



**THE INITIAL ACTUARIAL VALUATION FOR  
MID-COUNTY FIRE PROTECTION DISTRICT  
AS OF APRIL 30, 2016**

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June 13, 2016

Mid-County Fire Protection District  
St. Louis, Missouri

Ladies and Gentlemen:

Submitted in this report are the results of the actuarial valuation prepared to determine the employer contribution rates required to support, for your employees, the benefits provided by the Missouri Local Government Employees Retirement System (LAGERS). This report contains the information needed to comply with Missouri state disclosure requirements regarding the adoption of LAGERS benefits by a political subdivision (Sections 105.660 - 106.685 RSMo).

The contribution requirement for benefits likely to accrue as a result of the future service of your employees is described on pages 4 thru 11 as the current cost plus the disability cost. This contribution rate, expressed as a percent of active employee payroll, will depend on the benefit program adopted.

The contribution requirement to pay for benefits likely to result from service rendered by your employees before you join LAGERS is described on pages 4 thru 11 as the prior service cost. The value established for prior service is called the unfunded actuarial accrued liability (these amounts are further described in Appendix I). The prior service cost is the rate of contribution designed to pay for the unfunded actuarial accrued liability over a period of not more than 30 years.

Section 70.730 of the Revised Statutes of Missouri requires participating employers to contribute the current cost, disability cost, and prior service cost (the total employer cost as shown on pages 4 thru 11). These contributions are mandatory after official action has been taken to join the System.

The total annual dollar costs shown on pages 12 and 13 represent the dollar cost of each benefit program for a one year period based on the payroll reported for this actuarial valuation. In budgeting amounts for LAGERS contributions you should consider any changes in payroll which have been made since data was submitted for the valuation and any changes anticipated to be made before the end of the period for which you are preparing the budget.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of this report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2015.

The computed contributions required for LAGERS participation will permit the System to continue to operate in accordance with the actuarial principles of level cost financing and the state law which governs LAGERS. Summary provisions of the law as well as benefit illustrations can be found in Appendices III and IV.

Projections needed to comply with Missouri state disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision are available upon request from LAGERS.

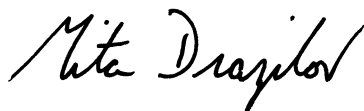
Please note that this entire report must be available as public information for at least 45 calendar days prior to the date final official action is taken by your governing body to join the System. You may wish to make notice of this report in the official minutes of the next meeting of your governing body. This action would not be binding on your subdivision, yet would establish the beginning date of the 45 day waiting period.

In accordance with LAGERS Board policy, the employer contribution rates established by this valuation report are valid for purposes of joining the System for a two year period from the date of this valuation which was April 30, 2016. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

Mita Drazilov is a member of the American Academy of Actuaries and meets the Qualification Standards of the Academy of Actuaries to render the actuarial opinion herein.

Respectfully submitted,

A handwritten signature in black ink that reads "Mita Drazilov". The signature is written in a cursive, flowing style.

Mita D. Drazilov, ASA, MAAA

## **Alternate Plan Provisions Affecting Employer Contribution Rates**

The law governing LAGERS provides for either a contributory plan or a non-contributory plan, with benefits based on either a 5 year or 3 year Final Average Salary (FAS).

*Contributory Plan.* Under the contributory plan, each covered member contributes 4% of compensation to LAGERS. If an employee terminates before being eligible for an immediate benefit, the member's contributions, plus any interest credited to the member's individual account, are refunded upon request.

*Non-Contributory Plan.* Under the non-contributory plan, there is no individual employee contribution to the plan, no individual account maintained for each employee, and no refund paid to employees who terminate before being eligible for a benefit.

The law further provides for nine different benefit programs (benefit formula factors) and allows an employer to elect "rule of 80" eligibility for benefits. Under the rule of 80, employees are eligible for unreduced benefits at the earlier of (i) attainment of their minimum service retirement age or (ii) such time as their years of age plus years of LAGERS credited service equals 80.

In total this allows for 72 different combinations of benefit plans, giving employers considerable latitude in designing the retirement program which they feel best suits their particular situation.

The applicable combinations of these items may be changed from time to time, however, there are limitations on the frequency of changes. A more detailed description of plan provisions may be found in Appendix III of this report.

Mid-County Fire Protection District

Employer Contribution Rates (Contributory Plan - 5 Year FAS)  
 (4% member contributions are additional)

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.20%	2.10%	0.20%	3.50%
	Fire	0.90	3.90	0.20	5.00
L-3	General	1.70	3.30	0.20	5.20
	Fire	1.20	5.60	0.20	7.00
LT-4(65)	General	1.50	2.70	0.20	4.40
	Fire	1.20	6.20	0.20	7.60
LT-5(65)	General	1.90	3.70	0.20	5.80
	Fire	1.40	7.40	0.20	9.00
L-7	General	2.10	4.60	0.20	6.90
	Fire	1.50	7.40	0.20	9.10
LT-8(65)	General	2.20	4.90	0.20	7.30
	Fire	1.60	8.60	0.20	10.40
L-12	General	2.50	5.90	0.30	8.70
	Fire	1.70	9.20	0.30	11.20
LT-14(65)	General	2.60	6.00	0.30	8.90
	Fire	1.80	9.80	0.30	11.90
L-6	General	2.90	7.20	0.30	10.40
	Fire	2.00	11.00	0.30	13.30

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Contributory Plan - 3 Year FAS)  
 (4% member contributions are additional)

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.30%	2.30%	0.20%	3.80%
	Fire	1.00	4.10	0.20	5.30
L-3	General	1.80	3.60	0.20	5.60
	Fire	1.20	6.10	0.20	7.50
LT-4(65)	General	1.50	2.90	0.20	4.60
	Fire	1.20	6.60	0.20	8.00
LT-5(65)	General	1.90	4.10	0.20	6.20
	Fire	1.40	7.90	0.20	9.50
L-7	General	2.20	4.90	0.20	7.30
	Fire	1.50	7.80	0.20	9.50
LT-8(65)	General	2.30	5.20	0.20	7.70
	Fire	1.60	9.10	0.20	10.90
L-12	General	2.60	6.30	0.30	9.20
	Fire	1.80	9.70	0.30	11.80
LT-14(65)	General	2.70	6.40	0.30	9.40
	Fire	1.90	10.20	0.30	12.40
L-6	General	3.10	7.50	0.30	10.90
	Fire	2.10	11.50	0.30	13.90

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)  
(No member contributions)

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.50%	5.70%	0.20%	7.40%
	Fire	1.00	7.70	0.20	8.90
L-3	General	1.90	7.00	0.20	9.10
	Fire	1.20	9.50	0.20	10.90
LT-4(65)	General	1.80	6.30	0.20	8.30
	Fire	1.20	10.00	0.20	11.40
LT-5(65)	General	2.10	7.40	0.20	9.70
	Fire	1.40	11.30	0.20	12.90
L-7	General	2.30	8.30	0.20	10.80
	Fire	1.50	11.30	0.20	13.00
LT-8(65)	General	2.40	8.60	0.20	11.20
	Fire	1.60	12.50	0.20	14.30
L-12	General	2.70	9.60	0.30	12.60
	Fire	1.70	13.10	0.30	15.10
LT-14(65)	General	2.80	9.70	0.30	12.80
	Fire	1.80	13.70	0.30	15.80
L-6	General	3.10	10.90	0.30	14.30
	Fire	2.00	14.90	0.30	17.20

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)  
(No member contributions)

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.60%	5.90%	0.20%	7.70%
	Fire	1.00	8.00	0.20	9.20
L-3	General	2.00	7.30	0.20	9.50
	Fire	1.30	9.90	0.20	11.40
LT-4(65)	General	1.80	6.50	0.20	8.50
	Fire	1.30	10.40	0.20	11.90
LT-5(65)	General	2.20	7.70	0.20	10.10
	Fire	1.50	11.70	0.20	13.40
L-7	General	2.40	8.60	0.20	11.20
	Fire	1.50	11.70	0.20	13.40
LT-8(65)	General	2.50	8.90	0.20	11.60
	Fire	1.70	12.90	0.20	14.80
L-12	General	2.80	10.00	0.30	13.10
	Fire	1.80	13.60	0.30	15.70
LT-14(65)	General	2.90	10.10	0.30	13.30
	Fire	1.80	14.20	0.30	16.30
L-6	General	3.20	11.30	0.30	14.80
	Fire	2.00	15.50	0.30	17.80

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Contributory Plan - 5 Year FAS)  
 (4% member contributions are additional)

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.40%	2.90%	0.20%	4.50%
	Fire	0.90	4.10	0.20	5.20
L-3	General	1.90	4.20	0.20	6.30
	Fire	1.20	5.90	0.20	7.30
LT-4(65)	General	1.90	4.20	0.20	6.30
	Fire	1.20	6.80	0.20	8.20
LT-5(65)	General	2.30	5.20	0.20	7.70
	Fire	1.40	7.90	0.20	9.50
L-7	General	2.30	5.80	0.20	8.30
	Fire	1.40	7.70	0.20	9.30
LT-8(65)	General	2.60	6.40	0.20	9.20
	Fire	1.60	9.10	0.20	10.90
L-12	General	2.70	7.30	0.30	10.30
	Fire	1.70	9.60	0.30	11.60
LT-14(65)	General	2.90	7.50	0.30	10.70
	Fire	1.70	10.30	0.30	12.30
L-6	General	3.20	8.60	0.30	12.10
	Fire	1.90	11.50	0.30	13.70

# The cost for the Rule of 80 provision is very dependent upon the age at hire of the employees. If hiring practices in the future differ from those of the past, the cost for this provision could increase or decrease. The cost shown is based on the age and service characteristics of the present group.

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Contributory Plan - 3 Year FAS)  
 (4% member contributions are additional)

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.50%	3.10%	0.20%	4.80%
	Fire	0.90	4.40	0.20	5.50
L-3	General	1.90	4.60	0.20	6.70
	Fire	1.20	6.20	0.20	7.60
LT-4(65)	General	2.00	4.50	0.20	6.70
	Fire	1.30	7.10	0.20	8.60
LT-5(65)	General	2.40	5.60	0.20	8.20
	Fire	1.50	8.30	0.20	10.00
L-7	General	2.40	6.00	0.20	8.60
	Fire	1.50	8.20	0.20	9.90
LT-8(65)	General	2.70	6.70	0.20	9.60
	Fire	1.60	9.50	0.20	11.30
L-12	General	2.80	7.70	0.30	10.80
	Fire	1.70	10.10	0.30	12.10
LT-14(65)	General	3.00	7.90	0.30	11.20
	Fire	1.80	10.80	0.30	12.90
L-6	General	3.30	9.10	0.30	12.70
	Fire	2.00	12.00	0.30	14.30

# The cost for the Rule of 80 provision is very dependent upon the age at hire of the employees. If hiring practices in the future differ from those of the past, the cost for this provision could increase or decrease. The cost shown is based on the age and service characteristics of the present group.

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)  
(No member contributions)

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.70%	6.40%	0.20%	8.30%
	Fire	1.00	7.90	0.20	9.10
L-3	General	2.10	7.90	0.20	10.20
	Fire	1.20	9.80	0.20	11.20
LT-4(65)	General	2.20	7.80	0.20	10.20
	Fire	1.30	10.60	0.20	12.10
LT-5(65)	General	2.50	8.90	0.20	11.60
	Fire	1.40	11.80	0.20	13.40
L-7	General	2.60	9.40	0.20	12.20
	Fire	1.40	11.60	0.20	13.20
LT-8(65)	General	2.80	10.10	0.20	13.10
	Fire	1.60	13.00	0.20	14.80
L-12	General	3.00	10.90	0.30	14.20
	Fire	1.70	13.50	0.30	15.50
LT-14(65)	General	3.10	11.20	0.30	14.60
	Fire	1.70	14.20	0.30	16.20
L-6	General	3.40	12.30	0.30	16.00
	Fire	1.90	15.40	0.30	17.60

# The cost for the Rule of 80 provision is very dependent upon the age at hire of the employees. If hiring practices in the future differ from those of the past, the cost for this provision could increase or decrease. The cost shown is based on the age and service characteristics of the present group.

