



**THE INITIAL ACTUARIAL VALUATION FOR
CITY OF LONE JACK
AS OF AUGUST 30, 2017**

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September 25, 2017

City of Lone Jack
Lone Jack, 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.

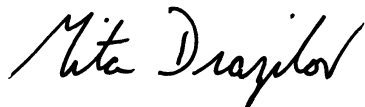
Please note that this entire report must be available as public information for at least 45 calendar days prior to the date final official action is taken by your governing body to join the System. You may wish to make notice of this report in the official minutes of the next meeting of your governing 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 August 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.

City of Lone Jack

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.00%	3.30%	0.20%	4.50%
	Police	3.30	3.60	0.40	7.30
L-3	General	1.20	4.70	0.30	6.20
	Police	4.20	5.10	0.50	9.80
LT-4(65)	General	1.10	4.00	0.20	5.30
	Police	3.80	4.80	0.40	9.00
LT-5(65)	General	1.30	5.30	0.30	6.90
	Police	4.50	6.00	0.50	11.00
L-7	General	1.50	6.20	0.30	8.00
	Police	5.00	6.70	0.60	12.30
LT-8(65)	General	1.60	6.50	0.30	8.40
	Police	5.30	7.30	0.60	13.20
L-12	General	1.80	7.60	0.40	9.80
	Police	5.90	8.20	0.70	14.80
LT-14(65)	General	1.80	7.80	0.40	10.00
	Police	6.00	8.50	0.70	15.20
L-6	General	2.00	9.10	0.50	11.60
	Police	6.80	9.80	0.80	17.40

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.00%	3.50%	0.20%	4.70%
	Police	3.40	3.90	0.40	7.70
L-3	General	1.30	5.00	0.30	6.60
	Police	4.30	5.40	0.50	10.20
LT-4(65)	General	1.10	4.30	0.20	5.60
	Police	3.90	5.10	0.40	9.40
LT-5(65)	General	1.40	5.60	0.30	7.30
	Police	4.70	6.30	0.50	11.50
L-7	General	1.50	6.50	0.30	8.30
	Police	5.20	7.00	0.60	12.80
LT-8(65)	General	1.60	6.80	0.30	8.70
	Police	5.50	7.60	0.60	13.70
L-12	General	1.80	8.00	0.40	10.20
	Police	6.10	8.60	0.70	15.40
LT-14(65)	General	1.80	8.30	0.40	10.50
	Police	6.20	8.90	0.70	15.80
L-6	General	2.10	9.50	0.50	12.10
	Police	7.00	10.30	0.80	18.10

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.10%	6.90%	0.20%	8.20%
	Police	3.50	7.20	0.40	11.10
L-3	General	1.30	8.40	0.30	10.00
	Police	4.40	8.80	0.50	13.70
LT-4(65)	General	1.20	7.60	0.20	9.00
	Police	3.90	8.40	0.40	12.70
LT-5(65)	General	1.40	8.90	0.30	10.60
	Police	4.70	9.60	0.50	14.80
L-7	General	1.60	9.90	0.30	11.80
	Police	5.20	10.30	0.60	16.10
LT-8(65)	General	1.70	10.30	0.30	12.30
	Police	5.50	10.90	0.60	17.00
L-12	General	1.90	11.40	0.40	13.70
	Police	6.10	11.90	0.70	18.70
LT-14(65)	General	1.90	11.60	0.40	13.90
	Police	6.20	12.20	0.70	19.10
L-6	General	2.10	12.90	0.50	15.50
	Police	7.00	13.50	0.80	21.30

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.10%	7.10%	0.20%	8.40%
	Police	3.60	7.40	0.40	11.40
L-3	General	1.40	8.70	0.30	10.40
	Police	4.50	9.10	0.50	14.10
LT-4(65)	General	1.20	7.90	0.20	9.30
	Police	4.10	8.60	0.40	13.10
LT-5(65)	General	1.50	9.20	0.30	11.00
	Police	4.90	10.00	0.50	15.40
L-7	General	1.70	10.20	0.30	12.20
	Police	5.40	10.70	0.60	16.70
LT-8(65)	General	1.70	10.60	0.30	12.60
	Police	5.70	11.30	0.60	17.60
L-12	General	1.90	11.80	0.40	14.10
	Police	6.30	12.30	0.70	19.30
LT-14(65)	General	2.00	12.00	0.40	14.40
	Police	6.40	12.60	0.70	19.70
L-6	General	2.20	13.30	0.50	16.00
	Police	7.20	14.00	0.80	22.00

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.00%	3.70%	0.20%	4.90%
	Police	3.40	3.80	0.40	7.60
L-3	General	1.20	5.20	0.30	6.70
	Police	4.30	5.30	0.50	10.10
LT-4(65)	General	1.10	4.90	0.20	6.20
	Police	4.00	5.10	0.40	9.50
LT-5(65)	General	1.30	6.10	0.30	7.70
	Police	4.70	6.30	0.50	11.50
L-7	General	1.50	6.70	0.30	8.50
	Police	5.20	6.90	0.60	12.70
LT-8(65)	General	1.60	7.30	0.30	9.20
	Police	5.50	7.50	0.60	13.60
L-12	General	1.80	8.30	0.40	10.50
	Police	6.10	8.40	0.70	15.20
LT-14(65)	General	1.80	8.60	0.40	10.80
	Police	6.20	8.80	0.70	15.70
L-6	General	2.00	9.90	0.50	12.40
	Police	7.00	10.00	0.80	17.80

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.

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.00%	3.90%	0.20%	5.10%
	Police	3.50	4.00	0.40	7.90
L-3	General	1.30	5.50	0.30	7.10
	Police	4.40	5.60	0.50	10.50
LT-4(65)	General	1.10	5.10	0.20	6.40
	Police	4.10	5.40	0.40	9.90
LT-5(65)	General	1.40	6.40	0.30	8.10
	Police	4.90	6.60	0.50	12.00
L-7	General	1.50	7.10	0.30	8.90
	Police	5.40	7.20	0.60	13.20
LT-8(65)	General	1.60	7.70	0.30	9.60
	Police	5.70	7.90	0.60	14.20
L-12	General	1.80	8.70	0.40	10.90
	Police	6.30	8.80	0.70	15.80
LT-14(65)	General	1.80	9.10	0.40	11.30
	Police	6.40	9.20	0.70	16.30
L-6	General	2.10	10.30	0.50	12.90
	Police	7.20	10.50	0.80	18.50

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.

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.10%	7.30%	0.20%	8.60%
	Police	3.60	7.30	0.40	11.30
L-3	General	1.30	8.90	0.30	10.50
	Police	4.50	8.90	0.50	13.90
LT-4(65)	General	1.20	8.40	0.20	9.80
	Police	4.20	8.70	0.40	13.30
LT-5(65)	General	1.40	9.70	0.30	11.40
	Police	4.90	9.90	0.50	15.30
L-7	General	1.60	10.50	0.30	12.40
	Police	5.40	10.50	0.60	16.50
LT-8(65)	General	1.70	11.00	0.30	13.00
	Police	5.70	11.20	0.60	17.50
L-12	General	1.90	12.10	0.40	14.40
	Police	6.30	12.10	0.70	19.10
LT-14(65)	General	1.90	12.40	0.40	14.70
	Police	6.40	12.50	0.70	19.60
L-6	General	2.10	13.70	0.50	16.30
	Police	7.20	13.70	0.80	21.70

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

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	1.10%	7.50%	0.20%	8.80%
	Police	3.70	7.60	0.40	11.70
L-3	General	1.40	9.20	0.30	10.90
	Police	4.60	9.20	0.50	14.30
LT-4(65)	General	1.20	8.70	0.20	10.10
	Police	4.30	8.90	0.40	13.60
LT-5(65)	General	1.50	10.10	0.30	11.90
	Police	5.10	10.30	0.50	15.90
L-7	General	1.70	10.80	0.30	12.80
	Police	5.60	10.90	0.60	17.10
LT-8(65)	General	1.70	11.40	0.30	13.40
	Police	5.90	11.60	0.60	18.10
L-12	General	1.90	12.50	0.40	14.80
	Police	6.50	12.50	0.70	19.70
LT-14(65)	General	2.00	12.80	0.40	15.20
	Police	6.60	12.90	0.70	20.20
L-6	General	2.20	14.10	0.50	16.80
	Police	7.40	14.20	0.80	22.40

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.

* Assumes that credit is granted for 100% of service rendered prior to the membership date. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

City of Lone Jack

Employer Contribution Dollars

Regular Retirement Eligibility

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

Contributory Plan

5 Year FAS		
Benefit Program	General	Police
L-1	\$ 10,557	\$ 20,387
L-3	14,546	27,369
LT-4(65)	12,434	25,135
LT-5(65)	16,188	30,721
L-7	18,769	34,351
LT-8(65)	19,707	36,865
L-12	22,992	41,333
LT-14(65)	23,461	42,450
L-6	27,215	48,595

3 Year FAS		
Benefit Program	General	Police
L-1	\$ 11,027	\$ 21,504
L-3	15,484	28,486
LT-4(65)	13,138	26,252
LT-5(65)	17,126	32,117
L-7	19,472	35,748
LT-8(65)	20,411	38,261
L-12	23,930	43,009
LT-14(65)	24,634	44,126
L-6	28,388	50,549

Non-Contributory Plan

5 Year FAS		
Benefit Program	General	Police
L-1	\$ 19,238	\$ 31,000
L-3	23,461	38,261
LT-4(65)	21,115	35,468
LT-5(65)	24,868	41,333
L-7	27,684	44,964
LT-8(65)	28,857	47,477
L-12	32,141	52,225
LT-14(65)	32,611	53,342
L-6	36,364	59,486

3 Year FAS		
Benefit Program	General	Police
L-1	\$ 19,707	\$ 31,838
L-3	24,399	39,378
LT-4(65)	21,819	36,586
LT-5(65)	25,807	43,009
L-7	28,622	46,640
LT-8(65)	29,561	49,153
L-12	33,080	53,901
LT-14(65)	33,784	55,018
L-6	37,537	61,441

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.

