



**THE INITIAL ACTUARIAL VALUATION FOR
CENTRAL COUNTY FIRE AND RESCUE
AS OF APRIL 30, 2017**

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October 16, 2017

Central County Fire and Rescue
St. Peters, 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, 2017.

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, 2017. 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.

Central County Fire and Rescue

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	2.70%	3.10%	0.20%	6.00%
	Fire	6.10	3.90	0.60	10.60
L-3	General	3.50	4.50	0.30	8.30
	Fire	7.70	5.50	0.70	13.90
LT-4(65)	General	3.00	3.80	0.20	7.00
	Fire	8.00	5.70	0.60	14.30
LT-5(65)	General	3.70	5.00	0.30	9.00
	Fire	9.10	6.90	0.70	16.70
L-7	General	4.30	5.90	0.30	10.50
	Fire	9.30	7.20	0.80	17.30
LT-8(65)	General	4.40	6.20	0.30	10.90
	Fire	10.20	8.10	0.80	19.10
L-12	General	5.00	7.30	0.40	12.70
	Fire	10.90	8.80	0.90	20.60
LT-14(65)	General	5.10	7.50	0.40	13.00
	Fire	11.30	9.30	0.90	21.50
L-6	General	5.80	8.70	0.50	15.00
	Fire	12.40	10.60	1.00	24.00

* It was assumed that service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	2.80%	3.30%	0.20%	6.30%
	Fire	6.30	4.10	0.60	11.00
L-3	General	3.60	4.70	0.30	8.60
	Fire	8.00	5.80	0.70	14.50
LT-4(65)	General	3.10	4.00	0.20	7.30
	Fire	8.30	6.00	0.60	14.90
LT-5(65)	General	3.80	5.30	0.30	9.40
	Fire	9.40	7.20	0.70	17.30
L-7	General	4.40	6.20	0.30	10.90
	Fire	9.60	7.60	0.80	18.00
LT-8(65)	General	4.60	6.50	0.30	11.40
	Fire	10.60	8.50	0.80	19.90
L-12	General	5.20	7.70	0.40	13.30
	Fire	11.20	9.30	0.90	21.40
LT-14(65)	General	5.30	7.80	0.40	13.50
	Fire	11.70	9.80	0.90	22.40
L-6	General	6.00	9.20	0.50	15.70
	Fire	12.90	11.00	1.00	24.90

* It was assumed that service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	3.00%	6.70%	0.20%	9.90%
	Fire	6.20	7.70	0.60	14.50
L-3	General	3.70	8.10	0.30	12.10
	Fire	7.70	9.40	0.70	17.80
LT-4(65)	General	3.30	7.30	0.20	10.80
	Fire	8.00	9.50	0.60	18.10
LT-5(65)	General	3.90	8.60	0.30	12.80
	Fire	9.10	10.80	0.70	20.60
L-7	General	4.50	9.60	0.30	14.40
	Fire	9.30	11.10	0.80	21.20
LT-8(65)	General	4.60	9.90	0.30	14.80
	Fire	10.20	12.00	0.80	23.00
L-12	General	5.20	11.00	0.40	16.60
	Fire	10.80	12.80	0.90	24.50
LT-14(65)	General	5.30	11.20	0.40	16.90
	Fire	11.30	13.20	0.90	25.40
L-6	General	6.00	12.40	0.50	18.90
	Fire	12.40	14.50	1.00	27.90

* It was assumed that service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	3.10%	6.90%	0.20%	10.20%
	Fire	6.40	7.90	0.60	14.90
L-3	General	3.80	8.40	0.30	12.50
	Fire	8.00	9.70	0.70	18.40
LT-4(65)	General	3.40	7.60	0.20	11.20
	Fire	8.30	9.80	0.60	18.70
LT-5(65)	General	4.10	8.90	0.30	13.30
	Fire	9.40	11.10	0.70	21.20
L-7	General	4.60	9.90	0.30	14.80
	Fire	9.60	11.50	0.80	21.90
LT-8(65)	General	4.80	10.20	0.30	15.30
	Fire	10.60	12.40	0.80	23.80
L-12	General	5.40	11.40	0.40	17.20
	Fire	11.20	13.20	0.90	25.30
LT-14(65)	General	5.50	11.50	0.40	17.40
	Fire	11.70	13.70	0.90	26.30
L-6	General	6.20	12.90	0.50	19.60
	Fire	12.80	15.00	1.00	28.80

* It was assumed that service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	2.80%	3.50%	0.20%	6.50%
	Fire	6.70	4.30	0.60	11.60
L-3	General	3.60	5.00	0.30	8.90
	Fire	8.40	6.10	0.70	15.20
LT-4(65)	General	3.30	4.60	0.20	8.10
	Fire	9.50	6.70	0.60	16.80
LT-5(65)	General	4.00	5.80	0.30	10.10
	Fire	10.50	7.90	0.70	19.10
L-7	General	4.40	6.40	0.30	11.10
	Fire	10.10	7.90	0.80	18.80
LT-8(65)	General	4.60	7.10	0.30	12.00
	Fire	11.50	9.10	0.80	21.40
L-12	General	5.20	7.90	0.40	13.50
	Fire	11.80	9.70	0.90	22.40
LT-14(65)	General	5.30	8.20	0.40	13.90
	Fire	12.50	10.30	0.90	23.70
L-6	General	6.00	9.50	0.50	16.00
	Fire	13.50	11.50	1.00	26.00

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 service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	2.90%	3.70%	0.20%	6.80%
	Fire	6.90	4.60	0.60	12.10
L-3	General	3.80	5.20	0.30	9.30
	Fire	8.70	6.40	0.70	15.80
LT-4(65)	General	3.40	4.80	0.20	8.40
	Fire	9.80	7.20	0.60	17.60
LT-5(65)	General	4.10	6.10	0.30	10.50
	Fire	10.90	8.30	0.70	19.90
L-7	General	4.60	6.70	0.30	11.60
	Fire	10.50	8.30	0.80	19.60
LT-8(65)	General	4.80	7.30	0.30	12.40
	Fire	11.90	9.60	0.80	22.30
L-12	General	5.40	8.30	0.40	14.10
	Fire	12.20	10.20	0.90	23.30
LT-14(65)	General	5.50	8.60	0.40	14.50
	Fire	13.00	10.70	0.90	24.60
L-6	General	6.20	9.90	0.50	16.60
	Fire	14.00	12.10	1.00	27.10

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 service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	3.10%	7.00%	0.20%	10.30%
	Fire	6.70	8.20	0.60	15.50
L-3	General	3.90	8.60	0.30	12.80
	Fire	8.40	10.00	0.70	19.10
LT-4(65)	General	3.50	8.10	0.20	11.80
	Fire	9.50	10.60	0.60	20.70
LT-5(65)	General	4.20	9.40	0.30	13.90
	Fire	10.50	11.80	0.70	23.00
L-7	General	4.60	10.10	0.30	15.00
	Fire	10.10	11.80	0.80	22.70
LT-8(65)	General	4.90	10.70	0.30	15.90
	Fire	11.50	13.00	0.80	25.30
L-12	General	5.40	11.60	0.40	17.40
	Fire	11.80	13.60	0.90	26.30
LT-14(65)	General	5.50	11.90	0.40	17.80
	Fire	12.50	14.20	0.90	27.60
L-6	General	6.20	13.20	0.50	19.90
	Fire	13.50	15.40	1.00	29.90

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 service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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	3.20%	7.30%	0.20%	10.70%
	Fire	7.00	8.40	0.60	16.00
L-3	General	4.00	8.80	0.30	13.10
	Fire	8.70	10.30	0.70	19.70
LT-4(65)	General	3.70	8.40	0.20	12.30
	Fire	9.90	11.00	0.60	21.50
LT-5(65)	General	4.30	9.70	0.30	14.30
	Fire	10.90	12.20	0.70	23.80
L-7	General	4.80	10.40	0.30	15.50
	Fire	10.50	12.20	0.80	23.50
LT-8(65)	General	5.00	11.00	0.30	16.30
	Fire	11.90	13.50	0.80	26.20
L-12	General	5.60	12.00	0.40	18.00
	Fire	12.20	14.10	0.90	27.20
LT-14(65)	General	5.70	12.30	0.40	18.40
	Fire	12.90	14.70	0.90	28.50
L-6	General	6.40	13.60	0.50	20.50
	Fire	14.00	16.00	1.00	31.00

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 service accrued from February 3rd, 2006 to the membership date would be given for vesting purposes only.

Central County Fire and Rescue

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

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 24,685	\$ 789,540
L-3	33,697	1,040,758
LT-4(65)	28,603	1,069,468
LT-5(65)	36,831	1,241,732
L-7	42,709	1,291,975
LT-8(65)	44,668	1,428,350
L-12	52,112	1,536,015
LT-14(65)	52,896	1,607,791
L-6	61,516	1,787,232

Non-Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 39,966	\$ 1,069,468
L-3	48,978	1,320,686
LT-4(65)	43,884	1,342,219
LT-5(65)	52,112	1,521,660
L-7	57,990	1,571,903
LT-8(65)	59,949	1,708,278
L-12	67,393	1,815,943
LT-14(65)	68,177	1,887,719
L-6	76,797	2,067,160

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.

Central County Fire and Rescue

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

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 26,644	\$ 868,494
L-3	36,439	1,134,067
LT-4(65)	32,913	1,263,265
LT-5(65)	41,141	1,428,350
L-7	45,451	1,406,817
LT-8(65)	48,586	1,600,614
L-12	55,247	1,672,390
LT-14(65)	56,814	1,765,699
L-6	65,042	1,945,141

Non-Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 41,925	\$ 1,148,422
L-3	51,329	1,413,995
LT-4(65)	48,194	1,543,193
LT-5(65)	56,031	1,708,278
L-7	60,732	1,686,745
LT-8(65)	63,867	1,880,542
L-12	70,528	1,952,318
LT-14(65)	72,095	2,045,627
L-6	80,323	2,225,068

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.

