The Initial Valuation For

Mid County Fire Protection District

as of July 31, 2019

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GRS Retirement Consulting
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November 26, 2019

Mid County Fire Protection District
St. Louis, Missouri

Ladies and Gentlemen:

Submitted in this report are the results of the actuarial valuation prepared to determine the employer contribution rates required to support, for your employees, the benefits provided by the Missouri Local Government Employees Retirement System (LAGERS). This report contains the information needed to comply with Missouri State disclosure requirements regarding the adoption of LAGERS benefits by a political subdivision (Sections 105.660 - 106.685 RSMo). 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, 2019.

One Towne Square | Suite 800 | Southfield, Michigan 48076-3723

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 July 31, 2019. 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 Drazilov

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.

Mid County Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	6.30%	3.00%	0.20%	9.50%
	Fire	11.00	4.30	0.60	15.90
L-3	General	8.00	4.30	0.30	12.60
	Fire	13.80	6.00	0.70	20.50
LT-4(65)	General	7.10	3.50	0.20	10.80
	Fire	13.70	6.20	0.60	20.50
LT-5(65)	General	8.60	4.80	0.30	13.70
	Fire	15.80	7.60	0.70	24.10
L-7	General	9.70	5.70	0.30	15.70
	Fire	16.60	7.80	0.80	25.20
LT-8(65)	General	10.10	6.00	0.30	16.40
	Fire	17.90	8.80	0.80	27.50
L-12	General	11.40	7.00	0.40	18.80
	Fire	19.30	9.60	0.90	29.80
LT-14(65)	General	11.60	7.20	0.40	19.20
	Fire	20.00	10.10	0.90	31.00
L-6	General	13.00	8.50	0.50	22.00
	Fire	22.10	11.40	1.00	34.50

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	6.50%	3.20%	0.20%	9.90%
	Fire	11.40	4.50	0.60	16.50
L-3	General	8.30	4.60	0.30	13.20
	Fire	14.20	6.40	0.70	21.30
LT-4(65)	General	7.40	3.70	0.20	11.30
	Fire	14.20	6.60	0.60	21.40
LT-5(65)	General	8.90	5.00	0.30	14.20
	Fire	16.40	7.80	0.70	24.90
L-7	General	10.00	6.10	0.30	16.40
	Fire	17.10	8.20	0.80	26.10
LT-8(65)	General	10.50	6.30	0.30	17.10
	Fire	18.50	9.20	0.80	28.50
L-12	General	11.80	7.50	0.40	19.70
	Fire	20.00	10.00	0.90	30.90
LT-14(65)	General	12.00	7.60	0.40	20.00
	Fire	20.70	10.50	0.90	32.10
L-6	General	13.50	8.90	0.50	22.90
	Fire	22.90	11.80	1.00	35.70

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll: Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	7.00%	6.20%	0.20%	13.40%
	Fire	11.00	8.10	0.60	19.70
L-3	General	8.70	7.50	0.30	16.50
	Fire	13.80	9.90	0.70	24.40
LT-4(65)	General	7.80	6.70	0.20	14.70
	Fire	13.80	10.00	0.60	24.40
LT-5(65)	General	9.40	7.90	0.30	17.60
	Fire	15.90	11.40	0.70	28.00
L-7	General	10.50	8.80	0.30	19.60
	Fire	16.60	11.70	0.80	29.10
LT-8(65)	General	10.90	9.10	0.30	20.30
	Fire	17.90	12.70	0.80	31.40
L-12	General	12.20	10.10	0.40	22.70
	Fire	19.30	13.50	0.90	33.70
LT-14(65)	General	12.50	10.20	0.40	23.10
	Fire	20.00	14.00	0.90	34.90
L-6	General	14.00	11.40	0.50	25.90
	Fire	22.10	15.30	1.00	38.40

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

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

Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll: Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	7.20%	6.40%	0.20%	13.80%
	Fire	11.40	8.30	0.60	20.30
L-3	General	9.10	7.70	0.30	17.10
	Fire	14.30	10.20	0.70	25.20
LT-4(65)	General	8.10	6.90	0.20	15.20
	Fire	14.30	10.40	0.60	25.30
LT-5(65)	General	9.70	8.10	0.30	18.10
	Fire	16.40	11.70	0.70	28.80
L-7	General	10.90	9.10	0.30	20.30
	Fire	17.10	12.10	0.80	30.00
LT-8(65)	General	11.30	9.40	0.30	21.00
	Fire	18.50	13.10	0.80	32.40
L-12	General	12.70	10.50	0.40	23.60
	Fire	20.00	13.90	0.90	34.80
LT-14(65)	General	12.90	10.60	0.40	23.90
	Fire	20.70	14.40	0.90	36.00
L-6	General	14.50	11.80	0.50	26.80
	Fire	22.80	15.80	1.00	39.60

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	7.30%	3.60%	0.20%	11.10%
	Fire	11.80	4.60	0.60	17.00
L-3	General	9.30	5.10	0.30	14.70
	Fire	14.70	6.50	0.70	21.90
LT-4(65)	General	9.40	4.80	0.20	14.40
	Fire	15.60	7.00	0.60	23.20
LT-5(65)	General	10.80	6.00	0.30	17.10
	Fire	17.60	8.20	0.70	26.50
L-7	General	11.20	6.60	0.30	18.10
	Fire	17.70	8.20	0.80	26.70
LT-8(65)	General	12.20	7.30	0.30	19.80
	Fire	19.60	9.40	0.80	29.80
L-12	General	13.10	8.20	0.40	21.70
	Fire	20.70	10.10	0.90	31.70
LT-14(65)	General	13.60	8.50	0.40	22.50
	Fire	21.60	10.70	0.90	33.20
L-6	General	15.00	9.80	0.50	25.30
	Fire	23.60	12.00	1.00	36.60

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

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	7.60%	3.80%	0.20%	11.60%
	Fire	12.20	4.80	0.60	17.60
L-3	General	9.60	5.40	0.30	15.30
	Fire	15.20	6.80	0.70	22.70
LT-4(65)	General	9.70	5.10	0.20	15.00
	Fire	16.10	7.30	0.60	24.00
LT-5(65)	General	11.20	6.30	0.30	17.80
	Fire	18.20	8.60	0.70	27.50
L-7	General	11.60	7.00	0.30	18.90
	Fire	18.30	8.70	0.80	27.80
LT-8(65)	General	12.70	7.60	0.30	20.60
	Fire	20.30	9.90	0.80	31.00
L-12	General	13.60	8.60	0.40	22.60
	Fire	21.40	10.60	0.90	32.90
LT-14(65)	General	14.10	8.90	0.40	23.40
	Fire	22.40	11.20	0.90	34.50
L-6	General	15.60	10.20	0.50	26.30
	Fire	24.40	12.50	1.00	37.90

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

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Mid County Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	8.00%	6.80%	0.20%	15.00%
	Fire	11.80	8.40	0.60	20.80
L-3	General	10.00	8.30	0.30	18.60
	Fire	14.80	10.30	0.70	25.80
LT-4(65)	General	10.00	8.10	0.20	18.30
	Fire	15.60	10.80	0.60	27.00
LT-5(65)	General	11.50	9.20	0.30	21.00
	Fire	17.60	12.10	0.70	30.40
L-7	General	12.00	9.70	0.30	22.00
	Fire	17.70	12.10	0.80	30.60
LT-8(65)	General	13.00	10.40	0.30	23.70
	Fire	19.60	13.30	0.80	33.70
L-12	General	14.00	11.20	0.40	25.60
	Fire	20.70	14.00	0.90	35.60
LT-14(65)	General	14.50	11.50	0.40	26.40
	Fire	21.60	14.60	0.90	37.10
L-6	General	16.00	12.70	0.50	29.20
	Fire	23.60	15.90	1.00	40.50

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 for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

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

Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	8.30%	7.00%	0.20%	15.50%
	Fire	12.20	8.70	0.60	21.50
L-3	General	10.40	8.50	0.30	19.20
	Fire	15.30	10.60	0.70	26.60
LT-4(65)	General	10.40	8.30	0.20	18.90
	Fire	16.20	11.10	0.60	27.90
LT-5(65)	General	11.90	9.50	0.30	21.70
	Fire	18.20	12.50	0.70	31.40
L-7	General	12.40	10.10	0.30	22.80
	Fire	18.30	12.60	0.80	31.70
LT-8(65)	General	13.50	10.70	0.30	24.50
	Fire	20.30	13.80	0.80	34.90
L-12	General	14.50	11.60	0.40	26.50
	Fire	21.40	14.50	0.90	36.80
LT-14(65)	General	15.00	11.90	0.40	27.30
	Fire	22.40	15.10	0.90	38.40
L-6	General	16.60	13.10	0.50	30.20
	Fire	24.40	16.40	1.00	41.80

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

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. 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.