City of Lone Jack

Employer Contribution Dollars

Rule of 80 Retirement Eligibility

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

Contributory Plan

5 Year FAS		
Benefit Program	General	Police
L-1	\$ 11,496	\$ 21,225
L-3	15,719	28,207
LT-4(65)	14,546	26,532
LT-5(65)	18,065	32,117
L-7	19,942	35,468
LT-8(65)	21,584	37,982
L-12	24,634	42,450
LT-14(65)	25,338	43,847
L-6	29,091	49,712

3 Year FAS		
Benefit Program	General	Police
L-1	\$ 11,965	\$ 22,063
L-3	16,657	29,324
LT-4(65)	15,015	27,649
LT-5(65)	19,003	33,513
L-7	20,880	36,865
LT-8(65)	22,522	39,658
L-12	25,572	44,126
LT-14(65)	26,511	45,522
L-6	30,264	51,667

Non-Contributory Plan

5 Year FAS		
Benefit Program	General	Police
L-1	\$ 20,176	\$ 31,559
L-3	24,634	38,820
LT-4(65)	22,992	37,144
LT-5(65)	26,745	42,730
L-7	29,091	46,081
LT-8(65)	30,499	48,874
L-12	33,784	53,342
LT-14(65)	34,487	54,739
L-6	38,241	60,604

3 Year FAS		
Benefit Program	General	Police
L-1	\$ 20,646	\$ 32,676
L-3	25,572	39,937
LT-4(65)	23,695	37,982
LT-5(65)	27,918	44,405
L-7	30,030	47,757
LT-8(65)	31,437	50,549
L-12	34,722	55,018
LT-14(65)	35,660	56,414
L-6	39,414	62,558

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.

City of Lone Jack

Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	6	6
Annual Payroll	\$ 234,608	\$ 279,279

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:

City of Lone Jack

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	\$ 39,936	\$ 41,401	\$ 44,314	\$ 45,847
	Police	162,500	168,527	171,900	177,880
L-3	General	50,731	52,616	55,407	57,309
	Police	205,544	212,919	214,907	222,363
LT-4(65)	General	45,274	46,950	49,656	51,358
	Police	184,822	191,653	194,132	200,910
LT-5(65)	General	54,758	56,766	59,407	61,441
	Police	222,301	230,274	231,567	239,640
L-7	General	61,551	63,788	66,498	68,799
	Police	248,256	257,067	257,909	266,811
LT-8(65)	General	64,249	66,574	69,161	71,552
	Police	259,433	268,639	269,005	278,332
L-12	General	72,386	74,982	77,576	80,257
	Police	290,964	301,265	300,864	311,303
LT-14(65)	General	73,727	76,367	78,903	81,625
	Police	296,530	307,040	306,434	317,062
L-6	General	83,197	86,161	88,638	91,710
	Police	333,649	345,447	343,830	355,772

City of Lone Jack

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	\$ 39,923	\$ 41,404	\$ 44,309	\$ 45,850
	Police	167,020	173,260	176,361	182,504
L-3	General	50,722	52,613	55,415	57,311
	Police	211,141	218,761	220,467	228,163
LT-4(65)	General	45,273	46,952	49,659	51,371
	Police	196,301	203,592	205,540	212,745
LT-5(65)	General	54,750	56,755	59,397	61,441
	Police	233,110	241,510	242,335	250,845
L-7	General	61,545	63,790	66,483	68,799
	Police	254,975	264,058	264,570	273,771
LT-8(65)	General	64,236	66,588	69,146	71,546
	Police	269,598	279,233	279,158	288,879
L-12	General	72,350	74,995	77,543	80,282
	Police	298,758	309,371	308,649	319,412
LT-14(65)	General	73,697	76,384	78,881	81,658
	Police	306,094	316,958	315,943	326,987
L-6	General	83,180	86,164	88,649	91,721
	Police	342,517	354,689	352,730	365,058

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 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.

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

Sample Ages	Years of Service	Percent of Active Members Separating Within Next Year				Percent Increase in Individual's Pay During Next Year Excluding Fire
		General Members		Police	Fire	
		Men	Women			
All	0	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	7.30	10.80	9.80	5.00	6.6%
30		6.50	8.90	7.80	4.00	5.8
35		5.00	7.40	6.10	2.80	5.3
40		3.70	5.70	4.40	2.20	4.8
45		3.00	4.20	3.20	1.80	4.3
50		2.40	3.30	1.80	1.00	3.9
55		1.80	2.50	1.00	0.50	3.7
60		1.00	1.20	0.00	0.00	3.6
65		0.00	0.00	0.00	0.00	3.3

Sample Ages	Percent Increase in Individual's Pay During Next Year
	Fire
25	7.2%
30	6.1
35	5.2
40	4.5
45	4.2
50	3.9
55	3.7
60	3.3
65	3.3

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**

City of Lone Jack - General

August 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	4							4	\$ 143,380
35-39									
40-44									
45-49	1	1						2	\$ 91,228
50-54									
55-59									
60-64									
65-69									
70 & Over									
Totals	5	1						6	\$ 234,608

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

Age: 36.6 years.

Benefit Service: 1.5 years.

Annual Pay: \$39,101.

City of Lone Jack - Police

August 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	3	1						4	\$ 160,262
35-39			1					1	\$ 50,128
40-44									
45-49									
50-54									
55-59									
60-64									
65-69									
70 & Over			1					1	\$ 68,889
Totals	3	1	2					6	\$ 279,279

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

Age: 39.9 years.

Benefit Service: 6.0 years.

Annual Pay: \$46,547.



Gabriel Roeder Smith & Company
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One Towne Square
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248.799.9020 fax
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September 25, 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 August 30, 2017 Initial Actuarial
Valuation of LAGERS benefits for the employees of

City of Lone Jack

Sincerely,

A handwritten signature in black ink that reads 'Mita Drazilov'.

Mita D. Drazilov

MDD:adh

September 25, 2017

City of Lone Jack
Lone Jack, Missouri

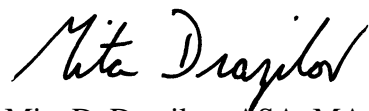
Ladies and Gentlemen:

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 August 30, 2017 Initial Valuation for the City of Lone Jack dated September 25, 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

City of Lone Jack - 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	\$ 234,608	4.5%	\$10,557	\$ 39,936	6.2%	\$14,546	\$ 50,731	5.3%	\$12,434	\$ 45,274
2018	242,233	4.5	10,900	40,483	6.2	15,018	51,426	5.3	12,838	45,894
2019	250,106	4.5	11,255	40,993	6.2	15,507	52,074	5.3	13,256	46,473
2020	258,234	4.5	11,621	41,462	6.2	16,011	52,669	5.3	13,686	47,004
2021	266,627	4.5	11,998	41,883	6.2	16,531	53,204	5.3	14,131	47,482
2022	275,292	4.5	12,388	42,251	6.2	17,068	53,671	5.3	14,590	47,899
2023	284,239	4.5	12,791	42,559	6.2	17,623	54,062	5.3	15,065	48,248
2024	293,477	4.5	13,206	42,800	6.2	18,196	54,368	5.3	15,554	48,521
2025	303,015	4.5	13,636	42,966	6.2	18,787	54,578	5.3	16,060	48,709
2026	312,863	4.5	14,079	43,048	6.2	19,398	54,682	5.3	16,582	48,802

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	\$ 234,608	6.9%	\$16,188	\$ 54,758	8.0%	\$18,769	\$ 61,551	8.4%	\$19,707	\$ 64,249
2018	242,233	6.9	16,714	55,508	8.0	19,379	62,394	8.4	20,348	65,129
2019	250,106	6.9	17,257	56,208	8.0	20,008	63,181	8.4	21,009	65,950
2020	258,234	6.9	17,818	56,851	8.0	20,659	63,903	8.4	21,692	66,704
2021	266,627	6.9	18,397	57,429	8.0	21,330	64,552	8.4	22,397	67,382
2022	275,292	6.9	18,995	57,933	8.0	22,023	65,119	8.4	23,125	67,974
2023	284,239	6.9	19,612	58,355	8.0	22,739	65,593	8.4	23,876	68,469
2024	293,477	6.9	20,250	58,685	8.0	23,478	65,964	8.4	24,652	68,856
2025	303,015	6.9	20,908	58,912	8.0	24,241	66,219	8.4	25,453	69,122
2026	312,863	6.9	21,588	59,024	8.0	25,029	66,345	8.4	26,280	69,254

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	\$ 234,608	9.8%	\$22,992	\$ 72,386	10.0%	\$23,461	\$ 73,727	11.6%	\$27,215	\$ 83,197
2018	242,233	9.8	23,739	73,378	10.0	24,223	74,737	11.6	28,099	84,337
2019	250,106	9.8	24,510	74,303	10.0	25,011	75,679	11.6	29,012	85,400
2020	258,234	9.8	25,307	75,153	10.0	25,823	76,544	11.6	29,955	86,376
2021	266,627	9.8	26,129	75,917	10.0	26,663	77,322	11.6	30,929	87,254
2022	275,292	9.8	26,979	76,584	10.0	27,529	78,001	11.6	31,934	88,020
2023	284,239	9.8	27,855	77,142	10.0	28,424	78,569	11.6	32,972	88,661
2024	293,477	9.8	28,761	77,578	10.0	29,348	79,013	11.6	34,043	89,162
2025	303,015	9.8	29,695	77,878	10.0	30,302	79,319	11.6	35,150	89,507
2026	312,863	9.8	30,661	78,027	10.0	31,286	79,470	11.6	36,292	89,678

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.