Central County Fire and Rescue

Employees and Payroll Included in the Valuation

	General	Fire
Number of Employees	5	78
Annual Payroll	\$ 391,822	\$ 7,177,640

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:

Central County Fire and Rescue
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	\$ 187,937	\$ 195,086	\$ 205,550	\$ 212,337
	Fire	7,750,015	8,021,176	7,831,225	8,094,378
L-3	General	\$ 241,214	\$ 250,147	\$ 256,953	\$ 265,449
	Fire	9,745,372	10,083,029	9,788,948	10,117,866
LT-4(65)	General	207,239	215,049	224,710	232,136
	Fire	10,092,112	10,446,126	10,161,747	10,507,514
LT-5(65)	General	255,662	265,089	271,325	280,306
	Fire	11,502,003	11,901,802	11,536,930	11,927,661
L-7	General	294,237	304,908	308,343	318,537
	Fire	11,736,742	12,140,758	11,746,814	12,141,399
LT-8(65)	General	303,911	314,864	317,935	328,432
	Fire	12,907,904	13,353,294	12,912,094	13,347,966
L-12	General	346,985	359,264	359,711	371,614
	Fire	13,725,530	14,196,028	13,704,488	14,165,074
LT-14(65)	General	351,825	364,253	364,503	376,576
	Fire	14,311,067	14,802,287	14,287,208	14,768,372
L-6	General	399,522	413,486	411,128	424,699
	Fire	15,712,937	16,250,002	15,662,353	16,188,626

Central County Fire and Rescue

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	\$ 195,322	\$ 202,740	\$ 212,644	\$ 219,764
	Fire	8,457,621	8,762,792	8,531,905	8,830,815
L-3	General	\$ 249,962	\$ 259,243	\$ 265,815	\$ 274,718
	Fire	10,619,709	11,000,033	10,664,850	11,038,442
LT-4(65)	General	227,852	236,408	245,007	253,254
	Fire	11,982,192	12,414,922	12,042,645	12,468,743
LT-5(65)	General	274,368	284,496	290,091	299,845
	Fire	13,263,137	13,739,205	13,297,912	13,766,934
L-7	General	304,470	315,474	318,949	329,667
	Fire	12,778,361	13,233,682	12,797,845	13,246,063
LT-8(65)	General	320,745	332,307	335,129	346,419
	Fire	14,540,601	15,059,813	14,553,307	15,065,017
L-12	General	358,620	371,363	372,128	384,646
	Fire	14,934,973	15,465,612	14,930,677	15,453,828
LT-14(65)	General	366,772	379,789	380,212	393,020
	Fire	15,816,111	16,378,637	15,808,393	16,363,352
L-6	General	412,605	427,108	425,297	439,547
	Fire	17,090,445	17,696,499	17,063,643	17,661,445

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, net of investment expenses, 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. The price inflation rate used in making the valuations was 2.50% and the wage inflation rate used in making the valuations was 3.25%. The 7.25% investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.00%. Adopted 2011 and 2016.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The pre-retirement mortality tables used were the RP-2014 employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. For both the post-retirement and pre-retirement tables, the base year for males was then established to be 2017. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to the above described tables. Adopted 2016.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2016.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2016.
5. Post-retirement cost of living allowances are assumed to be 2.50% per year. Adopted 2016.
6. Total active member payroll is assumed to increase 3.25% 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 2016.
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.

Schedule 1.

**Separations From Active Employment (Not Including Death-In-Service)
Before Age & Service Retirement and Individual Pay Increase Assumptions**

		Percent of Active Members Separating Within Next Year							
Sample Ages	Years of Service	General Members				Police		Fire	
		Men		Women		Disability	Withdrawal	Disability	Withdrawal
		Disability	Withdrawal	Disability	Withdrawal	Disability	Withdrawal	Disability	Withdrawal
All	0		19.00%		22.00%		18.00%		10.00%
	1		17.00		20.00		17.00		8.00
	2		15.00		17.00		16.00		7.00
	3		13.00		14.00		13.00		6.00
	4		11.00		13.00		12.00		6.00
25	5 & Over	0.09%	7.30	0.02%	10.80	0.10%	9.80	0.06%	5.00
30		0.12	6.50	0.03	8.90	0.11	7.80	0.10	4.00
35		0.15	5.00	0.06	7.40	0.16	6.10	0.23	2.80
40		0.21	3.70	0.10	5.70	0.22	4.40	0.35	2.20
45		0.30	3.00	0.16	4.20	0.34	3.20	0.56	1.80
50		0.44	2.40	0.24	3.30	0.53	1.80	0.85	1.00
55		0.68	1.80	0.34	2.50	0.88	1.00	1.31	0.50
60	1.02	1.00	0.48	1.20		0.00		0.00	
65			0.00		0.00		0.00		0.00

Sample Ages	Percent Increase in Individual's Pay During Next Year	
	General & Police	Fire
25	6.55%	7.15%
30	5.75	6.05
35	5.25	5.15
40	4.75	4.45
45	4.25	4.15
50	3.85	3.85
55	3.65	3.65
60	3.55	3.25
65	3.25	3.25

Schedule 2.

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

Early Retirement

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

Normal Retirement

Retirement Ages	General Members		Retirement Ages	Police	Fire
	Men	Women			
60	10%	10%	55	10%	13%
61	10	10	56	10	13
62	25	15	57	10	13
63	20	15	58	10	13
64	20	15	59	10	13
65	25	25	60	10	15
66	25	25	61	10	15
67	20	25	62	25	20
68	20	25	63	20	20
69	20	20	64	20	20
70	100	100	65	100	100

Schedule 2. (Continued)

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

Retirement Ages	General Members		Police	Fire
	Men	Women		
50	15%	15%	25%	25%
51	15	15	25	20
52	15	15	15	20
53	15	15	15	20
54	15	15	15	20
55	15	15	15	20
56	15	15	15	20
57	15	15	15	25
58	15	15	15	25
59	15	15	15	25
60	15	15	15	35
61	15	15	25	35
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, 2017
(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 ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 875	\$1,400	93%
2,000	700	1,016	1,716	86%
2,500	875	1,157	2,032	81%
3,000	1,050	1,297	2,347	78%
3,500	1,225	1,438	2,663	76%
4,000	1,400	1,579	2,979	74%
25 Years of Service:				
\$1,500	\$ 375	\$ 875	\$1,250	83%
2,000	500	1,016	1,516	76%
2,500	625	1,157	1,782	71%
3,000	750	1,297	2,047	68%
3,500	875	1,438	2,313	66%
4,000	1,000	1,579	2,579	64%
15 Years of Service:				
\$1,500	\$225	\$ 875	\$1,100	73%
2,000	300	1,016	1,316	66%
2,500	375	1,157	1,532	61%
3,000	450	1,297	1,747	58%
3,500	525	1,438	1,963	56%
4,000	600	1,579	2,179	54%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 656	\$ 875	\$1,531	102%
2,000	875	1,016	1,891	95%
2,500	1,094	1,157	2,251	90%
3,000	1,313	1,297	2,610	87%
3,500	1,531	1,438	2,969	85%
4,000	1,750	1,579	3,329	83%
25 Years of Service:				
\$1,500	\$ 469	\$ 875	\$1,344	90%
2,000	625	1,016	1,641	82%
2,500	781	1,157	1,938	78%
3,000	938	1,297	2,235	75%
3,500	1,094	1,438	2,532	72%
4,000	1,250	1,579	2,829	71%
15 Years of Service:				
\$1,500	\$281	\$ 875	\$1,156	77%
2,000	375	1,016	1,391	70%
2,500	469	1,157	1,626	65%
3,000	563	1,297	1,860	62%
3,500	656	1,438	2,094	60%
4,000	750	1,579	2,329	58%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 788	\$ 875	\$1,663	111%
2,000	1,050	1,016	2,066	103%
2,500	1,313	1,157	2,470	99%
3,000	1,575	1,297	2,872	96%
3,500	1,838	1,438	3,276	94%
4,000	2,100	1,579	3,679	92%
25 Years of Service:				
\$1,500	\$ 563	\$ 875	\$1,438	96%
2,000	750	1,016	1,766	88%
2,500	938	1,157	2,095	84%
3,000	1,125	1,297	2,422	81%
3,500	1,313	1,438	2,751	79%
4,000	1,500	1,579	3,079	77%
15 Years of Service:				
\$1,500	\$338	\$ 875	\$1,213	81%
2,000	450	1,016	1,466	73%
2,500	563	1,157	1,720	69%
3,000	675	1,297	1,972	66%
3,500	788	1,438	2,226	64%
4,000	900	1,579	2,479	62%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 875	\$1,794	120%
2,000	1,225	1,016	2,241	112%
2,500	1,531	1,157	2,688	108%
3,000	1,838	1,297	3,135	105%
3,500	2,144	1,438	3,582	102%
4,000	2,450	1,579	4,029	101%
25 Years of Service:				
\$1,500	\$ 656	\$ 875	\$1,531	102%
2,000	875	1,016	1,891	95%
2,500	1,094	1,157	2,251	90%
3,000	1,313	1,297	2,610	87%
3,500	1,531	1,438	2,969	85%
4,000	1,750	1,579	3,329	83%
15 Years of Service:				
\$1,500	\$ 394	\$ 875	\$1,269	85%
2,000	525	1,016	1,541	77%
2,500	656	1,157	1,813	73%
3,000	788	1,297	2,085	70%
3,500	919	1,438	2,357	67%
4,000	1,050	1,579	2,629	66%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 ¹)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 875	\$1,925	128%
2,000	1,400	1,016	2,416	121%
2,500	1,750	1,157	2,907	116%
3,000	2,100	1,297	3,397	113%
3,500	2,450	1,438	3,888	111%
4,000	2,800	1,579	4,379	109%
25 Years of Service:				
\$1,500	\$ 750	\$ 875	\$1,625	108%
2,000	1,000	1,016	2,016	101%
2,500	1,250	1,157	2,407	96%
3,000	1,500	1,297	2,797	93%
3,500	1,750	1,438	3,188	91%
4,000	2,000	1,579	3,579	89%
15 Years of Service:				
\$1,500	\$ 450	\$ 875	\$1,325	88%
2,000	600	1,016	1,616	81%
2,500	750	1,157	1,907	76%
3,000	900	1,297	2,197	73%
3,500	1,050	1,438	2,488	71%
4,000	1,200	1,579	2,779	69%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 FAS¹ to age 65)
1.00% of FAS¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	1,016	1,400	1,716	70%	86%
2,500	1,750	875	1,157	1,750	2,032	70%	81%
3,000	2,100	1,050	1,297	2,100	2,347	70%	78%
3,500	2,450	1,225	1,438	2,450	2,663	70%	76%
4,000	2,800	1,400	1,579	2,800	2,979	70%	74%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 875	\$ 750	\$1,250	50%	83%
2,000	1,000	500	1,016	1,000	1,516	50%	76%
2,500	1,250	625	1,157	1,250	1,782	50%	71%
3,000	1,500	750	1,297	1,500	2,047	50%	68%
3,500	1,750	875	1,438	1,750	2,313	50%	66%
4,000	2,000	1,000	1,579	2,000	2,579	50%	64%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 875	\$ 450	\$1,100	30%	73%
2,000	600	300	1,016	600	1,316	30%	66%
2,500	750	375	1,157	750	1,532	30%	61%
3,000	900	450	1,297	900	1,747	30%	58%
3,500	1,050	525	1,438	1,050	1,963	30%	56%
4,000	1,200	600	1,579	1,200	2,179	30%	54%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 FAS¹ to age 65)
1.25% of FAS¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	1,016	1,400	1,891	70%	95%
2,500	1,750	1,094	1,157	1,750	2,251	70%	90%
3,000	2,100	1,313	1,297	2,100	2,610	70%	87%
3,500	2,450	1,531	1,438	2,450	2,969	70%	85%
4,000	2,800	1,750	1,579	2,800	3,329	70%	83%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 875	\$ 750	\$1,344	50%	90%
2,000	1,000	625	1,016	1,000	1,641	50%	82%
2,500	1,250	781	1,157	1,250	1,938	50%	78%
3,000	1,500	938	1,297	1,500	2,235	50%	75%
3,500	1,750	1,094	1,438	1,750	2,532	50%	72%
4,000	2,000	1,250	1,579	2,000	2,829	50%	71%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 875	\$ 450	\$1,156	30%	77%
2,000	600	375	1,016	600	1,391	30%	70%
2,500	750	469	1,157	750	1,626	30%	65%
3,000	900	563	1,297	900	1,860	30%	62%
3,500	1,050	656	1,438	1,050	2,094	30%	60%
4,000	1,200	750	1,579	1,200	2,329	30%	58%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 FAS¹ to age 65)
1.50% of FAS¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	1,016	1,400	2,066	70%	103%
2,500	1,750	1,313	1,157	1,750	2,470	70%	99%
3,000	2,100	1,575	1,297	2,100	2,872	70%	96%
3,500	2,450	1,838	1,438	2,450	3,276	70%	94%
4,000	2,800	2,100	1,579	2,800	3,679	70%	92%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 875	\$ 750	\$1,438	50%	96%
2,000	1,000	750	1,016	1,000	1,766	50%	88%
2,500	1,250	938	1,157	1,250	2,095	50%	84%
3,000	1,500	1,125	1,297	1,500	2,422	50%	81%
3,500	1,750	1,313	1,438	1,750	2,751	50%	79%
4,000	2,000	1,500	1,579	2,000	3,079	50%	77%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 875	\$ 450	\$1,213	30%	81%
2,000	600	450	1,016	600	1,466	30%	73%
2,500	750	563	1,157	750	1,720	30%	69%
3,000	900	675	1,297	900	1,972	30%	66%
3,500	1,050	788	1,438	1,050	2,226	30%	64%
4,000	1,200	900	1,579	1,200	2,479	30%	62%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