Mid County Fire Protection District

Employer Contribution Dollars
Regular Retirement Eligibility

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

Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	$ 5,681	$ 311,183
L-3	7,575	401,709
LT-4(65)	6,485	403,595
LT-5(65)	8,149	469,604
L-7	9,411	492,235
LT-8(65)	9,813	537,498
L-12	11,305	582,761
LT-14(65)	11,477	605,393
L-6	13,142	673,287

Non-Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	$ 7,919	$ 382,849
L-3	9,813	475,261
LT-4(65)	8,723	477,147
LT-5(65)	10,387	543,156
L-7	11,650	565,787
LT-8(65)	12,051	611,050
L-12	13,543	656,313
LT-14(65)	13,715	678,945
L-6	15,380	746,839

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

Mid County Fire Protection District

Employer Contribution Dollars
Rule of 80 Retirement Eligibility

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

Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	$ 6,657	$ 331,929
L-3	8,780	428,112
LT-4(65)	8,608	452,630
LT-5(65)	10,215	518,638
L-7	10,846	524,296
LT-8(65)	11,822	584,647
L-12	12,969	620,480
LT-14(65)	13,429	650,656
L-6	15,093	714,778

Non-Contributory Plan

3 Year FAS		
Benefit Program	General	Fire
L-1	$ 8,895	$ 405,481
L-3	11,018	501,665
LT-4(65)	10,846	526,182
LT-5(65)	12,453	592,191
L-7	13,084	597,849
LT-8(65)	14,060	658,199
L-12	15,208	694,033
LT-14(65)	15,667	724,208
L-6	17,331	788,330

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

Mid County Fire Protection District

Employees and Payroll Included in the Valuation

	General	Fire
Number of Employees	1	18
Annual Payroll	$ 57,387	$ 1,885,958

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

APPENDIX I

UNFUNDED ACTUARIAL ACCRUED LIABILITY

Unfunded Actuarial Accrued Liability (UAAL)

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

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

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

Mid County Fire Protection District

Regular Retirement Eligibility

		Contributory		Non-Contributory	
Benefit Group	Employee Group	UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	$ 63,788	$ 66,209	$ 70,768	$ 73,210
	Fire	3,651,474	3,776,487	3,670,686	3,794,376
L-3	General	80,986	83,934	88,440	91,511
	Fire	4,576,064	4,732,105	4,588,365	4,742,926
LT-4(65)	General	72,223	74,926	79,141	81,887
	Fire	4,566,235	4,723,540	4,580,656	4,736,464
LT-5(65)	General	87,297	90,477	94,733	98,014
	Fire	5,262,171	5,442,389	5,270,780	5,449,460
L-7	General	97,905	101,407	106,105	109,818
	Fire	5,499,798	5,686,833	5,505,993	5,691,534
LT-8(65)	General	102,124	105,778	110,308	114,162
	Fire	5,957,164	6,160,330	5,961,002	6,162,597
L-12	General	114,805	118,860	123,806	128,124
	Fire	6,422,960	6,640,969	6,423,686	6,640,117
LT-14(65)	General	116,907	121,045	125,908	130,296
	Fire	6,651,654	6,877,738	6,651,189	6,875,665
L-6	General	131,667	136,335	141,498	146,431
	Fire	7,345,930	7,595,021	7,341,418	7,588,730

Mid County Fire Protection District

Unfunded Actuarial Accrued Liability (UAAL)

Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Contributory UAAL (5 Year FAS)	Contributory UAAL (3 Year FAS)	Non-Contributory UAAL (5 Year FAS)	Non-Contributory UAAL (3 Year FAS)
L-1	General	$ 74,053	$ 76,872	$ 80,825	$ 83,710
	Fire	3,904,292	4,040,903	3,922,743	4,058,281
L-3	General	93,703	97,165	101,041	104,636
	Fire	4,890,514	5,061,001	4,903,441	5,072,796
LT-4(65)	General	94,732	98,292	101,446	105,079
	Fire	5,179,292	5,361,715	5,192,078	5,373,227
LT-5(65)	General	109,212	113,232	116,501	120,663
	Fire	5,846,774	6,051,598	5,855,418	6,058,981
L-7	General	113,092	117,206	121,244	125,569
	Fire	5,876,010	6,080,393	5,884,100	6,087,404
LT-8(65)	General	123,432	127,920	131,555	136,254
	Fire	6,513,488	6,740,784	6,518,783	6,744,870
L-12	General	132,433	137,241	141,433	146,501
	Fire	6,861,032	7,099,392	6,864,792	7,101,933
LT-14(65)	General	137,602	142,593	146,593	151,843
	Fire	7,179,780	7,429,613	7,182,130	7,430,693
L-6	General	151,785	157,285	161,647	167,437
	Fire	7,845,884	8,118,265	7,845,548	8,116,536

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							
		General Members							
Sample	Years of	Men		Women		Police		Fire	
Ages	Service	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	Percent Increase in Individual's Pay During Next Year	
Ages	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	
Ages	Men	Women
55	3.00%	3.00%
56	3.00%	3.00%
57	3.00%	3.00%
58	3.00%	3.00%
59	3.00%	3.00%

Retirement		
Ages	Police	Fire
50	2.50%	2.50%
51	2.50%	2.50%
52	2.50%	2.50%
53	2.50%	2.50%
54	2.50%	2.50%

Normal Retirement

Retirement	General Members	
Ages	Men	Women
60	10%	10%
61	10	10
62	25	15
63	20	15
64	20	15
65	25	25
66	25	25
67	20	25
68	20	25
69	20	20
70	100	100

Retirement		
Ages	Police	Fire
55	10%	13%
56	10	13
57	10	13
58	10	13
59	10	13
60	10	15
61	10	15
62	25	20
63	20	20
64	20	20
65	100	100

Schedule 2. (Continued)

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

Retirement	General Members			
Ages	Men	Women	Police	Fire
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, 2019
(Section references are to RSMo)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX IV

BENEFIT ILLUSTRATIONS

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

Final Average Salary (FAS) [1]	LAGERS BENEFIT [3]	Estimated Social Security [2]	Estimated Monthly Total $	Estimated Monthly Total % of FAS
35 Years of Service:				
$1,500	$ 525	$ 930	$1,455	97%
2,000	700	1,076	1,776	89%
2,500	875	1,223	2,098	84%
3,000	1,050	1,370	2,420	81%
3,500	1,225	1,516	2,741	78%
4,000	1,400	1,662	3,062	77%
25 Years of Service:				
$1,500	$ 375	$ 930	$1,305	87%
2,000	500	1,076	1,576	79%
2,500	625	1,223	1,848	74%
3,000	750	1,370	2,120	71%
3,500	875	1,516	2,391	68%
4,000	1,000	1,662	2,662	67%
15 Years of Service:				
$1,500	$225	$ 930	$1,155	77%
2,000	300	1,076	1,376	69%
2,500	375	1,223	1,598	64%
3,000	450	1,370	1,820	61%
3,500	525	1,516	2,041	58%
4,000	600	1,662	2,262	57%

[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 2019 - 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 $	Estimated Monthly Total % of FAS
35 Years of Service:				
$1,500	$ 656	$ 930	$1,586	106%
2,000	875	1,076	1,951	98%
2,500	1,094	1,223	2,317	93%
3,000	1,313	1,370	2,683	89%
3,500	1,531	1,516	3,047	87%
4,000	1,750	1,662	3,412	85%
25 Years of Service:				
$1,500	$ 469	$ 930	$1,399	93%
2,000	625	1,076	1,701	85%
2,500	781	1,223	2,004	80%
3,000	938	1,370	2,308	77%
3,500	1,094	1,516	2,610	75%
4,000	1,250	1,662	2,912	73%
15 Years of Service:				
$1,500	$281	$ 930	$1,211	81%
2,000	375	1,076	1,451	73%
2,500	469	1,223	1,692	68%
3,000	563	1,370	1,933	64%
3,500	656	1,516	2,172	62%
4,000	750	1,662	2,412	60%