City of Lone Jack - 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	\$ 234,608	4.7%	\$11,027	\$ 41,401	6.6%	\$15,484	\$ 52,616	5.6%	\$13,138	\$ 46,950
2018	242,233	4.7	11,385	41,968	6.6	15,987	53,337	5.6	13,565	47,593
2019	250,106	4.7	11,755	42,497	6.6	16,507	54,010	5.6	14,006	48,193
2020	258,234	4.7	12,137	42,983	6.6	17,043	54,627	5.6	14,461	48,744
2021	266,627	4.7	12,531	43,420	6.6	17,597	55,182	5.6	14,931	49,239
2022	275,292	4.7	12,939	43,801	6.6	18,169	55,667	5.6	15,416	49,671
2023	284,239	4.7	13,359	44,120	6.6	18,760	56,072	5.6	15,917	50,033
2024	293,477	4.7	13,793	44,369	6.6	19,369	56,389	5.6	16,435	50,316
2025	303,015	4.7	14,242	44,541	6.6	19,999	56,607	5.6	16,969	50,511
2026	312,863	4.7	14,705	44,626	6.6	20,649	56,715	5.6	17,520	50,607

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	\$ 234,608	7.3%	\$17,126	\$ 56,766	8.3%	\$19,472	\$ 63,788	8.7%	\$20,411	\$ 66,574
2018	242,233	7.3	17,683	57,544	8.3	20,105	64,662	8.7	21,074	67,486
2019	250,106	7.3	18,258	58,270	8.3	20,759	65,477	8.7	21,759	68,337
2020	258,234	7.3	18,851	58,936	8.3	21,433	66,226	8.7	22,466	69,118
2021	266,627	7.3	19,464	59,535	8.3	22,130	66,899	8.7	23,197	69,820
2022	275,292	7.3	20,096	60,058	8.3	22,849	67,487	8.7	23,950	70,433
2023	284,239	7.3	20,749	60,495	8.3	23,592	67,979	8.7	24,729	70,946
2024	293,477	7.3	21,424	60,837	8.3	24,359	68,363	8.7	25,532	71,347
2025	303,015	7.3	22,120	61,072	8.3	25,150	68,627	8.7	26,362	71,623
2026	312,863	7.3	22,839	61,189	8.3	25,968	68,758	8.7	27,219	71,760

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	\$ 234,608	10.2%	\$23,930	\$ 74,982	10.5%	\$24,634	\$ 76,367	12.1%	\$28,388	\$ 86,161
2018	242,233	10.2	24,708	76,009	10.5	25,434	77,413	12.1	29,310	87,341
2019	250,106	10.2	25,511	76,967	10.5	26,261	78,389	12.1	30,263	88,442
2020	258,234	10.2	26,340	77,847	10.5	27,115	79,285	12.1	31,246	89,453
2021	266,627	10.2	27,196	78,638	10.5	27,996	80,091	12.1	32,262	90,362
2022	275,292	10.2	28,080	79,329	10.5	28,906	80,794	12.1	33,310	91,156
2023	284,239	10.2	28,992	79,907	10.5	29,845	81,383	12.1	34,393	91,820
2024	293,477	10.2	29,935	80,359	10.5	30,815	81,843	12.1	35,511	92,339
2025	303,015	10.2	30,908	80,670	10.5	31,817	82,159	12.1	36,665	92,696
2026	312,863	10.2	31,912	80,824	10.5	32,851	82,316	12.1	37,856	92,873

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.

September 25, 2017

City of Lone Jack
Lone Jack, Missouri

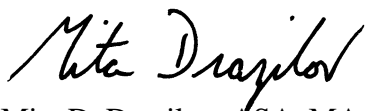
Ladies and Gentlemen:

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 August 30, 2017 Initial Valuation for the City of Lone Jack dated September 25, 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

City of Lone Jack - 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	\$ 234,608	4.5%	\$10,557	\$ 39,936	6.2%	\$14,546	\$ 50,731	5.3%	\$12,434	\$ 45,274
2018	242,233	4.5	10,900	40,483	6.2	15,018	51,426	5.3	12,838	45,894
2019	250,106	4.5	11,255	40,993	6.2	15,507	52,074	5.3	13,256	46,473
2020	258,234	4.5	11,621	41,462	6.2	16,011	52,669	5.3	13,686	47,004
2021	266,627	4.5	11,998	41,883	6.2	16,531	53,204	5.3	14,131	47,482
2022	275,292	4.5	12,388	42,251	6.2	17,068	53,671	5.3	14,590	47,899
2023	284,239	4.5	12,791	42,559	6.2	17,623	54,062	5.3	15,065	48,248
2024	293,477	4.5	13,206	42,800	6.2	18,196	54,368	5.3	15,554	48,521
2025	303,015	4.5	13,636	42,966	6.2	18,787	54,578	5.3	16,060	48,709
2026	312,863	4.5	14,079	43,048	6.2	19,398	54,682	5.3	16,582	48,802

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	\$ 234,608	6.9%	\$16,188	\$ 54,758	8.0%	\$18,769	\$ 61,551	8.4%	\$19,707	\$ 64,249
2018	242,233	6.9	16,714	55,508	8.0	19,379	62,394	8.4	20,348	65,129
2019	250,106	6.9	17,257	56,208	8.0	20,008	63,181	8.4	21,009	65,950
2020	258,234	6.9	17,818	56,851	8.0	20,659	63,903	8.4	21,692	66,704
2021	266,627	6.9	18,397	57,429	8.0	21,330	64,552	8.4	22,397	67,382
2022	275,292	6.9	18,995	57,933	8.0	22,023	65,119	8.4	23,125	67,974
2023	284,239	6.9	19,612	58,355	8.0	22,739	65,593	8.4	23,876	68,469
2024	293,477	6.9	20,250	58,685	8.0	23,478	65,964	8.4	24,652	68,856
2025	303,015	6.9	20,908	58,912	8.0	24,241	66,219	8.4	25,453	69,122
2026	312,863	6.9	21,588	59,024	8.0	25,029	66,345	8.4	26,280	69,254

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	\$ 234,608	9.8%	\$22,992	\$ 72,386	10.0%	\$23,461	\$ 73,727	11.6%	\$27,215	\$ 83,197
2018	242,233	9.8	23,739	73,378	10.0	24,223	74,737	11.6	28,099	84,337
2019	250,106	9.8	24,510	74,303	10.0	25,011	75,679	11.6	29,012	85,400
2020	258,234	9.8	25,307	75,153	10.0	25,823	76,544	11.6	29,955	86,376
2021	266,627	9.8	26,129	75,917	10.0	26,663	77,322	11.6	30,929	87,254
2022	275,292	9.8	26,979	76,584	10.0	27,529	78,001	11.6	31,934	88,020
2023	284,239	9.8	27,855	77,142	10.0	28,424	78,569	11.6	32,972	88,661
2024	293,477	9.8	28,761	77,578	10.0	29,348	79,013	11.6	34,043	89,162
2025	303,015	9.8	29,695	77,878	10.0	30,302	79,319	11.6	35,150	89,507
2026	312,863	9.8	30,661	78,027	10.0	31,286	79,470	11.6	36,292	89,678

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.

City of Lone Jack - 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	\$ 234,608	4.7%	\$11,027	\$ 41,401	6.6%	\$15,484	\$ 52,616	5.6%	\$13,138	\$ 46,950
2018	242,233	4.7	11,385	41,968	6.6	15,987	53,337	5.6	13,565	47,593
2019	250,106	4.7	11,755	42,497	6.6	16,507	54,010	5.6	14,006	48,193
2020	258,234	4.7	12,137	42,983	6.6	17,043	54,627	5.6	14,461	48,744
2021	266,627	4.7	12,531	43,420	6.6	17,597	55,182	5.6	14,931	49,239
2022	275,292	4.7	12,939	43,801	6.6	18,169	55,667	5.6	15,416	49,671
2023	284,239	4.7	13,359	44,120	6.6	18,760	56,072	5.6	15,917	50,033
2024	293,477	4.7	13,793	44,369	6.6	19,369	56,389	5.6	16,435	50,316
2025	303,015	4.7	14,242	44,541	6.6	19,999	56,607	5.6	16,969	50,511
2026	312,863	4.7	14,705	44,626	6.6	20,649	56,715	5.6	17,520	50,607

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	\$ 234,608	7.3%	\$17,126	\$ 56,766	8.3%	\$19,472	\$ 63,788	8.7%	\$20,411	\$ 66,574
2018	242,233	7.3	17,683	57,544	8.3	20,105	64,662	8.7	21,074	67,486
2019	250,106	7.3	18,258	58,270	8.3	20,759	65,477	8.7	21,759	68,337
2020	258,234	7.3	18,851	58,936	8.3	21,433	66,226	8.7	22,466	69,118
2021	266,627	7.3	19,464	59,535	8.3	22,130	66,899	8.7	23,197	69,820
2022	275,292	7.3	20,096	60,058	8.3	22,849	67,487	8.7	23,950	70,433
2023	284,239	7.3	20,749	60,495	8.3	23,592	67,979	8.7	24,729	70,946
2024	293,477	7.3	21,424	60,837	8.3	24,359	68,363	8.7	25,532	71,347
2025	303,015	7.3	22,120	61,072	8.3	25,150	68,627	8.7	26,362	71,623
2026	312,863	7.3	22,839	61,189	8.3	25,968	68,758	8.7	27,219	71,760

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	\$ 234,608	10.2%	\$23,930	\$ 74,982	10.5%	\$24,634	\$ 76,367	12.1%	\$28,388	\$ 86,161
2018	242,233	10.2	24,708	76,009	10.5	25,434	77,413	12.1	29,310	87,341
2019	250,106	10.2	25,511	76,967	10.5	26,261	78,389	12.1	30,263	88,442
2020	258,234	10.2	26,340	77,847	10.5	27,115	79,285	12.1	31,246	89,453
2021	266,627	10.2	27,196	78,638	10.5	27,996	80,091	12.1	32,262	90,362
2022	275,292	10.2	28,080	79,329	10.5	28,906	80,794	12.1	33,310	91,156
2023	284,239	10.2	28,992	79,907	10.5	29,845	81,383	12.1	34,393	91,820
2024	293,477	10.2	29,935	80,359	10.5	30,815	81,843	12.1	35,511	92,339
2025	303,015	10.2	30,908	80,670	10.5	31,817	82,159	12.1	36,665	92,696
2026	312,863	10.2	31,912	80,824	10.5	32,851	82,316	12.1	37,856	92,873

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.

