



The Initial Valuation For

St. Clair Fire Protection District

as of November 30, 2018



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January 31, 2019

St. Clair Fire Protection District
St. Clair, 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). This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

This report was prepared at the request of the political subdivision and is intended for use by the political subdivision and those designated or approved by the political subdivision. This report may be provided to parties other than the political subdivision only in its entirety and only with the permission of the political subdivision. GRS is not responsible for unauthorized use of this report.

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, 2018.

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. This valuation assumed the ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our expertise and not performed. 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 November 30, 2018. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

This report includes risk commentary in Appendix VI, but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

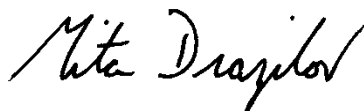
If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the political subdivision as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the actuarial standards of practice issued by the Actuarial Standards Board, and with applicable statutes.

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, 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.

St. Clair Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.20%	4.40%	0.20%	13.80%
	Fire	4.60	4.70	0.60	9.90
L-3	General	11.50	6.10	0.30	17.90
	Fire	5.80	6.50	0.70	13.00
LT-4(65)	General	10.30	5.20	0.20	15.70
	Fire	6.00	6.70	0.60	13.30
LT-5(65)	General	12.40	6.80	0.30	19.50
	Fire	6.80	8.10	0.70	15.60
L-7	General	13.90	7.90	0.30	22.10
	Fire	7.00	8.40	0.80	16.20
LT-8(65)	General	14.40	8.30	0.30	23.00
	Fire	7.70	9.40	0.80	17.90
L-12	General	16.20	9.60	0.40	26.20
	Fire	8.20	10.30	0.90	19.40
LT-14(65)	General	16.50	9.80	0.40	26.70
	Fire	8.50	10.90	0.90	20.30
L-6	General	18.60	11.30	0.50	30.40
	Fire	9.40	12.10	1.00	22.50

* 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.

St. Clair Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.50%	4.70%	0.20%	14.40%
	Fire	4.80	4.90	0.60	10.30
L-3	General	11.90	6.40	0.30	18.60
	Fire	6.00	6.90	0.70	13.60
LT-4(65)	General	10.60	5.50	0.20	16.30
	Fire	6.20	7.00	0.60	13.80
LT-5(65)	General	12.80	7.10	0.30	20.20
	Fire	7.10	8.40	0.70	16.20
L-7	General	14.30	8.20	0.30	22.80
	Fire	7.20	8.90	0.80	16.90
LT-8(65)	General	14.90	8.70	0.30	23.90
	Fire	7.90	10.00	0.80	18.70
L-12	General	16.80	10.00	0.40	27.20
	Fire	8.50	10.70	0.90	20.10
LT-14(65)	General	17.10	10.20	0.40	27.70
	Fire	8.80	11.40	0.90	21.10
L-6	General	19.20	11.80	0.50	31.50
	Fire	9.70	12.80	1.00	23.50

* 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.

St. Clair Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.30%	8.00%	0.20%	17.50%
	Fire	4.80	8.40	0.60	13.80
L-3	General	11.60	9.80	0.30	21.70
	Fire	6.00	10.20	0.70	16.90
LT-4(65)	General	10.40	8.90	0.20	19.50
	Fire	6.20	10.40	0.60	17.20
LT-5(65)	General	12.40	10.40	0.30	23.10
	Fire	7.00	11.80	0.70	19.50
L-7	General	13.90	11.60	0.30	25.80
	Fire	7.20	12.10	0.80	20.10
LT-8(65)	General	14.50	12.00	0.30	26.80
	Fire	7.90	13.10	0.80	21.80
L-12	General	16.20	13.40	0.40	30.00
	Fire	8.40	14.00	0.90	23.30
LT-14(65)	General	16.50	13.60	0.40	30.50
	Fire	8.80	14.50	0.90	24.20
L-6	General	18.60	15.20	0.50	34.30
	Fire	9.60	15.80	1.00	26.40

* 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.

St. Clair Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.60%	8.30%	0.20%	18.10%
	Fire	5.00	8.60	0.60	14.20
L-3	General	12.00	10.10	0.30	22.40
	Fire	6.20	10.60	0.70	17.50
LT-4(65)	General	10.70	9.10	0.20	20.00
	Fire	6.40	10.70	0.60	17.70
LT-5(65)	General	12.90	10.80	0.30	24.00
	Fire	7.30	12.10	0.70	20.10
L-7	General	14.40	12.00	0.30	26.70
	Fire	7.50	12.50	0.80	20.80
LT-8(65)	General	15.00	12.40	0.30	27.70
	Fire	8.20	13.60	0.80	22.60
L-12	General	16.80	13.80	0.40	31.00
	Fire	8.70	14.40	0.90	24.00
LT-14(65)	General	17.10	14.00	0.40	31.50
	Fire	9.10	15.00	0.90	25.00
L-6	General	19.20	15.70	0.50	35.40
	Fire	10.00	16.40	1.00	27.40

* 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.

St. Clair Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.20%	4.40%	0.20%	13.80%
	Fire	4.80	4.90	0.60	10.30
L-3	General	11.50	6.10	0.30	17.90
	Fire	6.00	6.90	0.70	13.60
LT-4(65)	General	10.30	5.20	0.20	15.70
	Fire	6.40	7.30	0.60	14.30
LT-5(65)	General	12.40	6.80	0.30	19.50
	Fire	7.30	8.70	0.70	16.70
L-7	General	13.90	7.90	0.30	22.10
	Fire	7.30	8.80	0.80	16.90
LT-8(65)	General	14.40	8.30	0.30	23.00
	Fire	8.10	10.00	0.80	18.90
L-12	General	16.20	9.60	0.40	26.20
	Fire	8.50	10.70	0.90	20.10
LT-14(65)	General	16.50	9.80	0.40	26.70
	Fire	8.90	11.30	0.90	21.10
L-6	General	18.60	11.30	0.50	30.40
	Fire	9.70	12.80	1.00	23.50

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.

St. Clair Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.50%	4.70%	0.20%	14.40%
	Fire	5.00	5.20	0.60	10.80
L-3	General	11.90	6.40	0.30	18.60
	Fire	6.30	7.20	0.70	14.20
LT-4(65)	General	10.60	5.50	0.20	16.30
	Fire	6.70	7.60	0.60	14.90
LT-5(65)	General	12.80	7.10	0.30	20.20
	Fire	7.50	9.10	0.70	17.30
L-7	General	14.30	8.20	0.30	22.80
	Fire	7.50	9.30	0.80	17.60
LT-8(65)	General	14.90	8.70	0.30	23.90
	Fire	8.40	10.40	0.80	19.60
L-12	General	16.80	10.00	0.40	27.20
	Fire	8.80	11.20	0.90	20.90
LT-14(65)	General	17.10	10.20	0.40	27.70
	Fire	9.20	11.90	0.90	22.00
L-6	General	19.20	11.80	0.50	31.50
	Fire	10.10	13.20	1.00	24.30

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

* 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.

St. Clair Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.30%	8.00%	0.20%	17.50%
	Fire	5.00	8.60	0.60	14.20
L-3	General	11.60	9.80	0.30	21.70
	Fire	6.20	10.60	0.70	17.50
LT-4(65)	General	10.40	8.90	0.20	19.50
	Fire	6.60	11.00	0.60	18.20
LT-5(65)	General	12.40	10.40	0.30	23.10
	Fire	7.50	12.40	0.70	20.60
L-7	General	13.90	11.60	0.30	25.80
	Fire	7.50	12.50	0.80	20.80
LT-8(65)	General	14.50	12.00	0.30	26.80
	Fire	8.30	13.70	0.80	22.80
L-12	General	16.20	13.40	0.40	30.00
	Fire	8.70	14.40	0.90	24.00
LT-14(65)	General	16.50	13.60	0.40	30.50
	Fire	9.10	15.00	0.90	25.00
L-6	General	18.60	15.20	0.50	34.30
	Fire	10.00	16.40	1.00	27.40

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.

St. Clair Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	9.60%	8.30%	0.20%	18.10%
	Fire	5.20	8.90	0.60	14.70
L-3	General	12.00	10.10	0.30	22.40
	Fire	6.50	10.90	0.70	18.10
LT-4(65)	General	10.70	9.10	0.20	20.00
	Fire	6.80	11.40	0.60	18.80
LT-5(65)	General	12.90	10.80	0.30	24.00
	Fire	7.70	12.80	0.70	21.20
L-7	General	14.40	12.00	0.30	26.70
	Fire	7.80	12.90	0.80	21.50
LT-8(65)	General	15.00	12.40	0.30	27.70
	Fire	8.60	14.10	0.80	23.50
L-12	General	16.80	13.80	0.40	31.00
	Fire	9.00	14.90	0.90	24.80
LT-14(65)	General	17.10	14.00	0.40	31.50
	Fire	9.50	15.50	0.90	25.90
L-6	General	19.20	15.70	0.50	35.40
	Fire	10.30	16.90	1.00	28.20

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

* 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.

St. Clair Fire Protection District

Employer Contribution Dollars **Regular Retirement Eligibility**

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

Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 6,066	\$ 79,609
L-3	7,835	105,114
LT-4(65)	6,866	106,660
LT-5(65)	8,509	125,210
L-7	9,604	130,620
LT-8(65)	10,067	144,532
L-12	11,457	155,353
LT-14(65)	11,668	163,082
L-6	13,268	181,632

Non-Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 7,624	\$ 109,752
L-3	9,435	135,258
LT-4(65)	8,424	136,803
LT-5(65)	10,109	155,353
L-7	11,246	160,763
LT-8(65)	11,668	174,675
L-12	13,058	185,496
LT-14(65)	13,268	193,225
L-6	14,911	211,775

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.

St. Clair Fire Protection District

Employer Contribution Dollars **Rule of 80 Retirement Eligibility**

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

Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 6,066	\$ 83,473
L-3	7,835	109,752
LT-4(65)	6,866	115,162
LT-5(65)	8,509	133,712
L-7	9,604	136,030
LT-8(65)	10,067	151,488
L-12	11,457	161,536
LT-14(65)	11,668	170,038
L-6	13,268	187,815

Non-Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	\$ 7,624	\$ 113,616
L-3	9,435	139,895
LT-4(65)	8,424	145,305
LT-5(65)	10,109	163,855
L-7	11,246	166,174
LT-8(65)	11,668	181,632
L-12	13,058	191,679
LT-14(65)	13,268	200,181
L-6	14,911	217,958

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.