³ 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 FAS¹ to age 65)
1.75% of FAS¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	1,016	1,400	2,241	70%	112%
2,500	1,750	1,531	1,157	1,750	2,688	70%	108%
3,000	2,100	1,838	1,297	2,100	3,135	70%	105%
3,500	2,450	2,144	1,438	2,450	3,582	70%	102%
4,000	2,800	2,450	1,579	2,800	4,029	70%	101%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 875	\$ 750	\$1,531	50%	102%
2,000	1,000	875	1,016	1,000	1,891	50%	95%
2,500	1,250	1,094	1,157	1,250	2,251	50%	90%
3,000	1,500	1,313	1,297	1,500	2,610	50%	87%
3,500	1,750	1,531	1,438	1,750	2,969	50%	85%
4,000	2,000	1,750	1,579	2,000	3,329	50%	83%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 875	\$ 450	\$1,269	30%	85%
2,000	600	525	1,016	600	1,541	30%	77%
2,500	750	656	1,157	750	1,813	30%	73%
3,000	900	788	1,297	900	2,085	30%	70%
3,500	1,050	919	1,438	1,050	2,357	30%	67%
4,000	1,200	1,050	1,579	1,200	2,629	30%	66%

¹ "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.

² "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 2017 - it does not include any amounts which might be payable to an eligible spouse or children.

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

APPENDIX V

**AGE AND SERVICE
CHARACTERISTICS OF
EMPLOYEES**

Central County Fire and Rescue - General

April 30, 2017

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
Under 20									
20-24									
25-29									
30-34		1						1	\$ 66,254
35-39			1					1	\$ 89,489
40-44									
45-49									
50-54			2					2	\$ 158,904
55-59									
60-64					1			1	\$ 77,175
65-69									
70 & Over									
Totals		1	3		1			5	\$ 391,822

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

Age: 47.1 years.

Benefit Service: 2.7 years.

Annual Pay: \$78,364.

Central County Fire and Rescue - Fire

April 30, 2017

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
Under 20									
20-24	1							1	\$ 72,657
25-29	1	1						2	\$ 149,919
30-34	5	3						8	\$ 600,302
35-39	4	1	1					6	\$ 472,755
40-44	1	2		3	2			8	\$ 718,953
45-49		1	2	13	6	3		25	\$ 2,365,460
50-54				4	3	9	3	19	\$ 1,884,068
55-59				2	1	2	2	7	\$ 708,845
60-64				1				1	\$ 92,526
65-69						1		1	\$ 112,155
70 & Over									
Totals	12	8	3	23	12	15	5	78	\$ 7,177,640

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

Age: 45.8 years.

Benefit Service: 8.4 years.

Annual Pay: \$92,021.



Gabriel Roeder Smith & Company
Consultants & Actuaries

One Towne Square
Suite 800
Southfield, MI 48076-3723

248.799.9000 phone
248.799.9020 fax
www.gabrielroeder.com

October 16, 2017 E-mail

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

Dear Bob:

Enclosed is the report of the April 30, 2017 Initial Actuarial
Valuation of LAGERS benefits for the employees of

Central County Fire and Rescue

Sincerely,

Mita D. Drazilov

MDD:adh

October 16, 2017

Central County Fire and Rescue
St. Peters, Missouri

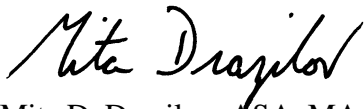
Ladies and Gentlemen:

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, 2017 Initial Valuation for the Central County Fire and Rescue dated October 16, 2017.

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, 2017.

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

Central County Fire and Rescue - 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
2017	\$ 391,822	6.0%	\$23,509	\$ 187,937	8.3%	\$32,521	\$ 241,214	7.0%	\$27,428	\$ 207,239
2018	404,556	6.0	24,273	190,512	8.3	33,578	244,519	7.0	28,319	210,078
2019	417,704	6.0	25,062	192,914	8.3	34,669	247,602	7.0	29,239	212,727
2020	431,279	6.0	25,877	195,120	8.3	35,796	250,433	7.0	30,190	215,159
2021	445,296	6.0	26,718	197,103	8.3	36,960	252,978	7.0	31,171	217,345
2022	459,768	6.0	27,586	198,834	8.3	38,161	255,200	7.0	32,184	219,254
2023	474,710	6.0	28,483	200,282	8.3	39,401	257,059	7.0	33,230	220,851
2024	490,138	6.0	29,408	201,414	8.3	40,681	258,512	7.0	34,310	222,099
2025	506,067	6.0	30,364	202,193	8.3	42,004	259,512	7.0	35,425	222,958
2026	522,514	6.0	31,351	202,579	8.3	43,369	260,008	7.0	36,576	223,384

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
2017	\$ 391,822	9.0%	\$35,264	\$ 255,662	10.5%	\$41,141	\$ 294,237	10.9%	\$42,709	\$ 303,911
2018	404,556	9.0	36,410	259,165	10.5	42,478	298,268	10.9	44,097	308,075
2019	417,704	9.0	37,593	262,433	10.5	43,859	302,029	10.9	45,530	311,960
2020	431,279	9.0	38,815	265,433	10.5	45,284	305,482	10.9	47,009	315,527
2021	445,296	9.0	40,077	268,130	10.5	46,756	308,586	10.9	48,537	318,733
2022	459,768	9.0	41,379	270,485	10.5	48,276	311,296	10.9	50,115	321,532
2023	474,710	9.0	42,724	272,455	10.5	49,845	313,564	10.9	51,743	323,874
2024	490,138	9.0	44,112	273,995	10.5	51,464	315,336	10.9	53,425	325,704
2025	506,067	9.0	45,546	275,055	10.5	53,137	316,555	10.9	55,161	326,964
2026	522,514	9.0	47,026	275,580	10.5	54,864	317,159	10.9	56,954	327,588

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
2017	\$ 391,822	12.7%	\$49,761	\$ 346,985	13.0%	\$50,937	\$ 351,825	15.0%	\$58,773	\$ 399,522
2018	404,556	12.7	51,379	351,739	13.0	52,592	356,645	15.0	60,683	404,995
2019	417,704	12.7	53,048	356,174	13.0	54,302	361,142	15.0	62,656	410,102
2020	431,279	12.7	54,772	360,246	13.0	56,066	365,271	15.0	64,692	414,791
2021	445,296	12.7	56,553	363,906	13.0	57,888	368,982	15.0	66,794	419,006
2022	459,768	12.7	58,391	367,102	13.0	59,770	372,223	15.0	68,965	422,686
2023	474,710	12.7	60,288	369,776	13.0	61,712	374,934	15.0	71,207	425,765
2024	490,138	12.7	62,248	371,866	13.0	63,718	377,053	15.0	73,521	428,171
2025	506,067	12.7	64,271	373,304	13.0	65,789	378,511	15.0	75,910	429,827
2026	522,514	12.7	66,359	374,017	13.0	67,927	379,234	15.0	78,377	430,648

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	6.3%	\$24,685	\$ 195,086	8.6%	\$33,697	\$ 250,147	7.3%	\$28,603	\$ 215,049
2018	404,556	6.3	25,487	197,759	8.6	34,792	253,574	7.3	29,533	217,995
2019	417,704	6.3	26,315	200,253	8.6	35,923	256,771	7.3	30,492	220,744
2020	431,279	6.3	27,171	202,542	8.6	37,090	259,707	7.3	31,483	223,268
2021	445,296	6.3	28,054	204,600	8.6	38,295	262,346	7.3	32,507	225,537
2022	459,768	6.3	28,965	206,397	8.6	39,540	264,650	7.3	33,563	227,518
2023	474,710	6.3	29,907	207,900	8.6	40,825	266,578	7.3	34,654	229,175
2024	490,138	6.3	30,879	209,075	8.6	42,152	268,085	7.3	35,780	230,470
2025	506,067	6.3	31,882	209,884	8.6	43,522	269,122	7.3	36,943	231,361
2026	522,514	6.3	32,918	210,285	8.6	44,936	269,636	7.3	38,144	231,803

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
2017	\$ 391,822	9.4%	\$36,831	\$ 265,089	10.9%	\$42,709	\$ 304,908	11.4%	\$44,668	\$ 314,864
2018	404,556	9.4	38,028	268,721	10.9	44,097	309,085	11.4	46,119	319,178
2019	417,704	9.4	39,264	272,109	10.9	45,530	312,982	11.4	47,618	323,203
2020	431,279	9.4	40,540	275,220	10.9	47,009	316,560	11.4	49,166	326,898
2021	445,296	9.4	41,858	278,016	10.9	48,537	319,777	11.4	50,764	330,220
2022	459,768	9.4	43,218	280,458	10.9	50,115	322,585	11.4	52,414	333,120
2023	474,710	9.4	44,623	282,501	10.9	51,743	324,935	11.4	54,117	335,547
2024	490,138	9.4	46,073	284,098	10.9	53,425	326,771	11.4	55,876	337,443
2025	506,067	9.4	47,570	285,197	10.9	55,161	328,035	11.4	57,692	338,748
2026	522,514	9.4	49,116	285,742	10.9	56,954	328,661	11.4	59,567	339,395