City of Lone Jack - 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	\$ 234,608	8.2%	\$19,238	\$ 44,314	10.0%	\$23,461	\$ 55,407	9.0%	\$21,115	\$ 49,656
2018	242,233	8.2	19,863	44,921	10.0	24,223	56,166	9.0	21,801	50,336
2019	250,106	8.2	20,509	45,487	10.0	25,011	56,874	9.0	22,510	50,971
2020	258,234	8.2	21,175	46,007	10.0	25,823	57,524	9.0	23,241	51,554
2021	266,627	8.2	21,863	46,474	10.0	26,663	58,108	9.0	23,996	52,078
2022	275,292	8.2	22,574	46,882	10.0	27,529	58,618	9.0	24,776	52,535
2023	284,239	8.2	23,308	47,224	10.0	28,424	59,045	9.0	25,582	52,918
2024	293,477	8.2	24,065	47,491	10.0	29,348	59,379	9.0	26,413	53,217
2025	303,015	8.2	24,847	47,675	10.0	30,302	59,609	9.0	27,271	53,423
2026	312,863	8.2	25,655	47,766	10.0	31,286	59,723	9.0	28,158	53,525

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	\$ 234,608	10.6%	\$24,868	\$ 59,407	11.8%	\$27,684	\$ 66,498	12.3%	\$28,857	\$ 69,161
2018	242,233	10.6	25,677	60,221	11.8	28,583	67,409	12.3	29,795	70,108
2019	250,106	10.6	26,511	60,980	11.8	29,513	68,259	12.3	30,763	70,992
2020	258,234	10.6	27,373	61,677	11.8	30,472	69,039	12.3	31,763	71,804
2021	266,627	10.6	28,262	62,304	11.8	31,462	69,740	12.3	32,795	72,534
2022	275,292	10.6	29,181	62,851	11.8	32,484	70,352	12.3	33,861	73,171
2023	284,239	10.6	30,129	63,309	11.8	33,540	70,864	12.3	34,961	73,704
2024	293,477	10.6	31,109	63,667	11.8	34,630	71,265	12.3	36,098	74,121
2025	303,015	10.6	32,120	63,913	11.8	35,756	71,541	12.3	37,271	74,408
2026	312,863	10.6	33,163	64,035	11.8	36,918	71,678	12.3	38,482	74,550

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	\$ 234,608	13.7%	\$32,141	\$ 77,576	13.9%	\$32,611	\$ 78,903	15.5%	\$36,364	\$ 88,638
2018	242,233	13.7	33,186	78,639	13.9	33,670	79,984	15.5	37,546	89,852
2019	250,106	13.7	34,265	79,631	13.9	34,765	80,993	15.5	38,766	90,985
2020	258,234	13.7	35,378	80,541	13.9	35,895	81,919	15.5	40,026	92,025
2021	266,627	13.7	36,528	81,359	13.9	37,061	82,751	15.5	41,327	92,960
2022	275,292	13.7	37,715	82,074	13.9	38,266	83,478	15.5	42,670	93,776
2023	284,239	13.7	38,941	82,672	13.9	39,509	84,086	15.5	44,057	94,459
2024	293,477	13.7	40,206	83,139	13.9	40,793	84,561	15.5	45,489	94,993
2025	303,015	13.7	41,513	83,461	13.9	42,119	84,888	15.5	46,967	95,360
2026	312,863	13.7	42,862	83,620	13.9	43,488	85,050	15.5	48,494	95,542

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.

City of Lone Jack - 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	\$ 234,608	8.2%	\$19,238	\$ 44,314	10.0%	\$23,461	\$ 55,407	9.0%	\$21,115	\$ 49,656
2018	242,233	8.2	19,863	44,921	10.0	24,223	56,166	9.0	21,801	50,336
2019	250,106	8.2	20,509	45,487	10.0	25,011	56,874	9.0	22,510	50,971
2020	258,234	8.2	21,175	46,007	10.0	25,823	57,524	9.0	23,241	51,554
2021	266,627	8.2	21,863	46,474	10.0	26,663	58,108	9.0	23,996	52,078
2022	275,292	8.2	22,574	46,882	10.0	27,529	58,618	9.0	24,776	52,535
2023	284,239	8.2	23,308	47,224	10.0	28,424	59,045	9.0	25,582	52,918
2024	293,477	8.2	24,065	47,491	10.0	29,348	59,379	9.0	26,413	53,217
2025	303,015	8.2	24,847	47,675	10.0	30,302	59,609	9.0	27,271	53,423
2026	312,863	8.2	25,655	47,766	10.0	31,286	59,723	9.0	28,158	53,525

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	\$ 234,608	10.6%	\$24,868	\$ 59,407	11.8%	\$27,684	\$ 66,498	12.3%	\$28,857	\$ 69,161
2018	242,233	10.6	25,677	60,221	11.8	28,583	67,409	12.3	29,795	70,108
2019	250,106	10.6	26,511	60,980	11.8	29,513	68,259	12.3	30,763	70,992
2020	258,234	10.6	27,373	61,677	11.8	30,472	69,039	12.3	31,763	71,804
2021	266,627	10.6	28,262	62,304	11.8	31,462	69,740	12.3	32,795	72,534
2022	275,292	10.6	29,181	62,851	11.8	32,484	70,352	12.3	33,861	73,171
2023	284,239	10.6	30,129	63,309	11.8	33,540	70,864	12.3	34,961	73,704
2024	293,477	10.6	31,109	63,667	11.8	34,630	71,265	12.3	36,098	74,121
2025	303,015	10.6	32,120	63,913	11.8	35,756	71,541	12.3	37,271	74,408
2026	312,863	10.6	33,163	64,035	11.8	36,918	71,678	12.3	38,482	74,550

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	\$ 234,608	13.7%	\$32,141	\$ 77,576	13.9%	\$32,611	\$ 78,903	15.5%	\$36,364	\$ 88,638
2018	242,233	13.7	33,186	78,639	13.9	33,670	79,984	15.5	37,546	89,852
2019	250,106	13.7	34,265	79,631	13.9	34,765	80,993	15.5	38,766	90,985
2020	258,234	13.7	35,378	80,541	13.9	35,895	81,919	15.5	40,026	92,025
2021	266,627	13.7	36,528	81,359	13.9	37,061	82,751	15.5	41,327	92,960
2022	275,292	13.7	37,715	82,074	13.9	38,266	83,478	15.5	42,670	93,776
2023	284,239	13.7	38,941	82,672	13.9	39,509	84,086	15.5	44,057	94,459
2024	293,477	13.7	40,206	83,139	13.9	40,793	84,561	15.5	45,489	94,993
2025	303,015	13.7	41,513	83,461	13.9	42,119	84,888	15.5	46,967	95,360
2026	312,863	13.7	42,862	83,620	13.9	43,488	85,050	15.5	48,494	95,542

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.

City of Lone Jack - 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	\$ 234,608	8.4%	\$19,707	\$ 45,847	10.4%	\$24,399	\$ 57,309	9.3%	\$21,819	\$ 51,358
2018	242,233	8.4	20,348	46,475	10.4	25,192	58,094	9.3	22,528	52,062
2019	250,106	8.4	21,009	47,061	10.4	26,011	58,827	9.3	23,260	52,718
2020	258,234	8.4	21,692	47,599	10.4	26,856	59,500	9.3	24,016	53,321
2021	266,627	8.4	22,397	48,083	10.4	27,729	60,105	9.3	24,796	53,863
2022	275,292	8.4	23,125	48,505	10.4	28,630	60,633	9.3	25,602	54,336
2023	284,239	8.4	23,876	48,858	10.4	29,561	61,075	9.3	26,434	54,732
2024	293,477	8.4	24,652	49,134	10.4	30,522	61,420	9.3	27,293	55,041
2025	303,015	8.4	25,453	49,324	10.4	31,514	61,658	9.3	28,180	55,254
2026	312,863	8.4	26,280	49,418	10.4	32,538	61,776	9.3	29,096	55,360

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	\$ 234,608	11.0%	\$25,807	\$ 61,441	12.2%	\$28,622	\$ 68,799	12.6%	\$29,561	\$ 71,552
2018	242,233	11.0	26,646	62,283	12.2	29,552	69,742	12.6	30,521	72,532
2019	250,106	11.0	27,512	63,068	12.2	30,513	70,621	12.6	31,513	73,447
2020	258,234	11.0	28,406	63,789	12.2	31,505	71,428	12.6	32,537	74,287
2021	266,627	11.0	29,329	64,437	12.2	32,528	72,154	12.6	33,595	75,042
2022	275,292	11.0	30,282	65,003	12.2	33,586	72,788	12.6	34,687	75,701
2023	284,239	11.0	31,266	65,477	12.2	34,677	73,318	12.6	35,814	76,252
2024	293,477	11.0	32,282	65,847	12.2	35,804	73,732	12.6	36,978	76,683
2025	303,015	11.0	33,332	66,102	12.2	36,968	74,017	12.6	38,180	76,980
2026	312,863	11.0	34,415	66,228	12.2	38,169	74,158	12.6	39,421	77,127

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	\$ 234,608	14.1%	\$33,080	\$ 80,257	14.4%	\$33,784	\$ 81,625	16.0%	\$37,537	\$ 91,710
2018	242,233	14.1	34,155	81,357	14.4	34,882	82,743	16.0	38,757	92,966
2019	250,106	14.1	35,265	82,383	14.4	36,015	83,786	16.0	40,017	94,138
2020	258,234	14.1	36,411	83,325	14.4	37,186	84,744	16.0	41,317	95,214
2021	266,627	14.1	37,594	84,172	14.4	38,394	85,605	16.0	42,660	96,181
2022	275,292	14.1	38,816	84,911	14.4	39,642	86,357	16.0	44,047	97,026
2023	284,239	14.1	40,078	85,530	14.4	40,930	86,986	16.0	45,478	97,733
2024	293,477	14.1	41,380	86,013	14.4	42,261	87,478	16.0	46,956	98,285
2025	303,015	14.1	42,725	86,346	14.4	43,634	87,816	16.0	48,482	98,665
2026	312,863	14.1	44,114	86,511	14.4	45,052	87,984	16.0	50,058	98,853

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.