St. Clair Fire Protection District

Employees and Payroll Included in the Valuation

	General	Fire
Number of Employees	1	17
Annual Payroll	\$ 42,122	\$ 772,900

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:

St. Clair Fire Protection District

Regular Retirement Eligibility

Benefit Group	Employee Group	Contributory		Non-Contributory	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 68,044	\$ 70,409	\$ 68,874	\$ 71,211
	Fire	628,124	650,828	654,581	677,393
L-3	General	85,458	88,411	86,089	89,019
	Fire	790,831	818,948	818,250	846,739
LT-4(65)	General	76,279	78,935	77,071	79,689
	Fire	813,033	842,319	838,657	868,050
LT-5(65)	General	91,645	94,807	92,232	95,379
	Fire	929,459	962,579	956,302	989,734
L-7	General	102,888	106,430	103,309	106,812
	Fire	952,957	986,694	981,934	1,016,113
LT-8(65)	General	107,013	110,695	107,409	111,051
	Fire	1,045,369	1,082,402	1,073,983	1,111,471
L-12	General	120,308	124,448	120,532	124,609
	Fire	1,114,840	1,154,204	1,145,567	1,185,460
LT-14(65)	General	122,370	126,577	122,585	126,736
	Fire	1,161,048	1,202,096	1,191,556	1,233,121
L-6	General	137,724	142,455	137,751	142,415
	Fire	1,276,674	1,321,473	1,309,235	1,354,833

St. Clair Fire Protection District

Unfunded Actuarial Accrued Liability (UAAL)

Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Contributory		Non-Contributory	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 68,044	\$ 70,409	\$ 68,874	\$ 71,211
	Fire	653,629	677,504	680,049	704,024
L-3	General	85,458	88,411	86,089	89,019
	Fire	822,480	852,179	850,079	880,057
LT-4(65)	General	76,279	78,935	77,071	79,689
	Fire	874,371	906,202	899,915	931,844
LT-5(65)	General	91,645	94,807	92,232	95,379
	Fire	988,026	1,023,734	1,014,952	1,050,889
L-7	General	102,888	106,430	103,309	106,812
	Fire	990,930	1,026,411	1,020,093	1,056,096
LT-8(65)	General	107,013	110,695	107,409	111,051
	Fire	1,101,258	1,140,739	1,130,036	1,169,982
L-12	General	120,308	124,448	120,532	124,609
	Fire	1,159,004	1,200,422	1,190,068	1,232,068
LT-14(65)	General	122,370	126,577	122,585	126,736
	Fire	1,214,140	1,257,581	1,245,040	1,289,042
L-6	General	137,724	142,455	137,751	142,415
	Fire	1,327,031	1,374,265	1,360,036	1,408,090

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 investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.00%. Adopted 2011 and 2016.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The pre-retirement mortality tables used were the RP-2014 employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. For both the post-retirement and pre-retirement tables, the base year for males was then established to be 2017. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to the above described tables. Adopted 2016.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2016.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2016.
5. Post-retirement cost of living allowances are assumed to be 2.50% per year. Adopted 2016.
6. Total active member payroll is assumed to increase a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2016.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.

Schedule 1.

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

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

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

Schedule 2.

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

Early Retirement

Retirement	General Members		Retirement		
Ages	Men	Women	Ages	Police	Fire
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	General Members		Retirement		
Ages	Men	Women	Ages	Police	Fire
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, 2018

(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 $\frac{1}{2}$ 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	\$ 889	\$1,414	94%
2,000	700	1,032	1,732	87%
2,500	875	1,175	2,050	82%
3,000	1,050	1,318	2,368	79%
3,500	1,225	1,462	2,687	77%
4,000	1,400	1,604	3,004	75%
25 Years of Service:				
\$1,500	\$ 375	\$ 889	\$1,264	84%
2,000	500	1,032	1,532	77%
2,500	625	1,175	1,800	72%
3,000	750	1,318	2,068	69%
3,500	875	1,462	2,337	67%
4,000	1,000	1,604	2,604	65%
15 Years of Service:				
\$1,500	\$225	\$ 889	\$1,114	74%
2,000	300	1,032	1,332	67%
2,500	375	1,175	1,550	62%
3,000	450	1,318	1,768	59%
3,500	525	1,462	1,987	57%
4,000	600	1,604	2,204	55%

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 2018 - 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	\$ 889	\$1,545	103%
2,000	875	1,032	1,907	95%
2,500	1,094	1,175	2,269	91%
3,000	1,313	1,318	2,631	88%
3,500	1,531	1,462	2,993	86%
4,000	1,750	1,604	3,354	84%
25 Years of Service:				
\$1,500	\$ 469	\$ 889	\$1,358	91%
2,000	625	1,032	1,657	83%
2,500	781	1,175	1,956	78%
3,000	938	1,318	2,256	75%
3,500	1,094	1,462	2,556	73%
4,000	1,250	1,604	2,854	71%
15 Years of Service:				
\$1,500	\$281	\$ 889	\$1,170	78%
2,000	375	1,032	1,407	70%
2,500	469	1,175	1,644	66%
3,000	563	1,318	1,881	63%
3,500	656	1,462	2,118	61%
4,000	750	1,604	2,354	59%

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 2018 - 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	\$ 889	\$1,677	112%
2,000	1,050	1,032	2,082	104%
2,500	1,313	1,175	2,488	100%
3,000	1,575	1,318	2,893	96%
3,500	1,838	1,462	3,300	94%
4,000	2,100	1,604	3,704	93%
25 Years of Service:				
\$1,500	\$ 563	\$ 889	\$1,452	97%
2,000	750	1,032	1,782	89%
2,500	938	1,175	2,113	85%
3,000	1,125	1,318	2,443	81%
3,500	1,313	1,462	2,775	79%
4,000	1,500	1,604	3,104	78%
15 Years of Service:				
\$1,500	\$338	\$ 889	\$1,227	82%
2,000	450	1,032	1,482	74%
2,500	563	1,175	1,738	70%
3,000	675	1,318	1,993	66%
3,500	788	1,462	2,250	64%
4,000	900	1,604	2,504	63%

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 2018 - 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	\$ 889	\$1,808	121%
2,000	1,225	1,032	2,257	113%
2,500	1,531	1,175	2,706	108%
3,000	1,838	1,318	3,156	105%
3,500	2,144	1,462	3,606	103%
4,000	2,450	1,604	4,054	101%
25 Years of Service:				
\$1,500	\$ 656	\$ 889	\$1,545	103%
2,000	875	1,032	1,907	95%
2,500	1,094	1,175	2,269	91%
3,000	1,313	1,318	2,631	88%
3,500	1,531	1,462	2,993	86%
4,000	1,750	1,604	3,354	84%
15 Years of Service:				
\$1,500	\$ 394	\$ 889	\$1,283	86%
2,000	525	1,032	1,557	78%
2,500	656	1,175	1,831	73%
3,000	788	1,318	2,106	70%
3,500	919	1,462	2,381	68%
4,000	1,050	1,604	2,654	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 2018 - 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	\$ 889	\$1,939	129%
2,000	1,400	1,032	2,432	122%
2,500	1,750	1,175	2,925	117%
3,000	2,100	1,318	3,418	114%
3,500	2,450	1,462	3,912	112%
4,000	2,800	1,604	4,404	110%
25 Years of Service:				
\$1,500	\$ 750	\$ 889	\$1,639	109%
2,000	1,000	1,032	2,032	102%
2,500	1,250	1,175	2,425	97%
3,000	1,500	1,318	2,818	94%
3,500	1,750	1,462	3,212	92%
4,000	2,000	1,604	3,604	90%
15 Years of Service:				
\$1,500	\$ 450	\$ 889	\$1,339	89%
2,000	600	1,032	1,632	82%
2,500	750	1,175	1,925	77%
3,000	900	1,318	2,218	74%
3,500	1,050	1,462	2,512	72%
4,000	1,200	1,604	2,804	70%

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 2018 - 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 FAS ¹ to age 65)
1.00% of FAS ¹ 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	\$ 889	\$1,050	\$1,414	70%	94%
2,000	1,400	700	1,032	1,400	1,732	70%	87%
2,500	1,750	875	1,175	1,750	2,050	70%	82%
3,000	2,100	1,050	1,318	2,100	2,368	70%	79%
3,500	2,450	1,225	1,462	2,450	2,687	70%	77%
4,000	2,800	1,400	1,604	2,800	3,004	70%	75%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 889	\$ 750	\$1,264	50%	84%
2,000	1,000	500	1,032	1,000	1,532	50%	77%
2,500	1,250	625	1,175	1,250	1,800	50%	72%
3,000	1,500	750	1,318	1,500	2,068	50%	69%
3,500	1,750	875	1,462	1,750	2,337	50%	67%
4,000	2,000	1,000	1,604	2,000	2,604	50%	65%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 889	\$ 450	\$1,114	30%	74%
2,000	600	300	1,032	600	1,332	30%	67%
2,500	750	375	1,175	750	1,550	30%	62%
3,000	900	450	1,318	900	1,768	30%	59%
3,500	1,050	525	1,462	1,050	1,987	30%	57%
4,000	1,200	600	1,604	1,200	2,204	30%	55%

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 2018 - 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 FAS ¹ to age 65)
1.25% of FAS ¹ 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	\$ 889	\$1,050	\$1,545	70%	103%
2,000	1,400	875	1,032	1,400	1,907	70%	95%
2,500	1,750	1,094	1,175	1,750	2,269	70%	91%
3,000	2,100	1,313	1,318	2,100	2,631	70%	88%
3,500	2,450	1,531	1,462	2,450	2,993	70%	86%
4,000	2,800	1,750	1,604	2,800	3,354	70%	84%

25 Years of Service:

\$1,500	\$ 750	\$ 469	\$ 889	\$ 750	\$1,358	50%	91%
2,000	1,000	625	1,032	1,000	1,657	50%	83%
2,500	1,250	781	1,175	1,250	1,956	50%	78%
3,000	1,500	938	1,318	1,500	2,256	50%	75%
3,500	1,750	1,094	1,462	1,750	2,556	50%	73%
4,000	2,000	1,250	1,604	2,000	2,854	50%	71%

