

FINANCIAL REPORT

(Audited)

Year Ended September 30, 2017

BOARD OF TRUSTEES

Active Firefighters

Gerald "Jerry" Jacobsen, Chairman - Term Expires August 31, 2020 Demetris "Al" Alfred, Vice - Chairman - Term Expires August 31, 2018 William Ellner - Term Expires August 31, 2019

Retired Firefighter

Bruce Williams - Term Expires August 31, 2020

Ex-Officio

Chief Dennis Jenkerson
Darlene Green, Comptroller
or
Beverly Fitzsimmons, Deputy Comptroller - designee

Mayoral Appointees

Mark Smith - Term Expires August 31, 2019 James Sondermann - Term Expires August 31, 2019

KEY STAFF MEMBERS

John D. Brewer, Executive Director Sue Degunia, Assistant Executive Director

FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS FINANCIAL REPORT

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INDEPENDENT AUDITOR'S REPORT

February 6, 2018

The Board of Trustees
FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS

REPORT ON THE FINANCIAL STATEMENTS

We have audited the accompanying financial statements of the **FIREMEN'S RETIREMENT SYS-TEM OF ST. LOUIS** (the System), a Pension Trust Fund of the City of St. Louis, Missouri, as of and for the years ended September 30, 2017 and 2016, 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 an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America 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 audits to obtain reasonable assurance about whether the financial statements are free of 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 System'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 System'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 fiduciary net position of the System as of September 30, 2017 and 2016, and the respective changes in fiduciary net position thereof for the years then ended, in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplemental Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and required supplemental information, as 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 supplemental 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 audits 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.

Other Information

Our audits were conducted for the purpose of forming opinions on the financial statements that collectively comprise the System's basic financial statements. The other supplemental information, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the 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 financial statements. Such information has been subjected to the auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplemental information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

OTHER REPORTING REQUIRED BY GOVERNMENT AUDITING STANDARDS

In accordance with *Government Auditing Standards*, we have also issued our report dated February 6, 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.

CERTIFIED PUBLIC ACCOUNTANTS

Hochschild, Bloom & Company LLP

MANAGEMENT'S DISCUSSION AND ANALYSIS FOR THE YEAR ENDED SEPTEMBER 30, 2017

The following Management's Discussion and Analysis (MD&A) of the Firemen's Retirement System of St. Louis (the System) provides an overview of the System's financial activities for the fiscal year ended September 30, 2017. The MD&A should be read in conjunction with the System's financial statements and supplemental information.

FINANCIAL HIGHLIGHTS

During the System's fiscal years ended September 30, 2017 and 2016, global economies have shown signs of strengthening. The System is well diversified and the portfolio is continually managed and monitored to an investment policy established to minimize market risks. The System is a long-range proposition and is responsible for administering benefits to firefighters of the City of St. Louis who have dedicated their careers as public servants to the residents and businesses of the St. Louis metropolitan area. The System is frozen as of February 1, 2013. Active Members on February 1, 2013 are classified as "grandfathered" Members and benefits paid to these Members is based on the Member's service and salary earned as of February 1, 2013. The only new benefits to be earned are the "grandfathered" Members who are in DROP status. The System has and will continue to provide benefits in a prudent and professional manner to its active (grandfathered) and retired Members and their beneficiaries.

The System's net position was \$489 million at September 30, 2017, which represents an increase of \$30 million or 6.6% from September 30, 2016.

Additions to net position for fiscal year 2017 were \$64.4 million as compared to additions of \$41.4 million for fiscal year 2016. The current period net additions are comprised of \$61.1 million of net investment income. The City was required to make an employer contribution in the amount of \$3.3 million in fiscal year 2017, and no member contributions were received during the current year due to the System being frozen on February 1, 2013.

Deductions from net position were \$34.2 million for fiscal year 2017 and \$34.5 million for fiscal year 2016.

The overall investment return for the System was 14.69% for fiscal year 2017 as compared to a return of 9.2% for fiscal year 2016. The Board of Trustees acts to ensure the System retains top performing investment managers while maintaining a balanced investment portfolio.

Changes in Members' benefits resulted from:

	101	IIIC
	Years	Ended
	Septen	<u>nber 30</u>
	2017	2016
Service retirements:		
Regular	7	10
Death	1	1
Members requesting a refund withdrawal	11	19
Retiree death benefits	24	25

FINANCIAL STATEMENTS

The financial statements, notes to financial statements, and required supplemental information (RSI) were prepared in conformity with Governmental Accounting Standards Board Statement No. 67 (GASB 67), *Financial Reporting for Pension Plans*. GASB 67 replaced GASB 25 and GASB 50 as reporting standards for governmental employer pension systems.

For The

MANAGEMENT'S DISCUSSION AND ANALYSIS FOR THE YEAR ENDED SEPTEMBER 30, 2017

Highlights of the changes to these financial statements as a result of implementing GASB 67 are as follows:

- GASB 67 only affects reporting requirements and does not prescribe funding methods which could be different. The System will continue to use a funding policy that computes contribution amounts over the future working lifetime of current participants (the entry age frozen initial liability actuarial cost method). For financial reporting purposes the System is required to use the entry age actuarial cost valuation method in determining the normal cost of the System's benefits, expressed as a percent of active covered payroll for service retirement benefits, disability benefits, survivor benefits, and administrative expenses (excluding expenses related to the investment of the System's assets, all of which are covered by investment return). The contribution amount required to amortize any unfunded actuarial liability is determined annually and as a percentage of participants covered payroll. The required contribution amounts are to be determined by regular annual actuarial valuations conducted by the System's actuary.
- Statements of net assets and statements of changes in net assets have now been retitled as statements of fiduciary net position and statements of changes in fiduciary net position, respectively.
- GASB 67 classifies the System as a single-employer public pension plan for reporting purposes.
- The discount rate used to calculate the present value of future benefit payments for reporting purposes is based upon the projected plan net position (PNP) using actuarial assumptions about contributions, benefit payments, and the long-term rate of return. If the projected PNP is not sufficient to cover projected benefit payments, a blended discount rate is required using both the weighted average of the long-term rate of return and the muni-bond rate for periods after the PNP is exhausted. The System currently uses the long-term discount rate of 7.3% and expects assets will be sufficient to cover PNP.
- Footnote requirements include the target asset allocation including long-term expected real rate of return, investments representing 5% or more of the System's fiduciary net position, employer's net pension liability, summary of actuarial assumptions, and sensitivity of net pension liability to changes in the discount rate.
- Required supplemental information includes a schedule of changes in employer's net pension liability (excess assets), schedule of employer's net pension liability (excess assets), schedule of employer's contributions, and schedule of annual money-weighted rate of return on investments. Notes to the RSI include significant methods and assumptions used in calculating the actuarially determined contributions.

The financial statements contained in this section of the annual financial report consist of:

- The statements of fiduciary net position report the System's assets, deferred outflows, liabilities, deferred inflows, and resulting net position. The net position is restricted for pensions. It is a snapshot of the financial position of the System at that specific point in time.
- The statements of changes in fiduciary net position summarizes the System's financial transactions that have occurred during the current and previous fiscal years.
- The notes to financial statements are an integral part of the above financial statements and include additional information not readily evident in the statements themselves.

Other items in the financial report are the MD&A, the RSI, and other supplemental information which provide other information considered useful in evaluating the condition of the System.

FINANCIAL ANALYSIS

Total assets at September 30, 2017 were \$490,170,791 and were mainly comprised of cash and cash equivalents, investments, and receivables. Total assets increased \$29,495,584 or 6.4% from September 30, 2016.

MANAGEMENT'S DISCUSSION AND ANALYSIS FOR THE YEAR ENDED SEPTEMBER 30, 2017

Total liabilities at September 30, 2017 were \$1,439,472 and consisted mainly of unsettled investment transactions, net pension liability - System's staff pension related, and accrued expenses. Total liabilities decreased \$685,850 or 32.3% from September 30, 2016.

The System implemented GASB 68, *Accounting and Financial Reporting by State and Local Governments*, for the fiscal year 2015. The System's staff participate in the Employees Retirement System of the City of St. Louis (ERS), a cost sharing, multi-employer defined benefit plan. The System elected to report pension elements based on ERS' September 30 actuarial valuations at the beginning of the fiscal year as allowed by GASB 68. The pension elements required to be reported in the statements of fiduciary net position include: 1) net pension liability and 2) deferred outflows/inflows of resources.

Net position - restricted for pensions was \$488,848,213 at September 30, 2017, an increase of \$30,157,009 or 6.6% from fiscal year 2016. This increase mainly resulted from net investment income of \$61 million, deductions of \$34 million, and \$3 million employer contribution during the year.

Following is a condensed version of the statements of fiduciary net position (dollars in thousands):

					Total C	hange	
	September 30		Amo	Amount		tage	
	2017	2016	2015	2017	2016	2017	2016
ASSETS							
Investments	\$ 484,383	454,431	448,989	29,952	5,442	6.6 %	1.2
Cash and cash equivalents	4,096	3,896	3,591	200	305	5.1	8.5
Receivables	1,245	1,844	1,876	(599)	(32)	(32.5)	(1.7)
Capital assets, net	447	504	554	(57)	(50)	(11.3)	(9.0)
Total Assets	490,171	460,675	455,010	29,496	5,665	6.4	1.2
DEFERRED OUTFLOWS							
System's staff pension related	124	149	77	(25)	72	(16.8)	93.5
LIABILITIES	1,439	2,125	3,211	(686)	(1,086)	(32.3)	(33.8)
DEFERRED INFLOWS							
System's staff pension related	8	8	13		(5)	-	(38.5)
NET POSITION	\$ 488,848	458,691	451,863	30,157	6,828	6.6 %	1.5

Revenues - Additions to Net Position

Net investment income totaled \$61,052,343 in fiscal year 2017 as compared to net investment income of \$38,641,812 in fiscal year 2016. Investment income is net of investment expenses (investment management and custodial fees) totaling \$2,242,732 and \$2,150,417 for the years ended September 30, 2017 and 2016, respectively.

The reserves needed to finance retirement benefits as well as death and disability benefits are accumulated through the collection of employer contributions and through earnings on investments. Employer contributions totaled \$3,313,603 for the year ended September 30, 2017 as compared to \$2,715,140 for the prior year.

MANAGEMENT'S DISCUSSION AND ANALYSIS FOR THE YEAR ENDED SEPTEMBER 30, 2017

Expenses - Deductions from Net Position

The primary expenses of the System include the payment of pension benefits to retirees and beneficiaries, administrative expenses, and refunds of Members' contributions to operate the System. Total expenses for fiscal year 2017 were \$34,208,937, a decrease of \$319,616 from fiscal year 2016. This decrease is mainly due to less refunds of member contributions in fiscal year 2017 when compared to fiscal year 2016.

Transfers Out

Transfers out represents transfers to FRP for the year ended September 30, 2015 for certain sick leave benefits.

Following is a condensed version of the statements of changes in fiduciary net position (dollars in thousands):

	For The Years			Total Change			
	Ended September 30		Amount		Percenta	age	
	2017	2016	2015	2017	2016	2017	2016
ADDITIONS							
Net investment income (loss)	\$ 61,052	38,642	(11,080)	22,410	49,722	58.0 %	448.8
Employer contributions	3,314	2,715	-	599	2,715	22.1	100.0
Total Additions	64,366	41,357	(11,080)	23,009	52,437	55.6	473.3
DEDUCTIONS							
Benefits paid	32,325	32,155	33,865	170	(1,710)	0.5	(5.0)
Administrative expenses	1,068	1,095	1,594	(27)	(499)	(2.4)	(31.3)
Refund of Members'							
contributions	816	1,279	1,294	(463)	(15)	(36.2)	(1.1)
Total Deductions	34,209	34,529	36,753	(320)	(2,224)	(0.9)	(6.1)
CHANGE IN NET POSITION							
BEFORE TRANSFER OUT	30,157	6,828	(47,833)	23,329	54,661	341.6	114.3
TRANSFER OUT			1,071		(1,071)	-	(100.0)
CHANGE IN NET POSITION	30,157	6,828	(48,904)	23,329	55,732	341.6	114.0
NET POSITION, BEGINNING OF YEAR Effect of GASB imple-	458,691	451,863	500,915	6,828	(49,052)	1.5	(9.8)
mentation			(148)		148	-	100.0
NET POSITION, END OF YEAR	\$ 488,848	458,691	451,863	30,157	6,828	6.6 %	1.5
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SUMMARY

The System's net position - restricted for pensions has increased in six out of the past ten years. The decreases (which occurred in fiscal years 2015, 2011, 2009, and 2008) were the result of investment losses due to economic slowdowns that detrimentally affected most pension systems in those years. The Board of Trustees believe, and the actuarial calculations confirm, that the System is in a financial position to meet its current and projected obligations. With a continued focus on a prudent investment program, cost controls, and strategic planning, the System should maintain its current funded position over an extended period of years.