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
2017	\$ 391,822	13.3%	\$52,112	\$ 359,264	13.5%	\$52,896	\$ 364,253	15.7%	\$61,516	\$ 413,486
2018	404,556	13.3	53,806	364,186	13.5	54,615	369,243	15.7	63,515	419,151
2019	417,704	13.3	55,555	368,778	13.5	56,390	373,899	15.7	65,580	424,436
2020	431,279	13.3	57,360	372,994	13.5	58,223	378,174	15.7	67,711	429,289
2021	445,296	13.3	59,224	376,784	13.5	60,115	382,017	15.7	69,911	433,651
2022	459,768	13.3	61,149	380,093	13.5	62,069	385,372	15.7	72,184	437,459
2023	474,710	13.3	63,136	382,862	13.5	64,086	388,179	15.7	74,529	440,646
2024	490,138	13.3	65,188	385,026	13.5	66,169	390,373	15.7	76,952	443,136
2025	506,067	13.3	67,307	386,515	13.5	68,319	391,883	15.7	79,453	444,850
2026	522,514	13.3	69,494	387,253	13.5	70,539	392,631	15.7	82,035	445,699

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	9.9%	\$38,790	\$ 205,550	12.1%	\$47,410	\$ 256,953	10.8%	\$42,317	\$ 224,710
2018	404,556	9.9	40,051	208,366	12.1	48,951	260,473	10.8	43,692	227,788
2019	417,704	9.9	41,353	210,993	12.1	50,542	263,757	10.8	45,112	230,660
2020	431,279	9.9	42,697	213,405	12.1	52,185	266,773	10.8	46,578	233,297
2021	445,296	9.9	44,084	215,573	12.1	53,881	269,484	10.8	48,092	235,668
2022	459,768	9.9	45,517	217,466	12.1	55,632	271,851	10.8	49,655	237,738
2023	474,710	9.9	46,996	219,050	12.1	57,440	273,831	10.8	51,269	239,470
2024	490,138	9.9	48,524	220,288	12.1	59,307	275,379	10.8	52,935	240,823
2025	506,067	9.9	50,101	221,140	12.1	61,234	276,444	10.8	54,655	241,754
2026	522,514	9.9	51,729	221,562	12.1	63,224	276,972	10.8	56,432	242,216

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
2017	\$ 391,822	12.8%	\$50,153	\$ 271,325	14.4%	\$56,422	\$ 308,343	14.8%	\$57,990	\$ 317,935
2018	404,556	12.8	51,783	275,042	14.4	58,256	312,567	14.8	59,874	322,291
2019	417,704	12.8	53,466	278,510	14.4	60,149	316,508	14.8	61,820	326,355
2020	431,279	12.8	55,204	281,694	14.4	62,104	320,127	14.8	63,829	330,086
2021	445,296	12.8	56,998	284,556	14.4	64,123	323,380	14.8	65,904	333,440
2022	459,768	12.8	58,850	287,055	14.4	66,207	326,220	14.8	68,046	336,368
2023	474,710	12.8	60,763	289,146	14.4	68,358	328,596	14.8	70,257	338,818
2024	490,138	12.8	62,738	290,780	14.4	70,580	330,453	14.8	72,540	340,733
2025	506,067	12.8	64,777	291,904	14.4	72,874	331,731	14.8	74,898	342,051
2026	522,514	12.8	66,882	292,461	14.4	75,242	332,364	14.8	77,332	342,704

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
2017	\$ 391,822	16.6%	\$65,042	\$ 359,711	16.9%	\$66,218	\$ 364,503	18.9%	\$74,054	\$ 411,128
2018	404,556	16.6	67,156	364,639	16.9	68,370	369,497	18.9	76,461	416,760
2019	417,704	16.6	69,339	369,237	16.9	70,592	374,156	18.9	78,946	422,015
2020	431,279	16.6	71,592	373,458	16.9	72,886	378,434	18.9	81,512	426,840
2021	445,296	16.6	73,919	377,253	16.9	75,255	382,279	18.9	84,161	431,177
2022	459,768	16.6	76,321	380,566	16.9	77,701	385,636	18.9	86,896	434,964
2023	474,710	16.6	78,802	383,338	16.9	80,226	388,445	18.9	89,720	438,132
2024	490,138	16.6	81,363	385,505	16.9	82,833	390,640	18.9	92,636	440,608
2025	506,067	16.6	84,007	386,996	16.9	85,525	392,151	18.9	95,647	442,312
2026	522,514	16.6	86,737	387,735	16.9	88,305	392,900	18.9	98,755	443,157

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	10.2%	\$39,966	\$ 212,337	12.5%	\$48,978	\$ 265,449	11.2%	\$43,884	\$ 232,136
2018	404,556	10.2	41,265	215,246	12.5	50,570	269,086	11.2	45,310	235,316
2019	417,704	10.2	42,606	217,960	12.5	52,213	272,479	11.2	46,783	238,283
2020	431,279	10.2	43,990	220,452	12.5	53,910	275,594	11.2	48,303	241,007
2021	445,296	10.2	45,420	222,692	12.5	55,662	278,394	11.2	49,873	243,456
2022	459,768	10.2	46,896	224,648	12.5	57,471	280,839	11.2	51,494	245,594
2023	474,710	10.2	48,420	226,284	12.5	59,339	282,885	11.2	53,168	247,383
2024	490,138	10.2	49,994	227,563	12.5	61,267	284,484	11.2	54,895	248,781
2025	506,067	10.2	51,619	228,443	12.5	63,258	285,584	11.2	56,680	249,743
2026	522,514	10.2	53,296	228,879	12.5	65,314	286,129	11.2	58,522	250,220

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
2017	\$ 391,822	13.3%	\$52,112	\$ 280,306	14.8%	\$57,990	\$ 318,537	15.3%	\$59,949	\$ 328,432
2018	404,556	13.3	53,806	284,146	14.8	59,874	322,901	15.3	61,897	332,931
2019	417,704	13.3	55,555	287,729	14.8	61,820	326,973	15.3	63,909	337,129
2020	431,279	13.3	57,360	291,019	14.8	63,829	330,711	15.3	65,986	340,983
2021	445,296	13.3	59,224	293,976	14.8	65,904	334,071	15.3	68,130	344,448
2022	459,768	13.3	61,149	296,558	14.8	68,046	337,005	15.3	70,345	347,473
2023	474,710	13.3	63,136	298,718	14.8	70,257	339,460	15.3	72,631	350,004
2024	490,138	13.3	65,188	300,406	14.8	72,540	341,379	15.3	74,991	351,982
2025	506,067	13.3	67,307	301,568	14.8	74,898	342,699	15.3	77,428	353,343
2026	522,514	13.3	69,494	302,144	14.8	77,332	343,353	15.3	79,945	354,018

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
2017	\$ 391,822	17.2%	\$67,393	\$ 371,614	17.4%	\$68,177	\$ 376,576	19.6%	\$76,797	\$ 424,699
2018	404,556	17.2	69,584	376,705	17.4	70,393	381,735	19.6	79,293	430,517
2019	417,704	17.2	71,845	381,455	17.4	72,680	386,548	19.6	81,870	435,946
2020	431,279	17.2	74,180	385,816	17.4	75,043	390,967	19.6	84,531	440,930
2021	445,296	17.2	76,591	389,736	17.4	77,482	394,940	19.6	87,278	445,410
2022	459,768	17.2	79,080	393,159	17.4	80,000	398,409	19.6	90,115	449,322
2023	474,710	17.2	81,650	396,023	17.4	82,600	401,311	19.6	93,043	452,595
2024	490,138	17.2	84,304	398,261	17.4	85,284	403,579	19.6	96,067	455,153
2025	506,067	17.2	87,044	399,801	17.4	88,056	405,140	19.6	99,189	456,913
2026	522,514	17.2	89,872	400,564	17.4	90,917	405,914	19.6	102,413	457,785

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	6.5%	\$25,468	\$ 195,322	8.9%	\$34,872	\$ 249,962	8.1%	\$31,738	\$ 227,852
2018	404,556	6.5	26,296	197,998	8.9	36,005	253,386	8.1	32,769	230,974
2019	417,704	6.5	27,151	200,495	8.9	37,176	256,581	8.1	33,834	233,886
2020	431,279	6.5	28,033	202,787	8.9	38,384	259,514	8.1	34,934	236,560
2021	445,296	6.5	28,944	204,848	8.9	39,631	262,151	8.1	36,069	238,964
2022	459,768	6.5	29,885	206,647	8.9	40,919	264,453	8.1	37,241	241,063
2023	474,710	6.5	30,856	208,152	8.9	42,249	266,379	8.1	38,452	242,819
2024	490,138	6.5	31,859	209,328	8.9	43,622	267,884	8.1	39,701	244,191
2025	506,067	6.5	32,894	210,137	8.9	45,040	268,920	8.1	40,991	245,135
2026	522,514	6.5	33,963	210,538	8.9	46,504	269,433	8.1	42,324	245,603

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
2017	\$ 391,822	10.1%	\$39,574	\$ 274,368	11.1%	\$43,492	\$ 304,470	12.0%	\$47,019	\$ 320,745
2018	404,556	10.1	40,860	278,127	11.1	44,906	308,641	12.0	48,547	325,139
2019	417,704	10.1	42,188	281,634	11.1	46,365	312,533	12.0	50,124	329,239
2020	431,279	10.1	43,559	284,854	11.1	47,872	316,106	12.0	51,753	333,003
2021	445,296	10.1	44,975	287,748	11.1	49,428	319,318	12.0	53,436	336,387
2022	459,768	10.1	46,437	290,275	11.1	51,034	322,122	12.0	55,172	339,341
2023	474,710	10.1	47,946	292,389	11.1	52,693	324,468	12.0	56,965	341,813
2024	490,138	10.1	49,504	294,041	11.1	54,405	326,302	12.0	58,817	343,745
2025	506,067	10.1	51,113	295,178	11.1	56,173	327,564	12.0	60,728	345,074
2026	522,514	10.1	52,774	295,742	11.1	57,999	328,189	12.0	62,702	345,733

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
2017	\$ 391,822	13.5%	\$52,896	\$ 358,620	13.9%	\$54,463	\$ 366,772	16.0%	\$62,691	\$ 412,605
2018	404,556	13.5	54,615	363,533	13.9	56,233	371,797	16.0	64,729	418,258
2019	417,704	13.5	56,390	368,117	13.9	58,061	376,485	16.0	66,833	423,532
2020	431,279	13.5	58,223	372,326	13.9	59,948	380,789	16.0	69,005	428,374
2021	445,296	13.5	60,115	376,109	13.9	61,896	384,658	16.0	71,247	432,727
2022	459,768	13.5	62,069	379,412	13.9	63,908	388,036	16.0	73,563	436,527
2023	474,710	13.5	64,086	382,176	13.9	65,985	390,863	16.0	75,954	439,707
2024	490,138	13.5	66,169	384,336	13.9	68,129	393,072	16.0	78,422	442,192
2025	506,067	13.5	68,319	385,822	13.9	70,343	394,592	16.0	80,971	443,902
2026	522,514	13.5	70,539	386,559	13.9	72,629	395,345	16.0	83,602	444,750