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)  
(No member contributions)

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.80%	6.60%	0.20%	8.60%
	Fire	1.00	8.20	0.20	9.40
L-3	General	2.20	8.20	0.20	10.60
	Fire	1.20	10.10	0.20	11.50
LT-4(65)	General	2.30	8.10	0.20	10.60
	Fire	1.30	10.90	0.20	12.40
LT-5(65)	General	2.60	9.30	0.20	12.10
	Fire	1.50	12.20	0.20	13.90
L-7	General	2.60	9.70	0.20	12.50
	Fire	1.50	12.10	0.20	13.80
LT-8(65)	General	2.90	10.40	0.20	13.50
	Fire	1.60	13.40	0.20	15.20
L-12	General	3.10	11.30	0.30	14.70
	Fire	1.70	14.00	0.30	16.00
LT-14(65)	General	3.20	11.60	0.30	15.10
	Fire	1.80	14.70	0.30	16.80
L-6	General	3.50	12.80	0.30	16.60
	Fire	2.00	15.90	0.30	18.20

# The cost for the Rule of 80 provision is very dependent upon the age at hire of the employees. If hiring practices in the future differ from those of the past, the cost for this provision could increase or decrease. The cost shown is based on the age and service characteristics of the present group.

\* It was assumed that prior service would be given for vesting purposes only.

Mid-County Fire Protection District

Employer Contribution Dollars

Regular Retirement Eligibility

Employer contributions are payable monthly, and each month's actual dollar contribution will be the contribution percent multiplied by the payroll during the month. If payroll during your first year of LAGERS participation equals the annual payroll reported for this valuation, the approximate employer dollar contribution for the year would be as follows:

**Contributory Plan**

5 Year FAS		
Benefit Program	General	Fire
L-1	\$ 1,801	\$ 86,027
L-3	2,676	120,437
LT-4(65)	2,264	130,760
LT-5(65)	2,985	154,848
L-7	3,551	156,568
LT-8(65)	3,757	178,935
L-12	4,477	192,700
LT-14(65)	4,580	204,743
L-6	5,352	228,831

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 1,955	\$ 91,188
L-3	2,882	129,040
LT-4(65)	2,367	137,643
LT-5(65)	3,190	163,451
L-7	3,757	163,451
LT-8(65)	3,962	187,538
L-12	4,734	203,023
LT-14(65)	4,837	213,346
L-6	5,609	239,154

**Non-Contributory Plan**

5 Year FAS		
Benefit Program	General	Fire
L-1	\$ 3,808	\$ 153,127
L-3	4,683	187,538
LT-4(65)	4,271	196,141
LT-5(65)	4,992	221,949
L-7	5,558	223,669
LT-8(65)	5,763	246,036
L-12	6,484	259,800
LT-14(65)	6,587	271,844
L-6	7,359	295,931

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 3,962	\$ 158,289
L-3	4,889	196,141
LT-4(65)	4,374	204,743
LT-5(65)	5,197	230,551
L-7	5,763	230,551
LT-8(65)	5,969	254,639
L-12	6,741	270,123
LT-14(65)	6,844	280,447
L-6	7,616	306,255

PLEASE NOTE THAT THE ABOVE INFORMATION IS BASED ON THE PERSONNEL AND PAYROLL DATA SUBMITTED FOR THE ACTUARIAL VALUATION. IN BUDGETING AMOUNTS FOR LAGERS CONTRIBUTIONS YOU SHOULD CONSIDER ANY CHANGES WHICH HAVE BEEN MADE SINCE DATA WAS SUBMITTED FOR THE VALUATION AND ANY CHANGES ANTICIPATED TO BE MADE BEFORE THE END OF THE PERIOD FOR WHICH YOU ARE PREPARING THE BUDGET.

Mid-County Fire Protection District

Employer Contribution Dollars

Rule of 80 Retirement Eligibility

Employer contributions are payable monthly, and each month's actual dollar contribution will be the contribution percent multiplied by the payroll during the month. If payroll during your first year of LAGERS participation equals the annual payroll reported for this valuation, the approximate employer dollar contribution for the year would be as follows:

**Contributory Plan**

5 Year FAS		
Benefit Program	General	Fire
L-1	\$ 2,316	\$ 89,468
L-3	3,242	125,599
LT-4(65)	3,242	141,084
LT-5(65)	3,962	163,451
L-7	4,271	160,009
LT-8(65)	4,734	187,538
L-12	5,300	199,582
LT-14(65)	5,506	211,625
L-6	6,227	235,713

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 2,470	\$ 94,629
L-3	3,448	130,760
LT-4(65)	3,448	147,966
LT-5(65)	4,220	172,053
L-7	4,425	170,333
LT-8(65)	4,940	194,420
L-12	5,558	208,184
LT-14(65)	5,763	221,949
L-6	6,535	246,036

**Non-Contributory Plan**

5 Year FAS		
Benefit Program	General	Fire
L-1	\$ 4,271	\$ 156,568
L-3	5,249	192,700
LT-4(65)	5,249	208,184
LT-5(65)	5,969	230,551
L-7	6,278	227,110
LT-8(65)	6,741	254,639
L-12	7,307	266,682
LT-14(65)	7,513	278,726
L-6	8,233	302,814

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 4,425	\$ 161,730
L-3	5,455	197,861
LT-4(65)	5,455	213,346
LT-5(65)	6,227	239,154
L-7	6,432	237,433
LT-8(65)	6,947	261,521
L-12	7,565	275,285
LT-14(65)	7,770	289,049
L-6	8,542	313,137

PLEASE NOTE THAT THE ABOVE INFORMATION IS BASED ON THE PERSONNEL AND PAYROLL DATA SUBMITTED FOR THE ACTUARIAL VALUATION. IN BUDGETING AMOUNTS FOR LAGERS CONTRIBUTIONS YOU SHOULD CONSIDER ANY CHANGES WHICH HAVE BEEN MADE SINCE DATA WAS SUBMITTED FOR THE VALUATION AND ANY CHANGES ANTICIPATED TO BE MADE BEFORE THE END OF THE PERIOD FOR WHICH YOU ARE PREPARING THE BUDGET.

Mid-County Fire Protection District

Employees and Payroll Included in the Valuation

	General	Fire
Number of Employees	1	18
Annual Payroll	\$ 51,459	\$ 1,720,532

Information regarding the age and service characteristics of the employees is contained in Appendix V.

**APPENDIX I**

**UNFUNDED ACTUARIAL  
ACCRUED LIABILITY**

UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)

If the decision is made to join LAGERS the governing body also must decide how much credit to grant employees for their service before the membership date. The options are to cover 25%, 50%, 75% or 100% of prior service. The granting of prior service credit results in the establishment of an actuarial accrued liability. Because your political subdivision will not have established an asset balance with the System as of the membership date, the value established for prior service is an unfunded actuarial accrued liability.

The policy of the LAGERS Board of Trustees provides that unfunded liabilities are to be paid for by level percent of payroll contributions over a period of 30 years. The contribution rates shown on pages 4 through 11 as the "Prior Service Cost" are designed to pay for the applicable unfunded actuarial accrued liability. This procedure will allow your political subdivision to retire the unfunded actuarial accrued liability in an orderly fashion over a period of years without the need for an immediate large payment upon joining the System.

Should the governing body elect to grant credit for 100% of the employees' prior service, the unfunded actuarial accrued liability as of the date of this valuation would be as follows:

Mid-County Fire Protection District

Regular Retirement Eligibility

Benefit Group	Employee Group	Contributory		Non-Contributory	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 11,505	\$ 12,114	\$ 14,410	\$ 14,919
	Fire	286,666	298,828	304,629	314,990
L-3	General	15,746	16,476	18,042	18,649
	Fire	370,529	385,323	380,806	393,789
LT-4(65)	General	13,708	14,402	16,619	17,201
	Fire	370,622	385,961	387,903	401,412
LT-5(65)	General	17,404	18,187	19,690	20,362
	Fire	433,488	450,628	443,271	458,586
L-7	General	19,751	20,528	21,651	22,386
	Fire	453,255	470,743	456,919	472,590
LT-8(65)	General	20,853	21,677	22,749	23,522
	Fire	495,240	514,339	498,567	515,779
L-12	General	23,587	24,519	25,260	26,101
	Fire	535,539	555,778	533,150	551,309
LT-14(65)	General	24,144	25,095	25,810	26,668
	Fire	556,476	577,523	553,928	572,888
L-6	General	27,415	28,477	28,857	29,818
	Fire	617,406	640,400	609,241	630,044

Mid-County Fire Protection District

UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)

Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Contributory		Non-Contributory	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 12,914	\$ 13,559	\$ 15,894	\$ 16,474
	Fire	279,015	290,889	296,418	306,704
L-3	General	17,293	18,081	19,875	20,561
	Fire	360,064	374,528	370,558	383,431
LT-4(65)	General	17,933	18,777	20,901	21,668
	Fire	381,227	396,983	397,961	412,108
LT-5(65)	General	21,057	21,986	23,624	24,462
	Fire	436,687	454,064	446,700	462,437
L-7	General	21,478	22,321	23,843	24,680
	Fire	440,086	457,236	444,650	460,166
LT-8(65)	General	23,987	24,936	26,346	27,277
	Fire	491,166	510,262	495,387	512,820
L-12	General	25,470	26,467	27,812	28,798
	Fire	519,659	539,458	518,776	536,777
LT-14(65)	General	26,724	27,768	29,070	30,091
	Fire	545,199	565,967	544,131	563,120
L-6	General	29,472	30,624	31,780	32,907
	Fire	598,901	621,419	592,806	613,435

## **APPENDIX II**

### **SUMMARY OF FINANCIAL ASSUMPTIONS**

## **Summary of Assumptions Used in Actuarial Valuations**

### **Assumptions Adopted by Board of Trustees After Consulting With Actuary**

1. The investment return rate used in making the valuations was 7.25% per year, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. Considering other financial assumptions, the 7.25% investment return rate translates to an assumed real rate of return of 3.75%. Adopted 2011.
2. The mortality table used to evaluate mortality among active members was 75% of the RP-2000 Combined Healthy Table set back 0 years for men and 0 years for women. It was assumed that 50% of pre-retirement deaths would be duty related. Adopted 2011.
3. The mortality table used in evaluating allowances to be paid was 105% of the 1994 Group Annuity Mortality Table, set back 0 years for men and 0 years for women. The disability post-retirement rates were equal to the standard rates set forward 10 years. Adopted 2011.
4. The probabilities of withdrawal from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2011.
5. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2011.
6. Total active member payroll is assumed to increase 3.5% a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2011.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.
9. The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (M.A.A.A.).

**Schedule 1.**

**Withdrawal From Active Employment Before Age & Service Retirement  
and Individual Pay Increase Assumptions**

Sample Ages	Years of Service	Percent of Active Members Separating Within Next Year				Percent Increase in Individual's Pay During Next Year Excluding Fire
		General Members		Police	Fire	
		Men	Women			
All	0	18.00%	21.00%	18.00%	8.00%	
	1	16.00	20.00	17.00	7.00	
	2	14.00	16.00	16.00	6.00	
	3	11.00	13.00	13.00	6.00	
	4	9.00	12.00	12.00	5.00	
25	5 & Over	7.50	10.70	10.10	5.00	6.8%
30		6.50	9.40	8.00	4.00	6.0
35		5.10	7.20	6.10	2.80	5.5
40		3.80	5.50	4.70	2.20	5.0
45		3.00	4.20	3.60	1.80	4.5
50		2.40	3.40	1.80	1.00	4.1
55		1.80	2.50	1.00	0.50	3.9
60		1.00	1.20	0.00	0.00	3.8
65	0.00	0.00	0.00	0.00	3.5	

Percent Increase in Individual's Pay During Next Year	
Sample Ages	Fire
25	8.6%
30	6.7
35	5.4
40	4.7
45	4.4
50	4.1
55	3.9
60	3.8
65	3.5

**Schedule 2.**

**Percent of Eligible Active Members Retiring Within Next Year  
Without Rule of 80 Eligibility**

**Early Retirement**

<b>Retirement Ages</b>	<b>General Members</b>		<b>Retirement Ages</b>	<b>Police</b>	<b>Fire</b>
	<b>Men</b>	<b>Women</b>			
55	2.50%	3.00%	50	3.00%	2.50%
56	2.50%	3.00%	51	3.00%	2.50%
57	2.50%	3.00%	52	3.00%	2.50%
58	2.50%	3.00%	53	3.00%	2.50%
59	2.50%	3.00%	54	3.00%	2.50%

**Normal Retirement**

<b>Retirement Ages</b>	<b>General Members</b>		<b>Retirement Ages</b>	<b>Police</b>	<b>Fire</b>
	<b>Men</b>	<b>Women</b>			
60	10%	10%	55	10%	15%
61	10	10	56	10	15
62	25	15	57	10	10
63	25	15	58	10	15
64	20	15	59	10	15
65	25	20	60	10	20
66	25	25	61	10	10
67	20	20	62	25	30
68	20	20	63	20	30
69	20	15	64	20	25
70	100	100	65	100	100

**Schedule 2. (Continued)**

**Percent of Eligible Active Members Retiring Within Next Year  
With Rule of 80 Eligibility**

<b>Retirement Ages</b>	<b>General Members</b>		<b>Police</b>	<b>Fire</b>
	<b>Men</b>	<b>Women</b>		
50	15%	15%	25%	25%
51	15	15	25	15
52	15	15	15	15
53	15	15	15	15
54	15	15	15	15
55	15	15	15	15
56	15	15	15	15
57	15	15	15	15
58	15	15	15	15
59	15	15	15	20
60	15	15	15	30
61	15	15	25	30
62	30	15	30	45
63	30	15	30	45
64	30	20	30	45
65	30	25	100	100
66	30	25		
67	30	25		
68	30	25		
69	30	25		
70	100	100		

**APPENDIX III**

**SUMMARY OF  
LAGERS PROVISIONS**

**Missouri Local Government Employees Retirement System**  
**Brief Summary of LAGERS**  
**Benefits and Conditions Evaluated and/or Considered**  
**as of February 28, 2015**  
**(Section references are to RSMo)**

**Voluntary Retirement.** Sections 70.645 & 70.600. A member may retire with an age & service allowance after both (i) completing 5 years of credited service, and (ii) attaining the minimum service retirement age.