MANAGEMENT'S DISCUSSION AND ANALYSIS FOR THE YEAR ENDED SEPTEMBER 30, 2017

REQUESTS FOR INFORMATION

This financial report is designed to provide the Board of Trustees, our Members, and other users of our financial report with a general overview of the System's finances and to demonstrate the System's accountability for the money it receives. If you have any questions about this report or need additional financial information, contact:

John D. Brewer, Executive Director Firemen's Retirement System of St. Louis 1601 South Broadway St. Louis, MO 63104-3845 or

e-mail: jdbrewer@frs-stl.org

FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS STATEMENTS OF FIDUCIARY NET POSITION

	September 30	
	2017	2016
ASSETS		
Investments at fair value:		
Equities:	ф 105 552 402	176761 000
Corporate stocks	\$ 195,552,492	176,761,088
Collective investment funds Fixed income:	33,699,340	29,944,062
Collective investment funds	78 028 460	70,611,070
	78,928,469 13,078,927	30,941,996
Corporate bonds Government-backed bonds	4,262,179	30,941,990
Mortgage-backed bonds	1,991,851	-
Hedge funds	83,538,510	76,203,322
Real estate investment trust	45,672,751	41,979,114
Limited partnership units	17,807,504	18,974,022
Money market funds	9,850,720	9,015,964
Total Investments	484,382,743	454,430,638
Total investments	101,502,715	434,430,030
Cash and cash equivalents	4,096,393	3,896,091
•		
Receivables:		
Unsettled investment sale transactions	462,835	425,823
Foreign withholding tax reclaims	457,927	654,268
Interest and dividends	323,949	764,130
Total Receivables	1,244,711	1,844,221
Capital assets, less accumulated depreciation	446,944	504,257
Total Assets	490,170,791	460,675,207
DEFERRED OUTFLOWS OF RESOURCES		
System's staff pension related	124,387	149,219
System s sum pension related		113,213
LIABILITIES		
Unsettled investment purchase transactions	634,146	1,235,031
Accrued investment management fees	386,687	450,499
Net pension liability - System's staff pension related	264,825	254,939
Members' contributions refundable	138,337	154,174
Accrued administrative expenses	15,477	30,679
Total Liabilities	1,439,472	2,125,322
DEFERRED INFLOWS OF RESOURCES		
System's staff pension related	7,493	7,900
NET POSITION - RESTRICTED FOR PENSIONS	\$ 488,848,213	458,691,204
See notes to financial statements		

STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION

	For The Years		
	Ended Sep	tember 30	
	2017	2016	
ADDITIONS TO NET POSITION ATTRIBUTED TO			
Investment income:			
Net appreciation in fair value of investments	\$ 55,974,952	33,864,366	
Dividends	4,579,551	4,319,908	
Interest	1,829,491	1,865,183	
Class action lawsuit proceeds	568,459	468,757	
Securities lending income	342,622	274,015	
Total Investment Income	63,295,075	40,792,229	
Less - Investment management and custodial fees	2,242,732	2,150,417	
Net Investment Income	61,052,343	38,641,812	
Employer contributions	3,313,603	2,715,140	
Total Additions	64,365,946	41,356,952	
DEDUCTIONS FROM NET POSITION ATTRIBUTED TO			
Benefits paid to retirees and beneficiaries	32,324,876	32,154,888	
Administrative expenses	1,067,626	1,095,335	
Refunds of Members' contributions	816,435	1,278,330	
Total Deductions	34,208,937	34,528,553	
CHANGE IN NET POSITION	30,157,009	6,828,399	
NET POSITION - RESTRICTED FOR PENSIONS,			
BEGINNING OF YEAR	458,691,204	451,862,805	
NET POSITION - RESTRICTED FOR PENSIONS, END OF YEAR	\$ 488,848,213	458,691,204	

NOTE A - DESCRIPTION OF PLAN

The **FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS** (the System) administers a single employer defined benefit pension plan providing pension benefits to the City of St. Louis firemen (the Members). The System is frozen as of February 1, 2013. Active Members on February 1, 2013 are classified as "grandfathered" Members, and benefits paid to these Members are based on the Member's service and salary earned as of February 1, 2013. Membership in the System consists of:

	September 30		Increase	
	2017	2016	(Decrease)	
Retirees and beneficiaries currently receiving benefits	924	944	(20)	
Current Members:				
Vested - participating in DROP	59	62	(3)	
Vested - non-DROP	187	184	3	
Nonvested	283	294	(11)	
Total Current Members	529	540_	<u>(11)</u>	
Total Membership	1,453	_1,484_	<u>(31)</u>	

The System provides retirement benefits as well as death and disability benefits. Members can voluntarily retire after a minimum of 20 years of service (compulsory retirement at age 60 with 30 years of service). The monthly allowance consists of 40% of the final two-year average monthly compensation at 20 years of service, plus 2% of such final average compensation for each of the next five years of service, plus 5% of final average compensation for each additional year of service after 25 years with a maximum pension of 75%. Unused accrued sick pay accumulated before February 1, 2013 may increase the maximum pension beyond this limitation.

Covered Members contributed 8% of their salary through February 1, 2013 (date frozen). Upon leaving employment, the Member's contributions are refunded. In addition, terminated Members receive interest.

During the fiscal year ended August 31, 1994, the System, in accordance with Ordinance 62994 of the City of St. Louis (the City), initiated a Deferred Retirement Option Plan (DROP). The DROP option is available to Members of the System who have at least 20 years of creditable service and have achieved eligibility for retirement. Those Members who elect to participate will continue active employment, will have a service retirement allowance credited monthly in the DROP account of the Member, and the Member's contributions are 1% (previously reduced to 1% from the normal 8% through February 1, 2013). During participation in DROP, the Member will not receive credit for employer contributions or credit for service. A Member may participate in DROP only once for any period up to five years. At retirement the funds in the Member's DROP account plus: 1) interest and 2) accrued sick leave if elected is available to the Member in a lump sum or installments. The number of Members with DROP account balances and currently participating at September 30, 2017 and 2016 were as follows:

	Currently <u>Participating</u>	Total DROP Accounts	DROP Account <u>Balances</u>
2017	59	214	\$ 33,246,496
2016	62	196	30,130,664

NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies consistently applied by the System in the preparation of the accompanying financial statements are summarized as follows:

1. Reporting Entity

The System is a pension trust fund of the City. As such, the System is included in the City's Comprehensive Annual Financial Report as a Pension Trust Fund. The System and its Board of Trustees (Board) are not financially accountable for any other entities or other organizations. Accordingly, the System is the only entity included in this financial report.

2. Board Composition

The Board shall consist of eight (8) Trustees, three (3) of whom are elected by the active Members of the System, one (1) of whom is elected by the retired Members of the System, two (2) of whom are appointed by the Mayor of the City, and two (2) of whom are Trustees by virtue of offices (Fire Chief and the Comptroller of the City or the Comptroller's designee -- Deputy Comptroller or the First Assistant Comptroller).

3. Basis of Accounting

The financial statements were prepared using the accrual basis of accounting. Employer's contributions are recognized in the period in which the contributions are due. Benefits and refunds are recognized when due and payable in accordance with the System's benefit provisions. Expenses are recorded when the corresponding liabilities are incurred, regardless of when payment is made. Dividend income is recognized based on the ex-dividend date and interest income is recognized on the accrual basis as earned. Fair value changes are recorded as investment income or loss. Investment purchases and sales are recorded on a trade-date basis (the date upon which the transaction is initiated).

4. GASB 67 Financial Reporting Model

The System's financial statements are prepared in conformity with GASB 67's financial reporting requirements for governmental pension systems. GASB 67 includes required presentation of the financial statements, notes to financial statements, and RSI. An actuarial calculation of the total and net pension liability (excess assets) as defined in the accounting standard is included in the notes to the financial statements and RSI. Other comprehensive footnote disclosures include the sensitivity of the net pension liability (excess assets) to the discount rate and investment activity disclosures. The total employer's projected net pension liability (excess assets) is presented in the notes to financial statements and is calculated using a discount rate (long-term or blended) depending on the sufficiency of projected net position to cover projected benefit payments of retirees and beneficiaries.

NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

5. Investment Valuation

Investments are reported at fair value. Short-term money market investments are reported at cost, which approximates fair value. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. On September 30 or on the last reported bid price if no sale was made on that date, fixed-income securities are valued principally using quoted market prices provided by independent pricing services. For collective investments, fair value is determined and certified by the investment managers as of the reporting date. Hedge funds, limited partnership units, and real estate investment trust are measured at net asset value (NAV). Real estate investments are valued at estimated fair value as determined by the general partner, based upon appraisals provided by the investment manager. Hedge funds and limited partnership units investments are reported at estimated fair value as determined by the general partner of the investment vehicle.

6. Cash and Cash Equivalents

Cash on deposit with Commerce Bank N.A. is maintained for the System by the Treasurer of the City.

7. Operating Expenses

Benefits paid and administrative expenses are approved by the Board. Payments are processed by the Treasurer of the City.

8. Net Position - Restricted for Pensions

The System's net position - restricted for pensions consist of:

Member's Savings Fund -- Members contributed 8% of their compensation to the System through February 1, 2013 (date frozen). Such contributions are credited to the Member's Savings Fund. Interest, at a rate determined by the Board, is credited annually on the balance in each Member's account during the preceding year. Withdrawal refunds of Member's accumulated contributions are charged to this fund. Upon retirement or death in service of a Member with a surviving beneficiary, the Member's own contributions are refunded. Upon termination of employment or death in service with no survivor, the Member's contributions, including interest, are refunded. The balance at September 30, 2017 and 2016 was \$80,059,314 and \$77,140,271, respectively.

Benefit Reserve Fund -- Upon retirement or death, the Benefit Reserve Fund is payable to the Member or their beneficiaries. This amount is determined by the actuaries, in accordance with Ordinances 49623, 56444, 57603, 58242, 58651, 58652, and 59018. An amount is transferred from the General Reserve Fund which, when added to the amount transferred from Member's Savings Fund, brings the balance of the Benefit Reserve Fund to an amount equal

NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

8. Net Position - Restricted for Pensions (Continued)

to the present value of future benefits. The balance at September 30, 2017 and 2016 was \$325,427,379 and \$344,798,628, respectively.

General Reserve Fund -- Contributions made by the City are credited to the General Reserve Fund. The present value of all future estimated benefits payable to active Members on death or retirement not provided by Member's contributions are accumulated in this fund. The balance at September 30, 2017 and 2016 was \$78,039,592 and \$31,630,140, respectively.

Future Benefit Fund -- The Future Benefit Fund was established June 29, 1990 by City Ordinance as a method to fund increased benefits for retired Members. The funding of the Future Benefit Fund was terminated per the City Ordinance after fiscal year ended August 31, 1993. The balance in the fund will be used for future benefits until it is exhausted. Benefits of \$309,336 and \$0 were paid from the Future Benefit Fund during the years ended September 30, 2017 and 2016, respectively. The System entered into a settlement agreement with the City regarding sick leave benefits. The settlement required a one-time payment of \$1,070,749 during the year ended September 30, 2015 and 15 annual transfers between the Future Benefit Fund and the General Reserve Fund of \$166,792 starting with the year ended September 30, 2016 (see Note N). The Future Benefit Fund is excluded from the assets used in determining the employer's contribution requirement. The balance at September 30, 2017 and 2016 was \$5,236,926 and \$5,051,183, respectively.

System Employees Benefit Fund -- On August 28, 1997, the Board approved a resolution to provide additional benefits for the administrative employees of the System in the form of severance pay and a limited retirement package. The severance pay applies to employees who are dismissed for any reason other than for just cause based on the wrongful conduct of the employee. The dismissed employee would be entitled to one month's pay for each year or part of year that the employee has been employed by the System. The retirement package is for employees who have completed five years of service. Upon completing five years of service, the employee will have five months of salary credited to him or her. Thereafter the employee will be credited with a month of salary upon completion of each additional year of service. Employees accrued additional benefits of \$14,020 and \$11,660 for the years ended September 30, 2017 and 2016, respectively. The employees must make a one-time election as to how their accounts will be credited each anniversary date with interest on the account. There were no benefits paid from the System Employees Benefit Fund during the years ended September 30, 2017 and 2016. The System Employees Benefit Fund is excluded from the assets used in determining the employer's contribution requirement. The balance at September 30, 2017 and 2016 was \$85,002 and \$70,982, respectively.