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	6.8%	\$26,644	\$ 202,740	9.3%	\$36,439	\$ 259,243	8.4%	\$32,913	\$ 236,408
2018	404,556	6.8	27,510	205,518	9.3	37,624	262,795	8.4	33,983	239,647
2019	417,704	6.8	28,404	208,109	9.3	38,846	266,109	8.4	35,087	242,669
2020	431,279	6.8	29,327	210,488	9.3	40,109	269,151	8.4	36,227	245,443
2021	445,296	6.8	30,280	212,627	9.3	41,413	271,886	8.4	37,405	247,937
2022	459,768	6.8	31,264	214,494	9.3	42,758	274,274	8.4	38,621	250,114
2023	474,710	6.8	32,280	216,056	9.3	44,148	276,272	8.4	39,876	251,936
2024	490,138	6.8	33,329	217,277	9.3	45,583	277,833	8.4	41,172	253,360
2025	506,067	6.8	34,413	218,117	9.3	47,064	278,907	8.4	42,510	254,340
2026	522,514	6.8	35,531	218,533	9.3	48,594	279,440	8.4	43,891	254,826

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
2017	\$ 391,822	10.5%	\$41,141	\$ 284,496	11.6%	\$45,451	\$ 315,474	12.4%	\$48,586	\$ 332,307
2018	404,556	10.5	42,478	288,394	11.6	46,928	319,796	12.4	50,165	336,860
2019	417,704	10.5	43,859	292,030	11.6	48,454	323,828	12.4	51,795	341,108
2020	431,279	10.5	45,284	295,369	11.6	50,028	327,530	12.4	53,479	345,008
2021	445,296	10.5	46,756	298,370	11.6	51,654	330,858	12.4	55,217	348,514
2022	459,768	10.5	48,276	300,990	11.6	53,333	333,764	12.4	57,011	351,575
2023	474,710	10.5	49,845	303,183	11.6	55,066	336,195	12.4	58,864	354,136
2024	490,138	10.5	51,464	304,896	11.6	56,856	338,095	12.4	60,777	356,137
2025	506,067	10.5	53,137	306,075	11.6	58,704	339,402	12.4	62,752	357,514
2026	522,514	10.5	54,864	306,659	11.6	60,612	340,050	12.4	64,792	358,197

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
2017	\$ 391,822	14.1%	\$55,247	\$ 371,363	14.5%	\$56,814	\$ 379,789	16.6%	\$65,042	\$ 427,108
2018	404,556	14.1	57,042	376,451	14.5	58,661	384,992	16.6	67,156	432,959
2019	417,704	14.1	58,896	381,198	14.5	60,567	389,847	16.6	69,339	438,418
2020	431,279	14.1	60,810	385,556	14.5	62,535	394,304	16.6	71,592	443,430
2021	445,296	14.1	62,787	389,474	14.5	64,568	398,310	16.6	73,919	447,936
2022	459,768	14.1	64,827	392,894	14.5	66,666	401,808	16.6	76,321	451,870
2023	474,710	14.1	66,934	395,756	14.5	68,833	404,735	16.6	78,802	455,162
2024	490,138	14.1	69,109	397,993	14.5	71,070	407,022	16.6	81,363	457,734
2025	506,067	14.1	71,355	399,532	14.5	73,380	408,596	16.6	84,007	459,504
2026	522,514	14.1	73,674	400,295	14.5	75,765	409,376	16.6	86,737	460,381

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	10.3%	\$40,358	\$ 212,644	12.8%	\$50,153	\$ 265,815	11.8%	\$46,235	\$ 245,007
2018	404,556	10.3	41,669	215,557	12.8	51,783	269,457	11.8	47,738	248,364
2019	417,704	10.3	43,024	218,275	12.8	53,466	272,855	11.8	49,289	251,496
2020	431,279	10.3	44,422	220,771	12.8	55,204	275,975	11.8	50,891	254,371
2021	445,296	10.3	45,865	223,014	12.8	56,998	278,779	11.8	52,545	256,956
2022	459,768	10.3	47,356	224,973	12.8	58,850	281,227	11.8	54,253	259,213
2023	474,710	10.3	48,895	226,612	12.8	60,763	283,276	11.8	56,016	261,101
2024	490,138	10.3	50,484	227,893	12.8	62,738	284,877	11.8	57,836	262,577
2025	506,067	10.3	52,125	228,774	12.8	64,777	285,979	11.8	59,716	263,592
2026	522,514	10.3	53,819	229,211	12.8	66,882	286,525	11.8	61,657	264,095

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
2017	\$ 391,822	13.9%	\$54,463	\$ 290,091	15.0%	\$58,773	\$ 318,949	15.9%	\$62,300	\$ 335,129
2018	404,556	13.9	56,233	294,065	15.0	60,683	323,319	15.9	64,324	339,720
2019	417,704	13.9	58,061	297,773	15.0	62,656	327,396	15.9	66,415	344,004
2020	431,279	13.9	59,948	301,177	15.0	64,692	331,139	15.9	68,573	347,937
2021	445,296	13.9	61,896	304,237	15.0	66,794	334,504	15.9	70,802	351,472
2022	459,768	13.9	63,908	306,909	15.0	68,965	337,442	15.9	73,103	354,559
2023	474,710	13.9	65,985	309,145	15.0	71,207	339,900	15.9	75,479	357,142
2024	490,138	13.9	68,129	310,892	15.0	73,521	341,821	15.9	77,932	359,160
2025	506,067	13.9	70,343	312,094	15.0	75,910	343,143	15.9	80,465	360,549
2026	522,514	13.9	72,629	312,690	15.0	78,377	343,798	15.9	83,080	361,237

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
2017	\$ 391,822	17.4%	\$68,177	\$ 372,128	17.8%	\$69,744	\$ 380,212	19.9%	\$77,973	\$ 425,297
2018	404,556	17.4	70,393	377,226	17.8	72,011	385,421	19.9	80,507	431,124
2019	417,704	17.4	72,680	381,983	17.8	74,351	390,281	19.9	83,123	436,560
2020	431,279	17.4	75,043	386,350	17.8	76,768	394,743	19.9	85,825	441,551
2021	445,296	17.4	77,482	390,276	17.8	79,263	398,754	19.9	88,614	446,038
2022	459,768	17.4	80,000	393,704	17.8	81,839	402,256	19.9	91,494	449,955
2023	474,710	17.4	82,600	396,572	17.8	84,498	405,186	19.9	94,467	453,233
2024	490,138	17.4	85,284	398,813	17.8	87,245	407,476	19.9	97,537	455,795
2025	506,067	17.4	88,056	400,355	17.8	90,080	409,052	19.9	100,707	457,558
2026	522,514	17.4	90,917	401,119	17.8	93,007	409,833	19.9	103,980	458,432

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 391,822	10.7%	\$41,925	\$ 219,764	13.1%	\$51,329	\$ 274,718	12.3%	\$48,194	\$ 253,254
2018	404,556	10.7	43,287	222,775	13.1	52,997	278,482	12.3	49,760	256,724
2019	417,704	10.7	44,694	225,584	13.1	54,719	281,993	12.3	51,378	259,961
2020	431,279	10.7	46,147	228,163	13.1	56,498	285,217	12.3	53,047	262,933
2021	445,296	10.7	47,647	230,481	13.1	58,334	288,115	12.3	54,771	265,605
2022	459,768	10.7	49,195	232,505	13.1	60,230	290,645	12.3	56,551	267,938
2023	474,710	10.7	50,794	234,199	13.1	62,187	292,762	12.3	58,389	269,890
2024	490,138	10.7	52,445	235,523	13.1	64,208	294,417	12.3	60,287	271,415
2025	506,067	10.7	54,149	236,434	13.1	66,295	295,556	12.3	62,246	272,465
2026	522,514	10.7	55,909	236,885	13.1	68,449	296,120	12.3	64,269	272,985

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
2017	\$ 391,822	14.3%	\$56,031	\$ 299,845	15.5%	\$60,732	\$ 329,667	16.3%	\$63,867	\$ 346,419
2018	404,556	14.3	57,852	303,953	15.5	62,706	334,183	16.3	65,943	351,165
2019	417,704	14.3	59,732	307,786	15.5	64,744	338,397	16.3	68,086	355,593
2020	431,279	14.3	61,673	311,305	15.5	66,848	342,266	16.3	70,298	359,658
2021	445,296	14.3	63,677	314,468	15.5	69,021	345,744	16.3	72,583	363,312
2022	459,768	14.3	65,747	317,230	15.5	71,264	348,780	16.3	74,942	366,503
2023	474,710	14.3	67,884	319,541	15.5	73,580	351,321	16.3	77,378	369,173
2024	490,138	14.3	70,090	321,347	15.5	75,971	353,307	16.3	79,892	371,259
2025	506,067	14.3	72,368	322,590	15.5	78,440	354,673	16.3	82,489	372,695
2026	522,514	14.3	74,720	323,206	15.5	80,990	355,350	16.3	85,170	373,407

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
2017	\$ 391,822	18.0%	\$70,528	\$ 384,646	18.4%	\$72,095	\$ 393,020	20.5%	\$80,323	\$ 439,547
2018	404,556	18.0	72,820	389,916	18.4	74,438	398,404	20.5	82,934	445,569
2019	417,704	18.0	75,187	394,833	18.4	76,858	403,428	20.5	85,629	451,187
2020	431,279	18.0	77,630	399,347	18.4	79,355	408,040	20.5	88,412	456,345
2021	445,296	18.0	80,153	403,405	18.4	81,934	412,186	20.5	91,286	460,982
2022	459,768	18.0	82,758	406,948	18.4	84,597	415,806	20.5	94,252	465,031
2023	474,710	18.0	85,448	409,912	18.4	87,347	418,835	20.5	97,316	468,418
2024	490,138	18.0	88,225	412,229	18.4	90,185	421,202	20.5	100,478	471,065
2025	506,067	18.0	91,092	413,823	18.4	93,116	422,831	20.5	103,744	472,887
2026	522,514	18.0	94,053	414,613	18.4	96,143	423,638	20.5	107,115	473,790

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	10.6%	\$760,830	\$ 7,750,015	13.9%	\$997,692	\$ 9,745,372	14.3%	\$1,026,403	\$ 10,092,112
2018	7,410,914	10.6	785,557	7,856,189	13.9	1,030,117	9,878,882	14.3	1,059,761	10,230,372
2019	7,651,769	10.6	811,088	7,955,251	13.9	1,063,596	10,003,448	14.3	1,094,203	10,359,371
2020	7,900,451	10.6	837,448	8,046,203	13.9	1,098,163	10,117,817	14.3	1,129,764	10,477,809
2021	8,157,216	10.6	864,665	8,127,960	13.9	1,133,853	10,220,623	14.3	1,166,482	10,584,273
2022	8,422,326	10.6	892,767	8,199,343	13.9	1,170,703	10,310,384	14.3	1,204,393	10,677,228
2023	8,696,052	10.6	921,782	8,259,070	13.9	1,208,751	10,385,488	14.3	1,243,535	10,755,005
2024	8,978,674	10.6	951,739	8,305,748	13.9	1,248,036	10,444,183	14.3	1,283,950	10,815,789
2025	9,270,481	10.6	982,671	8,337,867	13.9	1,288,597	10,484,571	14.3	1,325,679	10,857,614
2026	9,571,772	10.6	1,014,608	8,353,788	13.9	1,330,476	10,504,591	14.3	1,368,763	10,878,346