City of Lone Jack - 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	\$ 234,608	4.9%	\$11,496	\$ 39,923	6.7%	\$15,719	\$ 50,722	6.2%	\$14,546	\$ 45,273
2018	242,233	4.9	11,869	40,470	6.7	16,230	51,417	6.2	15,018	45,893
2019	250,106	4.9	12,255	40,980	6.7	16,757	52,065	6.2	15,507	46,472
2020	258,234	4.9	12,653	41,449	6.7	17,302	52,660	6.2	16,011	47,003
2021	266,627	4.9	13,065	41,870	6.7	17,864	53,195	6.2	16,531	47,481
2022	275,292	4.9	13,489	42,238	6.7	18,445	53,662	6.2	17,068	47,898
2023	284,239	4.9	13,928	42,546	6.7	19,044	54,053	6.2	17,623	48,247
2024	293,477	4.9	14,380	42,786	6.7	19,663	54,358	6.2	18,196	48,520
2025	303,015	4.9	14,848	42,951	6.7	20,302	54,568	6.2	18,787	48,708
2026	312,863	4.9	15,330	43,033	6.7	20,962	54,672	6.2	19,398	48,801

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	\$ 234,608	7.7%	\$18,065	\$ 54,750	8.5%	\$19,942	\$ 61,545	9.2%	\$21,584	\$ 64,236
2018	242,233	7.7	18,652	55,500	8.5	20,590	62,388	9.2	22,285	65,116
2019	250,106	7.7	19,258	56,200	8.5	21,259	63,175	9.2	23,010	65,937
2020	258,234	7.7	19,884	56,843	8.5	21,950	63,897	9.2	23,758	66,691
2021	266,627	7.7	20,530	57,421	8.5	22,663	64,546	9.2	24,530	67,369
2022	275,292	7.7	21,197	57,925	8.5	23,400	65,113	9.2	25,327	67,961
2023	284,239	7.7	21,886	58,347	8.5	24,160	65,587	9.2	26,150	68,456
2024	293,477	7.7	22,598	58,677	8.5	24,946	65,958	9.2	27,000	68,843
2025	303,015	7.7	23,332	58,904	8.5	25,756	66,213	9.2	27,877	69,109
2026	312,863	7.7	24,090	59,016	8.5	26,593	66,339	9.2	28,783	69,241

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	\$ 234,608	10.5%	\$24,634	\$ 72,350	10.8%	\$25,338	\$ 73,697	12.4%	\$29,091	\$ 83,180
2018	242,233	10.5	25,434	73,341	10.8	26,161	74,707	12.4	30,037	84,320
2019	250,106	10.5	26,261	74,266	10.8	27,011	75,649	12.4	31,013	85,383
2020	258,234	10.5	27,115	75,115	10.8	27,889	76,514	12.4	32,021	86,359
2021	266,627	10.5	27,996	75,878	10.8	28,796	77,291	12.4	33,062	87,236
2022	275,292	10.5	28,906	76,544	10.8	29,732	77,970	12.4	34,136	88,002
2023	284,239	10.5	29,845	77,102	10.8	30,698	78,538	12.4	35,246	88,643
2024	293,477	10.5	30,815	77,538	10.8	31,696	78,982	12.4	36,391	89,144
2025	303,015	10.5	31,817	77,838	10.8	32,726	79,287	12.4	37,574	89,489
2026	312,863	10.5	32,851	77,987	10.8	33,789	79,438	12.4	38,795	89,660

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.

City of Lone Jack - 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	\$ 234,608	5.1%	\$11,965	\$ 41,404	7.1%	\$16,657	\$ 52,613	6.4%	\$15,015	\$ 46,952
2018	242,233	5.1	12,354	41,971	7.1	17,199	53,334	6.4	15,503	47,595
2019	250,106	5.1	12,755	42,500	7.1	17,758	54,007	6.4	16,007	48,195
2020	258,234	5.1	13,170	42,986	7.1	18,335	54,624	6.4	16,527	48,746
2021	266,627	5.1	13,598	43,423	7.1	18,931	55,179	6.4	17,064	49,241
2022	275,292	5.1	14,040	43,804	7.1	19,546	55,664	6.4	17,619	49,673
2023	284,239	5.1	14,496	44,123	7.1	20,181	56,069	6.4	18,191	50,035
2024	293,477	5.1	14,967	44,372	7.1	20,837	56,386	6.4	18,783	50,318
2025	303,015	5.1	15,454	44,544	7.1	21,514	56,604	6.4	19,393	50,513
2026	312,863	5.1	15,956	44,629	7.1	22,213	56,712	6.4	20,023	50,609

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	\$ 234,608	8.1%	\$19,003	\$ 56,755	8.9%	\$20,880	\$ 63,790	9.6%	\$22,522	\$ 66,588
2018	242,233	8.1	19,621	57,533	8.9	21,559	64,664	9.6	23,254	67,500
2019	250,106	8.1	20,259	58,258	8.9	22,259	65,479	9.6	24,010	68,351
2020	258,234	8.1	20,917	58,924	8.9	22,983	66,228	9.6	24,790	69,132
2021	266,627	8.1	21,597	59,523	8.9	23,730	66,901	9.6	25,596	69,834
2022	275,292	8.1	22,299	60,046	8.9	24,501	67,489	9.6	26,428	70,447
2023	284,239	8.1	23,023	60,483	8.9	25,297	67,981	9.6	27,287	70,960
2024	293,477	8.1	23,772	60,825	8.9	26,119	68,365	9.6	28,174	71,361
2025	303,015	8.1	24,544	61,060	8.9	26,968	68,629	9.6	29,089	71,637
2026	312,863	8.1	25,342	61,177	8.9	27,845	68,760	9.6	30,035	71,774

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	\$ 234,608	10.9%	\$25,572	\$ 74,995	11.3%	\$26,511	\$ 76,384	12.9%	\$30,264	\$ 86,164
2018	242,233	10.9	26,403	76,022	11.3	27,372	77,430	12.9	31,248	87,344
2019	250,106	10.9	27,262	76,981	11.3	28,262	78,406	12.9	32,264	88,445
2020	258,234	10.9	28,148	77,861	11.3	29,180	79,302	12.9	33,312	89,456
2021	266,627	10.9	29,062	78,652	11.3	30,129	80,108	12.9	34,395	90,365
2022	275,292	10.9	30,007	79,343	11.3	31,108	80,812	12.9	35,513	91,159
2023	284,239	10.9	30,982	79,921	11.3	32,119	81,401	12.9	36,667	91,823
2024	293,477	10.9	31,989	80,373	11.3	33,163	81,861	12.9	37,859	92,342
2025	303,015	10.9	33,029	80,684	11.3	34,241	82,178	12.9	39,089	92,699
2026	312,863	10.9	34,102	80,838	11.3	35,354	82,335	12.9	40,359	92,876

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.

City of Lone Jack - 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	\$ 234,608	8.6%	\$20,176	\$ 44,309	10.5%	\$24,634	\$ 55,415	9.8%	\$22,992	\$ 49,659
2018	242,233	8.6	20,832	44,916	10.5	25,434	56,174	9.8	23,739	50,339
2019	250,106	8.6	21,509	45,482	10.5	26,261	56,882	9.8	24,510	50,974
2020	258,234	8.6	22,208	46,002	10.5	27,115	57,532	9.8	25,307	51,557
2021	266,627	8.6	22,930	46,469	10.5	27,996	58,117	9.8	26,129	52,081
2022	275,292	8.6	23,675	46,877	10.5	28,906	58,627	9.8	26,979	52,538
2023	284,239	8.6	24,445	47,218	10.5	29,845	59,054	9.8	27,855	52,921
2024	293,477	8.6	25,239	47,485	10.5	30,815	59,388	9.8	28,761	53,220
2025	303,015	8.6	26,059	47,669	10.5	31,817	59,618	9.8	29,695	53,426
2026	312,863	8.6	26,906	47,760	10.5	32,851	59,732	9.8	30,661	53,528

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	\$ 234,608	11.4%	\$26,745	\$ 59,397	12.4%	\$29,091	\$ 66,483	13.0%	\$30,499	\$ 69,146
2018	242,233	11.4	27,615	60,211	12.4	30,037	67,394	13.0	31,490	70,093
2019	250,106	11.4	28,512	60,970	12.4	31,013	68,244	13.0	32,514	70,977
2020	258,234	11.4	29,439	61,667	12.4	32,021	69,024	13.0	33,570	71,788
2021	266,627	11.4	30,395	62,294	12.4	33,062	69,725	13.0	34,662	72,517
2022	275,292	11.4	31,383	62,841	12.4	34,136	70,337	13.0	35,788	73,154
2023	284,239	11.4	32,403	63,299	12.4	35,246	70,849	13.0	36,951	73,687
2024	293,477	11.4	33,456	63,657	12.4	36,391	71,249	13.0	38,152	74,103
2025	303,015	11.4	34,544	63,903	12.4	37,574	71,525	13.0	39,392	74,390
2026	312,863	11.4	35,666	64,025	12.4	38,795	71,662	13.0	40,672	74,532

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	\$ 234,608	14.4%	\$33,784	\$ 77,543	14.7%	\$34,487	\$ 78,881	16.3%	\$38,241	\$ 88,649
2018	242,233	14.4	34,882	78,605	14.7	35,608	79,962	16.3	39,484	89,863
2019	250,106	14.4	36,015	79,596	14.7	36,766	80,970	16.3	40,767	90,996
2020	258,234	14.4	37,186	80,506	14.7	37,960	81,896	16.3	42,092	92,036
2021	266,627	14.4	38,394	81,324	14.7	39,194	82,728	16.3	43,460	92,971
2022	275,292	14.4	39,642	82,038	14.7	40,468	83,455	16.3	44,873	93,788
2023	284,239	14.4	40,930	82,636	14.7	41,783	84,063	16.3	46,331	94,471
2024	293,477	14.4	42,261	83,103	14.7	43,141	84,538	16.3	47,837	95,005
2025	303,015	14.4	43,634	83,424	14.7	44,543	84,865	16.3	49,391	95,372
2026	312,863	14.4	45,052	83,583	14.7	45,991	85,027	16.3	50,997	95,554

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.