The severance pay benefit program provided to administrative employees of the System was frozen to the current and future System's employees effective September 30, 2014. Future interest accrual or losses on employees' vested accounts is limited to one identified employee of the System.

NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

9. Use of Estimates

The preparation of the System's financial statements in conformity with accounting principles generally accepted in the United States of America requires management and the System's actuary to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions to and deductions from net position during the reporting period. Actual results could differ from those estimates.

10. Capital Assets

Expenditures for property and equipment exceeding \$1,000 are capitalized and depreciated over the estimated useful lives of the capital assets on the straight-line method as follows:

Asset	Years
Building	40
Building improvements	10 - 15
Furniture, equipment, and software	5 - 10

Expenditures for repairs and maintenance are expensed as incurred. Gains and losses on disposition of property and equipment are included in changes in fiduciary net position as realized.

Capital assets, net of accumulated depreciation, is summarized by major classification as follows:

	For The Year Ended September 30, 2017				
		Balance stember 30 2016	Increases	Decreases	Balance September 30 2017
Capital assets not being depreciated:		_			
Land	\$	83,086			83,086
Capital assets being depreciated:					
Building		205,417	-	-	205,417
Building improvements		232,702	-	-	232,702
Furniture, equipment, and software		508,336		2,895	505,441
Total Capital Assets Being					
Depreciated		946,455		2,895	943,560
Less - Accumulated depreciation for:					
Building		77,886	5,137	-	83,023
Building improvements		155,053	7,914	-	162,967
Furniture, equipment, and software		292,345	43,768	2,401	333,712
Total Accumulated Depreciation		525,284	56,819	2,401	579,702
Total Capital Assets Being					
Depreciated, Net		421,171	(56,819)	494	363,858
Total Capital Assets, Net	\$	504,257	(56,819)	494	446,944

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NOTE B - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

10. Capital Assets (Continued)

Depreciation expense for the years ended September 30, 2017 and 2016 was \$56,819 and \$59,919, respectively.

11. Staff Pension Plan

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pension, and pension expense, information about the fiduciary net position of the Employees Retirement System of the City of St. Louis (ERS), a cost-sharing, multi-employer defined benefit plan and additions to/deductions from ERS' fiduciary net position have been determined on the same basis as they are reported by ERS. For this purpose, contributions from employers and net pension liability are recognized on an accrual basis of accounting.

12. Deferred Outflows/Inflows of Resources

In addition to assets, the statement of fiduciary net position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element represents a consumption of net position that applies to a future period(s) and so will not be recognized as an outflow of resources (expense/expenditure) until then.

In addition to liabilities, the statement of fiduciary net position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element represents an acquisition of net position that applies to a future period(s) and so will not be recognized as an inflow of resources (revenue) until that time.

The System currently has deferred inflows and outflows from GASB 68 pension elements from the System's staff participation in ERS which is reported on the statement of fiduciary net position.

NOTE C - CASH AND CASH EQUIVALENTS

The System's bank deposits are required by state law to be secured by the deposit of certain securities specified by RSMo 30.270. The collateralized securities are held by a trustee institution. The value of the securities must amount to the total of the System's cash not insured by the Federal Deposit Insurance Corporation (FDIC). The System's bank deposits as of September 30, 2017 and 2016 were \$4,114,816 and \$3,967,302, respectively. Both years' balances were insured by the FDIC or collateralized with securities held by the pledging financial institution's trust department in the System's name. The System's carrying amount of bank deposits was \$4,096,393 and \$3,896,091 as of September 30, 2017 and 2016, respectively.

NOTE D - CONTRIBUTION RECEIVABLE - EMPLOYER

Employer contributions are calculated by the System's actuary (Gabriel, Roeder, Smith & Company). The employer contributions due to the System for the years ended September 30, 2017 and 2016 were \$3,313,603 and \$2,715,140, respectively.

Contribution receivable - employer consists of the following:

	September 30		
	201	7	2016
Contributions receivable, beginning of year Current year contributions due from the employer as	\$	-	-
calculated by the System's actuary Contributions received from the employer during the year		3,603 3,603)	2,715,140 (2,715,140)
Total Contributions Receivable, End Of Year	\$		

NOTE E - INVESTMENTS

Investments of the System are managed by various investment managers hired by the Board to invest according to investment policy guidelines established by the Board. The fair value of investments managed consisted of the following:

	September 30		
	20	17	2016
Aberdeen Asset Management, Inc. (core plus domestic fixed income):			
Collective investment fund - domestic fixed income	\$		65,292,247
Acadian Asset Management, LLC (international small cap):			
Collective investment fund - equity	33,0	699,340	29,944,062
AJO, LP (emerging markets):			
Hedge fund	34,4	436,074	28,449,963
Argent Capital Management, LLC (U.S. large cap growth index)			
Corporate stocks	31,3	331,592	26,569,663
Money market fund		784,924	759,625
	32,1	116,516	27,329,288
The Commerce Trust Company (core plus domestic fixed income):			
Corporate bonds - active core, primarily domestic	13,0	078,927	-
Government-backed bonds	4,2	262,179	-
Mortgage-backed bonds	1,9	991,851	-
Money market fund	9	918,138	-
	20,2	251,095	-
	-		

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NOTE E - INVESTMENTS (Continued)

	September 30		
	2017	2016	
Eagle Capital Management, LLC (large cap value):			
Corporate stocks	25,242,464	25,496,522	
Money market fund	384,100	1,416,574	
	25,626,564	26,913,096	
EnTrust Partners Offshore, LLC (multi-strategy hedge fund):			
Hedge fund	22,266,123	21,889,478	
Fisher Investments, Inc. (international small cap value):			
Corporate stocks	68,178,572	58,170,659	
Money market fund	405,220	198,289	
Money market rand	68,583,792	58,368,948	
Intech Investment Management, LLC (large cap enhanced plus):			
Corporate stocks	31,177,169	25,929,916	
Money market fund	126,658	148,012	
	31,303,827	26,077,928	
Integrity Asset Management, LLC (small cap):			
Corporate stocks	17,336,732	19,810,335	
Money market fund	428,790	858,819	
	17,765,522	20,669,154	
MacKay Shields Collective Investment Trust (fixed income)			
Collective investment fund - foreign aggregate	37,864,574	_	
Money market fund	(1,234)	_	
,	37,863,340	-	
Magnitude Institutional, LLC (multi-strategy hedge fund):			
Hedge fund	26,836,313	25,863,881	
The Northern Trust Company (index bonds and TIPS fund):			
Collective investment fund - fixed income	5,295,900	5,318,823	
Corporate stocks	•	484,488	
Money market fund	6,000,321	3,806,837	
	11,296,221	9,610,148	
Penn Capital Management Company, Inc. (fixed income):			
Corporate bonds	-	30,941,996	
Money market fund	<u> </u>	1,143,228	
		32,085,224	

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NOTE E - INVESTMENTS (Continued)

	September 30		
	2017	2016	
Pinnacle Associates, Ltd. (small/mid cap growth):			
Corporate stocks	20,202,251	19,313,226	
Money market fund	457,786	251,970	
	20,660,037	19,565,196	
Principal Financial Group (core real estate):			
Real estate investment trust	45,672,751	41,979,114	
Prudential Trust Company (fixed income):			
Collective investment fund - domestic aggregate	35,767,995	-	
Money market (overdraft)	(454)	-	
	35,767,541	-	
Tortoise Capital Advisors, LLC (master limited partnerships):			
Corporate stocks - energy	2,083,712	986,279	
Limited partnership units - energy	17,807,504	18,974,022	
Money market fund	346,471_	432,610	
	20,237,687	20,392,911	
Total Investments	\$ 484,382,743	454,430,638	

Money market funds are invested in Northern Trust's Collective Government Short-term Investment Fund.

The System's investments are continuously exposed to various types of inherent risks. These risks are mitigated by the System's development and continual monitoring of sound investment policies. The maturities, credit rating by investment, and foreign currency exposures by asset class schedules are presented as follows to provide an illustration of the System's current level of exposure to various risks.

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

The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. Fair value is defined as the quoted market value on the last trading day of the period. These prices are obtained from various pricing sources by the System's custodian bank. Debt and equity securities held in Collective Trust Funds are held in those funds on behalf of the System and there is no restriction on the use and or liquidation of those assets.

The categorization of investments within the hierarchy is based upon the pricing transparency of the instrument and should not be perceived as an indication of the risk associated with investing in these securities.

NOTE E - INVESTMENTS (Continued)

For the investments measured at net asset value (NAV) at September 30, 2017 and 2016:

- There were no unfunded purchase commitments.
- Redemption frequency, when currently eligible, is quarterly.
- Notice period for redemptions is 1 to 90 days.

The System has the following recurring fair value measurements as follows:

	September 30, 2017				
	Level 1	Level 2	Level 3	Total	
Investments, at fair value:					
Corporate stocks:					
Domestic	\$ 125,695,862	-	-	125,695,862	
International	69,856,630	-	-	69,856,630	
Collective investment funds - government					
bonds, agencies, and mortgaged-backed					
securities	-	5,295,902	-	5,295,902	
Corporate bonds:					
Domestic	-	13,078,927	-	13,078,927	
Collective investment funds - international					
equity	33,699,340	-	-	33,699,340	
Collective investment funds - domestic					
fixed income	-	73,632,567	-	73,632,567	
Government-backed bonds	-	4,262,179	-	4,262,179	
Mortgage-backed bonds	-	1,991,851	-	1,991,851	
Money market funds	9,850,720			9,850,720	
Total Investments By Fair					
Value Level	\$ 239,102,552	98,261,426		337,363,978	
Investments measured at NAV:					
Hedge funds				83,538,510	
Real estate investment trust				45,672,751	
Limited partnership units - energy				17,807,504	
Total Investments Measured					
At NAV				147,018,765	
T . II M					
Total Investments Measured At Fair Value				\$ 484,382,743	
At I all value				Ψ τυτ,5υ2,145	

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NOTE E - INVESTMENTS (Continued)

	September 30, 2016			
	Level 1	Level 2	Level 3	Total
Investments, at fair value:				
Corporate stocks:				
Domestic	\$ 117,406,993	-	-	117,406,993
International	59,354,095	-	-	59,354,095
Collective investment funds - government				
bonds, agencies, and mortgaged-backed				
securities	-	5,318,823	-	5,318,823
Corporate bonds:		20.044.005		20.044.005
Domestic	-	30,941,996	-	30,941,996
Collective investment funds - international	20.044.062			20.044.062
equity	29,944,062	-	-	29,944,062
Collective investment funds - domestic		<i>(5</i> , 202, 247		<i>(5.</i> 202 247
fixed income	0.015.064	65,292,247	-	65,292,247
Money market funds	9,015,964			9,015,964
Total Investments By Fair Value Level	\$ 215,721,114	101,553,066	_	317,274,180
value Level	Ψ 213,721,114	101,333,000		317,274,100
Investments measured at NAV:				
Hedge funds				76,203,322
Real estate investment trust				41,979,114
Limited partnership units - energy				18,974,022
Total Investments Measured				
At NAV				137,156,458
Total Investments Measured				
At Fair Value				\$ 454,430,638

The following schedule provides a summary of the fixed income investment maturities by investment category, which helps demonstrate the current level of interest rate risk assumed by the System:

	Maturities As Of September 30, 2017						
Fixed Income			Less Than	1 - 5	6 - 10	More Than	
Investment Category		Total	One Year	<u>Years</u>	<u>Years</u>	10 Years	
Collective investment funds	\$	78,928,469	4,554,306	15,854,678	31,327,497	27,191,988	
Corporate bonds		13,078,927	-	6,974,574	3,844,165	2,260,188	
Government-backed		4,262,179	-	2,828,394	1,116,383	317,402	
Mortgage-backed		1,991,851				1,991,851	
Total	\$	98,261,426	4,554,306	25,657,646	36,288,045	31,761,429	

NOTE E - INVESTMENTS (Continued)

	Maturities As Of September 30, 2016						
Fixed Income Investment Category	Total	Less Than One Year	1 - 5 Years	6 - 10 Years	More Than 10 Years		
Collective investment funds Corporate bonds	\$ 70,611,070 30,941,996	7,901,957	31,346,100 9,479,390	16,776,311 18,221,061	14,586,702 3,241,545		
Total	\$ 101,553,066	7,901,957	40,825,490	34,997,372	17,828,247		

Certain collective investment funds are classified by average maturities of the portfolios.