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
2017	\$ 7,177,640	16.7%	\$1,198,666	\$ 11,502,003	17.3%	\$1,241,732	\$ 11,736,742	19.1%	\$1,370,929	\$ 12,907,904
2018	7,410,914	16.7	1,237,623	11,659,579	17.3	1,282,088	11,897,534	19.1	1,415,485	13,084,740
2019	7,651,769	16.7	1,277,845	11,806,599	17.3	1,323,756	12,047,554	19.1	1,461,488	13,249,730
2020	7,900,451	16.7	1,319,375	11,941,583	17.3	1,366,778	12,185,293	19.1	1,508,986	13,401,213
2021	8,157,216	16.7	1,362,255	12,062,920	17.3	1,411,198	12,309,107	19.1	1,558,028	13,537,382
2022	8,422,326	16.7	1,406,528	12,168,861	17.3	1,457,062	12,417,210	19.1	1,608,664	13,656,272
2023	8,696,052	16.7	1,452,241	12,257,503	17.3	1,504,417	12,507,661	19.1	1,660,946	13,755,749
2024	8,978,674	16.7	1,499,439	12,326,778	17.3	1,553,311	12,578,350	19.1	1,714,927	13,833,492
2025	9,270,481	16.7	1,548,170	12,374,446	17.3	1,603,793	12,626,991	19.1	1,770,662	13,886,987
2026	9,571,772	16.7	1,598,486	12,398,075	17.3	1,655,917	12,651,102	19.1	1,828,208	13,913,504

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
2017	\$ 7,177,640	20.6%	\$1,478,594	\$ 13,725,530	21.5%	\$1,543,193	\$ 14,311,067	24.0%	\$1,722,634	\$ 15,712,937
2018	7,410,914	20.6	1,526,648	13,913,568	21.5	1,593,347	14,507,126	24.0	1,778,619	15,928,202
2019	7,651,769	20.6	1,576,264	14,089,009	21.5	1,645,130	14,690,052	24.0	1,836,425	16,129,047
2020	7,900,451	20.6	1,627,493	14,250,088	21.5	1,698,597	14,858,002	24.0	1,896,108	16,313,449
2021	8,157,216	20.6	1,680,386	14,394,882	21.5	1,753,801	15,008,973	24.0	1,957,732	16,479,209
2022	8,422,326	20.6	1,734,999	14,521,303	21.5	1,810,800	15,140,787	24.0	2,021,358	16,623,935
2023	8,696,052	20.6	1,791,387	14,627,081	21.5	1,869,651	15,251,078	24.0	2,087,052	16,745,029
2024	8,978,674	20.6	1,849,607	14,709,749	21.5	1,930,415	15,337,272	24.0	2,154,882	16,839,666
2025	9,270,481	20.6	1,909,719	14,766,632	21.5	1,993,153	15,396,582	24.0	2,224,915	16,904,786
2026	9,571,772	20.6	1,971,785	14,794,829	21.5	2,057,931	15,425,981	24.0	2,297,225	16,937,065

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	11.0%	\$789,540	\$ 8,021,176	14.5%	\$1,040,758	\$ 10,083,029	14.9%	\$1,069,468	\$ 10,446,126
2018	7,410,914	11.0	815,201	8,131,065	14.5	1,074,583	10,221,165	14.9	1,104,226	10,589,236
2019	7,651,769	11.0	841,695	8,233,593	14.5	1,109,507	10,350,047	14.9	1,140,114	10,722,760
2020	7,900,451	11.0	869,050	8,327,727	14.5	1,145,565	10,468,378	14.9	1,177,167	10,845,353
2021	8,157,216	11.0	897,294	8,412,344	14.5	1,182,796	10,574,746	14.9	1,215,425	10,955,552
2022	8,422,326	11.0	926,456	8,486,224	14.5	1,221,237	10,667,617	14.9	1,254,927	11,051,768
2023	8,696,052	11.0	956,566	8,548,041	14.5	1,260,928	10,745,324	14.9	1,295,712	11,132,273
2024	8,978,674	11.0	987,654	8,596,352	14.5	1,301,908	10,806,053	14.9	1,337,822	11,195,189
2025	9,270,481	11.0	1,019,753	8,629,594	14.5	1,344,220	10,847,840	14.9	1,381,302	11,238,481
2026	9,571,772	11.0	1,052,895	8,646,072	14.5	1,387,907	10,868,554	14.9	1,426,194	11,259,941

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
2017	\$ 7,177,640	17.3%	\$1,241,732	\$ 11,901,802	18.0%	\$1,291,975	\$ 12,140,758	19.9%	\$1,428,350	\$ 13,353,294
2018	7,410,914	17.3	1,282,088	12,064,855	18.0	1,333,965	12,307,085	19.9	1,474,772	13,536,232
2019	7,651,769	17.3	1,323,756	12,216,985	18.0	1,377,318	12,462,270	19.9	1,522,702	13,706,915
2020	7,900,451	17.3	1,366,778	12,356,661	18.0	1,422,081	12,604,750	19.9	1,572,190	13,863,625
2021	8,157,216	17.3	1,411,198	12,482,216	18.0	1,468,299	12,732,826	19.9	1,623,286	14,004,492
2022	8,422,326	17.3	1,457,062	12,591,839	18.0	1,516,019	12,844,650	19.9	1,676,043	14,127,484
2023	8,696,052	17.3	1,504,417	12,683,562	18.0	1,565,289	12,938,215	19.9	1,730,514	14,230,393
2024	8,978,674	17.3	1,553,311	12,755,245	18.0	1,616,161	13,011,338	19.9	1,786,756	14,310,819
2025	9,270,481	17.3	1,603,793	12,804,570	18.0	1,668,687	13,061,653	19.9	1,844,826	14,366,160
2026	9,571,772	17.3	1,655,917	12,829,020	18.0	1,722,919	13,086,594	19.9	1,904,783	14,393,592

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
2017	\$ 7,177,640	21.4%	\$1,536,015	\$ 14,196,028	22.4%	\$1,607,791	\$ 14,802,287	24.9%	\$1,787,232	\$ 16,250,002
2018	7,410,914	21.4	1,585,936	14,390,511	22.4	1,660,045	15,005,076	24.9	1,845,318	16,472,625
2019	7,651,769	21.4	1,637,479	14,571,966	22.4	1,713,996	15,194,281	24.9	1,905,290	16,680,334
2020	7,900,451	21.4	1,690,697	14,738,566	22.4	1,769,701	15,367,996	24.9	1,967,212	16,871,039
2021	8,157,216	21.4	1,745,644	14,888,323	22.4	1,827,216	15,524,149	24.9	2,031,147	17,042,464
2022	8,422,326	21.4	1,802,378	15,019,077	22.4	1,886,601	15,660,488	24.9	2,097,159	17,192,137
2023	8,696,052	21.4	1,860,955	15,128,481	22.4	1,947,916	15,774,564	24.9	2,165,317	17,317,370
2024	8,978,674	21.4	1,921,436	15,213,982	22.4	2,011,223	15,863,717	24.9	2,235,690	17,415,242
2025	9,270,481	21.4	1,983,883	15,272,815	22.4	2,076,588	15,925,063	24.9	2,308,350	17,482,587
2026	9,571,772	21.4	2,048,359	15,301,978	22.4	2,144,077	15,955,472	24.9	2,383,371	17,515,970

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	14.5%	\$1,040,758	\$ 7,831,225	17.8%	\$1,277,620	\$ 9,788,948	18.1%	\$1,299,153	\$ 10,161,747
2018	7,410,914	14.5	1,074,583	7,938,512	17.8	1,319,143	9,923,055	18.1	1,341,375	10,300,961
2019	7,651,769	14.5	1,109,507	8,038,612	17.8	1,362,015	10,048,178	18.1	1,384,970	10,430,850
2020	7,900,451	14.5	1,145,565	8,130,517	17.8	1,406,280	10,163,058	18.1	1,429,982	10,550,105
2021	8,157,216	14.5	1,182,796	8,213,130	17.8	1,451,984	10,266,324	18.1	1,476,456	10,657,304
2022	8,422,326	14.5	1,221,237	8,285,261	17.8	1,499,174	10,356,486	18.1	1,524,441	10,750,900
2023	8,696,052	14.5	1,260,928	8,345,614	17.8	1,547,897	10,431,926	18.1	1,573,985	10,829,213
2024	8,978,674	14.5	1,301,908	8,392,781	17.8	1,598,204	10,490,884	18.1	1,625,140	10,890,416
2025	9,270,481	14.5	1,344,220	8,425,236	17.8	1,650,146	10,531,453	18.1	1,677,957	10,932,530
2026	9,571,772	14.5	1,387,907	8,441,324	17.8	1,703,775	10,551,563	18.1	1,732,491	10,953,405

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
2017	\$ 7,177,640	20.6%	\$1,478,594	\$ 11,536,930	21.2%	\$1,521,660	\$ 11,746,814	23.0%	\$1,650,857	\$ 12,912,094
2018	7,410,914	20.6	1,526,648	11,694,984	21.2	1,571,114	11,907,744	23.0	1,704,510	13,088,988
2019	7,651,769	20.6	1,576,264	11,842,450	21.2	1,622,175	12,057,893	23.0	1,759,907	13,254,032
2020	7,900,451	20.6	1,627,493	11,977,844	21.2	1,674,896	12,195,750	23.0	1,817,104	13,405,564
2021	8,157,216	20.6	1,680,386	12,099,550	21.2	1,729,330	12,319,670	23.0	1,876,160	13,541,777
2022	8,422,326	20.6	1,734,999	12,205,813	21.2	1,785,533	12,427,866	23.0	1,937,135	13,660,706
2023	8,696,052	20.6	1,791,387	12,294,724	21.2	1,843,563	12,518,395	23.0	2,000,092	13,760,215
2024	8,978,674	20.6	1,849,607	12,364,210	21.2	1,903,479	12,589,145	23.0	2,065,095	13,837,983
2025	9,270,481	20.6	1,909,719	12,412,023	21.2	1,965,342	12,637,828	23.0	2,132,211	13,891,495
2026	9,571,772	20.6	1,971,785	12,435,723	21.2	2,029,216	12,661,960	23.0	2,201,508	13,918,020

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
2017	\$ 7,177,640	24.5%	\$1,758,522	\$ 13,704,488	25.4%	\$1,823,121	\$ 14,287,208	27.9%	\$2,002,562	\$ 15,662,353
2018	7,410,914	24.5	1,815,674	13,892,237	25.4	1,882,372	14,482,941	27.9	2,067,645	15,876,925
2019	7,651,769	24.5	1,874,683	14,067,409	25.4	1,943,549	14,665,562	27.9	2,134,844	16,077,123
2020	7,900,451	24.5	1,935,610	14,228,241	25.4	2,006,715	14,833,232	27.9	2,204,226	16,260,932
2021	8,157,216	24.5	1,998,518	14,372,813	25.4	2,071,933	14,983,951	27.9	2,275,863	16,426,158
2022	8,422,326	24.5	2,063,470	14,499,040	25.4	2,139,271	15,115,545	27.9	2,349,829	16,570,418
2023	8,696,052	24.5	2,130,533	14,604,656	25.4	2,208,797	15,225,652	27.9	2,426,199	16,691,123
2024	8,978,674	24.5	2,199,775	14,687,197	25.4	2,280,583	15,311,702	27.9	2,505,050	16,785,456
2025	9,270,481	24.5	2,271,268	14,743,993	25.4	2,354,702	15,370,913	27.9	2,586,464	16,850,366
2026	9,571,772	24.5	2,345,084	14,772,146	25.4	2,431,230	15,400,263	27.9	2,670,524	16,882,541