[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 2019 - 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 $	Estimated Monthly Total % of FAS
35 Years of Service:				
$1,500	$ 788	$ 930	$1,718	115%
2,000	1,050	1,076	2,126	106%
2,500	1,313	1,223	2,536	101%
3,000	1,575	1,370	2,945	98%
3,500	1,838	1,516	3,354	96%
4,000	2,100	1,662	3,762	94%
25 Years of Service:				
$1,500	$ 563	$ 930	$1,493	100%
2,000	750	1,076	1,826	91%
2,500	938	1,223	2,161	86%
3,000	1,125	1,370	2,495	83%
3,500	1,313	1,516	2,829	81%
4,000	1,500	1,662	3,162	79%
15 Years of Service:				
$1,500	$338	$ 930	$1,268	85%
2,000	450	1,076	1,526	76%
2,500	563	1,223	1,786	71%
3,000	675	1,370	2,045	68%
3,500	788	1,516	2,304	66%
4,000	900	1,662	2,562	64%

[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 2019 - 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 $	Estimated Monthly Total % of FAS
35 Years of Service:				
$1,500	$ 919	$ 930	$1,849	123%
2,000	1,225	1,076	2,301	115%
2,500	1,531	1,223	2,754	110%
3,000	1,838	1,370	3,208	107%
3,500	2,144	1,516	3,660	105%
4,000	2,450	1,662	4,112	103%
25 Years of Service:				
$1,500	$ 656	$ 930	$1,586	106%
2,000	875	1,076	1,951	98%
2,500	1,094	1,223	2,317	93%
3,000	1,313	1,370	2,683	89%
3,500	1,531	1,516	3,047	87%
4,000	1,750	1,662	3,412	85%
15 Years of Service:				
$1,500	$ 394	$ 930	$1,324	88%
2,000	525	1,076	1,601	80%
2,500	656	1,223	1,879	75%
3,000	788	1,370	2,158	72%
3,500	919	1,516	2,435	70%
4,000	1,050	1,662	2,712	68%

[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 2019 - 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 $	Estimated Monthly Total % of FAS
35 Years of Service:				
$1,500	$1,050	$ 930	$1,980	132%
2,000	1,400	1,076	2,476	124%
2,500	1,750	1,223	2,973	119%
3,000	2,100	1,370	3,470	116%
3,500	2,450	1,516	3,966	113%
4,000	2,800	1,662	4,462	112%
25 Years of Service:				
$1,500	$ 750	$ 930	$1,680	112%
2,000	1,000	1,076	2,076	104%
2,500	1,250	1,223	2,473	99%
3,000	1,500	1,370	2,870	96%
3,500	1,750	1,516	3,266	93%
4,000	2,000	1,662	3,662	92%
15 Years of Service:				
$1,500	$ 450	$ 930	$1,380	92%
2,000	600	1,076	1,676	84%
2,500	750	1,223	1,973	79%
3,000	900	1,370	2,270	76%
3,500	1,050	1,516	2,566	73%
4,000	1,200	1,662	2,862	72%

[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 2019 - 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] To 65	LAGERS BENEFIT [3] At 65	Estimated Social Security [2]	Estimated Monthly Total To 65	Estimated Monthly Total At 65	Percent of FAS To 65	Percent of FAS At 65
35 Years of Service:							
$1,500	$1,050	$ 525	$ 930	$1,050	$1,455	70%	97%
2,000	1,400	700	1,076	1,400	1,776	70%	89%
2,500	1,750	875	1,223	1,750	2,098	70%	84%
3,000	2,100	1,050	1,370	2,100	2,420	70%	81%
3,500	2,450	1,225	1,516	2,450	2,741	70%	78%
4,000	2,800	1,400	1,662	2,800	3,062	70%	77%
25 Years of Service:							
$1,500	$ 750	$ 375	$ 930	$ 750	$1,305	50%	87%
2,000	1,000	500	1,076	1,000	1,576	50%	79%
2,500	1,250	625	1,223	1,250	1,848	50%	74%
3,000	1,500	750	1,370	1,500	2,120	50%	71%
3,500	1,750	875	1,516	1,750	2,391	50%	68%
4,000	2,000	1,000	1,662	2,000	2,662	50%	67%
15 Years of Service:							
$1,500	$ 450	$225	$ 930	$ 450	$1,155	30%	77%
2,000	600	300	1,076	600	1,376	30%	69%
2,500	750	375	1,223	750	1,598	30%	64%
3,000	900	450	1,370	900	1,820	30%	61%
3,500	1,050	525	1,516	1,050	2,041	30%	58%
4,000	1,200	600	1,662	1,200	2,262	30%	57%

[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 2019 - 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] To 65	LAGERS BENEFIT [3] At 65	Estimated Social Security [2]	Estimated Monthly Total To 65	Estimated Monthly Total At 65	Percent of FAS To 65	Percent of FAS At 65
35 Years of Service:							
$1,500	$1,050	$ 656	$ 930	$1,050	$1,586	70%	106%
2,000	1,400	875	1,076	1,400	1,951	70%	98%
2,500	1,750	1,094	1,223	1,750	2,317	70%	93%
3,000	2,100	1,313	1,370	2,100	2,683	70%	89%
3,500	2,450	1,531	1,516	2,450	3,047	70%	87%
4,000	2,800	1,750	1,662	2,800	3,412	70%	85%
25 Years of Service:							
$1,500	$ 750	$ 469	$ 930	$ 750	$1,399	50%	93%
2,000	1,000	625	1,076	1,000	1,701	50%	85%
2,500	1,250	781	1,223	1,250	2,004	50%	80%
3,000	1,500	938	1,370	1,500	2,308	50%	77%
3,500	1,750	1,094	1,516	1,750	2,610	50%	75%
4,000	2,000	1,250	1,662	2,000	2,912	50%	73%
15 Years of Service:							
$1,500	$ 450	$281	$ 930	$ 450	$1,211	30%	81%
2,000	600	375	1,076	600	1,451	30%	73%
2,500	750	469	1,223	750	1,692	30%	68%
3,000	900	563	1,370	900	1,933	30%	64%
3,500	1,050	656	1,516	1,050	2,172	30%	62%
4,000	1,200	750	1,662	1,200	2,412	30%	60%

[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 2019 - 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] To 65	LAGERS BENEFIT [3] At 65	Estimated Social Security [2]	Estimated Monthly Total To 65	Estimated Monthly Total At 65	Percent of FAS To 65	Percent of FAS At 65
35 Years of Service:							
$1,500	$1,050	$ 788	$ 930	$1,050	$1,718	70%	115%
2,000	1,400	1,050	1,076	1,400	2,126	70%	106%
2,500	1,750	1,313	1,223	1,750	2,536	70%	101%
3,000	2,100	1,575	1,370	2,100	2,945	70%	98%
3,500	2,450	1,838	1,516	2,450	3,354	70%	96%
4,000	2,800	2,100	1,662	2,800	3,762	70%	94%
25 Years of Service:							
$1,500	$ 750	$ 563	$ 930	$ 750	$1,493	50%	100%
2,000	1,000	750	1,076	1,000	1,826	50%	91%
2,500	1,250	938	1,223	1,250	2,161	50%	86%
3,000	1,500	1,125	1,370	1,500	2,495	50%	83%
3,500	1,750	1,313	1,516	1,750	2,829	50%	81%
4,000	2,000	1,500	1,662	2,000	3,162	50%	79%
15 Years of Service:							
$1,500	$ 450	$338	$ 930	$ 450	$1,268	30%	85%
2,000	600	450	1,076	600	1,526	30%	76%
2,500	750	563	1,223	750	1,786	30%	71%
3,000	900	675	1,370	900	2,045	30%	68%
3,500	1,050	788	1,516	1,050	2,304	30%	66%
4,000	1,200	900	1,662	1,200	2,562	30%	64%