City of Lone Jack - 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	\$ 234,608	8.8%	\$20,646	\$ 45,850	10.9%	\$25,572	\$ 57,311	10.1%	\$23,695	\$ 51,371
2018	242,233	8.8	21,317	46,478	10.9	26,403	58,096	10.1	24,466	52,075
2019	250,106	8.8	22,009	47,064	10.9	27,262	58,829	10.1	25,261	52,732
2020	258,234	8.8	22,725	47,602	10.9	28,148	59,502	10.1	26,082	53,335
2021	266,627	8.8	23,463	48,086	10.9	29,062	60,107	10.1	26,929	53,877
2022	275,292	8.8	24,226	48,508	10.9	30,007	60,635	10.1	27,804	54,350
2023	284,239	8.8	25,013	48,861	10.9	30,982	61,077	10.1	28,708	54,746
2024	293,477	8.8	25,826	49,137	10.9	31,989	61,422	10.1	29,641	55,055
2025	303,015	8.8	26,665	49,327	10.9	33,029	61,660	10.1	30,605	55,268
2026	312,863	8.8	27,532	49,421	10.9	34,102	61,778	10.1	31,599	55,374

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	\$ 234,608	11.9%	\$27,918	\$ 61,441	12.8%	\$30,030	\$ 68,799	13.4%	\$31,437	\$ 71,546
2018	242,233	11.9	28,826	62,283	12.8	31,006	69,742	13.4	32,459	72,526
2019	250,106	11.9	29,763	63,068	12.8	32,014	70,621	13.4	33,514	73,441
2020	258,234	11.9	30,730	63,789	12.8	33,054	71,428	13.4	34,603	74,281
2021	266,627	11.9	31,729	64,437	12.8	34,128	72,154	13.4	35,728	75,036
2022	275,292	11.9	32,760	65,003	12.8	35,237	72,788	13.4	36,889	75,695
2023	284,239	11.9	33,824	65,477	12.8	36,383	73,318	13.4	38,088	76,246
2024	293,477	11.9	34,924	65,847	12.8	37,565	73,732	13.4	39,326	76,677
2025	303,015	11.9	36,059	66,102	12.8	38,786	74,017	13.4	40,604	76,974
2026	312,863	11.9	37,231	66,228	12.8	40,046	74,158	13.4	41,924	77,121

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	\$ 234,608	14.8%	\$34,722	\$ 80,282	15.2%	\$35,660	\$ 81,658	16.8%	\$39,414	\$ 91,721
2018	242,233	14.8	35,850	81,382	15.2	36,819	82,777	16.8	40,695	92,978
2019	250,106	14.8	37,016	82,408	15.2	38,016	83,821	16.8	42,018	94,150
2020	258,234	14.8	38,219	83,350	15.2	39,252	84,779	16.8	43,383	95,226
2021	266,627	14.8	39,461	84,197	15.2	40,527	85,640	16.8	44,793	96,194
2022	275,292	14.8	40,743	84,936	15.2	41,844	86,392	16.8	46,249	97,039
2023	284,239	14.8	42,067	85,555	15.2	43,204	87,021	16.8	47,752	97,746
2024	293,477	14.8	43,435	86,039	15.2	44,609	87,513	16.8	49,304	98,298
2025	303,015	14.8	44,846	86,372	15.2	46,058	87,851	16.8	50,907	98,678
2026	312,863	14.8	46,304	86,537	15.2	47,555	88,019	16.8	52,561	98,866

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.

City of Lone Jack - Police

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	\$ 279,279	7.3%	\$20,387	\$ 162,500	9.8%	\$27,369	\$ 205,544	9.0%	\$25,135	\$ 184,822
2018	288,356	7.3	21,050	164,726	9.8	28,259	208,360	9.0	25,952	187,354
2019	297,728	7.3	21,734	166,803	9.8	29,177	210,987	9.0	26,796	189,716
2020	307,404	7.3	22,440	168,710	9.8	30,126	213,399	9.0	27,666	191,885
2021	317,395	7.3	23,170	170,424	9.8	31,105	215,567	9.0	28,566	193,835
2022	327,710	7.3	23,923	171,921	9.8	32,116	217,460	9.0	29,494	195,537
2023	338,361	7.3	24,700	173,173	9.8	33,159	219,044	9.0	30,452	196,961
2024	349,358	7.3	25,503	174,152	9.8	34,237	220,282	9.0	31,442	198,074
2025	360,712	7.3	26,332	174,825	9.8	35,350	221,134	9.0	32,464	198,840
2026	372,435	7.3	27,188	175,159	9.8	36,499	221,556	9.0	33,519	199,220

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	\$ 279,279	10.9%	\$30,441	\$ 222,301	12.3%	\$34,351	\$ 248,256	13.2%	\$36,865	\$ 259,433
2018	288,356	10.9	31,431	225,346	12.3	35,468	251,657	13.2	38,063	262,987
2019	297,728	10.9	32,452	228,187	12.3	36,621	254,830	13.2	39,300	266,303
2020	307,404	10.9	33,507	230,796	12.3	37,811	257,743	13.2	40,577	269,348
2021	317,395	10.9	34,596	233,141	12.3	39,040	260,362	13.2	41,896	272,085
2022	327,710	10.9	35,720	235,189	12.3	40,308	262,649	13.2	43,258	274,475
2023	338,361	10.9	36,881	236,902	12.3	41,618	264,562	13.2	44,664	276,474
2024	349,358	10.9	38,080	238,241	12.3	42,971	266,057	13.2	46,115	278,037
2025	360,712	10.9	39,318	239,162	12.3	44,368	267,086	13.2	47,614	279,112
2026	372,435	10.9	40,595	239,619	12.3	45,810	267,596	13.2	49,161	279,645

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	\$ 279,279	14.8%	\$41,333	\$ 290,964	15.2%	\$42,450	\$ 296,530	17.4%	\$48,595	\$ 333,649
2018	288,356	14.8	42,677	294,950	15.2	43,830	300,592	17.4	50,174	338,220
2019	297,728	14.8	44,064	298,669	15.2	45,255	304,382	17.4	51,805	342,485
2020	307,404	14.8	45,496	302,084	15.2	46,725	307,862	17.4	53,488	346,401
2021	317,395	14.8	46,974	305,153	15.2	48,244	310,990	17.4	55,227	349,921
2022	327,710	14.8	48,501	307,833	15.2	49,812	313,721	17.4	57,022	352,994
2023	338,361	14.8	50,077	310,075	15.2	51,431	316,006	17.4	58,875	355,565
2024	349,358	14.8	51,705	311,827	15.2	53,102	317,792	17.4	60,788	357,575
2025	360,712	14.8	53,385	313,033	15.2	54,828	319,021	17.4	62,764	358,958
2026	372,435	14.8	55,120	313,631	15.2	56,610	319,630	17.4	64,804	359,643

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.

City of Lone Jack - Police

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	\$ 279,279	7.7%	\$21,504	\$ 168,527	10.2%	\$28,486	\$ 212,919	9.4%	\$26,252	\$ 191,653
2018	288,356	7.7	22,203	170,836	10.2	29,412	215,836	9.4	27,105	194,279
2019	297,728	7.7	22,925	172,990	10.2	30,368	218,558	9.4	27,986	196,729
2020	307,404	7.7	23,670	174,968	10.2	31,355	221,057	9.4	28,896	198,978
2021	317,395	7.7	24,439	176,746	10.2	32,374	223,303	9.4	29,835	201,000
2022	327,710	7.7	25,234	178,298	10.2	33,426	225,264	9.4	30,805	202,765
2023	338,361	7.7	26,054	179,597	10.2	34,513	226,905	9.4	31,806	204,242
2024	349,358	7.7	26,901	180,612	10.2	35,635	228,187	9.4	32,840	205,396
2025	360,712	7.7	27,775	181,310	10.2	36,793	229,069	9.4	33,907	206,190
2026	372,435	7.7	28,677	181,656	10.2	37,988	229,506	9.4	35,009	206,584

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	\$ 279,279	11.5%	\$32,117	\$ 230,274	12.8%	\$35,748	\$ 257,067	13.7%	\$38,261	\$ 268,639
2018	288,356	11.5	33,161	233,429	12.8	36,910	260,589	13.7	39,505	272,319
2019	297,728	11.5	34,239	236,372	12.8	38,109	263,875	13.7	40,789	275,753
2020	307,404	11.5	35,351	239,074	12.8	39,348	266,892	13.7	42,114	278,906
2021	317,395	11.5	36,500	241,503	12.8	40,627	269,604	13.7	43,483	281,740
2022	327,710	11.5	37,687	243,624	12.8	41,947	271,972	13.7	44,896	284,214
2023	338,361	11.5	38,912	245,399	12.8	43,310	273,953	13.7	46,355	286,284
2024	349,358	11.5	40,176	246,786	12.8	44,718	275,501	13.7	47,862	287,902
2025	360,712	11.5	41,482	247,740	12.8	46,171	276,566	13.7	49,418	289,015
2026	372,435	11.5	42,830	248,213	12.8	47,672	277,094	13.7	51,024	289,567

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	\$ 279,279	15.4%	\$43,009	\$ 301,265	15.8%	\$44,126	\$ 307,040	18.1%	\$50,549	\$ 345,447
2018	288,356	15.4	44,407	305,392	15.8	45,560	311,246	18.1	52,192	350,180
2019	297,728	15.4	45,850	309,243	15.8	47,041	315,171	18.1	53,889	354,596
2020	307,404	15.4	47,340	312,779	15.8	48,570	318,774	18.1	55,640	358,650
2021	317,395	15.4	48,879	315,957	15.8	50,148	322,013	18.1	57,448	362,294
2022	327,710	15.4	50,467	318,732	15.8	51,778	324,841	18.1	59,316	365,476
2023	338,361	15.4	52,108	321,054	15.8	53,461	327,207	18.1	61,243	368,138
2024	349,358	15.4	53,801	322,868	15.8	55,199	329,056	18.1	63,234	370,219
2025	360,712	15.4	55,550	324,117	15.8	56,992	330,328	18.1	65,289	371,651
2026	372,435	15.4	57,355	324,736	15.8	58,845	330,959	18.1	67,411	372,361

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.