15 Years of Service:

\$1,500	\$ 450	\$281	\$ 889	\$ 450	\$1,170	30%	78%
2,000	600	375	1,032	600	1,407	30%	70%
2,500	750	469	1,175	750	1,644	30%	66%
3,000	900	563	1,318	900	1,881	30%	63%
3,500	1,050	656	1,462	1,050	2,118	30%	61%
4,000	1,200	750	1,604	1,200	2,354	30%	59%

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 2018 - 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 FAS ¹ to age 65)
1.50% of FAS ¹ 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	\$ 889	\$1,050	\$1,677	70%	112%
2,000	1,400	1,050	1,032	1,400	2,082	70%	104%
2,500	1,750	1,313	1,175	1,750	2,488	70%	100%
3,000	2,100	1,575	1,318	2,100	2,893	70%	96%
3,500	2,450	1,838	1,462	2,450	3,300	70%	94%
4,000	2,800	2,100	1,604	2,800	3,704	70%	93%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 889	\$ 750	\$1,452	50%	97%
2,000	1,000	750	1,032	1,000	1,782	50%	89%
2,500	1,250	938	1,175	1,250	2,113	50%	85%
3,000	1,500	1,125	1,318	1,500	2,443	50%	81%
3,500	1,750	1,313	1,462	1,750	2,775	50%	79%
4,000	2,000	1,500	1,604	2,000	3,104	50%	78%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 889	\$ 450	\$1,227	30%	82%
2,000	600	450	1,032	600	1,482	30%	74%
2,500	750	563	1,175	750	1,738	30%	70%
3,000	900	675	1,318	900	1,993	30%	66%
3,500	1,050	788	1,462	1,050	2,250	30%	64%
4,000	1,200	900	1,604	1,200	2,504	30%	63%

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 2018 - 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 FAS ¹ to age 65)
1.75% of FAS ¹ 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	\$ 889	\$1,050	\$1,808	70%	121%
2,000	1,400	1,225	1,032	1,400	2,257	70%	113%
2,500	1,750	1,531	1,175	1,750	2,706	70%	108%
3,000	2,100	1,838	1,318	2,100	3,156	70%	105%
3,500	2,450	2,144	1,462	2,450	3,606	70%	103%
4,000	2,800	2,450	1,604	2,800	4,054	70%	101%

25 Years of Service:

\$1,500	\$ 750	\$ 656	\$ 889	\$ 750	\$1,545	50%	103%
2,000	1,000	875	1,032	1,000	1,907	50%	95%
2,500	1,250	1,094	1,175	1,250	2,269	50%	91%
3,000	1,500	1,313	1,318	1,500	2,631	50%	88%
3,500	1,750	1,531	1,462	1,750	2,993	50%	86%
4,000	2,000	1,750	1,604	2,000	3,354	50%	84%

15 Years of Service:

\$1,500	\$ 450	\$ 394	\$ 889	\$ 450	\$1,283	30%	86%
2,000	600	525	1,032	600	1,557	30%	78%
2,500	750	656	1,175	750	1,831	30%	73%
3,000	900	788	1,318	900	2,106	30%	70%
3,500	1,050	919	1,462	1,050	2,381	30%	68%
4,000	1,200	1,050	1,604	1,200	2,654	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 2018 - 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

St. Clair Fire Protection District - General

November 30, 2018

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									
35-39									
40-44									
45-49									
50-54									
55-59			1					1	\$ 42,122
60-64									
65-69									
70 & Over									
Totals			1					1	\$ 42,122

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

Age: 56.1 years.

Benefit Service: 14.5 years.

Annual Pay: \$ 42,122.

St. Clair Fire Protection District - Fire

November 30, 2018

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		1						1	\$ 42,650
30-34		2						2	\$ 87,350
35-39	1	2	2					5	\$ 213,835
40-44	1	2						3	\$ 126,485
45-49	1			2				3	\$ 148,230
50-54	1		1					2	\$ 108,650
55-59									
60-64		1						1	\$ 45,700
65-69									
70 & Over									
Totals	4	8	3	2				17	\$ 772,900

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

Age: 41.5 years.

Benefit Service: 8.6 years.

Annual Pay: \$ 45,465.

APPENDIX VI

RISK COMMENTARY

Risk Commentary

The determination of the accrued liability and the actuarially determined contribution (i.e., total employer contribution rate) requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

1. **Investment Risk** – actual investment returns may differ from the expected returns;
2. **Asset/Liability Mismatch Risk** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
3. **Contribution Risk** – actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
4. **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability, contributions and contribution rates differing from expected;
5. **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
6. **Other Demographic Risks** – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rates shown on pages 4 thru 11 may be considered as a minimum contribution rate for the selected benefit provisions that complies with the Board's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.

Risk Commentary (Concluded)

PLAN MATURITY MEASURES

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures are described below.

RATIO OF MARKET VALUE OF ASSETS TO PAYROLL

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

The ratio of liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 2.5 times the payroll, a change in liability 2% other than assumed would equal 5% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in liability (and also plan sponsor contributions) as a percentage of payroll.

RATIO OF NET CASH FLOW TO MARKET VALUE OF ASSETS

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.

DURATION OF ACTUARIAL ACCRUED LIABILITY

The duration of the actuarial accrued liability may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, duration of 10 indicates that the liability would increase approximately 10% if the assumed rate of return were lowered 1%.

ADDITIONAL RISK ASSESSMENT

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests, and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability.



January 31, 2019 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 November 30, 2018 Initial Actuarial Valuation of LAGERS benefits for the employees of

St. Clair Fire Protection District

Sincerely,

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

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp

January 31, 2019

St. Clair Fire Protection District
St. Clair, Missouri

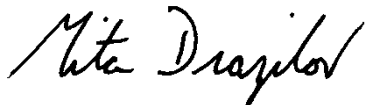
Ladies and Gentlemen:

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 November 30, 2018 Initial Valuation for the St. Clair Fire Protection District dated January 31, 2019.

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, 2018.

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 opinions herein.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA

St. Clair Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	13.8%	\$5,813	\$ 68,044	17.9%	\$7,540	\$ 85,458	15.7%	\$6,613	\$ 76,279
2019	43,491	13.8	6,002	68,976	17.9	7,785	86,629	15.7	6,828	77,324
2020	44,904	13.8	6,197	69,846	17.9	8,038	87,721	15.7	7,050	78,299
2021	46,363	13.8	6,398	70,645	17.9	8,299	88,724	15.7	7,279	79,194
2022	47,870	13.8	6,606	71,363	17.9	8,569	89,626	15.7	7,516	79,999
2023	49,426	13.8	6,821	71,990	17.9	8,847	90,413	15.7	7,760	80,702
2024	51,032	13.8	7,042	72,514	17.9	9,135	91,072	15.7	8,012	81,290
2025	52,691	13.8	7,271	72,924	17.9	9,432	91,587	15.7	8,272	81,749
2026	54,403	13.8	7,508	73,206	17.9	9,738	91,941	15.7	8,541	82,065
2027	56,171	13.8	7,752	73,346	17.9	10,055	92,117	15.7	8,819	82,222

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	19.5%	\$8,214	\$ 91,645	22.1%	\$9,309	\$ 102,888	23.0%	\$9,688	\$ 107,013
2019	43,491	19.5	8,481	92,901	22.1	9,612	104,298	23.0	10,003	108,479
2020	44,904	19.5	8,756	94,072	22.1	9,924	105,613	23.0	10,328	109,847
2021	46,363	19.5	9,041	95,148	22.1	10,246	106,820	23.0	10,663	111,103
2022	47,870	19.5	9,335	96,115	22.1	10,579	107,905	23.0	11,010	112,232
2023	49,426	19.5	9,638	96,959	22.1	10,923	108,853	23.0	11,368	113,218
2024	51,032	19.5	9,951	97,665	22.1	11,278	109,646	23.0	11,737	114,043
2025	52,691	19.5	10,275	98,217	22.1	11,645	110,266	23.0	12,119	114,688
2026	54,403	19.5	10,609	98,597	22.1	12,023	110,692	23.0	12,513	115,132
2027	56,171	19.5	10,953	98,785	22.1	12,414	110,903	23.0	12,919	115,352

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	26.2%	\$11,036	\$ 120,308	26.7%	\$11,246	\$ 122,370	30.4%	\$12,805	\$ 137,724
2019	43,491	26.2	11,395	121,956	26.7	11,612	124,046	30.4	13,221	139,611
2020	44,904	26.2	11,765	123,494	26.7	11,989	125,610	30.4	13,651	141,371
2021	46,363	26.2	12,147	124,906	26.7	12,379	127,046	30.4	14,094	142,987
2022	47,870	26.2	12,542	126,175	26.7	12,781	128,337	30.4	14,552	144,440
2023	49,426	26.2	12,950	127,283	26.7	13,197	129,464	30.4	15,026	145,709
2024	51,032	26.2	13,370	128,210	26.7	13,626	130,407	30.4	15,514	146,770
2025	52,691	26.2	13,805	128,935	26.7	14,068	131,144	30.4	16,018	147,599
2026	54,403	26.2	14,254	129,434	26.7	14,526	131,651	30.4	16,539	148,170
2027	56,171	26.2	14,717	129,681	26.7	14,998	131,902	30.4	17,076	148,453

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	14.4%	\$6,066	\$ 70,409	18.6%	\$7,835	\$ 88,411	16.3%	\$6,866	\$ 78,935
2019	43,491	14.4	6,263	71,374	18.6	8,089	89,622	16.3	7,089	80,016
2020	44,904	14.4	6,466	72,274	18.6	8,352	90,752	16.3	7,319	81,025
2021	46,363	14.4	6,676	73,100	18.6	8,624	91,790	16.3	7,557	81,951
2022	47,870	14.4	6,893	73,843	18.6	8,904	92,723	16.3	7,803	82,784
2023	49,426	14.4	7,117	74,492	18.6	9,193	93,537	16.3	8,056	83,511
2024	51,032	14.4	7,349	75,035	18.6	9,492	94,218	16.3	8,318	84,119
2025	52,691	14.4	7,588	75,459	18.6	9,801	94,750	16.3	8,589	84,594
2026	54,403	14.4	7,834	75,751	18.6	10,119	95,116	16.3	8,868	84,921
2027	56,171	14.4	8,089	75,896	18.6	10,448	95,298	16.3	9,156	85,083