The minimum service retirement age is age 60 for a general employee and age 55 for a police or fire employee. Optionally, employers may also elect to provide for unreduced benefits for employees whose combination of years of age and years of service equals 80 or more.

**Final Average Salary.** Section 70.600. The average of a member's monthly compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) of credited service producing the highest monthly average, which period is contained within the 120 consecutive months of credited service immediately preceding retirement.

**Age & Service Allowance.** Section 70.655. The allowance, payable monthly for life, equals a specified percent of a member's final average salary multiplied by the number of years of credited service. Each employer elects the percent applicable to its members, from the following programs:

L-1 Benefit Program:	1.00% for life
L-3 Benefit Program:	1.25% for life
L-7 Benefit Program:	1.50% for life
L-12 Benefit Program:	1.75% for life
L-6 Benefit Program:	2.00% for life
LT-4(65) Benefit Program:	1.00% for life, plus 1.00% to age 65
LT-5(65) Benefit Program:	1.25% for life, plus 0.75% to age 65
LT-8(65) Benefit Program:	1.50% for life, plus 0.50% to age 65
LT-14(65) Benefit Program:	1.75% for life, plus 0.25% to age 65

The only LT benefit programs available for adoption after August 1, 1994 are the LT(65) programs.

Benefit programs L-9 and LT-10(65) are unavailable for adoption after August 1, 2005.

Benefit program L-11, available only to groups not covered by social security, provides for 2.5% for life.

Subsequent to joining the System the governing body can elect to change benefit programs for the employees, but not more often than once every 2 years.

**Early Allowance.** Section 70.670. A member may retire with an early allowance after both (i) completing 5 years of credited service, and (ii) attaining age 55 if a general employee or age 50 if a police or fire employee.

The early allowance amount, payable monthly for life, is computed in the same manner as an age & service allowance, based upon the service and earnings record to time of early retirement, but reduced to reflect the fact that the age when payments begin is younger than the minimum service retirement age. The amount of the reduction is 1/2 of 1% (.005) for each month the age at retirement is younger than the minimum service retirement age.

**Deferred Allowance.** Section 70.675. If a member leaves LAGERS-covered employment (i) before attaining the early retirement age, and (ii) after completing 5 years of credited service, the member becomes eligible for a deferred allowance; provided the former member lives to the minimum service retirement age and does not withdraw the accumulated contributions.

The deferred allowance amount, payable monthly for life from the minimum service retirement age, is computed in the same manner as an age & service allowance, based upon the service and earnings record to time of leaving LAGERS coverage.

Deferred allowances are also payable any time after reaching the early retirement age, with the reduction for early retirement noted on the previous page.

**Non-Duty Disability Allowance.** Section 70.680. A member with 5 or more years of credited service who becomes totally and permanently disabled from other than duty-connected causes becomes eligible to receive a non-duty disability allowance computed in the same manner as an age & service allowance, based upon the service & earnings record to time of disability.

**Duty Disability Allowance.** Section 70.680. A member regardless of credited service who becomes totally and permanently disabled from duty-connected causes becomes eligible to receive a duty disability allowance computed in the same manner as an age & service allowance, based upon the earnings record to time of disability but based upon the years of credited service the member would have completed had the member continued in LAGERS-covered employment to age 60.

**Death-in-Service.** Section 70.661. Upon the death of a member who had completed 5 years of credited service, the eligible surviving dependents receive the following benefits:

(a) The surviving spouse receives an allowance equal to the Option A allowance (joint and 75% survivor benefit) computed based upon the deceased members' service & earnings record to time of death.

(b) When no spouse benefit is payable, the dependent children under age 18 (age 23 if they are full time students) each receive an equal share of 60% of an age & service allowance computed based upon the deceased member's service & earnings record to time of death.

(c) If the death is determined to be duty related, the 5 year service requirement is waived and the benefit is based on years of credited service the member would have completed had the member continued in LAGERS-covered employment to age 60.

**Benefit Changes After Retirement.** Section 70.655. For retirements effective after September 28, 1975, there is an annual redetermination of monthly benefit amount, beginning the October first following 12 months of retirement. As of each October first the amount of each eligible benefit is redetermined as follows:

(a) Subject to the maximum in (b), the redetermined amount is the amount other-wise payable multiplied by: 100% plus up to 4%, as determined by the LAGERS Board of Trustees, for each full year of retirement.

(b) The redetermined amount may not exceed the amount otherwise payable multiplied by the ratio of the Consumer Price Index for the immediately preceding month of June to the Consumer Price Index for the month of June immediately preceding retirement.

**Member Contributions.** Sections 70.690 & 70.705. Each member contributes 4% of compensation beginning after completion of sufficient employment for 6 months of credited service.

If a member leaves LAGERS-covered employment before an allowance is payable, the accumulated contributions are refunded to the member. If the member dies, his accumulated contributions are refunded to a designated beneficiary.

The law governing LAGERS also has a provision for the adoption of a non-contributory plan in which the full cost of LAGERS participation is paid by the employer. Adoption of the non-contributory provisions may be done at the time of membership or a later date; however, a change from contributory to non-contributory or vice-versa may not be made more frequently than every 2 years. Under the non-contributory provisions there is no individual account maintained for each employee and no refund of contributions if an employee terminates before being eligible for a benefit.

**Employer Contributions.** Section 70.730. Each employer contributes the remainder amounts necessary to finance the employees' participation in LAGERS. Contributions to LAGERS are determined based upon level-percent-of-payroll principles, so that contribution rates do not have to increase over decades of time.

