investments that are not registered in the name of the Plan and are either held by the counterparty of the counterparty's trust department or agent, but not in the Plan's name, except for one of the underlying investments in the Target Date Funds (Vanguard High Yield Fund) which is registered in the name of the manager for benefit of the Plan.

Concentration of credit risk is the risk of loss that may be attributed to the magnitude of the Plan's investment in a single issuer. The Plan has no formal policy because participants elect where to invest contributions. However, the investment in the Stable Value Fund represents approximately 56% of investments.

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation to the Plan. The Plan does not have a formal policy for credit risk. At June 30, 2019, the average credit ratings for the fixed income securities included in the bond mutual funds were as follows:

Bond Mutual Funds	Fair Value	Credit Rating
American Funds Bond Fund of America	\$ 597,451	A
Vanguard Inflation Protected Securities Fund	478,375	AAA
Federated U.S. Government Securities Fund – 2-5 years	470,916	AAA
Prudential Total Return Bond Fund	<u>84,283</u>	BBB
	<u>\$1,631,025</u>	

At June 30, 2019, the average credit rating as provided by Voya for the securities in the Stable Value Fund was AA+.

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Other than the Voya Stable Value fund, whose rate is adjusted quarterly, the Plan investment guidelines include no formal policy on interest rate risk. Duration is a measure of a debt instrument's exposure to fair value charges arising from changing interest rates based upon the present value of cash flows, weighted for those cash flows as a percentage of the investment's full price.

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The average effective duration in years as of June 30, 2019 for fixed income mutual funds is as follows:

Bond Mutual Funds	Fair Value	Weighted Average Effective Duration
American Funds Bond Fund of America	\$ 597,451	5.6
Vanguard Inflation Protected Securities Fund	478,375	8.6
Federated U.S. Government Securities Fund – 2-5 Years	470,916	3.6
Prudential Total Return Bond Fund	<u>84,283</u>	6.4
Total	<u>\$1,631,025</u>	

As June 30, 2019, the weighted average duration as provided by Voya for the Stable Value Fund was 3.6 years.

Fair value measurements are categorized within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset and give highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements).

The three levels of the fair value hierarchy are described as follows:

- Level 1 Valuation is based upon unadjusted quoted prices in active markets for identical assets or liabilities that the Plan has the ability to access.
- Level 2 Valuation is based upon quoted prices for similar assets or liabilities in active markets, quoted market prices for identical or similar assets or liabilities in inactive markets, inputs other than quoted prices that are observable for the asset or liability, or inputs that are derived principally from or corroborated by observable market data by correlation or other means. Observable inputs may include interest rates, foreign exchange rates, and yield curves that are observable at commonly quoted intervals.
- Level 3 Valuation is based on methodologies that are unobservable and significant to the fair value measure. These may be generated from model-based techniques that use at least one significant assumption based on unobservable inputs for the asset or liability, which are typically based on an entity’s own assumptions, as there is little, if any, related market activity.

The asset or liability’s fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. The Plan’s assessment of the significance of a particular input to the fair value measurement in its entirety requires judgment, and considers factors specific to the asset or liability. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following is a description of valuation methodologies used for assets recorded at fair value.

Mutual funds: Valued at the daily closing price as reported by the fund on an active market, which is based on the underlying net asset value (“NAV”) of the shares held by the Plan at year-end. Mutual funds held by the Plan are open-end mutual funds that are registered with the Securities and Exchange Commission. These funds are required to publish daily NAV and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.

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U.S. government securities: Valued at the closing price reported in the market in which the individual security is traded.

Corporate bonds: Certain corporate bonds are valued at the closing price reported in the inactive market in which the bond is traded. Other corporate bonds are valued based on yields currently available on comparable securities of issuers with similar credit ratings. When quoted prices are not available for identical or similar bonds, the bond is valued under a discounted cash flows approach that maximizes observable inputs such as current yields of similar instruments, but includes adjustments for certain risks that may not be observable, such as credit and liquidity risks.

Corporate stock: Valued at closing price reported in the active market in which the individual securities are traded.

MOSERS Investment Portfolio ("MIP") Fund: Valued at the NAV of the units of underlying investments held by the Plan at year-end. 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 its underlying investments held by the fund less its liabilities. Participant transactions (purchases and sales) may occur monthly. The significant investment strategies are designed to achieve long-term total returns, comprised of capital appreciation and income. There are no unfunded commitments. There are generally no restrictions as to the redemption of this fund.

Missouri Target Date Funds: Valued at the NAV of the units of underlying investments held by the Plan at year-end. 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 its underlying investments held by the funds less its liabilities. This practical expedient is not used when it is determined to be probable that the fund will sell the investment for an amount different than the reported NAV. Participant transactions (purchases and sales) may occur daily. The significant investment strategies of the funds are to seek the highest total return over time, consistent with the fund's asset mix. The asset allocations within these target date funds adjust automatically over time. Each fund invests more aggressively in its early years and becomes more conservative as it reaches its time horizon. There are no unfunded commitments. There are generally no restrictions as to the redemption of these investments.

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

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The tables below present the Plan's assets measured at fair value on a recurring basis as of June 30, 2019, aggregated by the level in the fair value hierarchy within which those measurements fall:

	Level 1	Level 2	Level 3	Total
Mutual funds				
Large-Cap Equity Funds	\$44,389,745	\$ -	\$ -	\$ 44,389,745
Small-Cap Equity Funds	7,767,161	-	-	7,767,161
International Equity Funds	3,030,647	-	-	3,030,647
Mid-Cap Equity Funds	3,551,686	-	-	3,551,686
Asset Allocation Investments	4,308,275	-	-	4,308,275
Bond Funds	<u>1,631,025</u>	-	-	<u>1,631,025</u>
Total mutual funds	<u>64,678,539</u>	-	-	<u>64,678,539</u>
Self-directed brokerage account				
Cash and cash equivalents	1,577,759	-	-	1,577,759
U.S. Government securities	5,027	-	-	5,027
Mutual funds	3,849,817	-	-	3,849,817
Corporate stock	6,216,751	-	-	6,216,751
Corporate debt securities	<u>-</u>	<u>84,000</u>	-	<u>84,000</u>
Total self-directed brokerage account	<u>11,649,354</u>	<u>84,000</u>	<u>-</u>	<u>11,733,354</u>
Total assets in fair value hierarchy	<u>\$76,327,893</u>	<u>\$84,000</u>	<u>\$ -</u>	76,411,893
Investments measured at net asset value (NAV)				
MOSERS investment portfolio fund				475,648
Missouri target date funds				<u>209,123,293</u>
Total investments measured at NAV				<u>209,598,941</u>
Total investments				<u>\$286,010,834</u>

The following tables summarize investments for which fair value is measured using the net asset value per share practical expedient as of December 31:

	Fair Value	Unfunded Commitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Required
MOSERS investment portfolio fund	\$ 475,648	n/a	Monthly	None
Missouri target date funds	209,123,293	n/a	Daily	None
Total	<u>\$209,598,941</u>			

6. RISKS AND UNCERTAINTIES

The Plan provides for various investment options in any combination of mutual funds, insurance contracts, and other investment securities. Investment securities are exposed to various risks, such as interest rate, market and credit risks. Due to the risks associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities may occur in the near term and that such changes could materially affect participant account balances and the amounts reported in the accompanying statement of fiduciary net position.