[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 2019 - 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] To 65	LAGERS BENEFIT [3] At 65	Estimated Social Security [2]	Estimated Monthly Total To 65	Estimated Monthly Total At 65	Percent of FAS To 65	Percent of FAS At 65
35 Years of Service:							
$1,500	$1,050	$ 919	$ 930	$1,050	$1,849	70%	123%
2,000	1,400	1,225	1,076	1,400	2,301	70%	115%
2,500	1,750	1,531	1,223	1,750	2,754	70%	110%
3,000	2,100	1,838	1,370	2,100	3,208	70%	107%
3,500	2,450	2,144	1,516	2,450	3,660	70%	105%
4,000	2,800	2,450	1,662	2,800	4,112	70%	103%
25 Years of Service:							
$1,500	$ 750	$ 656	$ 930	$ 750	$1,586	50%	106%
2,000	1,000	875	1,076	1,000	1,951	50%	98%
2,500	1,250	1,094	1,223	1,250	2,317	50%	93%
3,000	1,500	1,313	1,370	1,500	2,683	50%	89%
3,500	1,750	1,531	1,516	1,750	3,047	50%	87%
4,000	2,000	1,750	1,662	2,000	3,412	50%	85%
15 Years of Service:							
$1,500	$ 450	$ 394	$ 930	$ 450	$1,324	30%	88%
2,000	600	525	1,076	600	1,601	30%	80%
2,500	750	656	1,223	750	1,879	30%	75%
3,000	900	788	1,370	900	2,158	30%	72%
3,500	1,050	919	1,516	1,050	2,435	30%	70%
4,000	1,200	1,050	1,662	1,200	2,712	30%	68%

[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 2019 - 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

Mid County Fire Protection District - General

July 31, 2019

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date 0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	Totals No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39									
40-44			1					1	$ 57,387
45-49									
50-54									
55-59									
60-64									
65-69									
70 & Over									
Totals			**1**					**1**	**$ 57,387**

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

Age: 43.4 years.

Benefit Service: 13.9 years.

Annual Pay: $ 57,387.

Mid County Fire Protection District - Fire

July 31, 2019

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34	1							1	$ 98,466
35-39	2							2	$ 197,604
40-44					1			1	$ 94,489
45-49	1		1		2			4	$ 414,266
50-54					4		1	5	$ 539,570
55-59			1		1		1	3	$ 293,160
60-64			1					1	$ 126,321
65-69							1	1	$ 122,082
70 & Over									
Totals	**4**		**3**		**8**		**3**	**18**	**$ 1,885,958**

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

Age: 49.8 years.

Benefit Service: 18.1 years.

Annual Pay: $ 104,775.

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.

GRS Retirement Consulting

800.521.0498 | P: 248.799.9000 | F: 248.799.9020 | www.grsconsulting.com

November 26, 2019 E-mail

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

Dear Bob:

Enclosed is the report of the July 31, 2019 Initial Actuarial Valuation of LAGERS benefits for the employees of

Mid County Fire Protection District

Sincerely,

Mita Drazilov

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp

One Towne Square | Suite 800 | Southfield, Michigan 48076-3723

November 26, 2019

Mid County Fire Protection District
St. Louis, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.660 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the July 31, 2019 Initial Valuation for the Mid County Fire Protection District dated November 26, 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, 2019.

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 Drazilov

Mita D. Drazilov, ASA, FCA, MAAA

Mid County Fire Protection District - General

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

Regular Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	9.5%	$5,452	$ 63,788	12.6%	$7,231	$ 80,986	10.8%	$6,198	$ 72,223
2020	59,252	9.5	5,629	64,662	12.6	7,466	82,095	10.8	6,399	73,212
2021	61,178	9.5	5,812	65,477	12.6	7,708	83,130	10.8	6,607	74,135
2022	63,166	9.5	6,001	66,226	12.6	7,959	84,080	10.8	6,822	74,983
2023	65,219	9.5	6,196	66,899	12.6	8,218	84,934	10.8	7,044	75,745
2024	67,339	9.5	6,397	67,487	12.6	8,485	85,680	10.8	7,273	76,410
2025	69,528	9.5	6,605	67,979	12.6	8,761	86,304	10.8	7,509	76,967
2026	71,788	9.5	6,820	68,363	12.6	9,045	86,792	10.8	7,753	77,402
2027	74,121	9.5	7,041	68,627	12.6	9,339	87,128	10.8	8,005	77,701
2028	76,530	9.5	7,270	68,758	12.6	9,643	87,294	10.8	8,265	77,849

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	13.7%	$7,862	$ 87,297	15.7%	$9,010	$ 97,905	16.4%	$9,411	$ 102,124
2020	59,252	13.7	8,118	88,493	15.7	9,303	99,246	16.4	9,717	103,523
2021	61,178	13.7	8,381	89,609	15.7	9,605	100,497	16.4	10,033	104,828
2022	63,166	13.7	8,654	90,633	15.7	9,917	101,646	16.4	10,359	106,026
2023	65,219	13.7	8,935	91,554	15.7	10,239	102,679	16.4	10,696	107,103
2024	67,339	13.7	9,225	92,358	15.7	10,572	103,581	16.4	11,044	108,044
2025	69,528	13.7	9,525	93,031	15.7	10,916	104,336	16.4	11,403	108,831
2026	71,788	13.7	9,835	93,557	15.7	11,271	104,926	16.4	11,773	109,446
2027	74,121	13.7	10,155	93,919	15.7	11,637	105,332	16.4	12,156	109,869
2028	76,530	13.7	10,485	94,098	15.7	12,015	105,533	16.4	12,551	110,079

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	18.8%	$10,789	$ 114,805	19.2%	$11,018	$ 116,907	22.0%	$12,625	$ 131,667
2020	59,252	18.8	11,139	116,378	19.2	11,376	118,509	22.0	13,035	133,471
2021	61,178	18.8	11,501	117,845	19.2	11,746	120,003	22.0	13,459	135,154
2022	63,166	18.8	11,875	119,192	19.2	12,128	121,375	22.0	13,897	136,699
2023	65,219	18.8	12,261	120,403	19.2	12,522	122,608	22.0	14,348	138,088
2024	67,339	18.8	12,660	121,460	19.2	12,929	123,685	22.0	14,815	139,301
2025	69,528	18.8	13,071	122,345	19.2	13,349	124,586	22.0	15,296	140,316
2026	71,788	18.8	13,496	123,036	19.2	13,783	125,290	22.0	15,793	141,109
2027	74,121	18.8	13,935	123,512	19.2	14,231	125,775	22.0	16,307	141,655
2028	76,530	18.8	14,388	123,748	19.2	14,694	126,015	22.0	16,837	141,925

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.

Mid County Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-1: Annual Dollars	L-1: Unfunded Actuarial Accrued Liability	L-3 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-3: Annual Dollars	L-3: Unfunded Actuarial Accrued Liability	LT-4(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-4(65): Annual Dollars	LT-4(65): Unfunded Actuarial Accrued Liability
2019	$ 57,387	9.9%	$5,681	$ 66,209	13.2%	$7,575	$ 83,934	11.3%	$6,485	$ 74,926
2020	59,252	9.9	5,866	67,116	13.2	7,821	85,084	11.3	6,695	75,952
2021	61,178	9.9	6,057	67,962	13.2	8,075	86,157	11.3	6,913	76,910
2022	63,166	9.9	6,253	68,739	13.2	8,338	87,142	11.3	7,138	77,789
2023	65,219	9.9	6,457	69,437	13.2	8,609	88,027	11.3	7,370	78,579
2024	67,339	9.9	6,667	70,047	13.2	8,889	88,800	11.3	7,609	79,269
2025	69,528	9.9	6,883	70,557	13.2	9,178	89,447	11.3	7,857	79,846
2026	71,788	9.9	7,107	70,956	13.2	9,476	89,953	11.3	8,112	80,297
2027	74,121	9.9	7,338	71,230	13.2	9,784	90,301	11.3	8,376	80,608
2028	76,530	9.9	7,576	71,366	13.2	10,102	90,473	11.3	8,648	80,762

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-5(65): Annual Dollars	LT-5(65): Unfunded Actuarial Accrued Liability	L-7 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-7: Annual Dollars	L-7: Unfunded Actuarial Accrued Liability	LT-8(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-8(65): Annual Dollars	LT-8(65): Unfunded Actuarial Accrued Liability
2019	$ 57,387	14.2%	$8,149	$ 90,477	16.4%	$9,411	$ 101,407	17.1%	$9,813	$ 105,778
2020	59,252	14.2	8,414	91,717	16.4	9,717	102,796	17.1	10,132	107,227
2021	61,178	14.2	8,687	92,873	16.4	10,033	104,092	17.1	10,461	108,579
2022	63,166	14.2	8,970	93,935	16.4	10,359	105,282	17.1	10,801	109,820
2023	65,219	14.2	9,261	94,889	16.4	10,696	106,352	17.1	11,152	110,936
2024	67,339	14.2	9,562	95,722	16.4	11,044	107,286	17.1	11,515	111,910
2025	69,528	14.2	9,873	96,419	16.4	11,403	108,068	17.1	11,889	112,725
2026	71,788	14.2	10,194	96,964	16.4	11,773	108,679	17.1	12,276	113,362
2027	74,121	14.2	10,525	97,339	16.4	12,156	109,099	17.1	12,675	113,800
2028	76,530	14.2	10,867	97,525	16.4	12,551	109,307	17.1	13,087	114,017