The System's fixed income investments current level of exposure to credit risk, or the risk that an issuer or other counterparty to an investment will not fulfill its obligations, is demonstrated by the following table:

	Credit Rating As Of September 30, 2017					
Credit Rating Level	_	Total	Collective Investment Funds	Corporate Bonds	Government- Backed	Mortgage- Backed
AAA AA BBB BB B Not rated	\$	35,189,280 7,382,879 17,873,617 24,853,455 7,027,528 4,697,930 1,236,737	32,451,358 2,191,065 9,267,718 22,456,763 7,027,528 4,697,930 836,107	1,675,706 8,605,899 2,396,692 - - 400,630	2,737,922 1,524,257 - - - -	- 1,991,851 - - - - -
Total	\$	98,261,426	78,928,469	13,078,927	4,262,179	1,991,851
			Credit Rating	As Of Septembe	er 30, 2016	
Credit			Collective			_
Rating			Investment	Corporate	Government-	Mortgage-
Level		Total	Funds	Bonds	Backed	Backed
AAA	\$	42,355,920	42,355,920	-	-	-
AA		7,076,133	7,076,133	-	-	-
A		8,866,206	8,866,206	-	-	-
BBB		15,164,338	11,430,072	3,734,266	-	-
BB		14,763,572	456,055	14,307,517	-	-
В		12,759,031	241,385	12,517,646	-	-
Not rated		567,866	185,299	382,567		
Total	\$	101,553,066	70,611,070	30,941,996		

NOTE E - INVESTMENTS (Continued)

Certain collective investment funds are classified by average credit rating levels of the portfolios.

Foreign Currency Risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The System's policy is to allow the individual investment managers to decide what action to take regarding their respective portfolio's foreign currency exposure. The following table demonstrates the System's current level of foreign currency exposure:

			Real Estate		Limited	Money	
		Fixed	Investment	Hedge	Partnership	Market	
Currency	Equities	Income	Trust	Funds	<u>Units</u>	Funds	Total
Australian Dollar	\$ 2,158,968	-	-	-	-	-	2,158,968
British Pound Sterling	8,602,768	-	-	-	-	-	8,602,768
Canadian Dollar	650,597	-	-	-	-	-	650,597
Danish Krone	1,728,593	-	-	-	-	-	1,728,593
Euro	32,767,072	-	-	-	-	-	32,767,072
Hong Kong Dollar	2,614,690	-	-	-	-	-	2,614,690
Japanese Yen	8,238,398	-	-	-	-	-	8,238,398
Singapore Dollar	-	-	-	-	-	-	-
South Korean Won	2,283,389	-	-	-	-	-	2,283,389
Swedish Krona	347,121	-	-	-	-	-	347,121
Swiss Franc	 4,790,084						4,790,084
Total Foreign	 <u> </u>						_
Currency	64,181,680	-	-	-	-	-	64,181,680
United States Dollar	 165,070,152	98,261,426	45,672,751	83,538,510	17,807,504	9,850,720	420,201,063
Total	\$ 229,251,832	98,261,426	45,672,751	83,538,510	17,807,504	9,850,720	484,382,743

	8	<u> </u>	Asset Class In U.S Real Estate		Limited	Money	
		Fixed	Investment	Hedge	Partnership	Market	
Currency	 Equities	Income	Trust	Fund	Units	Funds	Total
Australian Dollar	\$ 2,133,091	-	-	-	-	-	2,133,091
British Pound Sterling	8,840,963	-	-	-	-	-	8,840,963
Canadian Dollar	745,012	-	-	-	-	-	745,012
Danish Krone	1,606,443	-	-	-	-	-	1,606,443
Euro	23,151,433	-	-	-	-	-	23,151,433
Hong Kong Dollar	2,681,837	-	-	-	-	-	2,681,837
Japanese Yen	5,159,080	-	-	-	-	-	5,159,080
Singapore Dollar	706,374	-	-	-	-	-	706,374
South Korean Won	1,479,965	-	-	-	-	-	1,479,965
Swedish Krona	438,048	-	-	-	-	-	438,048
Swiss Franc	 5,193,167						5,193,167
Total Foreign	 						
Currency	52,135,413	-	-	-	-	-	52,135,413
United States Dollar	 154,569,737	101,553,066	41,979,114	76,203,322	18,974,022	9,015,964	402,295,225
Total	\$ 206,705,150	101,553,066	41,979,114	76,203,322	18,974,022	9,015,964	454,430,638

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NOTE E - INVESTMENTS (Continued)

Investments Policies

Custodial Credit Risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The System's minimum credit quality for each issue shall be "BBB" (or its equivalent) at the time of purchase. In the event of a split-rating, the higher rating shall apply. The fixed income portfolio should have an average quality rating of at least "A" (or its equivalent). Commercial paper issues must be rated at least "A1" (or its equivalent) at the time of purchase. In the event of a split-rating, the higher rating shall apply. In the event of a downgrade below investment grade by any rating agency, the investment manager is required to notify the Board and investment consultant as soon as possible and to refrain from any further investment in the downgraded issue.

Interest Rate Risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Investments held for longer periods are subject to increased risk of adverse interest rate changes. The effective duration of any fixed income portfolio shall not exceed 120% of the effective duration of the investment manager's broad market benchmark.

Concentration of Credit Risk is the risk of loss attributed to the magnitude of the System's investment in a single issuer. The System's policy does not allow the concentration per issuer to exceed 5% of the portfolio's fair value at cost, with the exception of cash, cash equivalents, U.S. Treasury, or U.S. Agency securities. Furthermore, the investment manager may not hold more than 5% of the outstanding shares of any single issuer with the exception of U.S. Treasuries or Agencies. Investment in any single fund of hedge funds shall not exceed 10% of the fund's fair value.

It is the System's current policy to invest in each asset class ranging between a minimum and maximum of total System's investments as shown below:

Asset Class As A Percent Of Total Assets					
Asset Class	<u>Minimum</u>	Target Mix	Maximum		
Domestic equity:					
Large cap	13%	18	23		
Small mid cap	3	8	13		
International equities	19	24	29		
Fixed income	20	25	30		
Real estate trust	10	15	20		
Hedge funds	5	10	15		

Long-term Expected Rate of Return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the 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 System's target asset allocation as of September 30, 2017 are summarized in the following table:

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NOTE E - INVESTMENTS (Continued)

Asset Class	Long-term Expected Real Rate Of Return
Domestic equity	4.3%
International equity	4.7
Fixed income	(1.3)
Real estate (REIT)	4.8
Nondirectional hedge fund of funds	2.2
Private equity (partnerships)	9.4
Money market	-

The above long-term expected real rates of return represent best estimates of mathematical rates of return for each major asset class included. These rates of return are shown net of inflation (assumed at 2.75%) and net of investment expenses (assumed at 0.5%).

Liquidity Risk is the risk that redemption notice periods are required and longer periods may be imposed before payment of redemption proceeds are settled for the following investments:

AJO, LP (Hedge Fund) EnTrust Capital Diversified Fund QP, Ltd. (Hedge Fund) Magnitude Institutional, LLC Class A (Hedge Fund) The Principal U.S. Property Account (REIT)

NOTE F - INVESTMENTS GREATER THAN 5% OF NET POSITION - RESTRICTED FOR PENSIONS

Investments which exceed 5% or more of net position - restricted for pensions are as follows:

	September 30	
	2017	2016
The Principal U.S. Property Account (REIT)	\$45,672,750	41,979,113
Mackay Shields Core Plus Opportunities Portfolio	37,864,574	-
Prudential Core Plus Bond Fund	35,767,995	-
AJO Emerging Markets All-Cap Offshore Fund, Ltd.	34,436,073	28,449,963
Acadian International Small Cap Fund	33,699,340	29,944,062
Magnitude Institutional, LLC Class A Hedge Fund	26,836,313	25,863,881
Aberdeen Core Plus Fixed Income Portfolio	-	65,292,247

NOTE G - NET APPRECIATION (DEPRECIATION) IN FAIR VALUE OF INVESTMENTS

The net appreciation (depreciation) in fair value of investments consists of:

	For The Years Ended September 30		
		2017	2016
Equities:			
Corporate stocks	\$	37,654,361	14,673,183
Collective investment funds		5,959,031	6,691,655
Fixed income:			
Collective investment funds		962,074	4,364,625
Corporate bonds		1,440,309	895,781
Government-backed bonds		8,044	-
Mortgage-backed bonds		(8,431)	-
Hedge funds		7,335,189	1,502,844
Real estate investment trust		3,693,637	4,755,201
Limited partnership units		(1,069,262)	981,077
Total	\$	55,974,952	33,864,366

NOTE H - ACTUARIALLY DETERMINED CONTRIBUTIONS BASED ON STATUTORY REQUIRED CONTRIBUTIONS

The actuarial funding method utilized by the System as required by Missouri State Statutes is the entry age frozen liability method. Under this method, any frozen unfunded actuarial accrued liability is amortized over 30 years from the date the liability is added.

Actuarially determined contributions in accordance with this method are as shown in the following table:

	For The Ended Sept		Covered Payroll Percentage	
	2017	2016	2017	2016
Required contributions - employer: Portion of normal cost attributable to the				
System's fiscal year	\$ 149,616	-	0.5 %	-
Unfunded actuarial accrued liability amortization payment	2,715,140	678,785	8.7	2.2
Total Employer Required Contributions	\$ 2,864,756	678,785	9.2 %	2.2
Contributions Made By Employer During System's Fiscal Year	\$ 3,313,603	2,715,140	10.7 %	9.0

This amount is developed by using one quarter of the current year's statutory annual required contribution and three quarters of the prior year's statutory annual required contribution because the City's fiscal year ends on June 30 each year.

NOTE H - ACTUARIALLY DETERMINED CONTRIBUTIONS BASED ON STATUTORY REQUIRED CONTRIBUTIONS (Continued)

Covered payroll is the payroll on which contributions to the System are based. The covered payroll was \$31,079,373 and \$30,219,253 for the years ended September 30, 2017 and 2016, respectively.

The reduction in unfunded accrued liability (UAL) for the System due to plan and assumption changes attributable to BB 109 on October 1, 2013, was greater than the remaining frozen initial liability (FIL). Consequently, the FIL for the System was set equal to zero at that date. A new FIL was added at September 30, 2015 resulting from actuarial assumption changes (mortality and discount rate) as a result of an actuarial cost study performed. The FIL was \$32,953,962 and \$33,335,610 at September 30, 2017 and 2016, respectively. The FIL amortization period is 30 years.

NOTE I - EMPLOYER'S NET PENSION LIABILITY (EXCESS ASSETS) - ENTRY AGE NORMAL ACTUARIAL COST METHOD

The components of the employer's net pension liability (excess assets) (the System's liability determined in accordance with GASB 67 less the fiduciary net position) as of September 30, 2017 and 2016, are shown in the schedules of employer's net pension liability (excess assets) below.

Actuarial valuation of an ongoing plan involves estimates of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability (excess assets) are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The schedule of changes in employer's net pension liability (excess assets) presents multi-year trend information about whether the System's fiduciary net positions are increasing or decreasing over time relative to the total pension liability. These schedules are presented in the RSI. The total pension liability as of September 30, 2017 and 2016, are based on an actuarial valuation performed as of October 1, 2017 and 2016, and a measurement date of September 30, 2017 and 2016, using generally accepted actuarial procedures.

Schedules of Employer's Net Pension Liability (Excess Assets)

	September 30		
	2017	2016	
Total pension liability System's fiduciary net pension	\$ 464,759,662 483,611,287	489,518,153 453,640,021	
Employer's Net Pension Liability (Excess Assets)	<u>(\$ 18,851,625)</u>	35,878,132	
System's Fiduciary Net Position as a Percentage of Total Pension Liability (Excess Assets)	104.06%	92.67	
Covered Members Payroll (excluding DROP participants)	\$ 31,079,373	30,219,253	
Employer's Net Pension Liability (Excess Assets) as a Percentage of Covered Members Payroll	(60.66%)	118.73	

NOTE I - EMPLOYER'S NET PENSION LIABILITY (EXCESS ASSETS) - ENTRY AGE NORMAL ACTUARIAL COST METHOD (Continued)

The System's fiduciary net position shown in the previous schedules of employer's net pension liability (excess assets) excludes the Future Benefit Fund restricted for SHARE program benefits. The Future Benefit Fund was \$5,236,926 and \$5,051,183 at September 30, 2017 and 2016, respectively.

The System is closed to new Members, and benefits have been frozen as of February 1, 2013. The actuarial accrued liability is now equal to the present value of frozen accrued benefits and DROP balances as of the measurement date.