**APPENDIX IV**

**BENEFIT  
ILLUSTRATIONS**

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(L-1 Benefit Program is Years of Credited Service  
times: 1.00% of FAS <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 875	\$1,400	93%
2,000	700	1,020	1,720	86%
2,500	875	1,165	2,040	82%
3,000	1,050	1,312	2,362	79%
3,500	1,225	1,457	2,682	77%
4,000	1,400	1,602	3,002	75%
25 Years of Service:				
\$1,500	\$ 375	\$ 875	\$1,250	83%
2,000	500	1,020	1,520	76%
2,500	625	1,165	1,790	72%
3,000	750	1,312	2,062	69%
3,500	875	1,457	2,332	67%
4,000	1,000	1,602	2,602	65%
15 Years of Service:				
\$1,500	\$225	\$ 875	\$1,100	73%
2,000	300	1,020	1,320	66%
2,500	375	1,165	1,540	62%
3,000	450	1,312	1,762	59%
3,500	525	1,457	1,982	57%
4,000	600	1,602	2,202	55%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(L-3 Benefit Program is Years of Credited Service  
times: 1.25% of FAS <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 656	\$ 875	\$1,531	102%
2,000	875	1,020	1,895	95%
2,500	1,094	1,165	2,259	90%
3,000	1,313	1,312	2,625	88%
3,500	1,531	1,457	2,988	85%
4,000	1,750	1,602	3,352	84%
25 Years of Service:				
\$1,500	\$ 469	\$ 875	\$1,344	90%
2,000	625	1,020	1,645	82%
2,500	781	1,165	1,946	78%
3,000	938	1,312	2,250	75%
3,500	1,094	1,457	2,551	73%
4,000	1,250	1,602	2,852	71%
15 Years of Service:				
\$1,500	\$281	\$ 875	\$1,156	77%
2,000	375	1,020	1,395	70%
2,500	469	1,165	1,634	65%
3,000	563	1,312	1,875	63%
3,500	656	1,457	2,113	60%
4,000	750	1,602	2,352	59%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(L-7 Benefit Program is Years of Credited Service  
times: 1.50% of FAS <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 788	\$ 875	\$1,663	111%
2,000	1,050	1,020	2,070	104%
2,500	1,313	1,165	2,478	99%
3,000	1,575	1,312	2,887	96%
3,500	1,838	1,457	3,295	94%
4,000	2,100	1,602	3,702	93%
25 Years of Service:				
\$1,500	\$ 563	\$ 875	\$1,438	96%
2,000	750	1,020	1,770	89%
2,500	938	1,165	2,103	84%
3,000	1,125	1,312	2,437	81%
3,500	1,313	1,457	2,770	79%
4,000	1,500	1,602	3,102	78%
15 Years of Service:				
\$1,500	\$338	\$ 875	\$1,213	81%
2,000	450	1,020	1,470	74%
2,500	563	1,165	1,728	69%
3,000	675	1,312	1,987	66%
3,500	788	1,457	2,245	64%
4,000	900	1,602	2,502	63%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(L-12 Benefit Program is Years of Credited Service  
times: 1.75% of FAS <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 875	\$1,794	120%
2,000	1,225	1,020	2,245	112%
2,500	1,531	1,165	2,696	108%
3,000	1,838	1,312	3,150	105%
3,500	2,144	1,457	3,601	103%
4,000	2,450	1,602	4,052	101%
25 Years of Service:				
\$1,500	\$ 656	\$ 875	\$1,531	102%
2,000	875	1,020	1,895	95%
2,500	1,094	1,165	2,259	90%
3,000	1,313	1,312	2,625	88%
3,500	1,531	1,457	2,988	85%
4,000	1,750	1,602	3,352	84%
15 Years of Service:				
\$1,500	\$ 394	\$ 875	\$1,269	85%
2,000	525	1,020	1,545	77%
2,500	656	1,165	1,821	73%
3,000	788	1,312	2,100	70%
3,500	919	1,457	2,376	68%
4,000	1,050	1,602	2,652	66%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(L-6 Benefit Program is Years of Credited Service  
times: 2.00% of FAS <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 875	\$1,925	128%
2,000	1,400	1,020	2,420	121%
2,500	1,750	1,165	2,915	117%
3,000	2,100	1,312	3,412	114%
3,500	2,450	1,457	3,907	112%
4,000	2,800	1,602	4,402	110%
25 Years of Service:				
\$1,500	\$ 750	\$ 875	\$1,625	108%
2,000	1,000	1,020	2,020	101%
2,500	1,250	1,165	2,415	97%
3,000	1,500	1,312	2,812	94%
3,500	1,750	1,457	3,207	92%
4,000	2,000	1,602	3,602	90%
15 Years of Service:				
\$1,500	\$ 450	\$ 875	\$1,325	88%
2,000	600	1,020	1,620	81%
2,500	750	1,165	1,915	77%
3,000	900	1,312	2,212	74%
3,500	1,050	1,457	2,507	72%
4,000	1,200	1,602	2,802	70%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(LT-4(65) Benefit Program is Years of Credited Service  
times: 2.00% of FAS<sup>1</sup> to age 65)  
1.00% of FAS<sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 525	\$ 875	\$1,050	\$1,400	70%	93%
2,000	1,400	700	1,020	1,400	1,720	70%	86%
2,500	1,750	875	1,165	1,750	2,040	70%	82%
3,000	2,100	1,050	1,312	2,100	2,362	70%	79%
3,500	2,450	1,225	1,457	2,450	2,682	70%	77%
4,000	2,800	1,400	1,602	2,800	3,002	70%	75%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 875	\$ 750	\$1,250	50%	83%
2,000	1,000	500	1,020	1,000	1,520	50%	76%
2,500	1,250	625	1,165	1,250	1,790	50%	72%
3,000	1,500	750	1,312	1,500	2,062	50%	69%
3,500	1,750	875	1,457	1,750	2,332	50%	67%
4,000	2,000	1,000	1,602	2,000	2,602	50%	65%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 875	\$ 450	\$1,100	30%	73%
2,000	600	300	1,020	600	1,320	30%	66%
2,500	750	375	1,165	750	1,540	30%	62%
3,000	900	450	1,312	900	1,762	30%	59%
3,500	1,050	525	1,457	1,050	1,982	30%	57%
4,000	1,200	600	1,602	1,200	2,202	30%	55%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(LT-5(65) Benefit Program is Years of Credited Service  
times: 2.00% of FAS<sup>1</sup> to age 65)  
1.25% of FAS<sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 656	\$ 875	\$1,050	\$1,531	70%	102%
2,000	1,400	875	1,020	1,400	1,895	70%	95%
2,500	1,750	1,094	1,165	1,750	2,259	70%	90%
3,000	2,100	1,313	1,312	2,100	2,625	70%	88%
3,500	2,450	1,531	1,457	2,450	2,988	70%	85%
4,000	2,800	1,750	1,602	2,800	3,352	70%	84%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 875	\$ 750	\$1,344	50%	90%
2,000	1,000	625	1,020	1,000	1,645	50%	82%
2,500	1,250	781	1,165	1,250	1,946	50%	78%
3,000	1,500	938	1,312	1,500	2,250	50%	75%
3,500	1,750	1,094	1,457	1,750	2,551	50%	73%
4,000	2,000	1,250	1,602	2,000	2,852	50%	71%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 875	\$ 450	\$1,156	30%	77%
2,000	600	375	1,020	600	1,395	30%	70%
2,500	750	469	1,165	750	1,634	30%	65%
3,000	900	563	1,312	900	1,875	30%	63%
3,500	1,050	656	1,457	1,050	2,113	30%	60%
4,000	1,200	750	1,602	1,200	2,352	30%	59%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(LT-8(65) Benefit Program is Years of Credited Service  
times: 2.00% of FAS<sup>1</sup> to age 65)  
1.50% of FAS<sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 788	\$ 875	\$1,050	\$1,663	70%	111%
2,000	1,400	1,050	1,020	1,400	2,070	70%	104%
2,500	1,750	1,313	1,165	1,750	2,478	70%	99%
3,000	2,100	1,575	1,312	2,100	2,887	70%	96%
3,500	2,450	1,838	1,457	2,450	3,295	70%	94%
4,000	2,800	2,100	1,602	2,800	3,702	70%	93%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 875	\$ 750	\$1,438	50%	96%
2,000	1,000	750	1,020	1,000	1,770	50%	89%
2,500	1,250	938	1,165	1,250	2,103	50%	84%
3,000	1,500	1,125	1,312	1,500	2,437	50%	81%
3,500	1,750	1,313	1,457	1,750	2,770	50%	79%
4,000	2,000	1,500	1,602	2,000	3,102	50%	78%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 875	\$ 450	\$1,213	30%	81%
2,000	600	450	1,020	600	1,470	30%	74%
2,500	750	563	1,165	750	1,728	30%	69%
3,000	900	675	1,312	900	1,987	30%	66%
3,500	1,050	788	1,457	1,050	2,245	30%	64%
4,000	1,200	900	1,602	1,200	2,502	30%	63%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**Missouri LAGERS**  
**Illustrations of Age and Service Allowance Amounts**  
**For Sample Combinations of Service & Salary**  
(LT-14(65) Benefit Program is Years of Credited Service  
times: 2.00% of FAS<sup>1</sup> to age 65)  
1.75% of FAS<sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 919	\$ 875	\$1,050	\$1,794	70%	120%
2,000	1,400	1,225	1,020	1,400	2,245	70%	112%
2,500	1,750	1,531	1,165	1,750	2,696	70%	108%
3,000	2,100	1,838	1,312	2,100	3,150	70%	105%
3,500	2,450	2,144	1,457	2,450	3,601	70%	103%
4,000	2,800	2,450	1,602	2,800	4,052	70%	101%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 875	\$ 750	\$1,531	50%	102%
2,000	1,000	875	1,020	1,000	1,895	50%	95%
2,500	1,250	1,094	1,165	1,250	2,259	50%	90%
3,000	1,500	1,313	1,312	1,500	2,625	50%	88%
3,500	1,750	1,531	1,457	1,750	2,988	50%	85%
4,000	2,000	1,750	1,602	2,000	3,352	50%	84%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 875	\$ 450	\$1,269	30%	85%
2,000	600	525	1,020	600	1,545	30%	77%
2,500	750	656	1,165	750	1,821	30%	73%
3,000	900	788	1,312	900	2,100	30%	70%
3,500	1,050	919	1,457	1,050	2,376	30%	68%
4,000	1,200	1,050	1,602	1,200	2,652	30%	66%

<sup>1</sup> "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2015 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> Amounts are shown to nearest \$1, for simplicity; actual amounts are to nearest 1¢.

**APPENDIX V**

**AGE AND SERVICE  
CHARACTERISTICS OF  
EMPLOYEES**

Mid-County Fire Protection District - General

April 30, 2016

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
<b>Under 20</b>									
20-24									
25-29									
30-34									
35-39									
40-44			1					1	\$ 51,459
45-49									
50-54									
55-59									
60-64									
65-69									
<b>70 &amp; Over</b>									
<b>Totals</b>			<b>1</b>					<b>1</b>	<b>\$ 51,459</b>

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 40.1 years.

Benefit Service: 0.0 years.

Annual Pay: \$ 51,459.

Mid-County Fire Protection District - Fire

April 30, 2016

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
<b>Under 20</b>									
<b>20-24</b>									
<b>25-29</b>									
<b>30-34</b>	3							3	\$ 260,299
<b>35-39</b>				1				1	\$ 86,991
<b>40-44</b>	1	1		1				3	\$ 295,689
<b>45-49</b>					4			4	\$ 425,100
<b>50-54</b>		1		1		1		3	\$ 275,277
<b>55-59</b>		1			1	1		3	\$ 273,810
<b>60-64</b>						1		1	\$ 103,366
<b>65-69</b>									
<b>70 &amp; Over</b>									
<b>Totals</b>	<b>4</b>	<b>3</b>		<b>3</b>	<b>5</b>	<b>3</b>		<b>18</b>	<b>\$ 1,720,532</b>

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 46.1 years.

Benefit Service: 0.0 years.

Annual Pay: \$ 95,585.



June 13, 2016 E-mail

Mr. Keith Hughes, Executive Secretary  
Missouri Local Government  
Employees Retirement System  
P.O. Box 1665  
Jefferson City, Missouri 65102

Dear Keith:

Enclosed is the report of the April 30, 2016 Initial Actuarial  
Valuation of LAGERS benefits for the employees of

Mid-County Fire Protection District

Sincerely,

Mita D. Drazilov

MDD:adh

June 13, 2016

Mid-County Fire Protection District  
St. Louis, Missouri

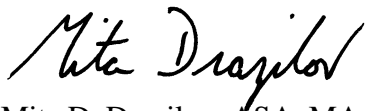
Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.660 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the April 30, 2016 Initial Valuation for the Mid-County Fire Protection District dated June 13, 2016.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of the Initial Valuation Report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2015.

Mita Drazilov is a member of the American Academy of Actuaries and meets the Qualification Standards of the Academy of Actuaries to render the actuarial opinion herein.

Respectfully submitted,



Mita D. Drazilov, ASA, MAAA

Mid-County Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 5 Year FAS)  
(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	3.5%	\$1,801	\$ 11,505	5.2%	\$2,676	\$ 15,746	4.4%	\$2,264	\$ 13,708
2017	53,260	3.5	1,864	11,682	5.2	2,770	15,988	4.4	2,343	13,918
2018	55,124	3.5	1,929	11,848	5.2	2,866	16,216	4.4	2,425	14,116
2019	57,053	3.5	1,997	12,003	5.2	2,967	16,428	4.4	2,510	14,300
2020	59,050	3.5	2,067	12,144	5.2	3,071	16,621	4.4	2,598	14,468
2021	61,117	3.5	2,139	12,270	5.2	3,178	16,793	4.4	2,689	14,618
2022	63,256	3.5	2,214	12,379	5.2	3,289	16,942	4.4	2,783	14,748
2023	65,470	3.5	2,291	12,468	5.2	3,404	17,064	4.4	2,881	14,854
2024	67,761	3.5	2,372	12,535	5.2	3,524	17,156	4.4	2,981	14,934
2025	70,133	3.5	2,455	12,578	5.2	3,647	17,215	4.4	3,086	14,985

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	5.8%	\$2,985	\$ 17,404	6.9%	\$3,551	\$ 19,751	7.3%	\$3,757	\$ 20,853
2017	53,260	5.8	3,089	17,671	6.9	3,675	20,054	7.3	3,888	21,173
2018	55,124	5.8	3,197	17,923	6.9	3,804	20,340	7.3	4,024	21,475
2019	57,053	5.8	3,309	18,157	6.9	3,937	20,606	7.3	4,165	21,755
2020	59,050	5.8	3,425	18,371	6.9	4,074	20,849	7.3	4,311	22,011
2021	61,117	5.8	3,545	18,562	6.9	4,217	21,065	7.3	4,462	22,239
2022	63,256	5.8	3,669	18,726	6.9	4,365	21,252	7.3	4,618	22,436
2023	65,470	5.8	3,797	18,861	6.9	4,517	21,405	7.3	4,779	22,598
2024	67,761	5.8	3,930	18,963	6.9	4,676	21,521	7.3	4,947	22,720
2025	70,133	5.8	4,068	19,028	6.9	4,839	21,595	7.3	5,120	22,798

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	8.7%	\$4,477	\$ 23,587	8.9%	\$4,580	\$ 24,144	10.4%	\$5,352	\$ 27,415
2017	53,260	8.7	4,634	23,949	8.9	4,740	24,515	10.4	5,539	27,836
2018	55,124	8.7	4,796	24,290	8.9	4,906	24,864	10.4	5,733	28,233
2019	57,053	8.7	4,964	24,607	8.9	5,078	25,189	10.4	5,934	28,602
2020	59,050	8.7	5,137	24,897	8.9	5,255	25,485	10.4	6,141	28,939
2021	61,117	8.7	5,317	25,155	8.9	5,439	25,749	10.4	6,356	29,239
2022	63,256	8.7	5,503	25,378	8.9	5,630	25,977	10.4	6,579	29,498
2023	65,470	8.7	5,696	25,561	8.9	5,827	26,164	10.4	6,809	29,711
2024	67,761	8.7	5,895	25,699	8.9	6,031	26,306	10.4	7,047	29,872
2025	70,133	8.7	6,102	25,787	8.9	6,242	26,396	10.4	7,294	29,975

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 3 Year FAS)  
(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	3.8%	\$1,955	\$ 12,114	5.6%	\$2,882	\$ 16,476	4.6%	\$2,367	\$ 14,402
2017	53,260	3.8	2,024	12,300	5.6	2,983	16,729	4.6	2,450	14,623
2018	55,124	3.8	2,095	12,475	5.6	3,087	16,967	4.6	2,536	14,831
2019	57,053	3.8	2,168	12,638	5.6	3,195	17,189	4.6	2,624	15,025
2020	59,050	3.8	2,244	12,787	5.6	3,307	17,391	4.6	2,716	15,202
2021	61,117	3.8	2,322	12,920	5.6	3,423	17,571	4.6	2,811	15,360
2022	63,256	3.8	2,404	13,034	5.6	3,542	17,727	4.6	2,910	15,496
2023	65,470	3.8	2,488	13,128	5.6	3,666	17,855	4.6	3,012	15,608
2024	67,761	3.8	2,575	13,199	5.6	3,795	17,952	4.6	3,117	15,692
2025	70,133	3.8	2,665	13,244	5.6	3,927	18,014	4.6	3,226	15,746