City of Lone Jack - Police

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	\$ 279,279	11.1%	\$31,000	\$ 171,900	13.7%	\$38,261	\$ 214,907	12.7%	\$35,468	\$ 194,132
2018	288,356	11.1	32,008	174,255	13.7	39,505	217,851	12.7	36,621	196,792
2019	297,728	11.1	33,048	176,452	13.7	40,789	220,598	12.7	37,811	199,273
2020	307,404	11.1	34,122	178,469	13.7	42,114	223,120	12.7	39,040	201,551
2021	317,395	11.1	35,231	180,282	13.7	43,483	225,387	12.7	40,309	203,599
2022	327,710	11.1	36,376	181,865	13.7	44,896	227,366	12.7	41,619	205,387
2023	338,361	11.1	37,558	183,190	13.7	46,355	229,022	12.7	42,972	206,883
2024	349,358	11.1	38,779	184,225	13.7	47,862	230,316	12.7	44,368	208,052
2025	360,712	11.1	40,039	184,937	13.7	49,418	231,207	12.7	45,810	208,857
2026	372,435	11.1	41,340	185,290	13.7	51,024	231,648	12.7	47,299	209,256

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	\$ 279,279	14.8%	\$41,333	\$ 231,567	16.1%	\$44,964	\$ 257,909	17.0%	\$47,477	\$ 269,005
2018	288,356	14.8	42,677	234,739	16.1	46,425	261,442	17.0	49,021	272,690
2019	297,728	14.8	44,064	237,699	16.1	47,934	264,739	17.0	50,614	276,128
2020	307,404	14.8	45,496	240,417	16.1	49,492	267,766	17.0	52,259	279,285
2021	317,395	14.8	46,974	242,860	16.1	51,101	270,487	17.0	53,957	282,123
2022	327,710	14.8	48,501	244,993	16.1	52,761	272,863	17.0	55,711	284,601
2023	338,361	14.8	50,077	246,778	16.1	54,476	274,851	17.0	57,521	286,674
2024	349,358	14.8	51,705	248,173	16.1	56,247	276,404	17.0	59,391	288,294
2025	360,712	14.8	53,385	249,133	16.1	58,075	277,473	17.0	61,321	289,409
2026	372,435	14.8	55,120	249,609	16.1	59,962	278,003	17.0	63,314	289,962

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	\$ 279,279	18.7%	\$52,225	\$ 300,864	19.1%	\$53,342	\$ 306,434	21.3%	\$59,486	\$ 343,830
2018	288,356	18.7	53,923	304,986	19.1	55,076	310,632	21.3	61,420	348,540
2019	297,728	18.7	55,675	308,832	19.1	56,866	314,549	21.3	63,416	352,935
2020	307,404	18.7	57,485	312,363	19.1	58,714	318,145	21.3	65,477	356,970
2021	317,395	18.7	59,353	315,537	19.1	60,622	321,378	21.3	67,605	360,597
2022	327,710	18.7	61,282	318,308	19.1	62,593	324,200	21.3	69,802	363,764
2023	338,361	18.7	63,274	320,627	19.1	64,627	326,562	21.3	72,071	366,414
2024	349,358	18.7	65,330	322,439	19.1	66,727	328,408	21.3	74,413	368,485
2025	360,712	18.7	67,453	323,686	19.1	68,896	329,678	21.3	76,832	369,910
2026	372,435	18.7	69,645	324,304	19.1	71,135	330,308	21.3	79,329	370,616

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.

City of Lone Jack - Police

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	\$ 279,279	11.4%	\$31,838	\$ 177,880	14.1%	\$39,378	\$ 222,363	13.1%	\$36,586	\$ 200,910
2018	288,356	11.4	32,873	180,317	14.1	40,658	225,409	13.1	37,775	203,662
2019	297,728	11.4	33,941	182,591	14.1	41,980	228,251	13.1	39,002	206,230
2020	307,404	11.4	35,044	184,679	14.1	43,344	230,861	13.1	40,270	208,588
2021	317,395	11.4	36,183	186,556	14.1	44,753	233,207	13.1	41,579	210,707
2022	327,710	11.4	37,359	188,194	14.1	46,207	235,255	13.1	42,930	212,558
2023	338,361	11.4	38,573	189,565	14.1	47,709	236,969	13.1	44,325	214,106
2024	349,358	11.4	39,827	190,636	14.1	49,259	238,308	13.1	45,766	215,316
2025	360,712	11.4	41,121	191,373	14.1	50,860	239,230	13.1	47,253	216,149
2026	372,435	11.4	42,458	191,738	14.1	52,513	239,687	13.1	48,789	216,562

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	\$ 279,279	15.4%	\$43,009	\$ 239,640	16.7%	\$46,640	\$ 266,811	17.6%	\$49,153	\$ 278,332
2018	288,356	15.4	44,407	242,923	16.7	48,155	270,466	17.6	50,751	282,145
2019	297,728	15.4	45,850	245,986	16.7	49,721	273,876	17.6	52,400	285,703
2020	307,404	15.4	47,340	248,798	16.7	51,336	277,007	17.6	54,103	288,969
2021	317,395	15.4	48,879	251,326	16.7	53,005	279,822	17.6	55,862	291,905
2022	327,710	15.4	50,467	253,533	16.7	54,728	282,279	17.6	57,677	294,469
2023	338,361	15.4	52,108	255,380	16.7	56,506	284,335	17.6	59,552	296,614
2024	349,358	15.4	53,801	256,823	16.7	58,343	285,942	17.6	61,487	298,290
2025	360,712	15.4	55,550	257,816	16.7	60,239	287,048	17.6	63,485	299,444
2026	372,435	15.4	57,355	258,308	16.7	62,197	287,596	17.6	65,549	300,016

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	\$ 279,279	19.3%	\$53,901	\$ 311,303	19.7%	\$55,018	\$ 317,062	22.0%	\$61,441	\$ 355,772
2018	288,356	19.3	55,653	315,568	19.7	56,806	321,406	22.0	63,438	360,646
2019	297,728	19.3	57,462	319,547	19.7	58,652	325,459	22.0	65,500	365,194
2020	307,404	19.3	59,329	323,200	19.7	60,559	329,180	22.0	67,629	369,369
2021	317,395	19.3	61,257	326,484	19.7	62,527	332,525	22.0	69,827	373,122
2022	327,710	19.3	63,248	329,351	19.7	64,559	335,445	22.0	72,096	376,399
2023	338,361	19.3	65,304	331,750	19.7	66,657	337,888	22.0	74,439	379,141
2024	349,358	19.3	67,426	333,625	19.7	68,824	339,798	22.0	76,859	381,284
2025	360,712	19.3	69,617	334,915	19.7	71,060	341,112	22.0	79,357	382,758
2026	372,435	19.3	71,880	335,555	19.7	73,370	341,763	22.0	81,936	383,489

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.

City of Lone Jack - Police

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	\$ 279,279	7.6%	\$21,225	\$ 167,020	10.1%	\$28,207	\$ 211,141	9.5%	\$26,532	\$ 196,301
2018	288,356	7.6	21,915	169,308	10.1	29,124	214,034	9.5	27,394	198,990
2019	297,728	7.6	22,627	171,443	10.1	30,071	216,733	9.5	28,284	201,499
2020	307,404	7.6	23,363	173,403	10.1	31,048	219,211	9.5	29,203	203,803
2021	317,395	7.6	24,122	175,165	10.1	32,057	221,438	9.5	30,153	205,874
2022	327,710	7.6	24,906	176,703	10.1	33,099	223,383	9.5	31,132	207,682
2023	338,361	7.6	25,715	177,990	10.1	34,174	225,010	9.5	32,144	209,195
2024	349,358	7.6	26,551	178,996	10.1	35,285	226,282	9.5	33,189	210,377
2025	360,712	7.6	27,414	179,688	10.1	36,432	227,157	9.5	34,268	211,191
2026	372,435	7.6	28,305	180,031	10.1	37,616	227,591	9.5	35,381	211,594

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	\$ 279,279	11.5%	\$32,117	\$ 233,110	12.7%	\$35,468	\$ 254,975	13.6%	\$37,982	\$ 269,598
2018	288,356	11.5	33,161	236,304	12.7	36,621	258,468	13.6	39,216	273,291
2019	297,728	11.5	34,239	239,284	12.7	37,811	261,727	13.6	40,491	276,737
2020	307,404	11.5	35,351	242,020	12.7	39,040	264,719	13.6	41,807	279,901
2021	317,395	11.5	36,500	244,479	12.7	40,309	267,409	13.6	43,166	282,745
2022	327,710	11.5	37,687	246,626	12.7	41,619	269,757	13.6	44,569	285,228
2023	338,361	11.5	38,912	248,423	12.7	42,972	271,722	13.6	46,017	287,306
2024	349,358	11.5	40,176	249,827	12.7	44,368	273,258	13.6	47,513	288,930
2025	360,712	11.5	41,482	250,793	12.7	45,810	274,315	13.6	49,057	290,047
2026	372,435	11.5	42,830	251,272	12.7	47,299	274,839	13.6	50,651	290,601

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	\$ 279,279	15.2%	\$42,450	\$ 298,758	15.7%	\$43,847	\$ 306,094	17.8%	\$49,712	\$ 342,517
2018	288,356	15.2	43,830	302,851	15.7	45,272	310,287	17.8	51,327	347,209
2019	297,728	15.2	45,255	306,670	15.7	46,743	314,200	17.8	52,996	351,587
2020	307,404	15.2	46,725	310,176	15.7	48,262	317,792	17.8	54,718	355,607
2021	317,395	15.2	48,244	313,328	15.7	49,831	321,021	17.8	56,496	359,220
2022	327,710	15.2	49,812	316,080	15.7	51,450	323,840	17.8	58,332	362,375
2023	338,361	15.2	51,431	318,382	15.7	53,123	326,199	17.8	60,228	365,015
2024	349,358	15.2	53,102	320,181	15.7	54,849	328,043	17.8	62,186	367,078
2025	360,712	15.2	54,828	321,419	15.7	56,632	329,312	17.8	64,207	368,498
2026	372,435	15.2	56,610	322,033	15.7	58,472	329,941	17.8	66,293	369,202

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.