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	20.2%	\$8,509	\$ 94,807	22.8%	\$9,604	\$ 106,430	23.9%	\$10,067	\$ 110,695
2019	43,491	20.2	8,785	96,106	22.8	9,916	107,888	23.9	10,394	112,212
2020	44,904	20.2	9,071	97,318	22.8	10,238	109,248	23.9	10,732	113,627
2021	46,363	20.2	9,365	98,431	22.8	10,571	110,497	23.9	11,081	114,926
2022	47,870	20.2	9,670	99,431	22.8	10,914	111,620	23.9	11,441	116,094
2023	49,426	20.2	9,984	100,304	22.8	11,269	112,600	23.9	11,813	117,114
2024	51,032	20.2	10,308	101,035	22.8	11,635	113,420	23.9	12,197	117,967
2025	52,691	20.2	10,644	101,606	22.8	12,014	114,061	23.9	12,593	118,634
2026	54,403	20.2	10,989	101,999	22.8	12,404	114,502	23.9	13,002	119,093
2027	56,171	20.2	11,347	102,194	22.8	12,807	114,721	23.9	13,425	119,320

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	27.2%	\$11,457	\$ 124,448	27.7%	\$11,668	\$ 126,577	31.5%	\$13,268	\$ 142,455
2019	43,491	27.2	11,830	126,153	27.7	12,047	128,311	31.5	13,700	144,407
2020	44,904	27.2	12,214	127,744	27.7	12,438	129,929	31.5	14,145	146,228
2021	46,363	27.2	12,611	129,204	27.7	12,843	131,414	31.5	14,604	147,900
2022	47,870	27.2	13,021	130,517	27.7	13,260	132,749	31.5	15,079	149,403
2023	49,426	27.2	13,444	131,663	27.7	13,691	133,915	31.5	15,569	150,715
2024	51,032	27.2	13,881	132,622	27.7	14,136	134,890	31.5	16,075	151,813
2025	52,691	27.2	14,332	133,372	27.7	14,595	135,652	31.5	16,598	152,671
2026	54,403	27.2	14,798	133,888	27.7	15,070	136,177	31.5	17,137	153,261
2027	56,171	27.2	15,279	134,144	27.7	15,559	136,437	31.5	17,694	153,554

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	17.5%	\$7,371	\$ 68,874	21.7%	\$9,140	\$ 86,089	19.5%	\$8,214	\$ 77,071
2019	43,491	17.5	7,611	69,818	21.7	9,438	87,268	19.5	8,481	78,127
2020	44,904	17.5	7,858	70,698	21.7	9,744	88,368	19.5	8,756	79,112
2021	46,363	17.5	8,114	71,506	21.7	10,061	89,378	19.5	9,041	80,016
2022	47,870	17.5	8,377	72,233	21.7	10,388	90,286	19.5	9,335	80,829
2023	49,426	17.5	8,650	72,867	21.7	10,725	91,079	19.5	9,638	81,539
2024	51,032	17.5	8,931	73,398	21.7	11,074	91,742	19.5	9,951	82,133
2025	52,691	17.5	9,221	73,813	21.7	11,434	92,260	19.5	10,275	82,597
2026	54,403	17.5	9,521	74,098	21.7	11,805	92,617	19.5	10,609	82,916
2027	56,171	17.5	9,830	74,239	21.7	12,189	92,794	19.5	10,953	83,074

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	23.1%	\$9,730	\$ 92,232	25.8%	\$10,867	\$ 103,309	26.8%	\$11,289	\$ 107,409
2019	43,491	23.1	10,046	93,496	25.8	11,221	104,724	26.8	11,656	108,880
2020	44,904	23.1	10,373	94,675	25.8	11,585	106,045	26.8	12,034	110,253
2021	46,363	23.1	10,710	95,757	25.8	11,962	107,257	26.8	12,425	111,514
2022	47,870	23.1	11,058	96,730	25.8	12,350	108,347	26.8	12,829	112,647
2023	49,426	23.1	11,417	97,580	25.8	12,752	109,299	26.8	13,246	113,636
2024	51,032	23.1	11,788	98,291	25.8	13,166	110,095	26.8	13,677	114,464
2025	52,691	23.1	12,172	98,847	25.8	13,594	110,717	26.8	14,121	115,111
2026	54,403	23.1	12,567	99,229	25.8	14,036	111,145	26.8	14,580	115,556
2027	56,171	23.1	12,976	99,418	25.8	14,492	111,357	26.8	15,054	115,777

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	30.0%	\$12,636	\$ 120,532	30.5%	\$12,847	\$ 122,585	34.3%	\$14,448	\$ 137,751
2019	43,491	30.0	13,047	122,183	30.5	13,265	124,264	34.3	14,917	139,638
2020	44,904	30.0	13,471	123,724	30.5	13,696	125,831	34.3	15,402	141,399
2021	46,363	30.0	13,909	125,139	30.5	14,141	127,270	34.3	15,903	143,016
2022	47,870	30.0	14,361	126,411	30.5	14,600	128,563	34.3	16,419	144,469
2023	49,426	30.0	14,828	127,521	30.5	15,075	129,692	34.3	16,953	145,738
2024	51,032	30.0	15,310	128,450	30.5	15,565	130,637	34.3	17,504	146,800
2025	52,691	30.0	15,807	129,176	30.5	16,071	131,375	34.3	18,073	147,630
2026	54,403	30.0	16,321	129,676	30.5	16,593	131,883	34.3	18,660	148,201
2027	56,171	30.0	16,851	129,924	30.5	17,132	132,135	34.3	19,267	148,484

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	18.1%	\$7,624	\$ 71,211	22.4%	\$9,435	\$ 89,019	20.0%	\$8,424	\$ 79,689
2019	43,491	18.1	7,872	72,187	22.4	9,742	90,239	20.0	8,698	80,781
2020	44,904	18.1	8,128	73,097	22.4	10,058	91,377	20.0	8,981	81,800
2021	46,363	18.1	8,392	73,933	22.4	10,385	92,422	20.0	9,273	82,735
2022	47,870	18.1	8,664	74,684	22.4	10,723	93,361	20.0	9,574	83,576
2023	49,426	18.1	8,946	75,340	22.4	11,071	94,181	20.0	9,885	84,310
2024	51,032	18.1	9,237	75,889	22.4	11,431	94,867	20.0	10,206	84,924
2025	52,691	18.1	9,537	76,318	22.4	11,803	95,403	20.0	10,538	85,404
2026	54,403	18.1	9,847	76,613	22.4	12,186	95,772	20.0	10,881	85,734
2027	56,171	18.1	10,167	76,759	22.4	12,582	95,955	20.0	11,234	85,898

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	24.0%	\$10,109	\$ 95,379	26.7%	\$11,246	\$ 106,812	27.7%	\$11,668	\$ 111,051
2019	43,491	24.0	10,438	96,686	26.7	11,612	108,275	27.7	12,047	112,572
2020	44,904	24.0	10,777	97,905	26.7	11,989	109,640	27.7	12,438	113,991
2021	46,363	24.0	11,127	99,024	26.7	12,379	110,894	27.7	12,843	115,294
2022	47,870	24.0	11,489	100,030	26.7	12,781	112,021	27.7	13,260	116,465
2023	49,426	24.0	11,862	100,908	26.7	13,197	113,005	27.7	13,691	117,488
2024	51,032	24.0	12,248	101,643	26.7	13,626	113,828	27.7	14,136	118,344
2025	52,691	24.0	12,646	102,217	26.7	14,068	114,471	27.7	14,595	119,013
2026	54,403	24.0	13,057	102,612	26.7	14,526	114,914	27.7	15,070	119,473
2027	56,171	24.0	13,481	102,808	26.7	14,998	115,133	27.7	15,559	119,701

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	31.0%	\$13,058	\$ 124,609	31.5%	\$13,268	\$ 126,736	35.4%	\$14,911	\$ 142,415
2019	43,491	31.0	13,482	126,316	31.5	13,700	128,472	35.4	15,396	144,366
2020	44,904	31.0	13,920	127,909	31.5	14,145	130,092	35.4	15,896	146,186
2021	46,363	31.0	14,373	129,371	31.5	14,604	131,579	35.4	16,413	147,857
2022	47,870	31.0	14,840	130,686	31.5	15,079	132,916	35.4	16,946	149,359
2023	49,426	31.0	15,322	131,834	31.5	15,569	134,083	35.4	17,497	150,671
2024	51,032	31.0	15,820	132,794	31.5	16,075	135,060	35.4	18,065	151,769
2025	52,691	31.0	16,334	133,545	31.5	16,598	135,823	35.4	18,653	152,627
2026	54,403	31.0	16,865	134,061	31.5	17,137	136,348	35.4	19,259	153,217
2027	56,171	31.0	17,413	134,317	31.5	17,694	136,608	35.4	19,885	153,510

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	13.8%	\$5,813	\$ 68,044	17.9%	\$7,540	\$ 85,458	15.7%	\$6,613	\$ 76,279
2019	43,491	13.8	6,002	68,976	17.9	7,785	86,629	15.7	6,828	77,324
2020	44,904	13.8	6,197	69,846	17.9	8,038	87,721	15.7	7,050	78,299
2021	46,363	13.8	6,398	70,645	17.9	8,299	88,724	15.7	7,279	79,194
2022	47,870	13.8	6,606	71,363	17.9	8,569	89,626	15.7	7,516	79,999
2023	49,426	13.8	6,821	71,990	17.9	8,847	90,413	15.7	7,760	80,702
2024	51,032	13.8	7,042	72,514	17.9	9,135	91,072	15.7	8,012	81,290
2025	52,691	13.8	7,271	72,924	17.9	9,432	91,587	15.7	8,272	81,749
2026	54,403	13.8	7,508	73,206	17.9	9,738	91,941	15.7	8,541	82,065
2027	56,171	13.8	7,752	73,346	17.9	10,055	92,117	15.7	8,819	82,222