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	6.2%	\$3,190	\$ 18,187	7.3%	\$3,757	\$ 20,528	7.7%	\$3,962	\$ 21,677
2017	53,260	6.2	3,302	18,466	7.3	3,888	20,843	7.7	4,101	22,010
2018	55,124	6.2	3,418	18,729	7.3	4,024	21,140	7.7	4,245	22,324
2019	57,053	6.2	3,537	18,974	7.3	4,165	21,416	7.7	4,393	22,615
2020	59,050	6.2	3,661	19,197	7.3	4,311	21,668	7.7	4,547	22,881
2021	61,117	6.2	3,789	19,396	7.3	4,462	21,893	7.7	4,706	23,118
2022	63,256	6.2	3,922	19,568	7.3	4,618	22,087	7.7	4,871	23,323
2023	65,470	6.2	4,059	19,709	7.3	4,779	22,246	7.7	5,041	23,491
2024	67,761	6.2	4,201	19,816	7.3	4,947	22,366	7.7	5,218	23,618
2025	70,133	6.2	4,348	19,884	7.3	5,120	22,443	7.7	5,400	23,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	9.2%	\$4,734	\$ 24,519	9.4%	\$4,837	\$ 25,095	10.9%	\$5,609	\$ 28,477
2017	53,260	9.2	4,900	24,895	9.4	5,006	25,480	10.9	5,805	28,914
2018	55,124	9.2	5,071	25,250	9.4	5,182	25,843	10.9	6,009	29,326
2019	57,053	9.2	5,249	25,580	9.4	5,363	26,180	10.9	6,219	29,709
2020	59,050	9.2	5,433	25,881	9.4	5,551	26,488	10.9	6,436	30,059
2021	61,117	9.2	5,623	26,149	9.4	5,745	26,763	10.9	6,662	30,371
2022	63,256	9.2	5,820	26,381	9.4	5,946	27,000	10.9	6,895	30,640
2023	65,470	9.2	6,023	26,571	9.4	6,154	27,195	10.9	7,136	30,861
2024	67,761	9.2	6,234	26,715	9.4	6,370	27,342	10.9	7,386	31,028
2025	70,133	9.2	6,452	26,807	9.4	6,593	27,436	10.9	7,644	31,135

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)  
(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	7.4%	\$3,808	\$ 14,410	9.1%	\$4,683	\$ 18,042	8.3%	\$4,271	\$ 16,619
2017	53,260	7.4	3,941	14,631	9.1	4,847	18,319	8.3	4,421	16,874
2018	55,124	7.4	4,079	14,839	9.1	5,016	18,580	8.3	4,575	17,114
2019	57,053	7.4	4,222	15,033	9.1	5,192	18,823	8.3	4,735	17,337
2020	59,050	7.4	4,370	15,210	9.1	5,374	19,045	8.3	4,901	17,541
2021	61,117	7.4	4,523	15,368	9.1	5,562	19,243	8.3	5,073	17,723
2022	63,256	7.4	4,681	15,504	9.1	5,756	19,413	8.3	5,250	17,880
2023	65,470	7.4	4,845	15,616	9.1	5,958	19,553	8.3	5,434	18,009
2024	67,761	7.4	5,014	15,700	9.1	6,166	19,659	8.3	5,624	18,106
2025	70,133	7.4	5,190	15,754	9.1	6,382	19,727	8.3	5,821	18,168

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	9.7%	\$4,992	\$ 19,690	10.8%	\$5,558	\$ 21,651	11.2%	\$5,763	\$ 22,749
2017	53,260	9.7	5,166	19,992	10.8	5,752	21,983	11.2	5,965	23,098
2018	55,124	9.7	5,347	20,277	10.8	5,953	22,296	11.2	6,174	23,427
2019	57,053	9.7	5,534	20,542	10.8	6,162	22,587	11.2	6,390	23,733
2020	59,050	9.7	5,728	20,784	10.8	6,377	22,853	11.2	6,614	24,012
2021	61,117	9.7	5,928	21,000	10.8	6,601	23,090	11.2	6,845	24,261
2022	63,256	9.7	6,136	21,186	10.8	6,832	23,295	11.2	7,085	24,476
2023	65,470	9.7	6,351	21,339	10.8	7,071	23,463	11.2	7,333	24,652
2024	67,761	9.7	6,573	21,454	10.8	7,318	23,590	11.2	7,589	24,785
2025	70,133	9.7	6,803	21,528	10.8	7,574	23,671	11.2	7,855	24,870

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	12.6%	\$6,484	\$ 25,260	12.8%	\$6,587	\$ 25,810	14.3%	\$7,359	\$ 28,857
2017	53,260	12.6	6,711	25,648	12.8	6,817	26,206	14.3	7,616	29,300
2018	55,124	12.6	6,946	26,013	12.8	7,056	26,579	14.3	7,883	29,717
2019	57,053	12.6	7,189	26,353	12.8	7,303	26,926	14.3	8,159	30,105
2020	59,050	12.6	7,440	26,663	12.8	7,558	27,243	14.3	8,444	30,459
2021	61,117	12.6	7,701	26,940	12.8	7,823	27,526	14.3	8,740	30,775
2022	63,256	12.6	7,970	27,179	12.8	8,097	27,770	14.3	9,046	31,048
2023	65,470	12.6	8,249	27,375	12.8	8,380	27,970	14.3	9,362	31,272
2024	67,761	12.6	8,538	27,523	12.8	8,673	28,121	14.3	9,690	31,441
2025	70,133	12.6	8,837	27,618	12.8	8,977	28,218	14.3	10,029	31,549

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)  
(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	7.7%	\$3,962	\$ 14,919	9.5%	\$4,889	\$ 18,649	8.5%	\$4,374	\$ 17,201
2017	53,260	7.7	4,101	15,148	9.5	5,060	18,935	8.5	4,527	17,465
2018	55,124	7.7	4,245	15,364	9.5	5,237	19,205	8.5	4,686	17,714
2019	57,053	7.7	4,393	15,565	9.5	5,420	19,456	8.5	4,850	17,945
2020	59,050	7.7	4,547	15,748	9.5	5,610	19,685	8.5	5,019	18,156
2021	61,117	7.7	4,706	15,911	9.5	5,806	19,889	8.5	5,195	18,344
2022	63,256	7.7	4,871	16,052	9.5	6,009	20,065	8.5	5,377	18,507
2023	65,470	7.7	5,041	16,168	9.5	6,220	20,210	8.5	5,565	18,640
2024	67,761	7.7	5,218	16,255	9.5	6,437	20,319	8.5	5,760	18,741
2025	70,133	7.7	5,400	16,311	9.5	6,663	20,389	8.5	5,961	18,805

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	10.1%	\$5,197	\$ 20,362	11.2%	\$5,763	\$ 22,386	11.6%	\$5,969	\$ 23,522
2017	53,260	10.1	5,379	20,675	11.2	5,965	22,730	11.6	6,178	23,883
2018	55,124	10.1	5,568	20,970	11.2	6,174	23,054	11.6	6,394	24,223
2019	57,053	10.1	5,762	21,244	11.2	6,390	23,355	11.6	6,618	24,539
2020	59,050	10.1	5,964	21,494	11.2	6,614	23,630	11.6	6,850	24,828
2021	61,117	10.1	6,173	21,717	11.2	6,845	23,875	11.6	7,090	25,086
2022	63,256	10.1	6,389	21,909	11.2	7,085	24,087	11.6	7,338	25,308
2023	65,470	10.1	6,612	22,067	11.2	7,333	24,261	11.6	7,595	25,490
2024	67,761	10.1	6,844	22,186	11.2	7,589	24,392	11.6	7,860	25,628
2025	70,133	10.1	7,083	22,262	11.2	7,855	24,476	11.6	8,135	25,716

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	13.1%	\$6,741	\$ 26,101	13.3%	\$6,844	\$ 26,668	14.8%	\$7,616	\$ 29,818
2017	53,260	13.1	6,977	26,502	13.3	7,084	27,077	14.8	7,882	30,276
2018	55,124	13.1	7,221	26,880	13.3	7,331	27,463	14.8	8,158	30,707
2019	57,053	13.1	7,474	27,231	13.3	7,588	27,822	14.8	8,444	31,108
2020	59,050	13.1	7,736	27,551	13.3	7,854	28,149	14.8	8,739	31,474
2021	61,117	13.1	8,006	27,837	13.3	8,129	28,441	14.8	9,045	31,801
2022	63,256	13.1	8,287	28,084	13.3	8,413	28,693	14.8	9,362	32,083
2023	65,470	13.1	8,577	28,287	13.3	8,708	28,900	14.8	9,690	32,314
2024	67,761	13.1	8,877	28,440	13.3	9,012	29,056	14.8	10,029	32,489
2025	70,133	13.1	9,187	28,538	13.3	9,328	29,156	14.8	10,380	32,601

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 5 Year FAS)  
(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	4.5%	\$2,316	\$ 12,914	6.3%	\$3,242	\$ 17,293	6.3%	\$3,242	\$ 17,933
2017	53,260	4.5	2,397	13,112	6.3	3,355	17,559	6.3	3,355	18,208
2018	55,124	4.5	2,481	13,299	6.3	3,473	17,809	6.3	3,473	18,467
2019	57,053	4.5	2,567	13,473	6.3	3,594	18,042	6.3	3,594	18,708
2020	59,050	4.5	2,657	13,632	6.3	3,720	18,254	6.3	3,720	18,928
2021	61,117	4.5	2,750	13,773	6.3	3,850	18,443	6.3	3,850	19,124
2022	63,256	4.5	2,847	13,895	6.3	3,985	18,606	6.3	3,985	19,293
2023	65,470	4.5	2,946	13,995	6.3	4,125	18,740	6.3	4,125	19,432
2024	67,761	4.5	3,049	14,071	6.3	4,269	18,841	6.3	4,269	19,537
2025	70,133	4.5	3,156	14,119	6.3	4,418	18,906	6.3	4,418	19,604

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	7.7%	\$3,962	\$ 21,057	8.3%	\$4,271	\$ 21,478	9.2%	\$4,734	\$ 23,987
2017	53,260	7.7	4,101	21,380	8.3	4,421	21,808	9.2	4,900	24,355
2018	55,124	7.7	4,245	21,685	8.3	4,575	22,119	9.2	5,071	24,702
2019	57,053	7.7	4,393	21,968	8.3	4,735	22,408	9.2	5,249	25,025
2020	59,050	7.7	4,547	22,227	8.3	4,901	22,672	9.2	5,433	25,320
2021	61,117	7.7	4,706	22,458	8.3	5,073	22,907	9.2	5,623	25,583
2022	63,256	7.7	4,871	22,657	8.3	5,250	23,110	9.2	5,820	25,810
2023	65,470	7.7	5,041	22,820	8.3	5,434	23,277	9.2	6,023	25,996
2024	67,761	7.7	5,218	22,943	8.3	5,624	23,403	9.2	6,234	26,137
2025	70,133	7.7	5,400	23,022	8.3	5,821	23,483	9.2	6,452	26,227

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	10.3%	\$5,300	\$ 25,470	10.7%	\$5,506	\$ 26,724	12.1%	\$6,227	\$ 29,472
2017	53,260	10.3	5,486	25,861	10.7	5,699	27,134	12.1	6,444	29,925
2018	55,124	10.3	5,678	26,229	10.7	5,898	27,521	12.1	6,670	30,351
2019	57,053	10.3	5,876	26,571	10.7	6,105	27,880	12.1	6,903	30,747
2020	59,050	10.3	6,082	26,884	10.7	6,318	28,208	12.1	7,145	31,109
2021	61,117	10.3	6,295	27,163	10.7	6,540	28,501	12.1	7,395	31,432
2022	63,256	10.3	6,515	27,404	10.7	6,768	28,754	12.1	7,654	31,710
2023	65,470	10.3	6,743	27,602	10.7	7,005	28,961	12.1	7,922	31,939
2024	67,761	10.3	6,979	27,751	10.7	7,250	29,118	12.1	8,199	32,112
2025	70,133	10.3	7,224	27,846	10.7	7,504	29,218	12.1	8,486	32,222