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-12: Annual Dollars	L-12: Unfunded Actuarial Accrued Liability	LT-14(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-14(65): Annual Dollars	LT-14(65): Unfunded Actuarial Accrued Liability	L-6 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-6: Annual Dollars	L-6: Unfunded Actuarial Accrued Liability
2019	$ 57,387	19.7%	$11,305	$ 118,860	20.0%	$11,477	$ 121,045	22.9%	$13,142	$ 136,335
2020	59,252	19.7	11,673	120,488	20.0	11,850	122,703	22.9	13,569	138,203
2021	61,178	19.7	12,052	122,007	20.0	12,236	124,250	22.9	14,010	139,946
2022	63,166	19.7	12,444	123,402	20.0	12,633	125,671	22.9	14,465	141,546
2023	65,219	19.7	12,848	124,656	20.0	13,044	126,948	22.9	14,935	142,984
2024	67,339	19.7	13,266	125,751	20.0	13,468	128,063	22.9	15,421	144,240
2025	69,528	19.7	13,697	126,667	20.0	13,906	128,996	22.9	15,922	145,291
2026	71,788	19.7	14,142	127,383	20.0	14,358	129,725	22.9	16,439	146,112
2027	74,121	19.7	14,602	127,876	20.0	14,824	130,227	22.9	16,974	146,677
2028	76,530	19.7	15,076	128,120	20.0	15,306	130,476	22.9	17,525	146,957

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.

Mid County Fire Protection District - General

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

Regular Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	13.4%	$7,690	$ 70,768	16.5%	$9,469	$ 88,440	14.7%	$8,436	$ 79,141
2020	59,252	13.4	7,940	71,738	16.5	9,777	89,652	14.7	8,710	80,225
2021	61,178	13.4	8,198	72,643	16.5	10,094	90,782	14.7	8,993	81,237
2022	63,166	13.4	8,464	73,474	16.5	10,422	91,820	14.7	9,285	82,166
2023	65,219	13.4	8,739	74,221	16.5	10,761	92,753	14.7	9,587	83,001
2024	67,339	13.4	9,023	74,873	16.5	11,111	93,568	14.7	9,899	83,730
2025	69,528	13.4	9,317	75,418	16.5	11,472	94,250	14.7	10,221	84,340
2026	71,788	13.4	9,620	75,844	16.5	11,845	94,783	14.7	10,553	84,817
2027	74,121	13.4	9,932	76,137	16.5	12,230	95,150	14.7	10,896	85,145
2028	76,530	13.4	10,255	76,282	16.5	12,627	95,332	14.7	11,250	85,308

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	17.6%	$10,100	$ 94,733	19.6%	$11,248	$ 106,105	20.3%	$11,650	$ 110,308
2020	59,252	17.6	10,428	96,031	19.6	11,613	107,559	20.3	12,028	111,819
2021	61,178	17.6	10,767	97,242	19.6	11,991	108,915	20.3	12,419	113,229
2022	63,166	17.6	11,117	98,354	19.6	12,381	110,160	20.3	12,823	114,524
2023	65,219	17.6	11,479	99,353	19.6	12,783	111,279	20.3	13,239	115,688
2024	67,339	17.6	11,852	100,226	19.6	13,198	112,256	20.3	13,670	116,704
2025	69,528	17.6	12,237	100,956	19.6	13,627	113,074	20.3	14,114	117,554
2026	71,788	17.6	12,635	101,527	19.6	14,070	113,713	20.3	14,573	118,218
2027	74,121	17.6	13,045	101,920	19.6	14,528	114,153	20.3	15,047	118,675
2028	76,530	17.6	13,469	102,115	19.6	15,000	114,371	20.3	15,536	118,902

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	22.7%	$13,027	$ 123,806	23.1%	$13,256	$ 125,908	25.9%	$14,863	$ 141,498
2020	59,252	22.7	13,450	125,502	23.1	13,687	127,633	25.9	15,346	143,437
2021	61,178	22.7	13,887	127,085	23.1	14,132	129,242	25.9	15,845	145,246
2022	63,166	22.7	14,339	128,538	23.1	14,591	130,720	25.9	16,360	146,907
2023	65,219	22.7	14,805	129,844	23.1	15,066	132,048	25.9	16,892	148,400
2024	67,339	22.7	15,286	130,984	23.1	15,555	133,208	25.9	17,441	149,703
2025	69,528	22.7	15,783	131,938	23.1	16,061	134,178	25.9	18,008	150,793
2026	71,788	22.7	16,296	132,684	23.1	16,583	134,936	25.9	18,593	151,645
2027	74,121	22.7	16,825	133,197	23.1	17,122	135,458	25.9	19,197	152,231
2028	76,530	22.7	17,372	133,451	23.1	17,678	135,717	25.9	19,821	152,522

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.

Mid County Fire Protection District - General

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

Regular Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	13.8%	$7,919	$ 73,210	17.1%	$9,813	$ 91,511	15.2%	$8,723	$ 81,887
2020	59,252	13.8	8,177	74,213	17.1	10,132	92,765	15.2	9,006	83,009
2021	61,178	13.8	8,443	75,149	17.1	10,461	93,935	15.2	9,299	84,056
2022	63,166	13.8	8,717	76,008	17.1	10,801	95,009	15.2	9,601	85,017
2023	65,219	13.8	9,000	76,780	17.1	11,152	95,974	15.2	9,913	85,881
2024	67,339	13.8	9,293	77,454	17.1	11,515	96,817	15.2	10,236	86,635
2025	69,528	13.8	9,595	78,018	17.1	11,889	97,522	15.2	10,568	87,266
2026	71,788	13.8	9,907	78,459	17.1	12,276	98,073	15.2	10,912	87,759
2027	74,121	13.8	10,229	78,762	17.1	12,675	98,452	15.2	11,266	88,098
2028	76,530	13.8	10,561	78,912	17.1	13,087	98,640	15.2	11,633	88,266

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	18.1%	$10,387	$ 98,014	20.3%	$11,650	$ 109,818	21.0%	$12,051	$ 114,162
2020	59,252	18.1	10,725	99,357	20.3	12,028	111,322	21.0	12,443	115,726
2021	61,178	18.1	11,073	100,610	20.3	12,419	112,726	21.0	12,847	117,185
2022	63,166	18.1	11,433	101,760	20.3	12,823	114,015	21.0	13,265	118,525
2023	65,219	18.1	11,805	102,794	20.3	13,239	115,173	21.0	13,696	119,729
2024	67,339	18.1	12,188	103,697	20.3	13,670	116,184	21.0	14,141	120,781
2025	69,528	18.1	12,585	104,452	20.3	14,114	117,030	21.0	14,601	121,661
2026	71,788	18.1	12,994	105,042	20.3	14,573	117,691	21.0	15,075	122,349
2027	74,121	18.1	13,416	105,448	20.3	15,047	118,146	21.0	15,565	122,822
2028	76,530	18.1	13,852	105,649	20.3	15,536	118,372	21.0	16,071	123,057

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	23.6%	$13,543	$ 128,124	23.9%	$13,715	$ 130,296	26.8%	$15,380	$ 146,431
2020	59,252	23.6	13,983	129,879	23.9	14,161	132,081	26.8	15,880	148,437
2021	61,178	23.6	14,438	131,517	23.9	14,622	133,746	26.8	16,396	150,309
2022	63,166	23.6	14,907	133,021	23.9	15,097	135,275	26.8	16,928	152,027
2023	65,219	23.6	15,392	134,373	23.9	15,587	136,650	26.8	17,479	153,572
2024	67,339	23.6	15,892	135,553	23.9	16,094	137,850	26.8	18,047	154,921
2025	69,528	23.6	16,409	136,540	23.9	16,617	138,854	26.8	18,634	156,049
2026	71,788	23.6	16,942	137,312	23.9	17,157	139,639	26.8	19,239	156,931
2027	74,121	23.6	17,493	137,843	23.9	17,715	140,179	26.8	19,864	157,538
2028	76,530	23.6	18,061	138,106	23.9	18,291	140,447	26.8	20,510	157,839