Sensitivity of the net pension liability (excess assets) to changes in the discount rate: the following presents the employer's net pension liability (excess assets), calculated using the discount rate of 7.3%, as well as what the employer's net pension liability (excess assets) would be if it were calculated using a discount rate that is 1% point lower (6.3%) or 1% point higher (8.3%) than the current rate.

	Current Discount				
	1% Decrease (6.3%)	Rate Assumption (7.3%)	1% Increase (8.3%)		
Total pension liability Employer's net pension liability	\$ 508,233,438	464,759,662	427,788,961		
(excess assets) System's fiduciary net pension/	24,623,151	(18,851,625)	(55,822,326)		
total pension liability	95.16%	104.06	113.05		

Discount Rate Used to Calculate the Present Value of Future Benefit Payments

A single discount rate was used to measure the total pension liability. This single discount rate was based on the expected rate of return on the System's investments of 7.3% (before administrative expenses assumption of 0.3%). This single discount rate is net of investment expenses (investment management and custodial fees) assumed to be 50 basis points. The projection of cash flows used to determine this single discount rate assumed that the City would make the required contributions as defined by Missouri State Statutes. Based on these assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current Members and their beneficiaries. Therefore, the long-term expected rate of return on the System's investments was applied to all periods of projected benefit payments to determine the total pension liability.

Methods and Assumptions used in Calculations of Actuarially Determined Pension Liability

Method:

Valuation date
Actuarial cost method (funding by State Statutes)
Actuarial cost method (GASB 67 reporting)
Amortization method/period
Remaining amortization period
Asset valuation method

October 1, 2017 Entry Age - Frozen Initial Liability Entry Age Normal 30-year closed period from establishment Various 3-year smoothed market

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NOTE I - EMPLOYER'S NET PENSION LIABILITY (EXCESS ASSETS) - ENTRY AGE NORMAL ACTUARIAL COST METHOD (Continued)

Actuarial assumptions:

Investment rate of return Long-term municipal bond rate Rate of payroll growth

Consumer price inflation Mortality

7.3%, net of investment expenses of 50 basis points 3.50%

3% to 4% based on service. Benefits have been frozen as of February 1, 2013; therefore, no salary increases have been assumed for purposes of determining benefits

Post-retirement ordinary - RP-2014 Healthy Annuitant Mortality Table, sex distinct

Pre-retirement - RP-2014 Employee Mortality Tables, sex distinct
Post-disability - assumed to be 20% higher than
post-retirement mortality rates

Cost-of-living adjustments (COLA):

Under Age 60			
Service Years	COLA		
20 - 24	1.50%		
25 - 29	2.25%		
30 or more	3.00%		
Over Age	e 60		

5% with a maximum of 25% in increases after age 60

NOTE J - SECURITIES LENDING

The System participated in The Northern Trust Company's (NTC) securities lending program in order to enhance the investment yield. In a securities lending transaction, the System transfers possession--but not title--of the security to the borrower. Borrowers shall be rated AA, A, or higher by Moodys or Standard and Poors. Collateral consisting of cash, letter of credit, U.S. government or agency securities, or floating rate notes of U.S. issuers is received and held by NTC. The collateral maintained is at least 102% of loan value for domestic securities and 105% of loan value for international securities of the fair value of the securities lent. The System maintains all the rights in the collateral of a secured lender under the Uniform Commercial Code. The System continues to earn income on the loaned security. In addition, the System receives 70% of the net lending fees generated by each loan of securities.

NTC receives the remaining 30% of the net lending fees as compensation for its services provided in the securities lending program. NTC indemnifies operational risk and counter party risk. The System authorizes the lending and loans of the following: domestic securities, U.S. Treasuries, corporate bonds, and equities. The System does not have the ability to pledge or sell collateral securities without borrower default. Therefore, for accounting purposes, the statements of fiduciary net position and changes in fiduciary net position do not reflect an increase in assets or liabilities associated with securities lent.

NOTE J - SECURITIES LENDING (Continued)

At September 30, 2017 and 2016, outstanding loans to borrowers were \$44,863,552 and \$66,680,343, respectively. The System earned income of \$342,622 and \$274,015 for its participation in the securities lending program for the years ended September 30, 2017 and 2016, respectively.

NOTE K - SYSTEM STAFF PENSION PLAN

General Information about the Pension Plan

Plan Description

All full-time staff at the System are provided with pension benefits through the ERS.

Benefits Provided

Upon retirement at age 65, or at any age plus years if credited service equals or exceeds 85 (Rule of 85), employees receive monthly payments for life of yearly benefits equal to years of credited service multiplied by 1.3% of average final compensation plus 2.05% of average final compensation in excess of employee's benefit compensation in excess of the current Social Security wage base. Early retirement can occur at age 60 with at least five years of service. This early service retirement allowance is reduced by 4% for each year prior to age 65 or at the age at which the Rule of 85 would have been satisfied had the employee continued working until that age, if earlier.

Disability retirement is available if an employee has 5 years of creditable service and is totally disabled as determined by the Medical Board. The disability pension is computed in the same manner as normal service retirement.

In lieu of the benefit paid over the lifetime of the employee, reduced benefit options are available for survivor and beneficiary payments.

Employees are eligible, after accumulation of 5 years of credited service, for disability benefits prior to eligibility of normal retirement. Survivor benefits are available for beneficiaries of employees who die after at least 5 years of service.

The Deferred Retirement Option Plan (DROP) allows employees who have reached retirement eligibility to begin receiving a pension benefit while continuing to work. The benefit is paid to an employee's DROP account where it earns interest. No creditable service is earned during DROP participation. An employee can participate in DROP for a maximum of 5 years and can immediately retire or continue to work and resume earning creditable service.

Contributions

ERS does not require employee contributions.

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NOTE K - SYSTEM STAFF PENSION PLAN (Continued)

The System was contractually required to contribute a percentage of annual payroll as follows:

Service Period	Contribution Rate
July 2017 to current	12.22%
July 2016 to June 2017	12.51
July 2015 to June 2016	13.93

The amount is actuarially determined and is expected to finance the costs of benefits earned by employees during the year along with any additional amount to finance the unfunded accrued liability. Contributions to ERS from the System were \$43,867 and \$46,429 for the years ended September 30, 2017 and 2016, respectively.

Net Pension Expense

Net pension expense is the sum of changes in the net pension liability and deferred inflows and outflows of resources. The System's net pension expense was calculated as follows:

	For The Years Ended September 30		
	2017	2016	
System's employer contributions	\$ 43,867	46,429	
Increase in net pension liability	9,886	93,261	
Increase (decrease) in deferred inflows of resources	(407)	(4,829)	
(Increase) decrease in deferred outflows of resources	24,832	(71,724)	
Net Pension Expense	<u>\$ 78,178</u>	63,137	

Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

The net pension liability was measured as of the beginning of the Systems fiscal years September 30, 2016 and 2015, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The System had a liability of \$264,825 (or 0.13%) and \$254,939 (or 0.11%) for its proportionate share of ERS' net pension liability for the years ended September 30, 2017 and 2016, respectively. The System's proportion of the net pension liability was based on a projection of the System's long-term share of contributions to ERS relative to the projected contributions of all participating employers, actuarially determined.

The actuarially determined deferred outflows of resources and deferred inflows of resources related to ERS were from the following sources:

NOTE K - SYSTEM STAFF PENSION PLAN (Continued)

			For The Year Ended September 30, 2017			
			0	utflows	Inflows	Net Outflows
Net difference between expec	ted and actual exp	erience	\$	-	(5,338)	(5,338)
Net difference from assumption	on changes			-	(2,155)	(2,155)
Net difference between project	cted and actual ear	nings				
on ERS' investments				49,745	-	49,745
Net impact from changes in p	roportion allocation	on				
between the participating er	nployers			30,776	-	30,776
Fiscal year 2017 paid contribu	ıtions			43,866		43,866
Total			\$	124,387	(7,493)	116,894
For The Years Ending September 30						
	Total	<u>2018</u>		<u>2019</u>	<u>2020</u>	2021
Deferred outflows (inflows) future recognition	\$116,894	77,298		23,213	19,661	(3,278)

Actuarial Methods and Assumptions used in Calculations of Actuarially Determined Pension Liability

Valuation date:

Actuarially determined contributions are calculated as of October 1, 2016 and 2015 (beginning of year) valuation date used to calculate the required contribution for the fiscal years ending September 30, 2017 and 2016.

Actuarial methods:

Actuarial cost method (Funding)
Actuarial cost method (GASB 68)
Amortization method - 2017
Fixed 20 year period as of October 1, 2015 as a level percentage of payroll. Future gains and losses and changes in actuarial assumptions will be amortized in layers over 20 year periods.

Amortization method - 2016
Asset valuation method
Actuarial assumptions:

Projected Unit Credit Cost Method
Entry Age Normal
percentage of payroll. Future gains and losses and changes in actuarial assumptions will be amortized in layers over 20 year periods.

Rolling 30-year level dollar amortization of unfunded liability
5-year smoothing

Inflation

Salary increases - 2017

Salary increases - 2016

Salary increases - 2016

Investment rate of return

2.5%

3% plus merit component based on employee's year of service

3.5% plus merit component based on employee's years of service

2017 and 2016 - 7.5%, net of pension plan

investment expenses

Mortality rates - ordinary - 2017 and 2016

RP-2000 healthy mortality 3 year set-forward with

generational projections using scale A

Mortality rates - disability - 2017 and 2016 RP-2000 disabled mortality 3 year set-forward with generational projections using scale AA

 $\mathbf{p_a}$

NOTE K - SYSTEM STAFF PENSION PLAN (Continued)

Discount Rate

The discount rate used to measure the total pension liability was 7.5%. The projection of cash flows used to determine the discount rate assumed that contributions will continue to follow the current funding policy. Based on those assumptions, the ERS' fiduciary net position was projected to be sufficient to make all projected future benefits payments of current plan employees and their beneficiaries.

Sensitivity of the System's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the System's proportionate share of the net pension liability calculated using the long-term expected rate of return of 7.5%, as well as what the System's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1% point lower (6.5%) or 1% point higher (8.5%) than the current rate:

	1% Decrease	Current Discount Rate Assumption	1% Increase			
Discount rate	6.5%	7.5	8.5			
Net pension liability	\$389,607	264,825	158,169			

Detailed information about ERS' fiduciary net position is available in the separately issued ERS' financial report.

NOTE L - RELATED PARTY TRANSACTIONS

The System reimburses the City 100% of the total salaries, payroll taxes, and employee fringe benefits for the System's employees. The System's expense for the years ended September 30, 2017 and 2016, was \$471,222 and \$440,933, respectively. The System also reimburses the City for cost allocated from the Treasurer's Department. The System's expenses for the years ended September 30, 2017 and 2016, was \$6,900 and \$8,999, respectively.

NOTE M - RISK MANAGEMENT

The System is exposed to various risks of loss related to breach of fiduciary duties, errors and omissions, and loss of assets, torts, etc. The System has chosen to cover such losses through the purchase of commercial insurance. There have been no material insurance claims filed or paid during the past three fiscal years.

FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS NOTES TO FINANCIAL STATEMENTS

NOTE N - COMMITMENTS AND CONTINGENCIES

Unsettled Investment Transactions

The System was committed to the future settlement of investments purchased (accounted for by trade date) at September 30, 2017 and 2016, of \$634,146 and \$1,235,031, respectively. These amounts are reflected in the statements of fiduciary net position as a liability for unsettled investment transactions.

Lawsuits

The System entered into a settlement agreement with the Firefighters' Retirement Plan (FRP) in July 2015 whereby firefighters employed by the City prior to February 1, 2013 are entitled to use unused medical leave that accrued from September 2, 2010 and February 1, 2013 for pension purposes. The cost of the additional sick leave benefits was funded in part with a one-time transfer of \$1,070,749 from the System's Future Benefit Fund to FRP paid on October 2, 2015. The remaining actuarial present value of the cost of the additional sick leave benefits applicable to the System of \$1,515,608 shall be paid in full from the System's Future Benefit Fund to the General Reserve Fund of the System on a 15-year amortized basis, with annual payments of \$166,792 beginning October 2015. The actuarially determined net present value of the remaining balance to transfer totals was \$1,396,288 and \$1,458,139 as of September 30, 2017 and 2016, respectively.

NOTE O - RISKS AND UNCERTAINTIES

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

Actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

NOTE P - TAX STATUS

The System meets the requirements of a governmental plan under Section 414(d) of the Internal Revenue Code (IRC). The System obtained its latest determination letter on December 20, 2016 in which the Internal Revenue Service (IRS) stated that the System, as designed, was in compliance with the applicable requirements of the IRC. The Trustees believe that the System is currently designed and being operated in compliance with the applicable requirements of the IRC. Therefore, they believe that the System was qualified and the related trust was tax exempt as of the financial date.