City of Lone Jack - Police

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	\$ 279,279	7.9%	\$22,063	\$ 173,260	10.5%	\$29,324	\$ 218,761	9.9%	\$27,649	\$ 203,592
2018	288,356	7.9	22,780	175,634	10.5	30,277	221,758	9.9	28,547	206,381
2019	297,728	7.9	23,521	177,849	10.5	31,261	224,554	9.9	29,475	208,983
2020	307,404	7.9	24,285	179,882	10.5	32,277	227,121	9.9	30,433	211,372
2021	317,395	7.9	25,074	181,710	10.5	33,326	229,429	9.9	31,422	213,520
2022	327,710	7.9	25,889	183,306	10.5	34,410	231,444	9.9	32,443	215,395
2023	338,361	7.9	26,731	184,641	10.5	35,528	233,130	9.9	33,498	216,964
2024	349,358	7.9	27,599	185,685	10.5	36,683	234,448	9.9	34,586	218,190
2025	360,712	7.9	28,496	186,403	10.5	37,875	235,355	9.9	35,710	219,034
2026	372,435	7.9	29,422	186,759	10.5	39,106	235,804	9.9	36,871	219,452

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	\$ 279,279	12.0%	\$33,513	\$ 241,510	13.2%	\$36,865	\$ 264,058	14.2%	\$39,658	\$ 279,233
2018	288,356	12.0	34,603	244,819	13.2	38,063	267,676	14.2	40,947	283,058
2019	297,728	12.0	35,727	247,906	13.2	39,300	271,051	14.2	42,277	286,627
2020	307,404	12.0	36,888	250,740	13.2	40,577	274,150	14.2	43,651	289,904
2021	317,395	12.0	38,087	253,288	13.2	41,896	276,936	14.2	45,070	292,850
2022	327,710	12.0	39,325	255,512	13.2	43,258	279,368	14.2	46,535	295,422
2023	338,361	12.0	40,603	257,373	13.2	44,664	281,403	14.2	48,047	297,574
2024	349,358	12.0	41,923	258,828	13.2	46,115	282,993	14.2	49,609	299,256
2025	360,712	12.0	43,285	259,829	13.2	47,614	284,087	14.2	51,221	300,413
2026	372,435	12.0	44,692	260,325	13.2	49,161	284,629	14.2	52,886	300,987

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	\$ 279,279	15.8%	\$44,126	\$ 309,371	16.3%	\$45,522	\$ 316,958	18.5%	\$51,667	\$ 354,689
2018	288,356	15.8	45,560	313,609	16.3	47,002	321,300	18.5	53,346	359,548
2019	297,728	15.8	47,041	317,563	16.3	48,530	325,351	18.5	55,080	364,082
2020	307,404	15.8	48,570	321,194	16.3	50,107	329,071	18.5	56,870	368,245
2021	317,395	15.8	50,148	324,458	16.3	51,735	332,415	18.5	58,718	371,987
2022	327,710	15.8	51,778	327,308	16.3	53,417	335,334	18.5	60,626	375,254
2023	338,361	15.8	53,461	329,692	16.3	55,153	337,777	18.5	62,597	377,987
2024	349,358	15.8	55,199	331,555	16.3	56,945	339,686	18.5	64,631	380,123
2025	360,712	15.8	56,992	332,837	16.3	58,796	341,000	18.5	66,732	381,593
2026	372,435	15.8	58,845	333,473	16.3	60,707	341,651	18.5	68,900	382,322

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.

City of Lone Jack - Police

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	\$ 279,279	11.3%	\$31,559	\$ 176,361	13.9%	\$38,820	\$ 220,467	13.3%	\$37,144	\$ 205,540
2018	288,356	11.3	32,584	178,777	13.9	40,081	223,487	13.3	38,351	208,356
2019	297,728	11.3	33,643	181,031	13.9	41,384	226,305	13.3	39,598	210,983
2020	307,404	11.3	34,737	183,101	13.9	42,729	228,892	13.3	40,885	213,395
2021	317,395	11.3	35,866	184,961	13.9	44,118	231,218	13.3	42,214	215,563
2022	327,710	11.3	37,031	186,585	13.9	45,552	233,249	13.3	43,585	217,456
2023	338,361	11.3	38,235	187,944	13.9	47,032	234,948	13.3	45,002	219,040
2024	349,358	11.3	39,477	189,006	13.9	48,561	236,276	13.3	46,465	220,278
2025	360,712	11.3	40,760	189,737	13.9	50,139	237,190	13.3	47,975	221,130
2026	372,435	11.3	42,085	190,099	13.9	51,768	237,643	13.3	49,534	221,552

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	\$ 279,279	15.3%	\$42,730	\$ 242,335	16.5%	\$46,081	\$ 263,436	17.5%	\$48,874	\$ 279,158
2018	288,356	15.3	44,118	245,655	16.5	47,579	267,045	17.5	50,462	282,982
2019	297,728	15.3	45,552	248,753	16.5	49,125	270,412	17.5	52,102	286,550
2020	307,404	15.3	47,033	251,597	16.5	50,722	273,504	17.5	53,796	289,826
2021	317,395	15.3	48,561	254,153	16.5	52,370	276,283	17.5	55,544	292,771
2022	327,710	15.3	50,140	256,385	16.5	54,072	278,709	17.5	57,349	295,342
2023	338,361	15.3	51,769	258,253	16.5	55,830	280,739	17.5	59,213	297,493
2024	349,358	15.3	53,452	259,713	16.5	57,644	282,326	17.5	61,138	299,174
2025	360,712	15.3	55,189	260,717	16.5	59,517	283,418	17.5	63,125	300,331
2026	372,435	15.3	56,983	261,215	16.5	61,452	283,959	17.5	65,176	300,904

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	\$ 279,279	19.1%	\$53,342	\$ 308,649	19.6%	\$54,739	\$ 315,943	21.7%	\$60,604	\$ 352,730
2018	288,356	19.1	55,076	312,877	19.6	56,518	320,271	21.7	62,573	357,562
2019	297,728	19.1	56,866	316,822	19.6	58,355	324,309	21.7	64,607	362,071
2020	307,404	19.1	58,714	320,444	19.6	60,251	328,017	21.7	66,707	366,211
2021	317,395	19.1	60,622	323,700	19.6	62,209	331,350	21.7	68,875	369,932
2022	327,710	19.1	62,593	326,543	19.6	64,231	334,260	21.7	71,113	373,181
2023	338,361	19.1	64,627	328,922	19.6	66,319	336,695	21.7	73,424	375,899
2024	349,358	19.1	66,727	330,781	19.6	68,474	338,598	21.7	75,811	378,023
2025	360,712	19.1	68,896	332,060	19.6	70,700	339,907	21.7	78,275	379,485
2026	372,435	19.1	71,135	332,694	19.6	72,997	340,556	21.7	80,818	380,210

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.

City of Lone Jack - Police

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	\$ 279,279	11.7%	\$32,676	\$ 182,504	14.3%	\$39,937	\$ 228,163	13.6%	\$37,982	\$ 212,745
2018	288,356	11.7	33,738	185,004	14.3	41,235	231,289	13.6	39,216	215,660
2019	297,728	11.7	34,834	187,337	14.3	42,575	234,205	13.6	40,491	218,379
2020	307,404	11.7	35,966	189,479	14.3	43,959	236,883	13.6	41,807	220,876
2021	317,395	11.7	37,135	191,404	14.3	45,387	239,290	13.6	43,166	223,120
2022	327,710	11.7	38,342	193,085	14.3	46,863	241,392	13.6	44,569	225,080
2023	338,361	11.7	39,588	194,491	14.3	48,386	243,150	13.6	46,017	226,720
2024	349,358	11.7	40,875	195,590	14.3	49,958	244,524	13.6	47,513	228,001
2025	360,712	11.7	42,203	196,346	14.3	51,582	245,470	13.6	49,057	228,883
2026	372,435	11.7	43,575	196,721	14.3	53,258	245,939	13.6	50,651	229,320

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	\$ 279,279	15.9%	\$44,405	\$ 250,845	17.1%	\$47,757	\$ 273,771	18.1%	\$50,549	\$ 288,879
2018	288,356	15.9	45,849	254,282	17.1	49,309	277,522	18.1	52,192	292,837
2019	297,728	15.9	47,339	257,488	17.1	50,911	281,021	18.1	53,889	296,529
2020	307,404	15.9	48,877	260,432	17.1	52,566	284,234	18.1	55,640	299,919
2021	317,395	15.9	50,466	263,078	17.1	54,275	287,122	18.1	57,448	302,966
2022	327,710	15.9	52,106	265,388	17.1	56,038	289,644	18.1	59,316	305,627
2023	338,361	15.9	53,799	267,321	17.1	57,860	291,754	18.1	61,243	307,853
2024	349,358	15.9	55,548	268,832	17.1	59,740	293,403	18.1	63,234	309,593
2025	360,712	15.9	57,353	269,872	17.1	61,682	294,538	18.1	65,289	310,790
2026	372,435	15.9	59,217	270,387	17.1	63,686	295,100	18.1	67,411	311,383

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	\$ 279,279	19.7%	\$55,018	\$ 319,412	20.2%	\$56,414	\$ 326,987	22.4%	\$62,558	\$ 365,058
2018	288,356	19.7	56,806	323,788	20.2	58,248	331,467	22.4	64,592	370,059
2019	297,728	19.7	58,652	327,871	20.2	60,141	335,647	22.4	66,691	374,725
2020	307,404	19.7	60,559	331,620	20.2	62,096	339,484	22.4	68,858	379,009
2021	317,395	19.7	62,527	334,990	20.2	64,114	342,933	22.4	71,096	382,860
2022	327,710	19.7	64,559	337,932	20.2	66,197	345,945	22.4	73,407	386,222
2023	338,361	19.7	66,657	340,394	20.2	68,349	348,465	22.4	75,793	389,035
2024	349,358	19.7	68,824	342,318	20.2	70,570	350,434	22.4	78,256	391,234
2025	360,712	19.7	71,060	343,642	20.2	72,864	351,789	22.4	80,799	392,747
2026	372,435	19.7	73,370	344,298	20.2	75,232	352,461	22.4	83,425	393,497

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.