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 28^{th} have not been incorporated in the above results.
5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Mid County Fire Protection District - General

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

Rule of 80 Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	11.1%	$6,370	$ 74,053	14.7%	$8,436	$ 93,703	14.4%	$8,264	$ 94,732
2020	59,252	11.1	6,577	75,068	14.7	8,710	94,987	14.4	8,532	96,030
2021	61,178	11.1	6,791	76,015	14.7	8,993	96,185	14.4	8,810	97,241
2022	63,166	11.1	7,011	76,884	14.7	9,285	97,285	14.4	9,096	98,353
2023	65,219	11.1	7,239	77,665	14.7	9,587	98,274	14.4	9,392	99,352
2024	67,339	11.1	7,475	78,347	14.7	9,899	99,137	14.4	9,697	100,225
2025	69,528	11.1	7,718	78,918	14.7	10,221	99,859	14.4	10,012	100,955
2026	71,788	11.1	7,968	79,364	14.7	10,553	100,423	14.4	10,337	101,526
2027	74,121	11.1	8,227	79,671	14.7	10,896	100,811	14.4	10,673	101,919
2028	76,530	11.1	8,495	79,823	14.7	11,250	101,003	14.4	11,020	102,114

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	17.1%	$9,813	$ 109,212	18.1%	$10,387	$ 113,092	19.8%	$11,363	$ 123,432
2020	59,252	17.1	10,132	110,708	18.1	10,725	114,641	19.8	11,732	125,123
2021	61,178	17.1	10,461	112,104	18.1	11,073	116,087	19.8	12,113	126,701
2022	63,166	17.1	10,801	113,386	18.1	11,433	117,414	19.8	12,507	128,150
2023	65,219	17.1	11,152	114,538	18.1	11,805	118,607	19.8	12,913	129,452
2024	67,339	17.1	11,515	115,544	18.1	12,188	119,649	19.8	13,333	130,589
2025	69,528	17.1	11,889	116,386	18.1	12,585	120,521	19.8	13,767	131,540
2026	71,788	17.1	12,276	117,044	18.1	12,994	121,202	19.8	14,214	132,283
2027	74,121	17.1	12,675	117,497	18.1	13,416	121,671	19.8	14,676	132,795
2028	76,530	17.1	13,087	117,721	18.1	13,852	121,903	19.8	15,153	133,049

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	21.7%	$12,453	$ 132,433	22.5%	$12,912	$ 137,602	25.3%	$14,519	$ 151,785
2020	59,252	21.7	12,858	134,247	22.5	13,332	139,487	25.3	14,991	153,864
2021	61,178	21.7	13,276	135,940	22.5	13,765	141,246	25.3	15,478	155,804
2022	63,166	21.7	13,707	137,494	22.5	14,212	142,861	25.3	15,981	157,585
2023	65,219	21.7	14,153	138,891	22.5	14,674	144,313	25.3	16,500	159,186
2024	67,339	21.7	14,613	140,111	22.5	15,151	145,580	25.3	17,037	160,584
2025	69,528	21.7	15,088	141,132	22.5	15,644	146,640	25.3	17,591	161,754
2026	71,788	21.7	15,578	141,930	22.5	16,152	147,469	25.3	18,162	162,668
2027	74,121	21.7	16,084	142,479	22.5	16,677	148,039	25.3	18,753	163,297
2028	76,530	21.7	16,607	142,751	22.5	17,219	148,322	25.3	19,362	163,609

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.

Mid County Fire Protection District - General

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

Rule of 80 Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	11.6%	$6,657	$ 76,872	15.3%	$8,780	$ 97,165	15.0%	$8,608	$ 98,292
2020	59,252	11.6	6,873	77,925	15.3	9,066	98,496	15.0	8,888	99,639
2021	61,178	11.6	7,097	78,908	15.3	9,360	99,738	15.0	9,177	100,895
2022	63,166	11.6	7,327	79,810	15.3	9,664	100,878	15.0	9,475	102,049
2023	65,219	11.6	7,565	80,621	15.3	9,979	101,903	15.0	9,783	103,086
2024	67,339	11.6	7,811	81,329	15.3	10,303	102,798	15.0	10,101	103,991
2025	69,528	11.6	8,065	81,921	15.3	10,638	103,547	15.0	10,429	104,749
2026	71,788	11.6	8,327	82,384	15.3	10,984	104,132	15.0	10,768	105,341
2027	74,121	11.6	8,598	82,703	15.3	11,341	104,535	15.0	11,118	105,748
2028	76,530	11.6	8,877	82,861	15.3	11,709	104,735	15.0	11,480	105,950

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	17.8%	$10,215	$ 113,232	18.9%	$10,846	$ 117,206	20.6%	$11,822	$ 127,920
2020	59,252	17.8	10,547	114,783	18.9	11,199	118,812	20.6	12,206	129,672
2021	61,178	17.8	10,890	116,230	18.9	11,563	120,310	20.6	12,603	131,307
2022	63,166	17.8	11,244	117,559	18.9	11,938	121,685	20.6	13,012	132,808
2023	65,219	17.8	11,609	118,754	18.9	12,326	122,921	20.6	13,435	134,157
2024	67,339	17.8	11,986	119,797	18.9	12,727	124,001	20.6	13,872	135,335
2025	69,528	17.8	12,376	120,670	18.9	13,141	124,904	20.6	14,323	136,321
2026	71,788	17.8	12,778	121,352	18.9	13,568	125,610	20.6	14,788	137,091
2027	74,121	17.8	13,194	121,821	18.9	14,009	126,096	20.6	15,269	137,621
2028	76,530	17.8	13,622	122,054	18.9	14,464	126,337	20.6	15,765	137,884

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded	Estimated Employer Contribution		Unfunded
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability	As a % of Payroll	Annual Dollars	Actuarial Accrued Liability
2019	$ 57,387	22.6%	$12,969	$ 137,241	23.4%	$13,429	$ 142,593	26.3%	$15,093	$ 157,285
2020	59,252	22.6	13,391	139,121	23.4	13,865	144,547	26.3	15,583	159,440
2021	61,178	22.6	13,826	140,875	23.4	14,316	146,370	26.3	16,090	161,450
2022	63,166	22.6	14,276	142,486	23.4	14,781	148,043	26.3	16,613	163,296
2023	65,219	22.6	14,739	143,934	23.4	15,261	149,547	26.3	17,153	164,955
2024	67,339	22.6	15,219	145,198	23.4	15,757	150,860	26.3	17,710	166,404
2025	69,528	22.6	15,713	146,256	23.4	16,270	151,959	26.3	18,286	167,616
2026	71,788	22.6	16,224	147,083	23.4	16,798	152,818	26.3	18,880	168,563
2027	74,121	22.6	16,751	147,652	23.4	17,344	153,409	26.3	19,494	169,215
2028	76,530	22.6	17,296	147,934	23.4	17,908	153,702	26.3	20,127	169,538

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.

Mid County Fire Protection District - General

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

Rule of 80 Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	15.0%	$8,608	$ 80,825	18.6%	$10,674	$ 101,041	18.3%	$10,502	$ 101,446
2020	59,252	15.0	8,888	81,932	18.6	11,021	102,425	18.3	10,843	102,836
2021	61,178	15.0	9,177	82,965	18.6	11,379	103,717	18.3	11,196	104,133
2022	63,166	15.0	9,475	83,914	18.6	11,749	104,903	18.3	11,559	105,324
2023	65,219	15.0	9,783	84,767	18.6	12,131	105,969	18.3	11,935	106,394
2024	67,339	15.0	10,101	85,511	18.6	12,525	106,900	18.3	12,323	107,328
2025	69,528	15.0	10,429	86,134	18.6	12,932	107,679	18.3	12,724	108,110
2026	71,788	15.0	10,768	86,621	18.6	13,353	108,288	18.3	13,137	108,721
2027	74,121	15.0	11,118	86,956	18.6	13,787	108,707	18.3	13,564	109,141
2028	76,530	15.0	11,480	87,122	18.6	14,235	108,915	18.3	14,005	109,349