Accounting principles generally accepted in the United States of America require the System's Trustees to evaluate tax positions taken by the System and recognize a tax liability if an uncertain position that more likely

FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS NOTES TO FINANCIAL STATEMENTS

NOTE P - TAX STATUS (Continued)

than not would not be sustained upon examination by the IRS or U.S. DOL. The System's Trustees have analyzed the tax positions taken by the System and has concluded that as of September 30, 2017 ad 2016, no uncertain positions are taken or are expected to be taken that would require recognition of a liability or disclosure in the financial statements. The System is subject to routine audits by the taxing jurisdictions; however, there are currently no audits for any tax periods in progress and the System has not been assessed any interest or penalties by the IRS or U.S. DOL.

NOTE Q - RATE OF RETURN

For the years ended September 30, 2017 and 2016, the annual money-weighted rate of return (loss) on the System's investments, net of investment expenses, was 14.69% and 9.2%, respectively. The money-weighted rate of return expresses investment performance, net of investment expenses, adjusted for the changing amounts actually invested.

NOTE R - NEW ACCOUNTING STANDARD ADOPTED

In fiscal year 2016, the System adopted GASB 82, Pension Issues - An Amendment of GASB Statements No. 67, No. 68, and No. 73. This statement addresses certain pension issues raised regarding: 1) presentation of payroll-related measures and the definition of covered payroll, 2) selection of actuarial assumptions used on determining the total pension liability and related measures, and 3) classification of employer-paid Members contributions as Member contributions. There was no material impact on the System's financial statements as a result of the implementation of GASB 82.

While this new accounting pronouncement will affect the accounting measures, it did not have an effect on the actuarial methods and assumptions used by the System to determine the employer contributions needed to fund the System as required under Missouri State Statutes. The new accounting pronouncement did, however, impact the financial statement presentation for pension accounting and related disclosures for the System.

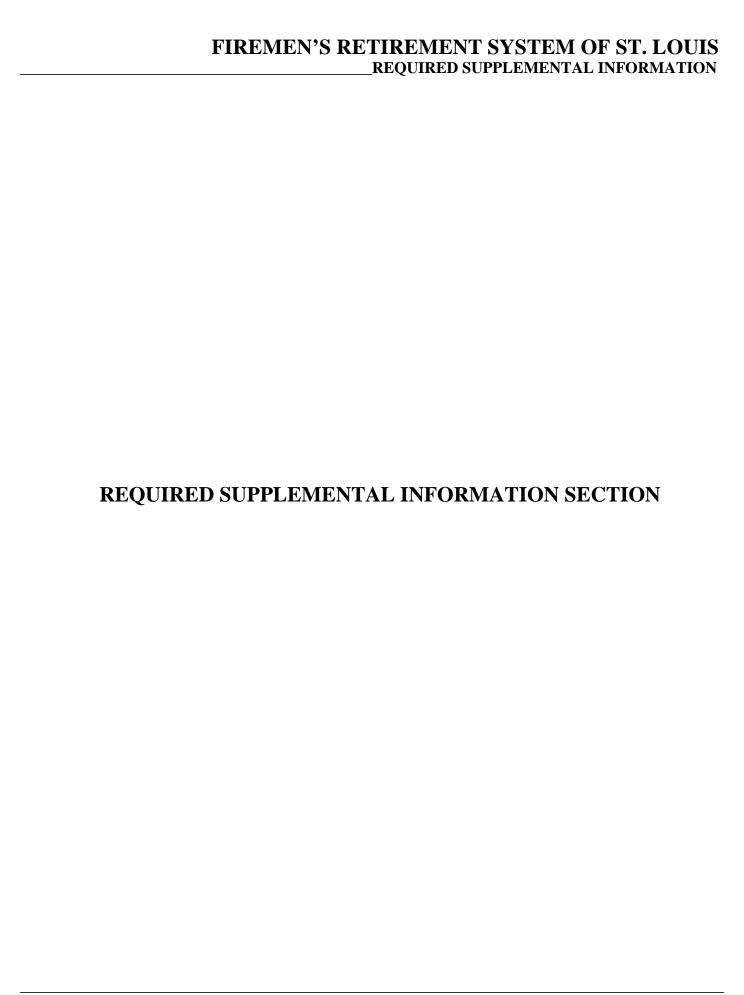
NOTE S - SUBSEQUENT EVENTS

The System has performed an evaluation of subsequent events through February 6, 2018, the date the basic financial statements were available to be issued. No material events were identified by the System.

NOTE T - SYSTEM RESERVES

Changes in the System's reserves for the years ended September 30, 2017 and 2016 are as follows:

Changes in the Bystein's reserves for the years enact September 5	Total	Member's Savings Fund	Benefit Reserve Fund	General Reserve Fund	Future Benefit Fund	System Employees Benefit Fund
Balance, September 30, 2015	\$ 451,862,805	75,149,942	352,961,203	18,887,637	4,804,701	59,322
Contributions	2,715,140	-	-	2,715,140	-	-
Net investment income less administrative expenses	37,546,477	6,409,146	28,977,545	1,734,852	413,274	11,660
Transfer due to (surplus) deficit	-	(3,140,487)	(4,985,232)	8,125,719	-	-
Transfer in accordance with Sick Leave Settlement	-	_	-	166,792	(166,792)	-
Benefits paid to retirees and beneficiaries	(32,154,888)	-	(32,154,888)	-	-	-
Refunds of Members' contributions	(1,278,330)	(1,278,330)		<u>-</u>		
Change in reserves for the year ended Septem-						
ber 30, 2016	6,828,399	1,990,329	(8,162,575)	12,742,503	246,482	11,660
Balance, September 30, 2016	458,691,204	77,140,271	344,798,628	31,630,140	5,051,183	70,982
Contributions	3,313,603	-	-	3,313,603	-	-
Net investment income less administrative expenses	59,984,717	10,371,777	44,442,138	4,494,911	661,871	14,020
Transfer due to (surplus) deficit	-	(6,636,299)	(31,797,847)	38,434,146	-	-
Transfer in accordance with Sick Leave Settlement	-	-	-	166,792	(166,792)	-
Benefits paid to retirees and beneficiaries	(32,324,876)	-	(32,015,540)	-	(309,336)	-
Refunds of Members' contributions	(816,435)	(816,435)		<u>-</u>		
Change in reserves for the year ended Septem-						
ber 30, 2017	30,157,009	2,919,043	(19,371,249)	46,409,452	185,743	14,020
Balance, September 30, 2017	\$ 488,848,213	80,059,314	325,427,379	78,039,592	5,236,926	85,002



For The Years Ended September 30

SCHEDULES OF CHANGES IN EMPLOYER'S NET PENSION LIABILITY (EXCESS ASSETS)

			ica september 50	
	2017	2016	2015	2014 (A)
Total Pension Liability (B)				
Service cost	\$ -	-	-	-
Interest on total pension liability	34,536,458	34,916,115	34,403,495	34,449,637
Benefit changes	-	-	-	-
Differences between expected and actual experience	(26,462,974)	(6,984,303)	15,441	-
Assumption changes	-	-	43,915,338	-
Benefit payments	(32,015,540)	(32,154,888)	(33,561,947)	(34,001,921)
Refunds of Members' contributions	(816,435)	(1,278,330)	(1,294,477)	(1,205,393)
Net Change In Total Pension Liability	(24,758,491)	(5,501,406)	43,477,850	(757,677)
Total Pension Liability Beginning	489,518,153	495,019,559	451,541,709	452,299,386
Total Pension Liability Ending (a)	\$ 464,759,662	489,518,153	495,019,559	451,541,709
System Fiduciary Net Position	Ф. 2.212.602	2.715.140		1,007,760
Contributions - Employer Contributions - Members	\$ 3,313,603	2,715,140	-	1,007,760
Net investment income (loss)	60,390,472	38,228,538	(10,931,763)	48,269,780
	(32,015,540)	(32,154,888)	(33,561,947)	(34,001,921)
Benefit payments Refunds of Members' contributions	(816,435)	(1,278,330)	(1,294,477)	(1,205,393)
Administrative expenses	(1,067,626)	(1,095,335)	(1,593,979)	(1,424,217)
Transfer from Future Benefit Fund	166,792	166,792	(1,393,979)	(1,424,217)
Net Change In System Fiduciary Net Position	29,971,266	6,581,917	(47,382,166)	12,646,009
Transfer out	27,771,200	0,361,717	(47,362,100)	(10,278,591)
Transfer out	-	_	<u>-</u>	(10,276,371)
System Fiduciary Net Position Beginning	453,640,021	447,058,104	494,440,270 (C)	492,221,578
System Fiduciary Net Position Ending (b)	\$ 483,611,287 (D)	453,640,021 (D)	447,058,104 (D)	494,588,996 (D)
Net Pension Liability (Excess Assets) Ending (a)-(b)	\$ (18,851,625)	35,878,132	47,961,455	(43,047,287)

Notes:

- (A) The September 30, 2014 total pension liability was restated due to an actuarial revision to develop the System's liabilities assuming benefits are fully earned because the System is closed to new Members, and benefits have been frozen as of February 1, 2013. The actuarial accrued liability, at that time, is now equal to the present value of frozen accrued benefits and DROP balances as of the measurement date.
- (B) The total pension liability as of the end of each measurement year is measured as of the measurement date (October 1) at the beginning of each year and projected to the end of each year.
- (C) The September 30, 2014 System fiduciary net position was restated (decreased) by \$148,726 from recording the beginning net pension liability, resulting from implementing GASB 68 for the System's staff participation in ERS during the year ended September 30, 2015.
- (D) The System's fiduciary net position shown in the above schedules of changes in employer's net pension liability (excess assets) excludes the Future Benefit Fund, including its earnings allocated, transfer out, and SHARE program benefits. The Future Benefit Fund balances stated for the years ended September 30, 2017, 2016, 2015, and 2014, were \$5,236,926, \$5,051,183, \$4,804,701, and \$6,326,389, respectively.

REQUIRED SUPPLEMENTAL INFORMATION -

_GASB STATEMENT NO. 67 PENSION ELEMENTS - SYSTEM RELATED

SCHEDULES OF EMPLOYER'S NET PENSION LIABILITY (EXCESS ASSETS)

	For The Years Ended September 30				
	2017	2016	2015	2014	
Total pension liability	\$ 464,759,662	489,518,153	495,019,559	451,541,709	
System fiduciary net position	483,611,287	453,640,021	447,058,104	494,588,996	
Employer's Net Pension Liabiity (Excess Assets)	\$ (18,851,625)	35,878,132	47,961,455	(43,047,287)	
System Fiduciary Net Position as a Percentage of the Total Pension Liability	104.06 %	92.67	90.31	109.53	
Covered Members' Payroll (excluding DROP participants)	\$ 31,079,373	30,219,253	30,288,086	29,767,542	
Employer's Net Pension Liability (Excess Assets) as a Percentage of Covered Members' Payroll	(60.66) %	118.73	158.35	(144.61)	

REQUIRED SUPPLEMENTAL INFORMATION -

GASB STATEMENT NO. 67 PENSION ELEMENTS - SYSTEM RELATED

SCHEDULES OF EMPLOYER'S CONTRIBUTIONS

		For The Yea	rs Ended Septen	iber 30	
	2017	2016	2015	2014	2013
Employer actuarially determined contributions Contributions in relation to the actuari-	\$ 3,313,603	2,715,140	-	1,007,760	9,803,957
ally determined contributions	3,313,603	2,715,140		1,007,760	10,137,271
Contributions Excess	<u>\$ -</u>		<u> </u>		333,314
Covered Members' Payroll (excluding DROP participants)	\$ 31,079,373	30,219,253	30,288,086	29,767,542	30,021,550
Contributions as a Percentage of Covered Members' Payroll	10.66 %	8.98	-	3.39	33.77

REQUIRED SUPPLEMENTAL INFORMATION -

GASB STATEMENT NO. 67 PENSION ELEMENTS - SYSTEM RELATED

SCHEDULES OF ANNUAL MONEY-WEIGHTED RATE OF RETURN ON INVESTMENTS

	For The Years Ended September 30					
	2017		2016	2015	2014	2013
Annual money-weighted rate of return, net						
of investment expenses	14.69	%	9.20	(2.42)	10.32	14.41

REQUIRED SUPPLEMENTAL INFORMATION -

GASB STATEMENT NO. 67 PENSION ELEMENTS - SYSTEM RELATED

NOTES TO REQUIRED SUPPLEMENTAL INFORMATION FOR THE YEAR ENDED SEPTEMBER 30, 2017

1. Changes in Benefit Terms

Changes in benefit terms must be enacted by the General Assembly of the State of Missouri. There were no changes in benefits during the year ended September 30, 2017.