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	19.5%	\$8,214	\$ 91,645	22.1%	\$9,309	\$ 102,888	23.0%	\$9,688	\$ 107,013
2019	43,491	19.5	8,481	92,901	22.1	9,612	104,298	23.0	10,003	108,479
2020	44,904	19.5	8,756	94,072	22.1	9,924	105,613	23.0	10,328	109,847
2021	46,363	19.5	9,041	95,148	22.1	10,246	106,820	23.0	10,663	111,103
2022	47,870	19.5	9,335	96,115	22.1	10,579	107,905	23.0	11,010	112,232
2023	49,426	19.5	9,638	96,959	22.1	10,923	108,853	23.0	11,368	113,218
2024	51,032	19.5	9,951	97,665	22.1	11,278	109,646	23.0	11,737	114,043
2025	52,691	19.5	10,275	98,217	22.1	11,645	110,266	23.0	12,119	114,688
2026	54,403	19.5	10,609	98,597	22.1	12,023	110,692	23.0	12,513	115,132
2027	56,171	19.5	10,953	98,785	22.1	12,414	110,903	23.0	12,919	115,352

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	26.2%	\$11,036	\$ 120,308	26.7%	\$11,246	\$ 122,370	30.4%	\$12,805	\$ 137,724
2019	43,491	26.2	11,395	121,956	26.7	11,612	124,046	30.4	13,221	139,611
2020	44,904	26.2	11,765	123,494	26.7	11,989	125,610	30.4	13,651	141,371
2021	46,363	26.2	12,147	124,906	26.7	12,379	127,046	30.4	14,094	142,987
2022	47,870	26.2	12,542	126,175	26.7	12,781	128,337	30.4	14,552	144,440
2023	49,426	26.2	12,950	127,283	26.7	13,197	129,464	30.4	15,026	145,709
2024	51,032	26.2	13,370	128,210	26.7	13,626	130,407	30.4	15,514	146,770
2025	52,691	26.2	13,805	128,935	26.7	14,068	131,144	30.4	16,018	147,599
2026	54,403	26.2	14,254	129,434	26.7	14,526	131,651	30.4	16,539	148,170
2027	56,171	26.2	14,717	129,681	26.7	14,998	131,902	30.4	17,076	148,453

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	14.4%	\$6,066	\$ 70,409	18.6%	\$7,835	\$ 88,411	16.3%	\$6,866	\$ 78,935
2019	43,491	14.4	6,263	71,374	18.6	8,089	89,622	16.3	7,089	80,016
2020	44,904	14.4	6,466	72,274	18.6	8,352	90,752	16.3	7,319	81,025
2021	46,363	14.4	6,676	73,100	18.6	8,624	91,790	16.3	7,557	81,951
2022	47,870	14.4	6,893	73,843	18.6	8,904	92,723	16.3	7,803	82,784
2023	49,426	14.4	7,117	74,492	18.6	9,193	93,537	16.3	8,056	83,511
2024	51,032	14.4	7,349	75,035	18.6	9,492	94,218	16.3	8,318	84,119
2025	52,691	14.4	7,588	75,459	18.6	9,801	94,750	16.3	8,589	84,594
2026	54,403	14.4	7,834	75,751	18.6	10,119	95,116	16.3	8,868	84,921
2027	56,171	14.4	8,089	75,896	18.6	10,448	95,298	16.3	9,156	85,083

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	20.2%	\$8,509	\$ 94,807	22.8%	\$9,604	\$ 106,430	23.9%	\$10,067	\$ 110,695
2019	43,491	20.2	8,785	96,106	22.8	9,916	107,888	23.9	10,394	112,212
2020	44,904	20.2	9,071	97,318	22.8	10,238	109,248	23.9	10,732	113,627
2021	46,363	20.2	9,365	98,431	22.8	10,571	110,497	23.9	11,081	114,926
2022	47,870	20.2	9,670	99,431	22.8	10,914	111,620	23.9	11,441	116,094
2023	49,426	20.2	9,984	100,304	22.8	11,269	112,600	23.9	11,813	117,114
2024	51,032	20.2	10,308	101,035	22.8	11,635	113,420	23.9	12,197	117,967
2025	52,691	20.2	10,644	101,606	22.8	12,014	114,061	23.9	12,593	118,634
2026	54,403	20.2	10,989	101,999	22.8	12,404	114,502	23.9	13,002	119,093
2027	56,171	20.2	11,347	102,194	22.8	12,807	114,721	23.9	13,425	119,320

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	27.2%	\$11,457	\$ 124,448	27.7%	\$11,668	\$ 126,577	31.5%	\$13,268	\$ 142,455
2019	43,491	27.2	11,830	126,153	27.7	12,047	128,311	31.5	13,700	144,407
2020	44,904	27.2	12,214	127,744	27.7	12,438	129,929	31.5	14,145	146,228
2021	46,363	27.2	12,611	129,204	27.7	12,843	131,414	31.5	14,604	147,900
2022	47,870	27.2	13,021	130,517	27.7	13,260	132,749	31.5	15,079	149,403
2023	49,426	27.2	13,444	131,663	27.7	13,691	133,915	31.5	15,569	150,715
2024	51,032	27.2	13,881	132,622	27.7	14,136	134,890	31.5	16,075	151,813
2025	52,691	27.2	14,332	133,372	27.7	14,595	135,652	31.5	16,598	152,671
2026	54,403	27.2	14,798	133,888	27.7	15,070	136,177	31.5	17,137	153,261
2027	56,171	27.2	15,279	134,144	27.7	15,559	136,437	31.5	17,694	153,554

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	17.5%	\$7,371	\$ 68,874	21.7%	\$9,140	\$ 86,089	19.5%	\$8,214	\$ 77,071
2019	43,491	17.5	7,611	69,818	21.7	9,438	87,268	19.5	8,481	78,127
2020	44,904	17.5	7,858	70,698	21.7	9,744	88,368	19.5	8,756	79,112
2021	46,363	17.5	8,114	71,506	21.7	10,061	89,378	19.5	9,041	80,016
2022	47,870	17.5	8,377	72,233	21.7	10,388	90,286	19.5	9,335	80,829
2023	49,426	17.5	8,650	72,867	21.7	10,725	91,079	19.5	9,638	81,539
2024	51,032	17.5	8,931	73,398	21.7	11,074	91,742	19.5	9,951	82,133
2025	52,691	17.5	9,221	73,813	21.7	11,434	92,260	19.5	10,275	82,597
2026	54,403	17.5	9,521	74,098	21.7	11,805	92,617	19.5	10,609	82,916
2027	56,171	17.5	9,830	74,239	21.7	12,189	92,794	19.5	10,953	83,074

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	23.1%	\$9,730	\$ 92,232	25.8%	\$10,867	\$ 103,309	26.8%	\$11,289	\$ 107,409
2019	43,491	23.1	10,046	93,496	25.8	11,221	104,724	26.8	11,656	108,880
2020	44,904	23.1	10,373	94,675	25.8	11,585	106,045	26.8	12,034	110,253
2021	46,363	23.1	10,710	95,757	25.8	11,962	107,257	26.8	12,425	111,514
2022	47,870	23.1	11,058	96,730	25.8	12,350	108,347	26.8	12,829	112,647
2023	49,426	23.1	11,417	97,580	25.8	12,752	109,299	26.8	13,246	113,636
2024	51,032	23.1	11,788	98,291	25.8	13,166	110,095	26.8	13,677	114,464
2025	52,691	23.1	12,172	98,847	25.8	13,594	110,717	26.8	14,121	115,111
2026	54,403	23.1	12,567	99,229	25.8	14,036	111,145	26.8	14,580	115,556
2027	56,171	23.1	12,976	99,418	25.8	14,492	111,357	26.8	15,054	115,777

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	30.0%	\$12,636	\$ 120,532	30.5%	\$12,847	\$ 122,585	34.3%	\$14,448	\$ 137,751
2019	43,491	30.0	13,047	122,183	30.5	13,265	124,264	34.3	14,917	139,638
2020	44,904	30.0	13,471	123,724	30.5	13,696	125,831	34.3	15,402	141,399
2021	46,363	30.0	13,909	125,139	30.5	14,141	127,270	34.3	15,903	143,016
2022	47,870	30.0	14,361	126,411	30.5	14,600	128,563	34.3	16,419	144,469
2023	49,426	30.0	14,828	127,521	30.5	15,075	129,692	34.3	16,953	145,738
2024	51,032	30.0	15,310	128,450	30.5	15,565	130,637	34.3	17,504	146,800
2025	52,691	30.0	15,807	129,176	30.5	16,071	131,375	34.3	18,073	147,630
2026	54,403	30.0	16,321	129,676	30.5	16,593	131,883	34.3	18,660	148,201
2027	56,171	30.0	16,851	129,924	30.5	17,132	132,135	34.3	19,267	148,484

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.

St. Clair Fire Protection District - General

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 42,122	18.1%	\$7,624	\$ 71,211	22.4%	\$9,435	\$ 89,019	20.0%	\$8,424	\$ 79,689
2019	43,491	18.1	7,872	72,187	22.4	9,742	90,239	20.0	8,698	80,781
2020	44,904	18.1	8,128	73,097	22.4	10,058	91,377	20.0	8,981	81,800
2021	46,363	18.1	8,392	73,933	22.4	10,385	92,422	20.0	9,273	82,735
2022	47,870	18.1	8,664	74,684	22.4	10,723	93,361	20.0	9,574	83,576
2023	49,426	18.1	8,946	75,340	22.4	11,071	94,181	20.0	9,885	84,310
2024	51,032	18.1	9,237	75,889	22.4	11,431	94,867	20.0	10,206	84,924
2025	52,691	18.1	9,537	76,318	22.4	11,803	95,403	20.0	10,538	85,404
2026	54,403	18.1	9,847	76,613	22.4	12,186	95,772	20.0	10,881	85,734
2027	56,171	18.1	10,167	76,759	22.4	12,582	95,955	20.0	11,234	85,898

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	24.0%	\$10,109	\$ 95,379	26.7%	\$11,246	\$ 106,812	27.7%	\$11,668	\$ 111,051
2019	43,491	24.0	10,438	96,686	26.7	11,612	108,275	27.7	12,047	112,572
2020	44,904	24.0	10,777	97,905	26.7	11,989	109,640	27.7	12,438	113,991
2021	46,363	24.0	11,127	99,024	26.7	12,379	110,894	27.7	12,843	115,294
2022	47,870	24.0	11,489	100,030	26.7	12,781	112,021	27.7	13,260	116,465
2023	49,426	24.0	11,862	100,908	26.7	13,197	113,005	27.7	13,691	117,488
2024	51,032	24.0	12,248	101,643	26.7	13,626	113,828	27.7	14,136	118,344
2025	52,691	24.0	12,646	102,217	26.7	14,068	114,471	27.7	14,595	119,013
2026	54,403	24.0	13,057	102,612	26.7	14,526	114,914	27.7	15,070	119,473
2027	56,171	24.0	13,481	102,808	26.7	14,998	115,133	27.7	15,559	119,701