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	21.0%	$12,051	$ 116,501	22.0%	$12,625	$ 121,244	23.7%	$13,601	$ 131,555
2020	59,252	21.0	12,443	118,097	22.0	13,035	122,905	23.7	14,043	133,357
2021	61,178	21.0	12,847	119,586	22.0	13,459	124,455	23.7	14,499	135,039
2022	63,166	21.0	13,265	120,953	22.0	13,897	125,878	23.7	14,970	136,583
2023	65,219	21.0	13,696	122,182	22.0	14,348	127,157	23.7	15,457	137,971
2024	67,339	21.0	14,141	123,255	22.0	14,815	128,274	23.7	15,959	139,183
2025	69,528	21.0	14,601	124,153	22.0	15,296	129,208	23.7	16,478	140,197
2026	71,788	21.0	15,075	124,855	22.0	15,793	129,938	23.7	17,014	140,989
2027	74,121	21.0	15,565	125,338	22.0	16,307	130,440	23.7	17,567	141,534
2028	76,530	21.0	16,071	125,577	22.0	16,837	130,689	23.7	18,138	141,804

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 57,387	25.6%	$14,691	$ 141,433	26.4%	$15,150	$ 146,593	29.2%	$16,757	$ 161,647
2020	59,252	25.6	15,169	143,371	26.4	15,643	148,601	29.2	17,302	163,862
2021	61,178	25.6	15,662	145,179	26.4	16,151	150,475	29.2	17,864	165,928
2022	63,166	25.6	16,170	146,839	26.4	16,676	152,195	29.2	18,444	167,825
2023	65,219	25.6	16,696	148,331	26.4	17,218	153,741	29.2	19,044	169,530
2024	67,339	25.6	17,239	149,634	26.4	17,777	155,091	29.2	19,663	171,019
2025	69,528	25.6	17,799	150,724	26.4	18,355	156,221	29.2	20,302	172,265
2026	71,788	25.6	18,378	151,576	26.4	18,952	157,104	29.2	20,962	173,239
2027	74,121	25.6	18,975	152,162	26.4	19,568	157,712	29.2	21,643	173,909
2028	76,530	25.6	19,592	152,453	26.4	20,204	158,013	29.2	22,347	174,241

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.

Mid County Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-1: Annual Dollars	L-1: Unfunded Actuarial Accrued Liability	L-3 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-3: Annual Dollars	L-3: Unfunded Actuarial Accrued Liability	LT-4(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-4(65): Annual Dollars	LT-4(65): Unfunded Actuarial Accrued Liability
2019	$ 57,387	15.5%	$8,895	$ 83,710	19.2%	$11,018	$ 104,636	18.9%	$10,846	$ 105,079
2020	59,252	15.5	9,184	84,857	19.2	11,376	106,069	18.9	11,199	106,519
2021	61,178	15.5	9,483	85,927	19.2	11,746	107,406	18.9	11,563	107,862
2022	63,166	15.5	9,791	86,909	19.2	12,128	108,634	18.9	11,938	109,095
2023	65,219	15.5	10,109	87,792	19.2	12,522	109,738	18.9	12,326	110,204
2024	67,339	15.5	10,438	88,563	19.2	12,929	110,702	18.9	12,727	111,172
2025	69,528	15.5	10,777	89,208	19.2	13,349	111,508	18.9	13,141	111,982
2026	71,788	15.5	11,127	89,712	19.2	13,783	112,138	18.9	13,568	112,615
2027	74,121	15.5	11,489	90,059	19.2	14,231	112,572	18.9	14,009	113,050
2028	76,530	15.5	11,862	90,231	19.2	14,694	112,787	18.9	14,464	113,266

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-5(65): Annual Dollars	LT-5(65): Unfunded Actuarial Accrued Liability	L-7 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-7: Annual Dollars	L-7: Unfunded Actuarial Accrued Liability	LT-8(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-8(65): Annual Dollars	LT-8(65): Unfunded Actuarial Accrued Liability
2019	$ 57,387	21.7%	$12,453	$ 120,663	22.8%	$13,084	$ 125,569	24.5%	$14,060	$ 136,254
2020	59,252	21.7	12,858	122,316	22.8	13,509	127,289	24.5	14,517	138,121
2021	61,178	21.7	13,276	123,858	22.8	13,949	128,894	24.5	14,989	139,863
2022	63,166	21.7	13,707	125,274	22.8	14,402	130,368	24.5	15,476	141,462
2023	65,219	21.7	14,153	126,547	22.8	14,870	131,693	24.5	15,979	142,899
2024	67,339	21.7	14,613	127,658	22.8	15,353	132,850	24.5	16,498	144,154
2025	69,528	21.7	15,088	128,588	22.8	15,852	133,818	24.5	17,034	145,204
2026	71,788	21.7	15,578	129,315	22.8	16,368	134,574	24.5	17,588	146,025
2027	74,121	21.7	16,084	129,815	22.8	16,900	135,094	24.5	18,160	146,590
2028	76,530	21.7	16,607	130,063	22.8	17,449	135,352	24.5	18,750	146,870

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-12: Annual Dollars	L-12: Unfunded Actuarial Accrued Liability	LT-14(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-14(65): Annual Dollars	LT-14(65): Unfunded Actuarial Accrued Liability	L-6 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-6: Annual Dollars	L-6: Unfunded Actuarial Accrued Liability
2019	$ 57,387	26.5%	$15,208	$ 146,501	27.3%	$15,667	$ 151,843	30.2%	$17,331	$ 167,437
2020	59,252	26.5	15,702	148,508	27.3	16,176	153,923	30.2	17,894	169,731
2021	61,178	26.5	16,212	150,381	27.3	16,702	155,864	30.2	18,476	171,871
2022	63,166	26.5	16,739	152,100	27.3	17,244	157,646	30.2	19,076	173,836
2023	65,219	26.5	17,283	153,645	27.3	17,805	159,248	30.2	19,696	175,602
2024	67,339	26.5	17,845	154,994	27.3	18,384	160,647	30.2	20,336	177,144
2025	69,528	26.5	18,425	156,123	27.3	18,981	161,817	30.2	20,997	178,434
2026	71,788	26.5	19,024	157,005	27.3	19,598	162,732	30.2	21,680	179,442
2027	74,121	26.5	19,642	157,612	27.3	20,235	163,361	30.2	22,385	180,136
2028	76,530	26.5	20,280	157,913	27.3	20,893	163,673	30.2	23,112	180,480

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.

Mid County Fire Protection District - Fire

Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% member contributions are additional)

Regular Retirement Eligibility

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	15.9%	$299,867	$ 3,651,474	20.5%	$386,621	$ 4,576,064	20.5%	$386,621	$ 4,566,235
2020	1,947,252	15.9	309,613	3,701,499	20.5	399,187	4,638,755	20.5	399,187	4,628,792
2021	2,010,538	15.9	319,676	3,748,173	20.5	412,160	4,697,247	20.5	412,160	4,687,158
2022	2,075,880	15.9	330,065	3,791,026	20.5	425,555	4,750,950	20.5	425,555	4,740,746
2023	2,143,346	15.9	340,792	3,829,546	20.5	439,386	4,799,224	20.5	439,386	4,788,916
2024	2,213,005	15.9	351,868	3,863,178	20.5	453,666	4,841,372	20.5	453,666	4,830,974
2025	2,284,928	15.9	363,304	3,891,319	20.5	468,410	4,876,638	20.5	468,410	4,866,164
2026	2,359,188	15.9	375,111	3,913,311	20.5	483,634	4,904,199	20.5	483,634	4,893,666
2027	2,435,862	15.9	387,302	3,928,444	20.5	499,352	4,923,164	20.5	499,352	4,912,590
2028	2,515,028	15.9	399,889	3,935,945	20.5	515,581	4,932,565	20.5	515,581	4,921,970

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	24.1%	$454,516	$ 5,262,171	25.2%	$475,261	$ 5,499,798	27.5%	$518,638	$ 5,957,164
2020	1,947,252	24.1	469,288	5,334,262	25.2	490,708	5,575,144	27.5	535,494	6,038,776
2021	2,010,538	24.1	484,540	5,401,524	25.2	506,656	5,645,443	27.5	552,898	6,114,921
2022	2,075,880	24.1	500,287	5,463,279	25.2	523,122	5,709,987	27.5	570,867	6,184,832
2023	2,143,346	24.1	516,546	5,518,791	25.2	540,123	5,768,006	27.5	589,420	6,247,676
2024	2,213,005	24.1	533,334	5,567,259	25.2	557,677	5,818,663	27.5	608,576	6,302,545
2025	2,284,928	24.1	550,668	5,607,813	25.2	575,802	5,861,048	27.5	628,355	6,348,455
2026	2,359,188	24.1	568,564	5,639,507	25.2	594,515	5,894,173	27.5	648,777	6,384,334
2027	2,435,862	24.1	587,043	5,661,315	25.2	613,837	5,916,966	27.5	669,862	6,409,022
2028	2,515,028	24.1	606,122	5,672,125	25.2	633,787	5,928,264	27.5	691,633	6,421,260