2. Changes in Actuarial Assumptions

None

3. Changes in Actuarial Method

None

4. Method and Assumptions used in Calculations of Actuarially Determined Pension Liability

The actuarially determined employer's contributions were calculated as of the September 30 preceding the fiscal year in which contributions are made. That is, the contributions calculated as of the September 30, 2016 actuarial valuation was made during the fiscal year ended September 30, 2017. The following actuarial methods and assumptions were used to determine pension liability reported in the schedules of changes in employer's net pension liability (schedule):

Method:

Valuation date

October 1, 2017
Actuarial cost method (funding by state statutes)

Actuarial cost method (GASB 67 reporting)

Amortization method/period

Remaining amortization period

Asset valuation method

S-year smoothed market

Actuarial assumptions:

Investment rate of return 7.3%, net of investment expenses of 50 basis points Long-term municipal bond rate 3.50%

Rate of payroll growth 3% to 4% based on service. Benefits have been frozen as of February 1, 2013; therefore, no salary increases have been assumed.

Consumer price inflation 2.75%

Mortality Post-retirement ordinary - RP-2014 Healthy Annuitant Mortality Tables, sex distinct

Pre-retirement - RP-2014 Employee Mortality Tables, sex distinct

Post-disability - assumed to be 20% higher than post-retirement mortality rates

5. GASB 67 Ten-year Required Supplemental Schedules

Required supplemental schedules are required to present 10 years of information. However, the information in the schedules are not required to be presented retroactively. Years will be added to these schedules in future fiscal years until 10 years of information is presented.

6. Money-weighted Rate of Return

The annual money-weighted rate of return is computed assuming investment yield is received at the end of each month and on the actual or approximate date of contributions, benefit payments, and expenses.

REQUIRED SUPPLEMENTAL INFORMATION -

GASB STATEMENT NO. 67 PENSION ELEMENTS - SYSTEM RELATED

NOTES TO REQUIRED SUPPLEMENTAL INFORMATION FOR THE YEAR ENDED SEPTEMBER 30, 2017 (Continued)

7. Discount Rate used to Calculate the Present Value of Future Benefits

Projected benefit payments are required to be discounted to their actuarial present values using a single discount rate that reflects:

1) a long-term expected rate of return on the System's investments (to the extent that the System's fiduciary net position is projected to be sufficient to pay benefits) and 2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating (which is published by the Federal Reserve) as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

The long-term expected rate of return of the System's funding is assumed to be 7%. Per Missouri State Statutes, this rate is net of both investment and administrative expenses. GASB 67 requires the long-term expected rate of return to be determined net of pension plan investment expense but without reduction for the System's administrative expenses. Investment expenses (investment management and custodial fees) are assumed to be approximately 50 basis points. Administrative expenses are assumed to be approximately 30 basis points; consequently, the long-term expected rate of return used for purposes of GASB 67 is increased by 30 basis points to 7.3%. This rate is gross of administrative expenses.

For the purpose of this valuation, the expected rate of return on the System's investments is 7.3%; the municipal bond rate is 3.50% (based on the weekly rate closest to but not later than the measurement date of the "state and local bonds" rate from Federal Reserve statistical release (H.15)); and the resulting single discount rate is 7.3%. The single discount rate is unchanged from the expected rate of return on the System's investments because the System is closed to new Members and the present value of benefits is projected to be sufficient to pay benefits of all current Members and their beneficiaries by the assets. Furthermore, in the event that the assets fall below the present value of benefits and a contribution is required, a sound funding policy based on the frozen initial liability actuarial cost method is used, as defined by Missouri state statutes.

The System currently expects assets will be sufficient to cover projected System net position using actuarial assumptions until 2117.

8. Total Payroll and Covered Payroll

The covered payroll for active Members is the payroll on which contributions to the System are based. Member payroll were as follows:

	I	For The Years Ended September 30			
		2017		2016	
	Number	Compensation	Number	Compensation	
Active Members non-DROP "covered payroll"	470	\$ 31,079,373	478	\$ 30,219,253	
Active Members participating in DROP	59	4,258,066	62	4,175,102	
Total Payroll	<u>529</u>	\$ 35,337,439	540	\$ 34,394,355	

REQUIRED SUPPLEMENTAL INFORMATION -GASB STATEMENT NO. 68 PENSION ELEMENTS -SYSTEM STAFF PENSION RELATED

SCHEDULES OF THE SYSTEM'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY ERS

	September 30			
	2017	2016	2015	
Proportionate Share of the Employer's Contributions	0.13	% 0.11	0.10	
Proportionate Share of the Collective Net Pension Liability	\$ 264,825	254,939	161,678	
Covered Employee Payroll	\$ 300,217	828,263	260,505	
Proportionate Share of the Collective Net Pension Liability as a Percentage of its Covered Employee Payroll	88.21	% 30.78	62.06	
ERS' Fiduciary Net Position as a Percentage of the Total Pension Liability	78.52	% 76.22	83.47	

Notes:

- (A) The System elected to report pension elements using the beginning of the year actuarial valuation as allowed by GASB 68. Therefore, the amounts presented were determined as of ERS' fiscal years ended September 30, 2016, 2015, and 2014 actuarial valuations and projected to the end of the years.
- (B) The System implemented GASB 68 for the fiscal year ended September 30, 2015. Years will be added to this schedule in future fiscal years until 10 years of information is provided.

REQUIRED SUPPLEMENTAL INFORMATION - GASB STATEMENT NO. 68 PENSION ELEMENTS - SYSTEM STAFF PENSION RELATED

SCHEDULES OF THE SYSTEM'S CONTRIBUTIONS TO ERS

	For The Years Ended September 30			
		2017	2016	2015
Contractually required contribution Contributions in relation to the contractually required contribution	\$	40,662 (40,662)	39,776 (39,776)	38,471 (38,471)
Contribution Excess	\$	<u> </u>		
Covered Employee Payroll	\$	300,217	828,263	260,505
Contributions as a Percentage of Covered Employee Payroll		13.54 %	4.80	14.77

Notes:

(A) Actuarial Methods and Assumptions used in Calculations of Actuarially Determined Pension Liability

Valuation date:

Actuarially determined contributions are calculated as of October 1, 2016, 2015, and 2014 (beginning of year) valuation date used to calculate the required contribution for the fiscal years ending September 30, 2017, 2016, and 2015.

Actuarial methods:

Actuarial cost method (Funding)
Actuarial cost method (GASB 68)

Projected Unit Credit Cost Method

Entry Age Normal

Amortization method - 2017

Fixed 20 year period as of October 1, 2015 as a level percentage of payroll.

Future gains and losses and changes in actuarial assumptions

will be amortized in layers over 20 year periods

Amortization method - 2016 and 2015 Asset valuation method Rolling 30-year level dollar amortization of unfunded liability

5-year smoothing

Actuarial assumptions:

Salary increases - 2017

Inflation

2.5% 3% plus merit component based on employee's years of service

Salary increases - 2016 and 2015

3.5% plus merit component based on employee's years of service

Investment rate of return

2017 and 2016 - 7.5%, and 2015 - 8%, net of pension plan investment expenses

Mortality rates - ordinary - 2017 and 2016

RP-2000 healthy mortality 3 year set-forward with generational projections using scale A

Mortality rates - ordinary - 2015

1994 Group Annuity Mortality Table

Mortality rates - disability - 2017 and 2016

RP-2000 disabled mortality 3 year set-forward with generational

Mortality rates - disability - 2017 and 2010

projections using scale AA

Mortality rates - disability - 2015

1953 Railroad Retirement Board disabled life mortality table

- (B) Actuarial cost method for funding changed from entry age normal to projected unit credit cost method for the September 30, 2015 actuarial valuation.
- (C) The System elected to report pension elements using the beginning of the year actuarial valuation as allowed by GASB 68. Therefore, the amounts presented were determined as of ERS' fiscal years ended September 30, 2016, 2015, and 2014 actuarial valuations and projected to the end of the years.
- (D) The System implemented GASB 68 for the fiscal year ended September 30, 2015. Years will be added to this schedule in future fiscal years until 10 years of information is provided.

FIREMEN'S RETIREMENT SYSTEM OF ST. LOU OTHER SUPPLEMENTAL INFORMATION	IS ON
OTHER SUPPLEMENTAL INFORMATION SECTION	

	For The Years Ended September 30	
	2017	2016
BENEFITS PAID TO RETIREES AND BENEFICIARIES		
Monthly annuity:		
Accidental disability	\$ 13,067,252	12,583,999
Beneficiaries	4,056,421	3,898,375
Medical, surgical, and hospital	10,268	8,917
Ordinary disability	474,736	493,231
Service retirees	14,132,634	14,316,925
Total Monthly Annuity	31,741,311	31,301,447
Lump sum:		
Death	48,000	50,000
DROP	535,565	803,441
Total Lump Sum	583,565	853,441
Total Benefits Paid To Retirees And Beneficiaries	\$ 32,324,876	32,154,888
ADMINISTRATIVE EXPENSES		
Personnel costs:		
Salaries	\$ 312,592	305,908
Payroll taxes	22,777	22,362
Employee fringe benefits:		
Group benefits	57,675	49,526
Net pension expense	78,178	63,137
Total Personnel Costs	471,222	440,933
Bank charges	4,015	4,131
Building operations	13,958	13,459
Computer and website	63,042	82,411
Costs allocated from City	6,900	8,999
Depreciation	56,819	59,919
Equipment rental and maintenance	14,363	13,359
Insurance	28,385	28,058
Medical reviews, consulting, and investigations	1,350	150
Office supplies and expenses	14,571	15,159
Postage and delivery	8,263	6,183
Professinal fees:		
Accounting and auditing	46,413	49,316
Actuary	52,631	87,600
Investment consultant	174,384	174,098
Legal	47,224	68,148
Property assessment	966	966
Telephone	6,447	6,514
Travel and seminars	56,673	35,932
Total Administrative Expenses	\$ 1,067,626	1,095,335

INVESTMENT MANAGEMENT AND CUSTODIAL FEES

	For The Years Ended September 30		
	2017	2016	
Investment management fees:		_	
Aberdeen Asset Management, Inc.	\$ 136,62	3 190,286	
Acadian Asset Management, LLC	220,61	8 208,887	
Argent Capital Management, LLC	147,91	8 92,391	
CastleArk Management, LLC	-	23,163	
The Commerce Trust Company	10,75	-	
Eagle Capital Management, LLC	237,31	0 217,678	
Fisher Investments, Inc.	422,91	9 387,812	
Intech Investment Management, LLC	101,92	7 94,464	
Integrity Asset Management, LLC	186,07	8 191,338	
Penn Capital Management Company, Inc.	113,84	7 150,052	
Pinnacle Associates, Ltd.	179,24	0 162,967	
Tortoise Capital Advisors, LLC	157,60	2 137,893	
Total Investment Management Fees	1,914,83	5 1,856,931	
Custodial fees:			
The Northern Trust Company	327,89	7 293,486	
Total Investment Management And			
Custodial Fees	\$ 2,242,73	2,150,417	

The System incurs its share of fund operating expenses (including the investment management fees) which are deducted directly from each individual fund's assets for the following investment funds:

AJO, LP (Hedge Fund)

EnTrust Partners Offshore, LLC (Hedge Fund)

MacKay Shields Collective Investment Trust

Magnitude Institutional, LLC (Hedge Fund)

Principal U.S. Property Account (Real Estate separate Account)

Prudential Trust Company

SUMMARY OF INSURANCE COVERAGE

Type	 Coverage
Fiduciary Liability, includes claims expenses	\$ 5,000,000
Property:	
Building	\$ 482,380
Contents	\$ 506,509
General Liability:	
Per occurrence	\$ 1,000,000
Aggregate	\$ 3,000,000
Workers' Compensation and Employers Liability	Statutory
	\$ 1,000,000
Umbrella Liability:	
Per occurrence	\$ 1,000,000
Aggregate	\$ 3,000,000
Non-owned Automobile	\$ 1,000,000
Cyber and Privacy Liability, includes claims expenses	\$ 2,000,000