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 42,122	31.0%	\$13,058	\$ 124,609	31.5%	\$13,268	\$ 126,736	35.4%	\$14,911	\$ 142,415
2019	43,491	31.0	13,482	126,316	31.5	13,700	128,472	35.4	15,396	144,366
2020	44,904	31.0	13,920	127,909	31.5	14,145	130,092	35.4	15,896	146,186
2021	46,363	31.0	14,373	129,371	31.5	14,604	131,579	35.4	16,413	147,857
2022	47,870	31.0	14,840	130,686	31.5	15,079	132,916	35.4	16,946	149,359
2023	49,426	31.0	15,322	131,834	31.5	15,569	134,083	35.4	17,497	150,671
2024	51,032	31.0	15,820	132,794	31.5	16,075	135,060	35.4	18,065	151,769
2025	52,691	31.0	16,334	133,545	31.5	16,598	135,823	35.4	18,653	152,627
2026	54,403	31.0	16,865	134,061	31.5	17,137	136,348	35.4	19,259	153,217
2027	56,171	31.0	17,413	134,317	31.5	17,694	136,608	35.4	19,885	153,510

Notes regarding the above projections:

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- 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.

St. Clair Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	9.9%	\$76,517	\$ 628,124	13.0%	\$100,477	\$ 790,831	13.3%	\$102,796	\$ 813,033
2019	798,019	9.9	79,004	636,729	13.0	103,742	801,665	13.3	106,137	824,171
2020	823,955	9.9	81,572	644,758	13.0	107,114	811,773	13.3	109,586	834,563
2021	850,734	9.9	84,223	652,129	13.0	110,595	821,054	13.3	113,148	844,105
2022	878,383	9.9	86,960	658,755	13.0	114,190	829,397	13.3	116,825	852,682
2023	906,930	9.9	89,786	664,540	13.0	117,901	836,681	13.3	120,622	860,171
2024	936,405	9.9	92,704	669,381	13.0	121,733	842,776	13.3	124,542	866,437
2025	966,838	9.9	95,717	673,164	13.0	125,689	847,539	13.3	128,589	871,334
2026	998,260	9.9	98,828	675,767	13.0	129,774	850,816	13.3	132,769	874,703
2027	1,030,703	9.9	102,040	677,057	13.0	133,991	852,441	13.3	137,083	876,373

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	15.6%	\$120,572	\$ 929,459	16.2%	\$125,210	\$ 952,957	17.9%	\$138,349	\$ 1,045,369
2019	798,019	15.6	124,491	942,192	16.2	129,279	966,012	17.9	142,845	1,059,690
2020	823,955	15.6	128,537	954,072	16.2	133,481	978,193	17.9	147,488	1,073,052
2021	850,734	15.6	132,715	964,980	16.2	137,819	989,377	17.9	152,281	1,085,320
2022	878,383	15.6	137,028	974,785	16.2	142,298	999,430	17.9	157,231	1,096,348
2023	906,930	15.6	141,481	983,346	16.2	146,923	1,008,207	17.9	162,340	1,105,977
2024	936,405	15.6	146,079	990,509	16.2	151,698	1,015,551	17.9	167,616	1,114,033
2025	966,838	15.6	150,827	996,107	16.2	156,628	1,021,291	17.9	173,064	1,120,329
2026	998,260	15.6	155,729	999,959	16.2	161,718	1,025,240	17.9	178,689	1,124,661
2027	1,030,703	15.6	160,790	1,001,868	16.2	166,974	1,027,198	17.9	184,496	1,126,809

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	19.4%	\$149,943	\$ 1,114,840	20.3%	\$156,899	\$ 1,161,048	22.5%	\$173,903	\$ 1,276,674
2019	798,019	19.4	154,816	1,130,113	20.3	161,998	1,176,954	22.5	179,554	1,294,164
2020	823,955	19.4	159,847	1,144,363	20.3	167,263	1,191,795	22.5	185,390	1,310,483
2021	850,734	19.4	165,042	1,157,446	20.3	172,699	1,205,421	22.5	191,415	1,325,466
2022	878,383	19.4	170,406	1,169,207	20.3	178,312	1,217,669	22.5	197,636	1,338,934
2023	906,930	19.4	175,944	1,179,475	20.3	184,107	1,228,363	22.5	204,059	1,350,693
2024	936,405	19.4	181,663	1,188,067	20.3	190,090	1,237,311	22.5	210,691	1,360,532
2025	966,838	19.4	187,567	1,194,782	20.3	196,268	1,244,304	22.5	217,539	1,368,221
2026	998,260	19.4	193,662	1,199,402	20.3	202,647	1,249,116	22.5	224,609	1,373,512
2027	1,030,703	19.4	199,956	1,201,692	20.3	209,233	1,251,501	22.5	231,908	1,376,135

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 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.

St. Clair Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	10.3%	\$79,609	\$ 650,828	13.6%	\$105,114	\$ 818,948	13.8%	\$106,660	\$ 842,319
2019	798,019	10.3	82,196	659,744	13.6	108,531	830,167	13.8	110,127	853,859
2020	823,955	10.3	84,867	668,063	13.6	112,058	840,635	13.8	113,706	864,626
2021	850,734	10.3	87,626	675,701	13.6	115,700	850,246	13.8	117,401	874,511
2022	878,383	10.3	90,473	682,567	13.6	119,460	858,885	13.8	121,217	883,397
2023	906,930	10.3	93,414	688,562	13.6	123,342	866,428	13.8	125,156	891,155
2024	936,405	10.3	96,450	693,578	13.6	127,351	872,739	13.8	129,224	897,646
2025	966,838	10.3	99,584	697,498	13.6	131,490	877,671	13.8	133,424	902,719
2026	998,260	10.3	102,821	700,195	13.6	135,763	881,065	13.8	137,760	906,210
2027	1,030,703	10.3	106,162	701,532	13.6	140,176	882,747	13.8	142,237	907,940

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	16.2%	\$125,210	\$ 962,579	16.9%	\$130,620	\$ 986,694	18.7%	\$144,532	\$ 1,082,402
2019	798,019	16.2	129,279	975,766	16.9	134,865	1,000,212	18.7	149,230	1,097,231
2020	823,955	16.2	133,481	988,070	16.9	139,248	1,012,824	18.7	154,080	1,111,066
2021	850,734	16.2	137,819	999,367	16.9	143,774	1,024,404	18.7	159,087	1,123,769
2022	878,383	16.2	142,298	1,009,521	16.9	148,447	1,034,813	18.7	164,258	1,135,188
2023	906,930	16.2	146,923	1,018,387	16.9	153,271	1,043,901	18.7	169,596	1,145,158
2024	936,405	16.2	151,698	1,025,805	16.9	158,252	1,051,505	18.7	175,108	1,153,500
2025	966,838	16.2	156,628	1,031,603	16.9	163,396	1,057,448	18.7	180,799	1,160,019
2026	998,260	16.2	161,718	1,035,592	16.9	168,706	1,061,537	18.7	186,675	1,164,505
2027	1,030,703	16.2	166,974	1,037,569	16.9	174,189	1,063,564	18.7	192,741	1,166,729

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	20.1%	\$155,353	\$ 1,154,204	21.1%	\$163,082	\$ 1,202,096	23.5%	\$181,632	\$ 1,321,473
2019	798,019	20.1	160,402	1,170,016	21.1	168,382	1,218,565	23.5	187,534	1,339,577
2020	823,955	20.1	165,615	1,184,769	21.1	173,855	1,233,930	23.5	193,629	1,356,468
2021	850,734	20.1	170,998	1,198,314	21.1	179,505	1,248,037	23.5	199,922	1,371,976
2022	878,383	20.1	176,555	1,210,490	21.1	185,339	1,260,718	23.5	206,420	1,385,917
2023	906,930	20.1	182,293	1,221,121	21.1	191,362	1,271,790	23.5	213,129	1,398,089
2024	936,405	20.1	188,217	1,230,016	21.1	197,581	1,281,054	23.5	220,055	1,408,273
2025	966,838	20.1	194,334	1,236,968	21.1	204,003	1,288,294	23.5	227,207	1,416,232
2026	998,260	20.1	200,650	1,241,751	21.1	210,633	1,293,276	23.5	234,591	1,421,709
2027	1,030,703	20.1	207,171	1,244,122	21.1	217,478	1,295,745	23.5	242,215	1,424,424

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.