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	14.9%	\$1,069,468	\$ 8,094,378	18.4%	\$1,320,686	\$ 10,117,866	18.7%	\$1,342,219	\$ 10,507,514
2018	7,410,914	14.9	1,104,226	8,205,270	18.4	1,363,608	10,256,479	18.7	1,385,841	10,651,465
2019	7,651,769	14.9	1,140,114	8,308,733	18.4	1,407,925	10,385,807	18.7	1,430,881	10,785,773
2020	7,900,451	14.9	1,177,167	8,403,726	18.4	1,453,683	10,504,547	18.7	1,477,384	10,909,086
2021	8,157,216	14.9	1,215,425	8,489,116	18.4	1,500,928	10,611,283	18.7	1,525,399	11,019,932
2022	8,422,326	14.9	1,254,927	8,563,670	18.4	1,549,708	10,704,475	18.7	1,574,975	11,116,713
2023	8,696,052	14.9	1,295,712	8,626,051	18.4	1,600,074	10,782,450	18.7	1,626,162	11,197,691
2024	8,978,674	14.9	1,337,822	8,674,803	18.4	1,652,076	10,843,389	18.7	1,679,012	11,260,977
2025	9,270,481	14.9	1,381,302	8,708,349	18.4	1,705,769	10,885,321	18.7	1,733,580	11,304,524
2026	9,571,772	14.9	1,426,194	8,724,977	18.4	1,761,206	10,906,106	18.7	1,789,921	11,326,110

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
2017	\$ 7,177,640	21.2%	\$1,521,660	\$ 11,927,661	21.9%	\$1,571,903	\$ 12,141,399	23.8%	\$1,708,278	\$ 13,347,966
2018	7,410,914	21.2	1,571,114	12,091,068	21.9	1,622,990	12,307,734	23.8	1,763,798	13,530,831
2019	7,651,769	21.2	1,622,175	12,243,529	21.9	1,675,737	12,462,927	23.8	1,821,121	13,701,446
2020	7,900,451	21.2	1,674,896	12,383,508	21.9	1,730,199	12,605,415	23.8	1,880,307	13,858,094
2021	8,157,216	21.2	1,729,330	12,509,336	21.9	1,786,430	12,733,498	23.8	1,941,417	13,998,905
2022	8,422,326	21.2	1,785,533	12,619,197	21.9	1,844,489	12,845,328	23.8	2,004,514	14,121,848
2023	8,696,052	21.2	1,843,563	12,711,120	21.9	1,904,435	12,938,898	23.8	2,069,660	14,224,716
2024	8,978,674	21.2	1,903,479	12,782,959	21.9	1,966,330	13,012,024	23.8	2,136,924	14,305,109
2025	9,270,481	21.2	1,965,342	12,832,391	21.9	2,030,235	13,062,342	23.8	2,206,374	14,360,427
2026	9,571,772	21.2	2,029,216	12,856,894	21.9	2,096,218	13,087,284	23.8	2,278,082	14,387,848

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
2017	\$ 7,177,640	25.3%	\$1,815,943	\$ 14,165,074	26.3%	\$1,887,719	\$ 14,768,372	28.8%	\$2,067,160	\$ 16,188,626
2018	7,410,914	25.3	1,874,961	14,359,133	26.3	1,949,070	14,970,696	28.8	2,134,343	16,410,408
2019	7,651,769	25.3	1,935,898	14,540,193	26.3	2,012,415	15,159,467	28.8	2,203,709	16,617,333
2020	7,900,451	25.3	1,998,814	14,706,430	26.3	2,077,819	15,332,784	28.8	2,275,330	16,807,318
2021	8,157,216	25.3	2,063,776	14,855,861	26.3	2,145,348	15,488,579	28.8	2,349,278	16,978,096
2022	8,422,326	25.3	2,130,848	14,986,330	26.3	2,215,072	15,624,605	28.8	2,425,630	17,127,204
2023	8,696,052	25.3	2,200,101	15,095,496	26.3	2,287,062	15,738,420	28.8	2,504,463	17,251,964
2024	8,978,674	25.3	2,271,605	15,180,811	26.3	2,361,391	15,827,368	28.8	2,585,858	17,349,466
2025	9,270,481	25.3	2,345,432	15,239,516	26.3	2,438,137	15,888,573	28.8	2,669,899	17,416,557
2026	9,571,772	25.3	2,421,658	15,268,615	26.3	2,517,376	15,918,912	28.8	2,756,670	17,449,813

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	11.6%	\$832,606	\$ 8,457,621	15.2%	\$1,091,001	\$ 10,619,709	16.9%	\$1,213,021	\$ 11,982,192
2018	7,410,914	11.6	859,666	8,573,489	15.2	1,126,459	10,765,197	16.9	1,252,444	12,146,346
2019	7,651,769	11.6	887,605	8,681,595	15.2	1,163,069	10,900,939	16.9	1,293,149	12,299,504
2020	7,900,451	11.6	916,452	8,780,851	15.2	1,200,869	11,025,569	16.9	1,335,176	12,440,123
2021	8,157,216	11.6	946,237	8,870,072	15.2	1,239,897	11,137,599	16.9	1,378,570	12,566,526
2022	8,422,326	11.6	976,990	8,947,972	15.2	1,280,194	11,235,413	16.9	1,423,373	12,676,890
2023	8,696,052	11.6	1,008,742	9,013,152	15.2	1,321,800	11,317,256	16.9	1,469,633	12,769,233
2024	8,978,674	11.6	1,041,526	9,064,091	15.2	1,364,758	11,381,217	16.9	1,517,396	12,841,401
2025	9,270,481	11.6	1,075,376	9,099,142	15.2	1,409,113	11,425,229	16.9	1,566,711	12,891,059
2026	9,571,772	11.6	1,110,326	9,116,517	15.2	1,454,909	11,447,045	16.9	1,617,629	12,915,674

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
2017	\$ 7,177,640	19.1%	\$1,370,929	\$ 13,263,137	18.8%	\$1,349,396	\$ 12,778,361	21.4%	\$1,536,015	\$ 14,540,601
2018	7,410,914	19.1	1,415,485	13,444,840	18.8	1,393,252	12,953,423	21.4	1,585,936	14,739,805
2019	7,651,769	19.1	1,461,488	13,614,371	18.8	1,438,533	13,116,757	21.4	1,637,479	14,925,665
2020	7,900,451	19.1	1,508,986	13,770,023	18.8	1,485,285	13,266,720	21.4	1,690,697	15,096,309
2021	8,157,216	19.1	1,558,028	13,909,939	18.8	1,533,557	13,401,522	21.4	1,745,644	15,249,701
2022	8,422,326	19.1	1,608,664	14,032,101	18.8	1,583,397	13,519,219	21.4	1,802,378	15,383,629
2023	8,696,052	19.1	1,660,946	14,134,316	18.8	1,634,858	13,617,698	21.4	1,860,955	15,495,689
2024	8,978,674	19.1	1,714,927	14,214,199	18.8	1,687,991	13,694,661	21.4	1,921,436	15,583,266
2025	9,270,481	19.1	1,770,662	14,269,166	18.8	1,742,850	13,747,619	21.4	1,983,883	15,643,527
2026	9,571,772	19.1	1,828,208	14,296,413	18.8	1,799,493	13,773,870	21.4	2,048,359	15,673,398

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
2017	\$ 7,177,640	22.4%	\$1,607,791	\$ 14,934,973	23.7%	\$1,701,101	\$ 15,816,111	26.0%	\$1,866,186	\$ 17,090,445
2018	7,410,914	22.4	1,660,045	15,139,580	23.7	1,756,387	16,032,789	26.0	1,926,838	17,324,581
2019	7,651,769	22.4	1,713,996	15,330,481	23.7	1,813,469	16,234,952	26.0	1,989,460	17,543,033
2020	7,900,451	22.4	1,769,701	15,505,753	23.7	1,872,407	16,420,565	26.0	2,054,117	17,743,601
2021	8,157,216	22.4	1,827,216	15,663,306	23.7	1,933,260	16,587,413	26.0	2,120,876	17,923,892
2022	8,422,326	22.4	1,886,601	15,800,867	23.7	1,996,091	16,733,089	26.0	2,189,805	18,081,306
2023	8,696,052	22.4	1,947,916	15,915,966	23.7	2,060,964	16,854,979	26.0	2,260,974	18,213,016
2024	8,978,674	22.4	2,011,223	16,005,918	23.7	2,127,946	16,950,238	26.0	2,334,455	18,315,950
2025	9,270,481	22.4	2,076,588	16,067,814	23.7	2,197,104	17,015,785	26.0	2,410,325	18,386,779
2026	9,571,772	22.4	2,144,077	16,098,495	23.7	2,268,510	17,048,276	26.0	2,488,661	18,421,888

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	12.1%	\$868,494	\$ 8,762,792	15.8%	\$1,134,067	\$ 11,000,033	17.6%	\$1,263,265	\$ 12,414,922
2018	7,410,914	12.1	896,721	8,882,841	15.8	1,170,924	11,150,732	17.6	1,304,321	12,585,005
2019	7,651,769	12.1	925,864	8,994,848	15.8	1,208,980	11,291,336	17.6	1,346,711	12,743,694
2020	7,900,451	12.1	955,955	9,097,686	15.8	1,248,271	11,420,429	17.6	1,390,479	12,889,392
2021	8,157,216	12.1	987,023	9,190,127	15.8	1,288,840	11,536,471	17.6	1,435,670	13,020,360
2022	8,422,326	12.1	1,019,101	9,270,838	15.8	1,330,728	11,637,788	17.6	1,482,329	13,134,709
2023	8,696,052	12.1	1,052,222	9,338,370	15.8	1,373,976	11,722,562	17.6	1,530,505	13,230,387
2024	8,978,674	12.1	1,086,420	9,391,147	15.8	1,418,630	11,788,814	17.6	1,580,247	13,305,161
2025	9,270,481	12.1	1,121,728	9,427,463	15.8	1,464,736	11,834,402	17.6	1,631,605	13,356,613
2026	9,571,772	12.1	1,158,184	9,445,465	15.8	1,512,340	11,857,000	17.6	1,684,632	13,382,117