HISTORICAL TREND INFORMATION

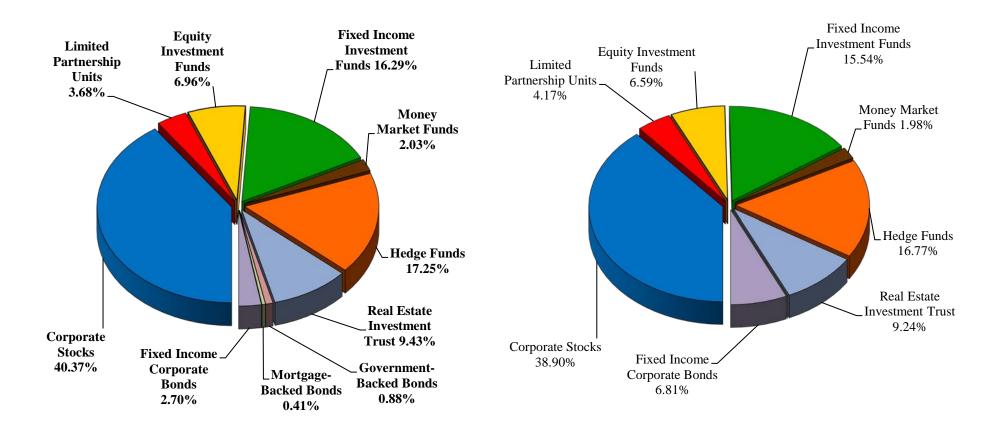
Additions to Net Position

For The Years Ended	Contrib	Net Investment Income		
September 30	Employer	Members	(Loss)	Total
2017	\$ 3,313,603	-	61,052,343	64,365,946
2016	2,715,140	-	38,641,812	41,356,952
2015	-	-	(11,079,856)	(11,079,856)
2014	1,007,760	-	48,876,120	49,883,880
2013 (A)	20,998,953	944,098	65,779,337	87,722,388
2012	21,680,123	2,569,508	71,064,693	95,314,324
2011	23,071,773	2,747,934	3,739,397	29,559,104
2010	17,854,546	2,942,373	33,298,179	54,095,098
2009	12,193,989	2,917,843	(18,864,872)	(3,753,040)
2008	7,484,524	2,845,174	(81,989,764)	(71,660,066)

Deductions from Net Position

For The Years Ended September 30	 Benefits Paid	Refunds Of Members Contributions	Admini- strative Expenses	Total
2017	\$ 32,324,876	816,435	1,067,626	34,208,937
2016	32,154,888	1,278,330	1,095,335	34,528,553
2015	33,864,793	1,294,477	1,593,979	36,753,249
2014	34,416,962	1,205,393	1,424,217	37,046,572
2013	34,535,838	3,260,793	1,730,087	39,526,718
2012	33,371,985	2,303,658	1,579,936	37,255,579
2011	32,030,971	2,191,639	1,162,784	35,385,394
2010	34,661,065	1,639,211	1,174,231	37,474,507
2009	34,230,413	1,206,585	977,713	36,414,711
2008	29,908,146	1,152,581	916,706	31,977,433

⁽A) The City's contribution for the year ended September 30, 2013 was recalculated to be \$9,803,957 for BB 109 and \$10,278,591 was transferred out during the year ended September 30, 2014.

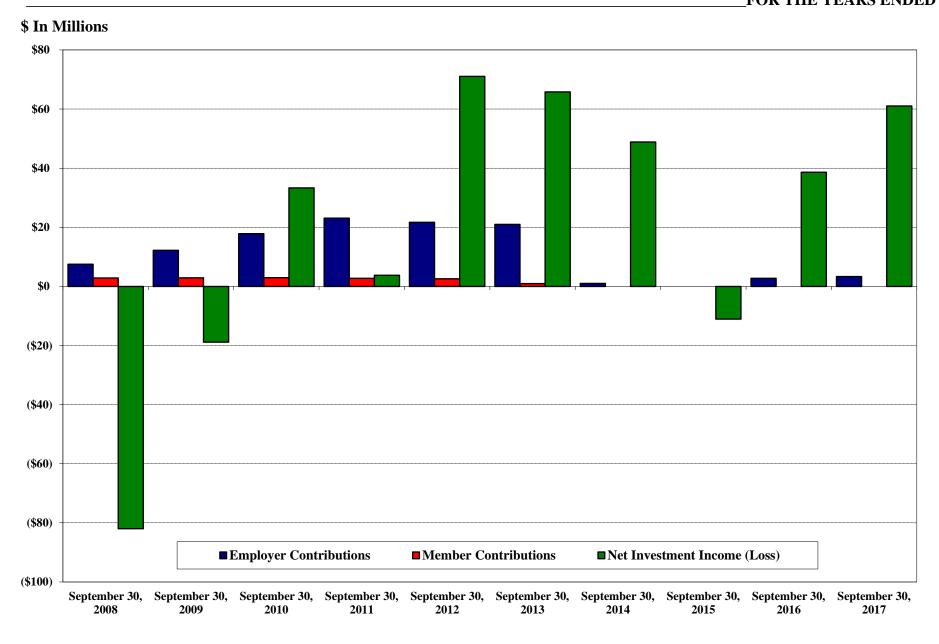


September 30, 2017

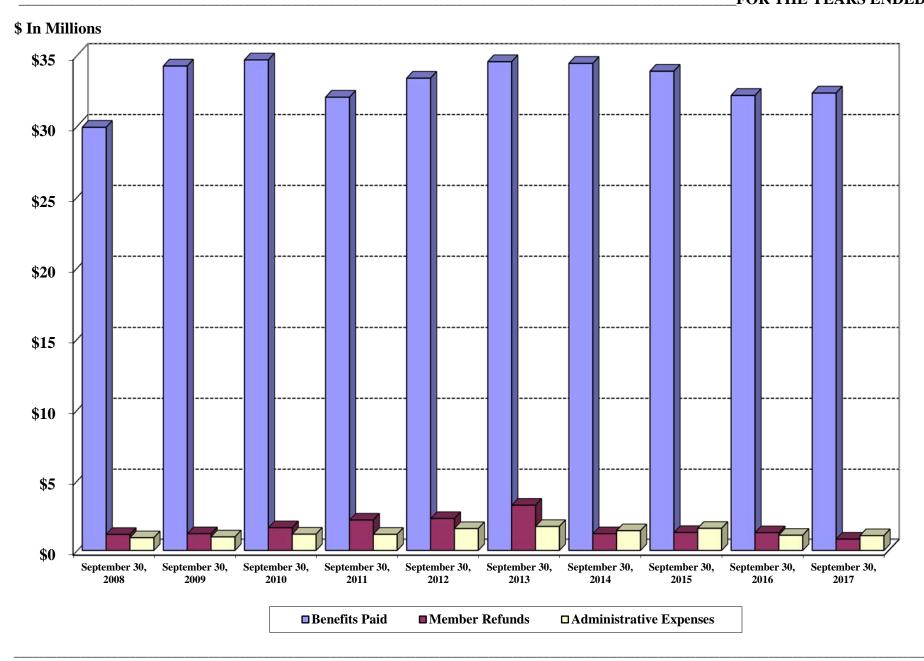
September 30, 2016

ADDITIONS TO NET POSITION

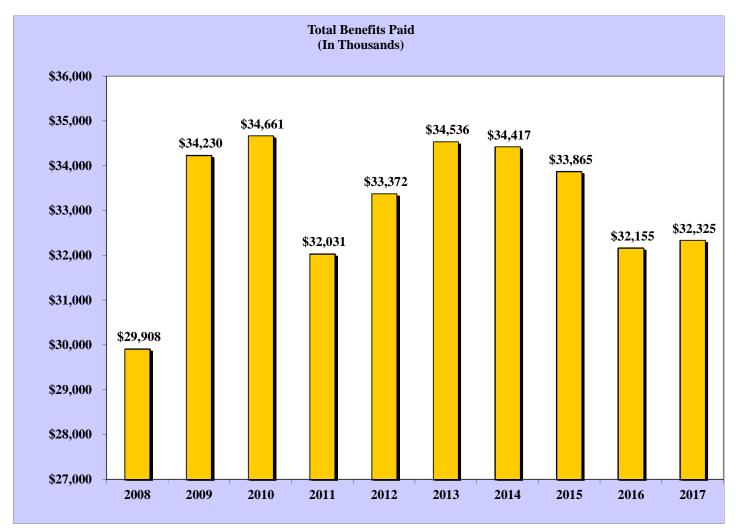




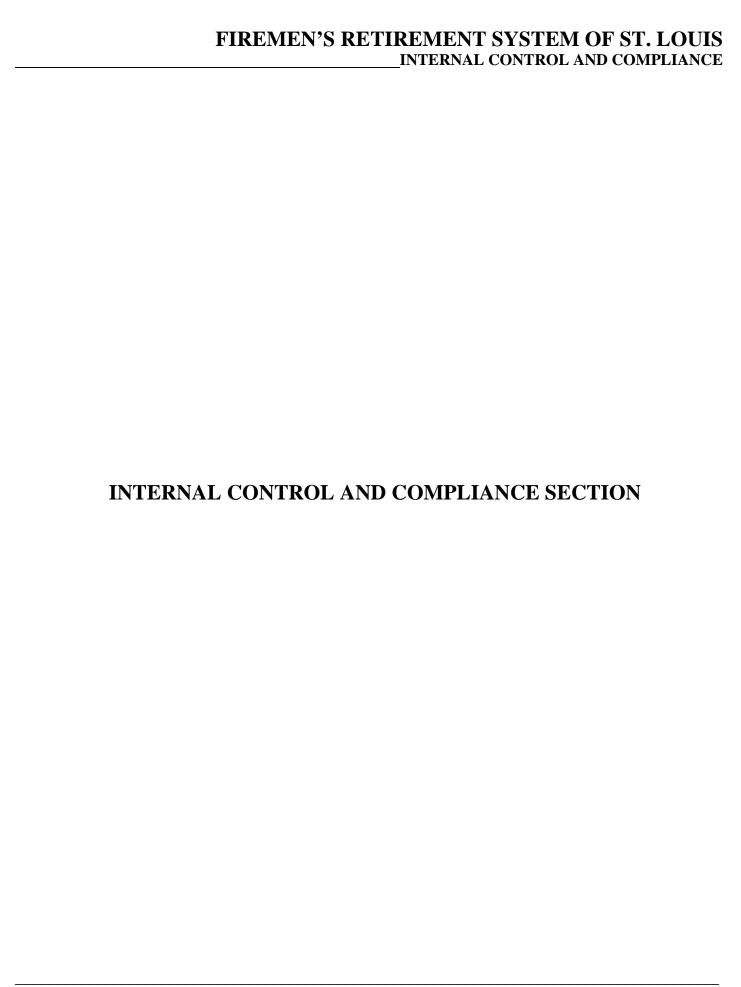
DEDUCTIONS FROM NET POSITION FOR THE YEARS ENDED



For The Fiscal Years	Service	Accidental		Ordinary		Medical, Surgical, And	
Ended	Retirees*	Disability	Beneficiaries	Disability	Death	Hospital	Total
2008	\$ 13,718,137	12,542,278	3,207,773	370,467	56,000	13,491	29,908,146
2009	17,716,234	12,928,795	3,122,816	384,309	60,000	18,259	34,230,413
2010	17,928,029	13,104,610	3,196,489	355,068	58,000	18,869	34,661,065
2011	14,987,429	13,082,602	3,485,580	399,310	62,000	14,050	32,030,971
2012	16,110,010	13,184,657	3,543,043	464,060	56,000	14,215	33,371,985
2013	16,948,351	13,228,482	3,788,048	495,398	64,000	11,559	34,535,838
2014	16,606,662	13,155,325	3,999,493	587,993	58,000	9,489	34,416,962
2015	16,353,491	12,930,902	3,935,283	584,622	52,000	8,495	33,864,793
2016	15,120,366	12,583,999	3,898,375	493,231	50,000	8,917	32,154,888
2017	14,668,199	13,067,252	4,056,421	474,736	48,000	10,268	32,324,876



^{*}Includes DROP benefit payments.





Hochschild, Bloom & Company LLP

Certified Public Accountants Consultants and Advisors

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

February 6, 2018

The Board of Trustees
FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS

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 statements of fiduciary net position and the related statements of changes in fiduciary net position of the **FIREMEN'S RETIREMENT SYSTEM OF ST. LOUIS** (the System), a Pension Trust Fund of the City of St. Louis, Missouri, as of and for the year ended September 30, 2017, and the related notes to the financial statements, which collectively comprise the System's basic financial statements and have issued our report thereon dated February 6, 2018.

INTERNAL CONTROL OVER FINANCIAL REPORTING

In planning and performing our audit 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 opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, we do not express an opinion 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 System's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. 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 from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

PURPOSE OF THIS REPORT

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the 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.

CERTIFIED PUBLIC ACCOUNTANTS

Hochschild, Bloom & Company LLP