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 3 Year FAS)  
(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	4.8%	\$2,470	\$ 13,559	6.7%	\$3,448	\$ 18,081	6.7%	\$3,448	\$ 18,777
2017	53,260	4.8	2,556	13,767	6.7	3,568	18,359	6.7	3,568	19,065
2018	55,124	4.8	2,646	13,963	6.7	3,693	18,621	6.7	3,693	19,337
2019	57,053	4.8	2,739	14,145	6.7	3,823	18,864	6.7	3,823	19,589
2020	59,050	4.8	2,834	14,311	6.7	3,956	19,086	6.7	3,956	19,820
2021	61,117	4.8	2,934	14,459	6.7	4,095	19,284	6.7	4,095	20,026
2022	63,256	4.8	3,036	14,587	6.7	4,238	19,455	6.7	4,238	20,203
2023	65,470	4.8	3,143	14,692	6.7	4,386	19,595	6.7	4,386	20,349
2024	67,761	4.8	3,253	14,771	6.7	4,540	19,701	6.7	4,540	20,459
2025	70,133	4.8	3,366	14,822	6.7	4,699	19,769	6.7	4,699	20,529

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	8.2%	\$4,220	\$ 21,986	8.6%	\$4,425	\$ 22,321	9.6%	\$4,940	\$ 24,936
2017	53,260	8.2	4,367	22,324	8.6	4,580	22,664	9.6	5,113	25,319
2018	55,124	8.2	4,520	22,642	8.6	4,741	22,987	9.6	5,292	25,680
2019	57,053	8.2	4,678	22,938	8.6	4,907	23,287	9.6	5,477	26,015
2020	59,050	8.2	4,842	23,208	8.6	5,078	23,561	9.6	5,669	26,321
2021	61,117	8.2	5,012	23,449	8.6	5,256	23,805	9.6	5,867	26,594
2022	63,256	8.2	5,187	23,657	8.6	5,440	24,016	9.6	6,073	26,830
2023	65,470	8.2	5,369	23,828	8.6	5,630	24,189	9.6	6,285	27,023
2024	67,761	8.2	5,556	23,957	8.6	5,827	24,320	9.6	6,505	27,169
2025	70,133	8.2	5,751	24,039	8.6	6,031	24,404	9.6	6,733	27,262

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	10.8%	\$5,558	\$ 26,467	11.2%	\$5,763	\$ 27,768	12.7%	\$6,535	\$ 30,624
2017	53,260	10.8	5,752	26,873	11.2	5,965	28,194	12.7	6,764	31,094
2018	55,124	10.8	5,953	27,256	11.2	6,174	28,596	12.7	7,001	31,537
2019	57,053	10.8	6,162	27,612	11.2	6,390	28,969	12.7	7,246	31,949
2020	59,050	10.8	6,377	27,937	11.2	6,614	29,310	12.7	7,499	32,325
2021	61,117	10.8	6,601	28,227	11.2	6,845	29,614	12.7	7,762	32,660
2022	63,256	10.8	6,832	28,477	11.2	7,085	29,876	12.7	8,034	32,949
2023	65,470	10.8	7,071	28,682	11.2	7,333	30,091	12.7	8,315	33,187
2024	67,761	10.8	7,318	28,837	11.2	7,589	30,254	12.7	8,606	33,367
2025	70,133	10.8	7,574	28,936	11.2	7,855	30,358	12.7	8,907	33,482

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)  
(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	8.3%	\$4,271	\$ 15,894	10.2%	\$5,249	\$ 19,875	10.2%	\$5,249	\$ 20,901
2017	53,260	8.3	4,421	16,138	10.2	5,433	20,180	10.2	5,433	21,222
2018	55,124	8.3	4,575	16,368	10.2	5,623	20,468	10.2	5,623	21,524
2019	57,053	8.3	4,735	16,582	10.2	5,819	20,735	10.2	5,819	21,805
2020	59,050	8.3	4,901	16,777	10.2	6,023	20,979	10.2	6,023	22,062
2021	61,117	8.3	5,073	16,951	10.2	6,234	21,197	10.2	6,234	22,291
2022	63,256	8.3	5,250	17,101	10.2	6,452	21,385	10.2	6,452	22,488
2023	65,470	8.3	5,434	17,224	10.2	6,678	21,539	10.2	6,678	22,650
2024	67,761	8.3	5,624	17,317	10.2	6,912	21,656	10.2	6,912	22,773
2025	70,133	8.3	5,821	17,376	10.2	7,154	21,730	10.2	7,154	22,851

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	11.6%	\$5,969	\$ 23,624	12.2%	\$6,278	\$ 23,843	13.1%	\$6,741	\$ 26,346
2017	53,260	11.6	6,178	23,987	12.2	6,498	24,209	13.1	6,977	26,751
2018	55,124	11.6	6,394	24,329	12.2	6,725	24,554	13.1	7,221	27,132
2019	57,053	11.6	6,618	24,647	12.2	6,960	24,875	13.1	7,474	27,486
2020	59,050	11.6	6,850	24,937	12.2	7,204	25,168	13.1	7,736	27,809
2021	61,117	11.6	7,090	25,196	12.2	7,456	25,429	13.1	8,006	28,097
2022	63,256	11.6	7,338	25,419	12.2	7,717	25,654	13.1	8,287	28,346
2023	65,470	11.6	7,595	25,602	12.2	7,987	25,839	13.1	8,577	28,550
2024	67,761	11.6	7,860	25,740	12.2	8,267	25,979	13.1	8,877	28,704
2025	70,133	11.6	8,135	25,828	12.2	8,556	26,068	13.1	9,187	28,803

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	14.2%	\$7,307	\$ 27,812	14.6%	\$7,513	\$ 29,070	16.0%	\$8,233	\$ 31,780
2017	53,260	14.2	7,563	28,239	14.6	7,776	29,516	16.0	8,522	32,268
2018	55,124	14.2	7,828	28,641	14.6	8,048	29,937	16.0	8,820	32,728
2019	57,053	14.2	8,102	29,015	14.6	8,330	30,328	16.0	9,128	33,155
2020	59,050	14.2	8,385	29,356	14.6	8,621	30,685	16.0	9,448	33,545
2021	61,117	14.2	8,679	29,661	14.6	8,923	31,003	16.0	9,779	33,893
2022	63,256	14.2	8,982	29,924	14.6	9,235	31,278	16.0	10,121	34,193
2023	65,470	14.2	9,297	30,140	14.6	9,559	31,504	16.0	10,475	34,440
2024	67,761	14.2	9,622	30,303	14.6	9,893	31,674	16.0	10,842	34,626
2025	70,133	14.2	9,959	30,407	14.6	10,239	31,783	16.0	11,221	34,745

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)  
(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	8.6%	\$4,425	\$ 16,474	10.6%	\$5,455	\$ 20,561	10.6%	\$5,455	\$ 21,668
2017	53,260	8.6	4,580	16,727	10.6	5,646	20,877	10.6	5,646	22,001
2018	55,124	8.6	4,741	16,965	10.6	5,843	21,174	10.6	5,843	22,314
2019	57,053	8.6	4,907	17,186	10.6	6,048	21,450	10.6	6,048	22,605
2020	59,050	8.6	5,078	17,388	10.6	6,259	21,702	10.6	6,259	22,871
2021	61,117	8.6	5,256	17,568	10.6	6,478	21,927	10.6	6,478	23,108
2022	63,256	8.6	5,440	17,724	10.6	6,705	22,121	10.6	6,705	23,313
2023	65,470	8.6	5,630	17,852	10.6	6,940	22,281	10.6	6,940	23,481
2024	67,761	8.6	5,827	17,949	10.6	7,183	22,402	10.6	7,183	23,608
2025	70,133	8.6	6,031	18,011	10.6	7,434	22,479	10.6	7,434	23,689

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	12.1%	\$6,227	\$ 24,462	12.5%	\$6,432	\$ 24,680	13.5%	\$6,947	\$ 27,277
2017	53,260	12.1	6,444	24,838	12.5	6,658	25,059	13.5	7,190	27,696
2018	55,124	12.1	6,670	25,192	12.5	6,891	25,416	13.5	7,442	28,091
2019	57,053	12.1	6,903	25,521	12.5	7,132	25,748	13.5	7,702	28,458
2020	59,050	12.1	7,145	25,821	12.5	7,381	26,051	13.5	7,972	28,793
2021	61,117	12.1	7,395	26,089	12.5	7,640	26,321	13.5	8,251	29,092
2022	63,256	12.1	7,654	26,320	12.5	7,907	26,554	13.5	8,540	29,350
2023	65,470	12.1	7,922	26,510	12.5	8,184	26,745	13.5	8,838	29,562
2024	67,761	12.1	8,199	26,653	12.5	8,470	26,890	13.5	9,148	29,722
2025	70,133	12.1	8,486	26,745	12.5	8,767	26,982	13.5	9,468	29,824

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 51,459	14.7%	\$7,565	\$ 28,798	15.1%	\$7,770	\$ 30,091	16.6%	\$8,542	\$ 32,907
2017	53,260	14.7	7,829	29,240	15.1	8,042	30,553	16.6	8,841	33,412
2018	55,124	14.7	8,103	29,657	15.1	8,324	30,988	16.6	9,151	33,888
2019	57,053	14.7	8,387	30,044	15.1	8,615	31,393	16.6	9,471	34,330
2020	59,050	14.7	8,680	30,398	15.1	8,917	31,762	16.6	9,802	34,734
2021	61,117	14.7	8,984	30,713	15.1	9,229	32,092	16.6	10,145	35,094
2022	63,256	14.7	9,299	30,985	15.1	9,552	32,376	16.6	10,500	35,405
2023	65,470	14.7	9,624	31,208	15.1	9,886	32,609	16.6	10,868	35,660
2024	67,761	14.7	9,961	31,377	15.1	10,232	32,785	16.6	11,248	35,853
2025	70,133	14.7	10,310	31,485	15.1	10,590	32,898	16.6	11,642	35,976

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	5.0%	\$86,027	\$ 286,666	7.0%	\$120,437	\$ 370,529	7.6%	\$130,760	\$ 370,622
2017	1,780,750	5.0	89,038	291,067	7.0	124,653	376,218	7.6	135,337	376,312
2018	1,843,076	5.0	92,154	295,214	7.0	129,015	381,578	7.6	140,074	381,674
2019	1,907,584	5.0	95,379	299,068	7.0	133,531	386,560	7.6	144,976	386,657
2020	1,974,349	5.0	98,717	302,588	7.0	138,204	391,109	7.6	150,051	391,207
2021	2,043,451	5.0	102,173	305,727	7.0	143,042	395,166	7.6	155,302	395,265
2022	2,114,972	5.0	105,749	308,436	7.0	148,048	398,667	7.6	160,738	398,767
2023	2,188,996	5.0	109,450	310,660	7.0	153,230	401,542	7.6	166,364	401,642
2024	2,265,611	5.0	113,281	312,341	7.0	158,593	403,714	7.6	172,186	403,815
2025	2,344,907	5.0	117,245	313,414	7.0	164,143	405,101	7.6	178,213	405,202

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	9.0%	\$154,848	\$ 433,488	9.1%	\$156,568	\$ 453,255	10.4%	\$178,935	\$ 495,240
2017	1,780,750	9.0	160,268	440,144	9.1	162,048	460,214	10.4	185,198	502,844
2018	1,843,076	9.0	165,877	446,415	9.1	167,720	466,771	10.4	191,680	510,009
2019	1,907,584	9.0	171,683	452,243	9.1	173,590	472,865	10.4	198,389	516,668
2020	1,974,349	9.0	177,691	457,565	9.1	179,666	478,430	10.4	205,332	522,748
2021	2,043,451	9.0	183,911	462,312	9.1	185,954	483,393	10.4	212,519	528,171
2022	2,114,972	9.0	190,347	466,408	9.1	192,462	487,676	10.4	219,957	532,851
2023	2,188,996	9.0	197,010	469,771	9.1	199,199	491,193	10.4	227,656	536,693
2024	2,265,611	9.0	203,905	472,312	9.1	206,171	493,850	10.4	235,624	539,596
2025	2,344,907	9.0	211,042	473,934	9.1	213,387	495,546	10.4	243,870	541,450