St. Clair Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	13.8%	\$106,660	\$ 654,581	16.9%	\$130,620	\$ 818,250	17.2%	\$132,939	\$ 838,657
2019	798,019	13.8	110,127	663,549	16.9	134,865	829,460	17.2	137,259	850,146
2020	823,955	13.8	113,706	671,916	16.9	139,248	839,919	17.2	141,720	860,866
2021	850,734	13.8	117,401	679,598	16.9	143,774	849,522	17.2	146,326	870,708
2022	878,383	13.8	121,217	686,503	16.9	148,447	858,154	17.2	151,082	879,555
2023	906,930	13.8	125,156	692,532	16.9	153,271	865,691	17.2	155,992	887,280
2024	936,405	13.8	129,224	697,577	16.9	158,252	871,997	17.2	161,062	893,743
2025	966,838	13.8	133,424	701,519	16.9	163,396	876,925	17.2	166,296	898,794
2026	998,260	13.8	137,760	704,232	16.9	168,706	880,316	17.2	171,701	902,270
2027	1,030,703	13.8	142,237	705,577	16.9	174,189	881,997	17.2	177,281	903,993

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	19.5%	\$150,716	\$ 956,302	20.1%	\$155,353	\$ 981,934	21.8%	\$168,492	\$ 1,073,983
2019	798,019	19.5	155,614	969,403	20.1	160,402	995,386	21.8	173,968	1,088,696
2020	823,955	19.5	160,671	981,627	20.1	165,615	1,007,937	21.8	179,622	1,102,424
2021	850,734	19.5	165,893	992,850	20.1	170,998	1,019,461	21.8	185,460	1,115,028
2022	878,383	19.5	171,285	1,002,938	20.1	176,555	1,029,820	21.8	191,487	1,126,358
2023	906,930	19.5	176,851	1,011,746	20.1	182,293	1,038,864	21.8	197,711	1,136,250
2024	936,405	19.5	182,599	1,019,116	20.1	188,217	1,046,431	21.8	204,136	1,144,527
2025	966,838	19.5	188,533	1,024,876	20.1	194,334	1,052,345	21.8	210,771	1,150,995
2026	998,260	19.5	194,661	1,028,839	20.1	200,650	1,056,414	21.8	217,621	1,155,446
2027	1,030,703	19.5	200,987	1,030,804	20.1	207,171	1,058,431	21.8	224,693	1,157,652

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	23.3%	\$180,086	\$ 1,145,567	24.2%	\$187,042	\$ 1,191,556	26.4%	\$204,046	\$ 1,309,235
2019	798,019	23.3	185,938	1,161,261	24.2	193,121	1,207,880	26.4	210,677	1,327,171
2020	823,955	23.3	191,982	1,175,904	24.2	199,397	1,223,111	26.4	217,524	1,343,906
2021	850,734	23.3	198,221	1,189,348	24.2	205,878	1,237,095	26.4	224,594	1,359,271
2022	878,383	23.3	204,663	1,201,433	24.2	212,569	1,249,665	26.4	231,893	1,373,082
2023	906,930	23.3	211,315	1,211,984	24.2	219,477	1,260,640	26.4	239,430	1,385,141
2024	936,405	23.3	218,182	1,220,813	24.2	226,610	1,269,823	26.4	247,211	1,395,231
2025	966,838	23.3	225,273	1,227,713	24.2	233,975	1,277,000	26.4	255,245	1,403,116
2026	998,260	23.3	232,595	1,232,461	24.2	241,579	1,281,938	26.4	263,541	1,408,542
2027	1,030,703	23.3	240,154	1,234,814	24.2	249,430	1,284,386	26.4	272,106	1,411,232

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.

St. Clair Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% member contributions are additional)

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	14.2%	\$109,752	\$ 677,393	17.5%	\$135,258	\$ 846,739	17.7%	\$136,803	\$ 868,050
2019	798,019	14.2	113,319	686,673	17.5	139,653	858,339	17.7	141,249	879,942
2020	823,955	14.2	117,002	695,332	17.5	144,192	869,162	17.7	145,840	891,038
2021	850,734	14.2	120,804	703,282	17.5	148,878	879,099	17.7	150,580	901,225
2022	878,383	14.2	124,730	710,428	17.5	153,717	888,031	17.7	155,474	910,382
2023	906,930	14.2	128,784	716,667	17.5	158,713	895,830	17.7	160,527	918,377
2024	936,405	14.2	132,970	721,887	17.5	163,871	902,356	17.7	165,744	925,067
2025	966,838	14.2	137,291	725,967	17.5	169,197	907,456	17.7	171,130	930,295
2026	998,260	14.2	141,753	728,774	17.5	174,696	910,965	17.7	176,692	933,892
2027	1,030,703	14.2	146,360	730,166	17.5	180,373	912,704	17.7	182,434	935,675

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 %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	20.1%	\$155,353	\$ 989,734	20.8%	\$160,763	\$ 1,016,113	22.6%	\$174,675	\$ 1,111,471
2019	798,019	20.1	160,402	1,003,293	20.8	165,988	1,030,034	22.6	180,352	1,126,698
2020	823,955	20.1	165,615	1,015,944	20.8	171,383	1,043,022	22.6	186,214	1,140,905
2021	850,734	20.1	170,998	1,027,559	20.8	176,953	1,054,947	22.6	192,266	1,153,949
2022	878,383	20.1	176,555	1,038,000	20.8	182,704	1,065,666	22.6	198,515	1,165,674
2023	906,930	20.1	182,293	1,047,116	20.8	188,641	1,075,025	22.6	204,966	1,175,911
2024	936,405	20.1	188,217	1,054,744	20.8	194,772	1,082,856	22.6	211,628	1,184,477
2025	966,838	20.1	194,334	1,060,705	20.8	201,102	1,088,976	22.6	218,505	1,191,171
2026	998,260	20.1	200,650	1,064,807	20.8	207,638	1,093,187	22.6	225,607	1,195,777
2027	1,030,703	20.1	207,171	1,066,840	20.8	214,386	1,095,274	22.6	232,939	1,198,060

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	24.0%	\$185,496	\$ 1,185,460	25.0%	\$193,225	\$ 1,233,121	27.4%	\$211,775	\$ 1,354,833
2019	798,019	24.0	191,525	1,201,701	25.0	199,505	1,250,015	27.4	218,657	1,373,394
2020	823,955	24.0	197,749	1,216,854	25.0	205,989	1,265,777	27.4	225,764	1,390,712
2021	850,734	24.0	204,176	1,230,766	25.0	212,684	1,280,249	27.4	233,101	1,406,612
2022	878,383	24.0	210,812	1,243,272	25.0	219,596	1,293,257	27.4	240,677	1,420,904
2023	906,930	24.0	217,663	1,254,191	25.0	226,733	1,304,615	27.4	248,499	1,433,383
2024	936,405	24.0	224,737	1,263,327	25.0	234,101	1,314,118	27.4	256,575	1,443,824
2025	966,838	24.0	232,041	1,270,467	25.0	241,710	1,321,545	27.4	264,914	1,451,984
2026	998,260	24.0	239,582	1,275,380	25.0	249,565	1,326,655	27.4	273,523	1,457,599
2027	1,030,703	24.0	247,369	1,277,815	25.0	257,676	1,329,188	27.4	282,413	1,460,382

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.

St. Clair Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	10.3%	\$79,609	\$ 653,629	13.6%	\$105,114	\$ 822,480	14.3%	\$110,525	\$ 874,371
2019	798,019	10.3	82,196	662,584	13.6	108,531	833,748	14.3	114,117	886,350
2020	823,955	10.3	84,867	670,939	13.6	112,058	844,261	14.3	117,826	897,526
2021	850,734	10.3	87,626	678,610	13.6	115,700	853,913	14.3	121,655	907,787
2022	878,383	10.3	90,473	685,505	13.6	119,460	862,590	14.3	125,609	917,011
2023	906,930	10.3	93,414	691,525	13.6	123,342	870,166	14.3	129,691	925,065
2024	936,405	10.3	96,450	696,562	13.6	127,351	876,505	14.3	133,906	931,803
2025	966,838	10.3	99,584	700,499	13.6	131,490	881,459	14.3	138,258	937,069
2026	998,260	10.3	102,821	703,208	13.6	135,763	884,868	14.3	142,751	940,693
2027	1,030,703	10.3	106,162	704,551	13.6	140,176	886,558	14.3	147,391	942,489

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	16.7%	\$129,074	\$ 988,026	16.8%	\$129,847	\$ 990,930	18.9%	\$146,078	\$ 1,101,258
2019	798,019	16.7	133,269	1,001,562	16.8	134,067	1,004,506	18.9	150,826	1,116,345
2020	823,955	16.7	137,600	1,014,191	16.8	138,424	1,017,172	18.9	155,727	1,130,421
2021	850,734	16.7	142,073	1,025,786	16.8	142,923	1,028,801	18.9	160,789	1,143,345
2022	878,383	16.7	146,690	1,036,209	16.8	147,568	1,039,255	18.9	166,014	1,154,962
2023	906,930	16.7	151,457	1,045,309	16.8	152,364	1,048,382	18.9	171,410	1,165,105
2024	936,405	16.7	156,380	1,052,923	16.8	157,316	1,056,019	18.9	176,981	1,173,592
2025	966,838	16.7	161,462	1,058,874	16.8	162,429	1,061,987	18.9	182,732	1,180,225
2026	998,260	16.7	166,709	1,062,969	16.8	167,708	1,066,094	18.9	188,671	1,184,789
2027	1,030,703	16.7	172,127	1,064,999	16.8	173,158	1,068,130	18.9	194,803	1,187,051

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	20.1%	\$155,353	\$ 1,159,004	21.1%	\$163,082	\$ 1,214,140	23.5%	\$181,632	\$ 1,327,031
2019	798,019	20.1	160,402	1,174,882	21.1	168,382	1,230,774	23.5	187,534	1,345,211
2020	823,955	20.1	165,615	1,189,697	21.1	173,855	1,246,293	23.5	193,629	1,362,173
2021	850,734	20.1	170,998	1,203,299	21.1	179,505	1,260,542	23.5	199,922	1,377,747
2022	878,383	20.1	176,555	1,215,526	21.1	185,339	1,273,350	23.5	206,420	1,391,746
2023	906,930	20.1	182,293	1,226,201	21.1	191,362	1,284,533	23.5	213,129	1,403,969
2024	936,405	20.1	188,217	1,235,133	21.1	197,581	1,293,890	23.5	220,055	1,414,196
2025	966,838	20.1	194,334	1,242,114	21.1	204,003	1,301,203	23.5	227,207	1,422,189
2026	998,260	20.1	200,650	1,246,917	21.1	210,633	1,306,235	23.5	234,591	1,427,689
2027	1,030,703	20.1	207,171	1,249,298	21.1	217,478	1,308,729	23.5	242,215	1,430,415

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.