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
2017	\$ 7,177,640	19.9%	\$1,428,350	\$ 13,739,205	19.6%	\$1,406,817	\$ 13,233,682	22.3%	\$1,600,614	\$ 15,059,813
2018	7,410,914	19.9	1,474,772	13,927,430	19.6	1,452,539	13,414,981	22.3	1,652,634	15,266,130
2019	7,651,769	19.9	1,522,702	14,103,046	19.6	1,499,747	13,584,135	22.3	1,706,344	15,458,626
2020	7,900,451	19.9	1,572,190	14,264,285	19.6	1,548,488	13,739,442	22.3	1,761,801	15,635,363
2021	8,157,216	19.9	1,623,286	14,409,223	19.6	1,598,814	13,879,047	22.3	1,819,059	15,794,233
2022	8,422,326	19.9	1,676,043	14,535,770	19.6	1,650,776	14,000,938	22.3	1,878,179	15,932,944
2023	8,696,052	19.9	1,730,514	14,641,654	19.6	1,704,426	14,102,926	22.3	1,939,220	16,049,005
2024	8,978,674	19.9	1,786,756	14,724,404	19.6	1,759,820	14,182,631	22.3	2,002,244	16,139,709
2025	9,270,481	19.9	1,844,826	14,781,344	19.6	1,817,014	14,237,476	22.3	2,067,317	16,202,122
2026	9,571,772	19.9	1,904,783	14,809,569	19.6	1,876,067	14,264,662	22.3	2,134,505	16,233,060

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
2017	\$ 7,177,640	23.3%	\$1,672,390	\$ 15,465,612	24.6%	\$1,765,699	\$ 16,378,637	27.1%	\$1,945,141	\$ 17,696,499
2018	7,410,914	23.3	1,726,743	15,677,489	24.6	1,823,085	16,603,022	27.1	2,008,358	17,938,938
2019	7,651,769	23.3	1,782,862	15,875,172	24.6	1,882,335	16,812,376	27.1	2,073,629	18,165,137
2020	7,900,451	23.3	1,840,805	16,056,672	24.6	1,943,511	17,004,591	27.1	2,141,022	18,372,818
2021	8,157,216	23.3	1,900,631	16,219,822	24.6	2,006,675	17,177,373	27.1	2,210,606	18,559,503
2022	8,422,326	23.3	1,962,402	16,362,270	24.6	2,071,892	17,328,231	27.1	2,282,450	18,722,499
2023	8,696,052	23.3	2,026,180	16,481,458	24.6	2,139,229	17,454,456	27.1	2,356,630	18,858,880
2024	8,978,674	23.3	2,092,031	16,574,606	24.6	2,208,754	17,553,103	27.1	2,433,221	18,965,464
2025	9,270,481	23.3	2,160,022	16,638,701	24.6	2,280,538	17,620,982	27.1	2,512,300	19,038,804
2026	9,571,772	23.3	2,230,223	16,670,472	24.6	2,354,656	17,654,629	27.1	2,593,950	19,075,158

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	15.5%	\$1,112,534	\$ 8,531,905	19.1%	\$1,370,929	\$ 10,664,850	20.7%	\$1,485,772	\$ 12,042,645
2018	7,410,914	15.5	1,148,692	8,648,791	19.1	1,415,485	10,810,957	20.7	1,534,059	12,207,627
2019	7,651,769	15.5	1,186,024	8,757,847	19.1	1,461,488	10,947,276	20.7	1,583,916	12,361,557
2020	7,900,451	15.5	1,224,570	8,857,975	19.1	1,508,986	11,072,436	20.7	1,635,393	12,502,886
2021	8,157,216	15.5	1,264,368	8,947,980	19.1	1,558,028	11,184,942	20.7	1,688,544	12,629,927
2022	8,422,326	15.5	1,305,461	9,026,564	19.1	1,608,664	11,283,172	20.7	1,743,421	12,740,847
2023	8,696,052	15.5	1,347,888	9,092,317	19.1	1,660,946	11,365,362	20.7	1,800,083	12,833,656
2024	8,978,674	15.5	1,391,694	9,143,704	19.1	1,714,927	11,429,595	20.7	1,858,586	12,906,188
2025	9,270,481	15.5	1,436,925	9,179,063	19.1	1,770,662	11,473,794	20.7	1,918,990	12,956,097
2026	9,571,772	15.5	1,483,625	9,196,590	19.1	1,828,208	11,495,703	20.7	1,981,357	12,980,836

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
2017	\$ 7,177,640	23.0%	\$1,650,857	\$ 13,297,912	22.7%	\$1,629,324	\$ 12,782,437	25.3%	\$1,815,943	\$ 14,553,307
2018	7,410,914	23.0	1,704,510	13,480,091	22.7	1,682,277	12,957,554	25.3	1,874,961	14,752,685
2019	7,651,769	23.0	1,759,907	13,650,066	22.7	1,736,952	13,120,941	25.3	1,935,898	14,938,707
2020	7,900,451	23.0	1,817,104	13,806,126	22.7	1,793,402	13,270,952	25.3	1,998,814	15,109,500
2021	8,157,216	23.0	1,876,160	13,946,409	22.7	1,851,688	13,405,797	25.3	2,063,776	15,263,026
2022	8,422,326	23.0	1,937,135	14,068,891	22.7	1,911,868	13,523,531	25.3	2,130,848	15,397,071
2023	8,696,052	23.0	2,000,092	14,171,374	22.7	1,974,004	13,622,041	25.3	2,200,101	15,509,229
2024	8,978,674	23.0	2,065,095	14,251,466	22.7	2,038,159	13,699,028	25.3	2,271,605	15,596,882
2025	9,270,481	23.0	2,132,211	14,306,577	22.7	2,104,399	13,752,003	25.3	2,345,432	15,657,196
2026	9,571,772	23.0	2,201,508	14,333,895	22.7	2,172,792	13,778,262	25.3	2,421,658	15,687,093

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
2017	\$ 7,177,640	26.3%	\$1,887,719	\$ 14,930,677	27.6%	\$1,981,029	\$ 15,808,393	29.9%	\$2,146,114	\$ 17,063,643
2018	7,410,914	26.3	1,949,070	15,135,225	27.6	2,045,412	16,024,966	29.9	2,215,863	17,297,412
2019	7,651,769	26.3	2,012,415	15,326,071	27.6	2,111,888	16,227,031	29.9	2,287,879	17,515,521
2020	7,900,451	26.3	2,077,819	15,501,293	27.6	2,180,524	16,412,554	29.9	2,362,235	17,715,775
2021	8,157,216	26.3	2,145,348	15,658,800	27.6	2,251,392	16,579,321	29.9	2,439,008	17,895,783
2022	8,422,326	26.3	2,215,072	15,796,321	27.6	2,324,562	16,724,926	29.9	2,518,275	18,052,950
2023	8,696,052	26.3	2,287,062	15,911,387	27.6	2,400,110	16,846,756	29.9	2,600,120	18,184,454
2024	8,978,674	26.3	2,361,391	16,001,313	27.6	2,478,114	16,941,968	29.9	2,684,624	18,287,227
2025	9,270,481	26.3	2,438,137	16,063,191	27.6	2,558,653	17,007,483	29.9	2,771,874	18,357,944
2026	9,571,772	26.3	2,517,376	16,093,863	27.6	2,641,809	17,039,958	29.9	2,861,960	18,392,998

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 3.25%.
- 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 28th 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.

Central County Fire and Rescue - 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
2017	\$ 7,177,640	16.0%	\$1,148,422	\$ 8,830,815	19.7%	\$1,413,995	\$ 11,038,442	21.5%	\$1,543,193	\$ 12,468,743
2018	7,410,914	16.0	1,185,746	8,951,796	19.7	1,459,950	11,189,667	21.5	1,593,347	12,639,563
2019	7,651,769	16.0	1,224,283	9,064,672	19.7	1,507,398	11,330,762	21.5	1,645,130	12,798,940
2020	7,900,451	16.0	1,264,072	9,168,308	19.7	1,556,389	11,460,306	21.5	1,698,597	12,945,269
2021	8,157,216	16.0	1,305,155	9,261,466	19.7	1,606,972	11,576,753	21.5	1,753,801	13,076,805
2022	8,422,326	16.0	1,347,572	9,342,803	19.7	1,659,198	11,678,424	21.5	1,810,800	13,191,650
2023	8,696,052	16.0	1,391,368	9,410,859	19.7	1,713,122	11,763,494	21.5	1,869,651	13,287,742
2024	8,978,674	16.0	1,436,588	9,464,046	19.7	1,768,799	11,829,977	21.5	1,930,415	13,362,840
2025	9,270,481	16.0	1,483,277	9,500,644	19.7	1,826,285	11,875,724	21.5	1,993,153	13,414,515
2026	9,571,772	16.0	1,531,484	9,518,785	19.7	1,885,639	11,898,400	21.5	2,057,931	13,440,130

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
2017	\$ 7,177,640	23.8%	\$1,708,278	\$ 13,766,934	23.5%	\$1,686,745	\$ 13,246,063	26.2%	\$1,880,542	\$ 15,065,017
2018	7,410,914	23.8	1,763,798	13,955,539	23.5	1,741,565	13,427,532	26.2	1,941,659	15,271,405
2019	7,651,769	23.8	1,821,121	14,131,510	23.5	1,798,166	13,596,845	26.2	2,004,763	15,463,968
2020	7,900,451	23.8	1,880,307	14,293,075	23.5	1,856,606	13,752,297	26.2	2,069,918	15,640,767
2021	8,157,216	23.8	1,941,417	14,438,306	23.5	1,916,946	13,892,033	26.2	2,137,191	15,799,691
2022	8,422,326	23.8	2,004,514	14,565,108	23.5	1,979,247	14,014,038	26.2	2,206,649	15,938,449
2023	8,696,052	23.8	2,069,660	14,671,205	23.5	2,043,572	14,116,121	26.2	2,278,366	16,054,550
2024	8,978,674	23.8	2,136,924	14,754,122	23.5	2,109,988	14,195,901	26.2	2,352,413	16,145,285
2025	9,270,481	23.8	2,206,374	14,811,177	23.5	2,178,563	14,250,797	26.2	2,428,866	16,207,720
2026	9,571,772	23.8	2,278,082	14,839,459	23.5	2,249,366	14,278,009	26.2	2,507,804	16,238,668

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
2017	\$ 7,177,640	27.2%	\$1,952,318	\$ 15,453,828	28.5%	\$2,045,627	\$ 16,363,352	31.0%	\$2,225,068	\$ 17,661,445
2018	7,410,914	27.2	2,015,769	15,665,543	28.5	2,112,110	16,587,527	31.0	2,297,383	17,903,404
2019	7,651,769	27.2	2,081,281	15,863,076	28.5	2,180,754	16,796,685	31.0	2,372,048	18,129,155
2020	7,900,451	27.2	2,148,923	16,044,438	28.5	2,251,629	16,988,720	31.0	2,449,140	18,336,424
2021	8,157,216	27.2	2,218,763	16,207,464	28.5	2,324,807	17,161,341	31.0	2,528,737	18,522,739
2022	8,422,326	27.2	2,290,873	16,349,804	28.5	2,400,363	17,312,058	31.0	2,610,921	18,685,412
2023	8,696,052	27.2	2,365,326	16,468,902	28.5	2,478,375	17,438,165	31.0	2,695,776	18,821,523
2024	8,978,674	27.2	2,442,199	16,561,979	28.5	2,558,922	17,536,720	31.0	2,783,389	18,927,896
2025	9,270,481	27.2	2,521,571	16,626,025	28.5	2,642,087	17,604,535	31.0	2,873,849	19,001,091
2026	9,571,772	27.2	2,603,522	16,657,772	28.5	2,727,955	17,638,150	31.0	2,967,249	19,037,373

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 3.25%.
- 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 28th 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.