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	11.2%	\$192,700	\$ 535,539	11.9%	\$204,743	\$ 556,476	13.3%	\$228,831	\$ 617,406
2017	1,780,750	11.2	199,444	543,762	11.9	211,909	565,020	13.3	236,840	626,886
2018	1,843,076	11.2	206,425	551,510	11.9	219,326	573,070	13.3	245,129	635,818
2019	1,907,584	11.2	213,649	558,711	11.9	227,002	580,552	13.3	253,709	644,119
2020	1,974,349	11.2	221,127	565,286	11.9	234,948	587,384	13.3	262,588	651,699
2021	2,043,451	11.2	228,867	571,150	11.9	243,171	593,478	13.3	271,779	658,460
2022	2,114,972	11.2	236,877	576,210	11.9	251,682	598,736	13.3	281,291	664,294
2023	2,188,996	11.2	245,168	580,365	11.9	260,491	603,053	13.3	291,136	669,084
2024	2,265,611	11.2	253,748	583,505	11.9	269,608	606,315	13.3	301,326	672,703
2025	2,344,907	11.2	262,630	585,509	11.9	279,044	608,398	13.3	311,873	675,014

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 3 Year FAS)  
(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	5.3%	\$91,188	\$ 298,828	7.5%	\$129,040	\$ 385,323	8.0%	\$137,643	\$ 385,961
2017	1,780,750	5.3	94,380	303,416	7.5	133,556	391,239	8.0	142,460	391,887
2018	1,843,076	5.3	97,683	307,739	7.5	138,231	396,813	8.0	147,446	397,471
2019	1,907,584	5.3	101,102	311,757	7.5	143,069	401,994	8.0	152,607	402,660
2020	1,974,349	5.3	104,640	315,426	7.5	148,076	406,725	8.0	157,948	407,399
2021	2,043,451	5.3	108,303	318,698	7.5	153,259	410,944	8.0	163,476	411,625
2022	2,114,972	5.3	112,094	321,522	7.5	158,623	414,585	8.0	169,198	415,272
2023	2,188,996	5.3	116,017	323,840	7.5	164,175	417,575	8.0	175,120	418,267
2024	2,265,611	5.3	120,077	325,592	7.5	169,921	419,834	8.0	181,249	420,530
2025	2,344,907	5.3	124,280	326,710	7.5	175,868	421,276	8.0	187,593	421,975

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	9.5%	\$163,451	\$ 450,628	9.5%	\$163,451	\$ 470,743	10.9%	\$187,538	\$ 514,339
2017	1,780,750	9.5	169,171	457,547	9.5	169,171	477,971	10.9	194,102	522,236
2018	1,843,076	9.5	175,092	464,066	9.5	175,092	484,781	10.9	200,895	529,677
2019	1,907,584	9.5	181,220	470,125	9.5	181,220	491,110	10.9	207,927	536,593
2020	1,974,349	9.5	187,563	475,658	9.5	187,563	496,890	10.9	215,204	542,908
2021	2,043,451	9.5	194,128	480,593	9.5	194,128	502,045	10.9	222,736	548,540
2022	2,114,972	9.5	200,922	484,851	9.5	200,922	506,493	10.9	230,532	553,400
2023	2,188,996	9.5	207,955	488,347	9.5	207,955	510,145	10.9	238,601	557,391
2024	2,265,611	9.5	215,233	490,989	9.5	215,233	512,905	10.9	246,952	560,406
2025	2,344,907	9.5	222,766	492,676	9.5	222,766	514,667	10.9	255,595	562,331

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	11.8%	\$203,023	\$ 555,778	12.4%	\$213,346	\$ 577,523	13.9%	\$239,154	\$ 640,400
2017	1,780,750	11.8	210,129	564,311	12.4	220,813	586,390	13.9	247,524	650,233
2018	1,843,076	11.8	217,483	572,351	12.4	228,541	594,745	13.9	256,188	659,498
2019	1,907,584	11.8	225,095	579,824	12.4	236,540	602,510	13.9	265,154	668,109
2020	1,974,349	11.8	232,973	586,648	12.4	244,819	609,601	13.9	274,435	675,972
2021	2,043,451	11.8	241,127	592,734	12.4	253,388	615,925	13.9	284,040	682,985
2022	2,114,972	11.8	249,567	597,986	12.4	262,257	621,382	13.9	293,981	689,036
2023	2,188,996	11.8	258,302	602,298	12.4	271,436	625,863	13.9	304,270	694,005
2024	2,265,611	11.8	267,342	605,556	12.4	280,936	629,249	13.9	314,920	697,759
2025	2,344,907	11.8	276,699	607,636	12.4	290,768	631,411	13.9	325,942	700,156

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)  
(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	8.9%	\$153,127	\$ 304,629	10.9%	\$187,538	\$ 380,806	11.4%	\$196,141	\$ 387,903
2017	1,780,750	8.9	158,487	309,306	10.9	194,102	386,653	11.4	203,006	393,859
2018	1,843,076	8.9	164,034	313,713	10.9	200,895	392,162	11.4	210,111	399,471
2019	1,907,584	8.9	169,775	317,809	10.9	207,927	397,282	11.4	217,465	404,687
2020	1,974,349	8.9	175,717	321,549	10.9	215,204	401,957	11.4	225,076	409,450
2021	2,043,451	8.9	181,867	324,885	10.9	222,736	406,127	11.4	232,953	413,698
2022	2,114,972	8.9	188,233	327,763	10.9	230,532	409,725	11.4	241,107	417,363
2023	2,188,996	8.9	194,821	330,126	10.9	238,601	412,680	11.4	249,546	420,373
2024	2,265,611	8.9	201,639	331,912	10.9	246,952	414,912	11.4	258,280	422,647
2025	2,344,907	8.9	208,697	333,052	10.9	255,595	416,337	11.4	267,319	424,099

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	12.9%	\$221,949	\$ 443,271	13.0%	\$223,669	\$ 456,919	14.3%	\$246,036	\$ 498,567
2017	1,780,750	12.9	229,717	450,077	13.0	231,498	463,934	14.3	254,647	506,222
2018	1,843,076	12.9	237,757	456,490	13.0	239,600	470,544	14.3	263,560	513,435
2019	1,907,584	12.9	246,078	462,450	13.0	247,986	476,688	14.3	272,785	520,139
2020	1,974,349	12.9	254,691	467,892	13.0	256,665	482,298	14.3	282,332	526,260
2021	2,043,451	12.9	263,605	472,746	13.0	265,649	487,301	14.3	292,213	531,720
2022	2,114,972	12.9	272,831	476,934	13.0	274,946	491,618	14.3	302,441	536,431
2023	2,188,996	12.9	282,380	480,373	13.0	284,569	495,163	14.3	313,026	540,299
2024	2,265,611	12.9	292,264	482,972	13.0	294,529	497,842	14.3	323,982	543,222
2025	2,344,907	12.9	302,493	484,631	13.0	304,838	499,552	14.3	335,322	545,088

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	15.1%	\$259,800	\$ 533,150	15.8%	\$271,844	\$ 553,928	17.2%	\$295,931	\$ 609,241
2017	1,780,750	15.1	268,893	541,336	15.8	281,359	562,433	17.2	306,289	618,595
2018	1,843,076	15.1	278,304	549,049	15.8	291,206	570,447	17.2	317,009	627,409
2019	1,907,584	15.1	288,045	556,217	15.8	301,398	577,895	17.2	328,104	635,601
2020	1,974,349	15.1	298,127	562,763	15.8	311,947	584,696	17.2	339,588	643,081
2021	2,043,451	15.1	308,561	568,601	15.8	322,865	590,762	17.2	351,474	649,752
2022	2,114,972	15.1	319,361	573,639	15.8	334,166	595,996	17.2	363,775	655,509
2023	2,188,996	15.1	330,538	577,775	15.8	345,861	600,294	17.2	376,507	660,236
2024	2,265,611	15.1	342,107	580,901	15.8	357,967	603,541	17.2	389,685	663,808
2025	2,344,907	15.1	354,081	582,896	15.8	370,495	605,614	17.2	403,324	666,088

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)  
(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	9.2%	\$158,289	\$ 314,990	11.4%	\$196,141	\$ 393,789	11.9%	\$204,743	\$ 401,412
2017	1,780,750	9.2	163,829	319,826	11.4	203,006	399,835	11.9	211,909	407,575
2018	1,843,076	9.2	169,563	324,383	11.4	210,111	405,532	11.9	219,326	413,382
2019	1,907,584	9.2	175,498	328,618	11.4	217,465	410,827	11.9	227,002	418,779
2020	1,974,349	9.2	181,640	332,485	11.4	225,076	415,662	11.9	234,948	423,707
2021	2,043,451	9.2	187,997	335,934	11.4	232,953	419,974	11.9	243,171	428,103
2022	2,114,972	9.2	194,577	338,910	11.4	241,107	423,695	11.9	251,682	431,896
2023	2,188,996	9.2	201,388	341,354	11.4	249,546	426,750	11.9	260,491	435,010
2024	2,265,611	9.2	208,436	343,201	11.4	258,280	429,059	11.9	269,608	437,363
2025	2,344,907	9.2	215,731	344,380	11.4	267,319	430,533	11.9	279,044	438,865

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	13.4%	\$230,551	\$ 458,586	13.4%	\$230,551	\$ 472,590	14.8%	\$254,639	\$ 515,779
2017	1,780,750	13.4	238,621	465,627	13.4	238,621	479,846	14.8	263,551	523,698
2018	1,843,076	13.4	246,972	472,261	13.4	246,972	486,683	14.8	272,775	531,160
2019	1,907,584	13.4	255,616	478,427	13.4	255,616	493,037	14.8	282,322	538,095
2020	1,974,349	13.4	264,563	484,057	13.4	264,563	498,839	14.8	292,204	544,428
2021	2,043,451	13.4	273,822	489,079	13.4	273,822	504,014	14.8	302,431	550,076
2022	2,114,972	13.4	283,406	493,412	13.4	283,406	508,480	14.8	313,016	554,950
2023	2,188,996	13.4	293,325	496,970	13.4	293,325	512,147	14.8	323,971	558,952
2024	2,265,611	13.4	303,592	499,658	13.4	303,592	514,918	14.8	335,310	561,976
2025	2,344,907	13.4	314,218	501,374	13.4	314,218	516,687	14.8	347,046	563,906

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	15.7%	\$270,123	\$ 551,309	16.3%	\$280,447	\$ 572,888	17.8%	\$306,255	\$ 630,044
2017	1,780,750	15.7	279,578	559,774	16.3	290,262	581,684	17.8	316,974	639,718
2018	1,843,076	15.7	289,363	567,750	16.3	300,421	589,972	17.8	328,068	648,833
2019	1,907,584	15.7	299,491	575,163	16.3	310,936	597,675	17.8	339,550	657,304
2020	1,974,349	15.7	309,973	581,932	16.3	321,819	604,709	17.8	351,434	665,040
2021	2,043,451	15.7	320,822	587,969	16.3	333,083	610,982	17.8	363,734	671,939
2022	2,114,972	15.7	332,051	593,178	16.3	344,740	616,395	17.8	376,465	677,892
2023	2,188,996	15.7	343,672	597,455	16.3	356,806	620,840	17.8	389,641	682,780
2024	2,265,611	15.7	355,701	600,687	16.3	369,295	624,199	17.8	403,279	686,474
2025	2,344,907	15.7	368,150	602,750	16.3	382,220	626,343	17.8	417,393	688,832

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 5 Year FAS)  
(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	5.2%	\$89,468	\$ 279,015	7.3%	\$125,599	\$ 360,064	8.2%	\$141,084	\$ 381,227
2017	1,780,750	5.2	92,599	283,299	7.3	129,995	365,592	8.2	146,022	387,080
2018	1,843,076	5.2	95,840	287,335	7.3	134,545	370,801	8.2	151,132	392,595
2019	1,907,584	5.2	99,194	291,087	7.3	139,254	375,642	8.2	156,422	397,721
2020	1,974,349	5.2	102,666	294,513	7.3	144,127	380,063	8.2	161,897	402,402
2021	2,043,451	5.2	106,259	297,568	7.3	149,172	384,006	8.2	167,563	406,577
2022	2,114,972	5.2	109,979	300,204	7.3	154,393	387,408	8.2	173,428	410,179
2023	2,188,996	5.2	113,828	302,369	7.3	159,797	390,202	8.2	179,498	413,137
2024	2,265,611	5.2	117,812	304,005	7.3	165,390	392,313	8.2	185,780	415,372
2025	2,344,907	5.2	121,935	305,049	7.3	171,178	393,661	8.2	192,282	416,799