St. Clair Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	10.8%	\$83,473	\$ 677,504	14.2%	\$109,752	\$ 852,179	14.9%	\$115,162	\$ 906,202
2019	798,019	10.8	86,186	686,786	14.2	113,319	863,854	14.9	118,905	918,617
2020	823,955	10.8	88,987	695,446	14.2	117,002	874,747	14.9	122,769	930,200
2021	850,734	10.8	91,879	703,397	14.2	120,804	884,748	14.9	126,759	940,835
2022	878,383	10.8	94,865	710,544	14.2	124,730	893,738	14.9	130,879	950,395
2023	906,930	10.8	97,948	716,784	14.2	128,784	901,587	14.9	135,133	958,742
2024	936,405	10.8	101,132	722,005	14.2	132,970	908,154	14.9	139,524	965,726
2025	966,838	10.8	104,419	726,086	14.2	137,291	913,287	14.9	144,059	971,184
2026	998,260	10.8	107,812	728,894	14.2	141,753	916,819	14.9	148,741	974,940
2027	1,030,703	10.8	111,316	730,286	14.2	146,360	918,570	14.9	153,575	976,802

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	17.3%	\$133,712	\$ 1,023,734	17.6%	\$136,030	\$ 1,026,411	19.6%	\$151,488	\$ 1,140,739
2019	798,019	17.3	138,057	1,037,759	17.6	140,451	1,040,473	19.6	156,412	1,156,367
2020	823,955	17.3	142,544	1,050,844	17.6	145,016	1,053,593	19.6	161,495	1,170,948
2021	850,734	17.3	147,177	1,062,858	17.6	149,729	1,065,639	19.6	166,744	1,184,335
2022	878,383	17.3	151,960	1,073,658	17.6	154,595	1,076,467	19.6	172,163	1,196,369
2023	906,930	17.3	156,899	1,083,087	17.6	159,620	1,085,921	19.6	177,758	1,206,876
2024	936,405	17.3	161,998	1,090,977	17.6	164,807	1,093,831	19.6	183,535	1,215,667
2025	966,838	17.3	167,263	1,097,143	17.6	170,163	1,100,013	19.6	189,500	1,222,538
2026	998,260	17.3	172,699	1,101,386	17.6	175,694	1,104,267	19.6	195,659	1,227,266
2027	1,030,703	17.3	178,312	1,103,489	17.6	181,404	1,106,376	19.6	202,018	1,229,609

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	20.9%	\$161,536	\$ 1,200,422	22.0%	\$170,038	\$ 1,257,581	24.3%	\$187,815	\$ 1,374,265
2019	798,019	20.9	166,786	1,216,868	22.0	175,564	1,274,810	24.3	193,919	1,393,092
2020	823,955	20.9	172,207	1,232,212	22.0	181,270	1,290,885	24.3	200,221	1,410,658
2021	850,734	20.9	177,803	1,246,300	22.0	187,161	1,305,644	24.3	206,728	1,426,786
2022	878,383	20.9	183,582	1,258,964	22.0	193,244	1,318,911	24.3	213,447	1,441,283
2023	906,930	20.9	189,548	1,270,021	22.0	199,525	1,330,494	24.3	220,384	1,453,941
2024	936,405	20.9	195,709	1,279,272	22.0	206,009	1,340,186	24.3	227,546	1,464,532
2025	966,838	20.9	202,069	1,286,502	22.0	212,704	1,347,760	24.3	234,942	1,472,809
2026	998,260	20.9	208,636	1,291,477	22.0	219,617	1,352,972	24.3	242,577	1,478,504
2027	1,030,703	20.9	215,417	1,293,943	22.0	226,755	1,355,555	24.3	250,461	1,481,327

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.

St. Clair Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 772,900	14.2%	\$109,752	\$ 680,049	17.5%	\$135,258	\$ 850,079	18.2%	\$140,668	\$ 899,915
2019	798,019	14.2	113,319	689,366	17.5	139,653	861,725	18.2	145,239	912,244
2020	823,955	14.2	117,002	698,058	17.5	144,192	872,591	18.2	149,960	923,747
2021	850,734	14.2	120,804	706,039	17.5	148,878	882,567	18.2	154,834	934,308
2022	878,383	14.2	124,730	713,213	17.5	153,717	891,535	18.2	159,866	943,801
2023	906,930	14.2	128,784	719,477	17.5	158,713	899,365	18.2	165,061	952,090
2024	936,405	14.2	132,970	724,718	17.5	163,871	905,916	18.2	170,426	959,025
2025	966,838	14.2	137,291	728,814	17.5	169,197	911,036	18.2	175,965	964,445
2026	998,260	14.2	141,753	731,632	17.5	174,696	914,559	18.2	181,683	968,175
2027	1,030,703	14.2	146,360	733,029	17.5	180,373	916,305	18.2	187,588	970,024

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	20.6%	\$159,217	\$ 1,014,952	20.7%	\$159,990	\$ 1,011,660	22.8%	\$176,221	\$ 1,130,036
2019	798,019	20.6	164,392	1,028,857	20.7	165,190	1,025,520	22.8	181,948	1,145,517
2020	823,955	20.6	169,735	1,041,830	20.7	170,559	1,038,451	22.8	187,862	1,159,961
2021	850,734	20.6	175,251	1,053,741	20.7	176,102	1,050,324	22.8	193,967	1,173,223
2022	878,383	20.6	180,947	1,064,448	20.7	181,825	1,060,996	22.8	200,271	1,185,144
2023	906,930	20.6	186,828	1,073,796	20.7	187,735	1,070,314	22.8	206,780	1,195,552
2024	936,405	20.6	192,899	1,081,618	20.7	193,836	1,078,111	22.8	213,500	1,204,261
2025	966,838	20.6	199,169	1,087,731	20.7	200,135	1,084,204	22.8	220,439	1,211,067
2026	998,260	20.6	205,642	1,091,937	20.7	206,640	1,088,397	22.8	227,603	1,215,750
2027	1,030,703	20.6	212,325	1,094,022	20.7	213,356	1,090,475	22.8	235,000	1,218,071

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	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 772,900	24.0%	\$185,496	\$ 1,190,068	25.0%	\$193,225	\$ 1,245,040	27.4%	\$211,775	\$ 1,360,036
2019	798,019	24.0	191,525	1,206,372	25.0	199,505	1,262,097	27.4	218,657	1,378,668
2020	823,955	24.0	197,749	1,221,584	25.0	205,989	1,278,011	27.4	225,764	1,396,052
2021	850,734	24.0	204,176	1,235,550	25.0	212,684	1,292,622	27.4	233,101	1,412,013
2022	878,383	24.0	210,812	1,248,104	25.0	219,596	1,305,756	27.4	240,677	1,426,360
2023	906,930	24.0	217,663	1,259,065	25.0	226,733	1,317,224	27.4	248,499	1,438,887
2024	936,405	24.0	224,737	1,268,236	25.0	234,101	1,326,819	27.4	256,575	1,449,368
2025	966,838	24.0	232,041	1,275,404	25.0	241,710	1,334,318	27.4	264,914	1,457,559
2026	998,260	24.0	239,582	1,280,336	25.0	249,565	1,339,478	27.4	273,523	1,463,195
2027	1,030,703	24.0	247,369	1,282,781	25.0	257,676	1,342,036	27.4	282,413	1,465,989

Notes regarding the above projections:

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- 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.
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St. Clair Fire Protection District - Fire

Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% member contributions are additional)

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2018	\$ 772,900	14.7%	\$113,616	\$ 704,024	18.1%	\$139,895	\$ 880,057	18.8%	\$145,305	\$ 931,844
2019	798,019	14.7	117,309	713,669	18.1	144,441	892,114	18.8	150,028	944,610
2020	823,955	14.7	121,121	722,668	18.1	149,136	903,363	18.8	154,904	956,521
2021	850,734	14.7	125,058	730,930	18.1	153,983	913,691	18.8	159,938	967,457
2022	878,383	14.7	129,122	738,357	18.1	158,987	922,975	18.8	165,136	977,287
2023	906,930	14.7	133,319	744,842	18.1	164,154	931,081	18.8	170,503	985,870
2024	936,405	14.7	137,652	750,268	18.1	169,489	937,863	18.8	176,044	993,051
2025	966,838	14.7	142,125	754,508	18.1	174,998	943,163	18.8	181,766	998,663
2026	998,260	14.7	146,744	757,426	18.1	180,685	946,810	18.8	187,673	1,002,525
2027	1,030,703	14.7	151,513	758,872	18.1	186,557	948,618	18.8	193,772	1,004,439

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
2018	\$ 772,900	21.2%	\$163,855	\$ 1,050,889	21.5%	\$166,174	\$ 1,056,096	23.5%	\$181,632	\$ 1,169,982
2019	798,019	21.2	169,180	1,065,286	21.5	171,574	1,070,564	23.5	187,534	1,186,011
2020	823,955	21.2	174,678	1,078,719	21.5	177,150	1,084,063	23.5	193,629	1,200,966
2021	850,734	21.2	180,356	1,091,052	21.5	182,908	1,096,457	23.5	199,922	1,214,697
2022	878,383	21.2	186,217	1,102,138	21.5	188,852	1,107,598	23.5	206,420	1,227,039
2023	906,930	21.2	192,269	1,111,817	21.5	194,990	1,117,325	23.5	213,129	1,237,815
2024	936,405	21.2	198,518	1,119,916	21.5	201,327	1,125,464	23.5	220,055	1,246,832
2025	966,838	21.2	204,970	1,126,245	21.5	207,870	1,131,825	23.5	227,207	1,253,879
2026	998,260	21.2	211,631	1,130,600	21.5	214,626	1,136,202	23.5	234,591	1,258,728
2027	1,030,703	21.2	218,509	1,132,759	21.5	221,601	1,138,372	23.5	242,215	1,261,132

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
2018	\$ 772,900	24.8%	\$191,679	\$ 1,232,068	25.9%	\$200,181	\$ 1,289,042	28.2%	\$217,958	\$ 1,408,090
2019	798,019	24.8	197,909	1,248,947	25.9	206,687	1,306,702	28.2	225,041	1,427,381
2020	823,955	24.8	204,341	1,264,695	25.9	213,404	1,323,179	28.2	232,355	1,445,379
2021	850,734	24.8	210,982	1,279,154	25.9	220,340	1,338,307	28.2	239,907	1,461,904
2022	878,383	24.8	217,839	1,292,151	25.9	227,501	1,351,905	28.2	247,704	1,476,758
2023	906,930	24.8	224,919	1,303,499	25.9	234,895	1,363,778	28.2	255,754	1,489,727
2024	936,405	24.8	232,228	1,312,994	25.9	242,529	1,373,712	28.2	264,066	1,500,579
2025	966,838	24.8	239,776	1,320,415	25.9	250,411	1,381,476	28.2	272,648	1,509,060
2026	998,260	24.8	247,568	1,325,521	25.9	258,549	1,386,818	28.2	281,509	1,514,896
2027	1,030,703	24.8	255,614	1,328,052	25.9	266,952	1,389,466	28.2	290,658	1,517,789

Notes regarding the above projections:

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- 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.