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	9.5%	\$163,451	\$ 436,687	9.3%	\$160,009	\$ 440,086	10.9%	\$187,538	\$ 491,166
2017	1,780,750	9.5	169,171	443,392	9.3	165,610	446,843	10.9	194,102	498,707
2018	1,843,076	9.5	175,092	449,709	9.3	171,406	453,210	10.9	200,895	505,813
2019	1,907,584	9.5	181,220	455,580	9.3	177,405	459,127	10.9	207,927	512,417
2020	1,974,349	9.5	187,563	460,942	9.3	183,614	464,530	10.9	215,204	518,447
2021	2,043,451	9.5	194,128	465,724	9.3	190,041	469,349	10.9	222,736	523,825
2022	2,114,972	9.5	200,922	469,850	9.3	196,692	473,507	10.9	230,532	528,466
2023	2,188,996	9.5	207,955	473,238	9.3	203,577	476,921	10.9	238,601	532,277
2024	2,265,611	9.5	215,233	475,798	9.3	210,702	479,501	10.9	246,952	535,156
2025	2,344,907	9.5	222,766	477,432	9.3	218,076	481,148	10.9	255,595	536,994

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	11.6%	\$199,582	\$ 519,659	12.3%	\$211,625	\$ 545,199	13.7%	\$235,713	\$ 598,901
2017	1,780,750	11.6	206,567	527,638	12.3	219,032	553,570	13.7	243,963	608,096
2018	1,843,076	11.6	213,797	535,156	12.3	226,698	561,457	13.7	252,501	616,760
2019	1,907,584	11.6	221,280	542,143	12.3	234,633	568,787	13.7	261,339	624,813
2020	1,974,349	11.6	229,024	548,523	12.3	242,845	575,481	13.7	270,486	632,166
2021	2,043,451	11.6	237,040	554,213	12.3	251,344	581,451	13.7	279,953	638,724
2022	2,114,972	11.6	245,337	559,123	12.3	260,142	586,603	13.7	289,751	644,383
2023	2,188,996	11.6	253,924	563,155	12.3	269,247	590,833	13.7	299,892	649,030
2024	2,265,611	11.6	262,811	566,201	12.3	278,670	594,029	13.7	310,389	652,541
2025	2,344,907	11.6	272,009	568,146	12.3	288,424	596,070	13.7	321,252	654,783

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 3 Year FAS)  
(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	5.5%	\$94,629	\$ 290,889	7.6%	\$130,760	\$ 374,528	8.6%	\$147,966	\$ 396,983
2017	1,780,750	5.5	97,941	295,355	7.6	135,337	380,278	8.6	153,145	403,078
2018	1,843,076	5.5	101,369	299,563	7.6	140,074	385,696	8.6	158,505	408,821
2019	1,907,584	5.5	104,917	303,474	7.6	144,976	390,732	8.6	164,052	414,159
2020	1,974,349	5.5	108,589	307,045	7.6	150,051	395,330	8.6	169,794	419,033
2021	2,043,451	5.5	112,390	310,230	7.6	155,302	399,431	8.6	175,737	423,380
2022	2,114,972	5.5	116,323	312,979	7.6	160,738	402,970	8.6	181,888	427,131
2023	2,188,996	5.5	120,395	315,236	7.6	166,364	405,876	8.6	188,254	430,211
2024	2,265,611	5.5	124,609	316,941	7.6	172,186	408,072	8.6	194,843	432,538
2025	2,344,907	5.5	128,970	318,030	7.6	178,213	409,474	8.6	201,662	434,024

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	10.0%	\$172,053	\$ 454,064	9.9%	\$170,333	\$ 457,236	11.3%	\$194,420	\$ 510,262
2017	1,780,750	10.0	178,075	461,036	9.9	176,294	464,256	11.3	201,225	518,096
2018	1,843,076	10.0	184,308	467,605	9.9	182,465	470,871	11.3	208,268	525,478
2019	1,907,584	10.0	190,758	473,710	9.9	188,851	477,019	11.3	215,557	532,339
2020	1,974,349	10.0	197,435	479,285	9.9	195,461	482,633	11.3	223,101	538,604
2021	2,043,451	10.0	204,345	484,257	9.9	202,302	487,640	11.3	230,910	544,192
2022	2,114,972	10.0	211,497	488,547	9.9	209,382	491,960	11.3	238,992	549,013
2023	2,188,996	10.0	218,900	492,070	9.9	216,711	495,508	11.3	247,357	552,972
2024	2,265,611	10.0	226,561	494,732	9.9	224,295	498,189	11.3	256,014	555,963
2025	2,344,907	10.0	234,491	496,431	9.9	232,146	499,900	11.3	264,974	557,873

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	12.1%	\$208,184	\$ 539,458	12.9%	\$221,949	\$ 565,967	14.3%	\$246,036	\$ 621,419
2017	1,780,750	12.1	215,471	547,741	12.9	229,717	574,657	14.3	254,647	630,960
2018	1,843,076	12.1	223,012	555,545	12.9	237,757	582,845	14.3	263,560	639,950
2019	1,907,584	12.1	230,818	562,798	12.9	246,078	590,455	14.3	272,785	648,305
2020	1,974,349	12.1	238,896	569,421	12.9	254,691	597,404	14.3	282,332	655,935
2021	2,043,451	12.1	247,258	575,328	12.9	263,605	603,602	14.3	292,213	662,740
2022	2,114,972	12.1	255,912	580,425	12.9	272,831	608,950	14.3	302,441	668,612
2023	2,188,996	12.1	264,869	584,610	12.9	282,380	613,341	14.3	313,026	673,433
2024	2,265,611	12.1	274,139	587,773	12.9	292,264	616,659	14.3	323,982	677,076
2025	2,344,907	12.1	283,734	589,792	12.9	302,493	618,777	14.3	335,322	679,402

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)  
(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	9.1%	\$156,568	\$ 296,418	11.2%	\$192,700	\$ 370,558	12.1%	\$208,184	\$ 397,961
2017	1,780,750	9.1	162,048	300,969	11.2	199,444	376,247	12.1	215,471	404,071
2018	1,843,076	9.1	167,720	305,257	11.2	206,425	381,608	12.1	223,012	409,828
2019	1,907,584	9.1	173,590	309,242	11.2	213,649	386,590	12.1	230,818	415,179
2020	1,974,349	9.1	179,666	312,881	11.2	221,127	391,140	12.1	238,896	420,065
2021	2,043,451	9.1	185,954	316,127	11.2	228,867	395,198	12.1	247,258	424,423
2022	2,114,972	9.1	192,462	318,928	11.2	236,877	398,699	12.1	255,912	428,183
2023	2,188,996	9.1	199,199	321,228	11.2	245,168	401,574	12.1	264,869	431,271
2024	2,265,611	9.1	206,171	322,966	11.2	253,748	403,746	12.1	274,139	433,604
2025	2,344,907	9.1	213,387	324,075	11.2	262,630	405,133	12.1	283,734	435,093

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	13.4%	\$230,551	\$ 446,700	13.2%	\$227,110	\$ 444,650	14.8%	\$254,639	\$ 495,387
2017	1,780,750	13.4	238,621	453,559	13.2	235,059	451,477	14.8	263,551	502,993
2018	1,843,076	13.4	246,972	460,021	13.2	243,286	457,910	14.8	272,775	510,160
2019	1,907,584	13.4	255,616	466,027	13.2	251,801	463,889	14.8	282,322	516,821
2020	1,974,349	13.4	264,563	471,511	13.2	260,614	469,348	14.8	292,204	522,903
2021	2,043,451	13.4	273,822	476,403	13.2	269,736	474,217	14.8	302,431	528,328
2022	2,114,972	13.4	283,406	480,624	13.2	279,176	478,419	14.8	313,016	533,009
2023	2,188,996	13.4	293,325	484,090	13.2	288,947	481,869	14.8	323,971	536,853
2024	2,265,611	13.4	303,592	486,709	13.2	299,061	484,476	14.8	335,310	539,757
2025	2,344,907	13.4	314,218	488,381	13.2	309,528	486,140	14.8	347,046	541,611

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	15.5%	\$266,682	\$ 518,776	16.2%	\$278,726	\$ 544,131	17.6%	\$302,814	\$ 592,806
2017	1,780,750	15.5	276,016	526,741	16.2	288,482	552,485	17.6	313,412	601,908
2018	1,843,076	15.5	285,677	534,246	16.2	298,578	560,357	17.6	324,381	610,484
2019	1,907,584	15.5	295,676	541,221	16.2	309,029	567,673	17.6	335,735	618,455
2020	1,974,349	15.5	306,024	547,590	16.2	319,845	574,354	17.6	347,485	625,733
2021	2,043,451	15.5	316,735	553,271	16.2	331,039	580,312	17.6	359,647	632,224
2022	2,114,972	15.5	327,821	558,173	16.2	342,625	585,454	17.6	372,235	637,825
2023	2,188,996	15.5	339,294	562,198	16.2	354,617	589,676	17.6	385,263	642,424
2024	2,265,611	15.5	351,170	565,239	16.2	367,029	592,866	17.6	398,748	645,899
2025	2,344,907	15.5	363,461	567,181	16.2	379,875	594,903	17.6	412,704	648,118

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid-County Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)  
(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	9.4%	\$161,730	\$ 306,704	11.5%	\$197,861	\$ 383,431	12.4%	\$213,346	\$ 412,108
2017	1,780,750	9.4	167,391	311,413	11.5	204,786	389,318	12.4	220,813	418,435
2018	1,843,076	9.4	173,249	315,850	11.5	211,954	394,865	12.4	228,541	424,397
2019	1,907,584	9.4	179,313	319,974	11.5	219,372	400,020	12.4	236,540	429,938
2020	1,974,349	9.4	185,589	323,740	11.5	227,050	404,728	12.4	244,819	434,998
2021	2,043,451	9.4	192,084	327,099	11.5	234,997	408,927	12.4	253,388	439,511
2022	2,114,972	9.4	198,807	329,997	11.5	243,222	412,550	12.4	262,257	443,405
2023	2,188,996	9.4	205,766	332,377	11.5	251,735	415,525	12.4	271,436	446,602
2024	2,265,611	9.4	212,967	334,175	11.5	260,545	417,773	12.4	280,936	449,018
2025	2,344,907	9.4	220,421	335,323	11.5	269,664	419,208	12.4	290,768	450,560

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	13.9%	\$239,154	\$ 462,437	13.8%	\$237,433	\$ 460,166	15.2%	\$261,521	\$ 512,820
2017	1,780,750	13.9	247,524	469,537	13.8	245,744	467,231	15.2	270,674	520,694
2018	1,843,076	13.9	256,188	476,227	13.8	254,344	473,888	15.2	280,148	528,113
2019	1,907,584	13.9	265,154	482,445	13.8	263,247	480,075	15.2	289,953	535,008
2020	1,974,349	13.9	274,435	488,123	13.8	272,460	485,725	15.2	300,101	541,304
2021	2,043,451	13.9	284,040	493,187	13.8	281,996	490,764	15.2	310,605	546,920
2022	2,114,972	13.9	293,981	497,557	13.8	291,866	495,112	15.2	321,476	551,766
2023	2,188,996	13.9	304,270	501,145	13.8	302,081	498,682	15.2	332,727	555,745
2024	2,265,611	13.9	314,920	503,856	13.8	312,654	501,380	15.2	344,373	558,751
2025	2,344,907	13.9	325,942	505,587	13.8	323,597	503,102	15.2	356,426	560,670

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2016	\$ 1,720,532	16.0%	\$275,285	\$ 536,777	16.8%	\$289,049	\$ 563,120	18.2%	\$313,137	\$ 613,435
2017	1,780,750	16.0	284,920	545,019	16.8	299,166	571,766	18.2	324,097	622,854
2018	1,843,076	16.0	294,892	552,784	16.8	309,637	579,913	18.2	335,440	631,728
2019	1,907,584	16.0	305,213	560,001	16.8	320,474	587,484	18.2	347,180	639,976
2020	1,974,349	16.0	315,896	566,591	16.8	331,691	594,398	18.2	359,332	647,508
2021	2,043,451	16.0	326,952	572,469	16.8	343,300	600,564	18.2	371,908	654,225
2022	2,114,972	16.0	338,396	577,541	16.8	355,315	605,885	18.2	384,925	660,021
2023	2,188,996	16.0	350,239	581,706	16.8	367,751	610,254	18.2	398,397	664,780
2024	2,265,611	16.0	362,498	584,853	16.8	380,623	613,555	18.2	412,341	668,376
2025	2,344,907	16.0	375,185	586,862	16.8	393,944	615,663	18.2	426,773	670,672

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.50%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.