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	29.8%	$562,015	$ 6,422,960	31.0%	$584,647	$ 6,651,654	34.5%	$650,656	$ 7,345,930
2020	1,947,252	29.8	580,281	6,510,954	31.0	603,648	6,742,781	34.5	671,802	7,446,568
2021	2,010,538	29.8	599,140	6,593,053	31.0	623,267	6,827,803	34.5	693,636	7,540,465
2022	2,075,880	29.8	618,612	6,668,431	31.0	643,523	6,905,865	34.5	716,179	7,626,675
2023	2,143,346	29.8	638,717	6,736,188	31.0	664,437	6,976,035	34.5	739,454	7,704,169
2024	2,213,005	29.8	659,475	6,795,348	31.0	686,032	7,037,301	34.5	763,487	7,771,830
2025	2,284,928	29.8	680,909	6,844,848	31.0	708,328	7,088,563	34.5	788,300	7,828,443
2026	2,359,188	29.8	703,038	6,883,533	31.0	731,348	7,128,625	34.5	813,920	7,872,687
2027	2,435,862	29.8	725,887	6,910,152	31.0	755,117	7,156,192	34.5	840,372	7,903,131
2028	2,515,028	29.8	749,478	6,923,347	31.0	779,659	7,169,857	34.5	867,685	7,918,222

Notes regarding the above projections:

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

Mid County Fire Protection District - Fire

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

Regular Retirement Eligibility

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	16.5%	$311,183	$ 3,776,487	21.3%	$401,709	$ 4,732,105	21.4%	$403,595	$ 4,723,540
2020	1,947,252	16.5	321,297	3,828,224	21.3	414,765	4,796,934	21.4	416,712	4,788,252
2021	2,010,538	16.5	331,739	3,876,495	21.3	428,245	4,857,420	21.4	430,255	4,848,629
2022	2,075,880	16.5	342,520	3,920,815	21.3	442,162	4,912,955	21.4	444,238	4,904,063
2023	2,143,346	16.5	353,652	3,960,654	21.3	456,533	4,962,875	21.4	458,676	4,953,893
2024	2,213,005	16.5	365,146	3,995,438	21.3	471,370	5,006,461	21.4	473,583	4,997,400
2025	2,284,928	16.5	377,013	4,024,542	21.3	486,690	5,042,930	21.4	488,975	5,033,803
2026	2,359,188	16.5	389,266	4,047,287	21.3	502,507	5,071,431	21.4	504,866	5,062,252
2027	2,435,862	16.5	401,917	4,062,938	21.3	518,839	5,091,042	21.4	521,274	5,081,828
2028	2,515,028	16.5	414,980	4,070,696	21.3	535,701	5,100,763	21.4	538,216	5,091,532

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	24.9%	$469,604	$ 5,442,389	26.1%	$492,235	$ 5,686,833	28.5%	$537,498	$ 6,160,330
2020	1,947,252	24.9	484,866	5,516,949	26.1	508,233	5,764,742	28.5	554,967	6,244,726
2021	2,010,538	24.9	500,624	5,586,514	26.1	524,750	5,837,432	28.5	573,003	6,323,468
2022	2,075,880	24.9	516,894	5,650,384	26.1	541,805	5,904,171	28.5	591,626	6,395,764
2023	2,143,346	24.9	533,693	5,707,797	26.1	559,413	5,964,163	28.5	610,854	6,460,751
2024	2,213,005	24.9	551,038	5,757,925	26.1	577,594	6,016,542	28.5	630,706	6,517,492
2025	2,284,928	24.9	568,947	5,799,868	26.1	596,366	6,060,369	28.5	651,204	6,564,968
2026	2,359,188	24.9	587,438	5,832,647	26.1	615,748	6,094,620	28.5	672,369	6,602,071
2027	2,435,862	24.9	606,530	5,855,202	26.1	635,760	6,118,188	28.5	694,221	6,627,601
2028	2,515,028	24.9	626,242	5,866,382	26.1	656,422	6,129,871	28.5	716,783	6,640,256

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	30.9%	$582,761	$ 6,640,969	32.1%	$605,393	$ 6,877,738	35.7%	$673,287	$ 7,595,021
2020	1,947,252	30.9	601,701	6,731,949	32.1	625,068	6,971,962	35.7	695,169	7,699,072
2021	2,010,538	30.9	621,256	6,816,835	32.1	645,383	7,059,874	35.7	717,762	7,796,152
2022	2,075,880	30.9	641,447	6,894,771	32.1	666,357	7,140,589	35.7	741,089	7,885,285
2023	2,143,346	30.9	662,294	6,964,828	32.1	688,014	7,213,144	35.7	765,175	7,965,407
2024	2,213,005	30.9	683,819	7,025,996	32.1	710,375	7,276,492	35.7	790,043	8,035,362
2025	2,284,928	30.9	706,043	7,077,176	32.1	733,462	7,329,496	35.7	815,719	8,093,894
2026	2,359,188	30.9	728,989	7,117,174	32.1	757,299	7,370,920	35.7	842,230	8,139,638
2027	2,435,862	30.9	752,681	7,144,696	32.1	781,912	7,399,424	35.7	869,603	8,171,114
2028	2,515,028	30.9	777,144	7,158,339	32.1	807,324	7,413,553	35.7	897,865	8,186,717

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.

Mid County Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-1: Annual Dollars	L-1: Unfunded Actuarial Accrued Liability	L-3 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-3: Annual Dollars	L-3: Unfunded Actuarial Accrued Liability	LT-4(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-4(65): Annual Dollars	LT-4(65): Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	19.7%	$371,534	$ 3,670,686	24.4%	$460,174	$ 4,588,365	24.4%	$460,174	$ 4,580,656
2020	1,947,252	19.7	383,609	3,720,974	24.4	475,129	4,651,225	24.4	475,129	4,643,410
2021	2,010,538	19.7	396,076	3,767,893	24.4	490,571	4,709,874	24.4	490,571	4,701,960
2022	2,075,880	19.7	408,948	3,810,971	24.4	506,515	4,763,722	24.4	506,515	4,755,717
2023	2,143,346	19.7	422,239	3,849,694	24.4	522,976	4,812,126	24.4	522,976	4,804,039
2024	2,213,005	19.7	435,962	3,883,503	24.4	539,973	4,854,388	24.4	539,973	4,846,230
2025	2,284,928	19.7	450,131	3,911,792	24.4	557,522	4,889,749	24.4	557,522	4,881,532
2026	2,359,188	19.7	464,760	3,933,900	24.4	575,642	4,917,384	24.4	575,642	4,909,121
2027	2,435,862	19.7	479,865	3,949,113	24.4	594,350	4,936,400	24.4	594,350	4,928,105
2028	2,515,028	19.7	495,461	3,956,654	24.4	613,667	4,945,826	24.4	613,667	4,937,515

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-5(65): Annual Dollars	LT-5(65): Unfunded Actuarial Accrued Liability	L-7 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-7: Annual Dollars	L-7: Unfunded Actuarial Accrued Liability	LT-8(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-8(65): Annual Dollars	LT-8(65): Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	28.0%	$528,068	$ 5,270,780	29.1%	$548,814	$ 5,505,993	31.4%	$592,191	$ 5,961,002
2020	1,947,252	28.0	545,231	5,342,989	29.1	566,650	5,581,424	31.4	611,437	6,042,667
2021	2,010,538	28.0	562,951	5,410,361	29.1	585,067	5,651,802	31.4	631,309	6,118,861
2022	2,075,880	28.0	581,246	5,472,217	29.1	604,081	5,716,419	31.4	651,826	6,188,818
2023	2,143,346	28.0	600,137	5,527,820	29.1	623,714	5,774,503	31.4	673,011	6,251,702
2024	2,213,005	28.0	619,641	5,576,367	29.1	643,984	5,825,217	31.4	694,884	6,306,607
2025	2,284,928	28.0	639,780	5,616,987	29.1	664,914	5,867,650	31.4	717,467	6,352,546
2026	2,359,188	28.0	660,573	5,648,732	29.1	686,524	5,900,812	31.4	740,785	6,388,449
2027	2,435,862	28.0	682,041	5,670,576	29.1	708,836	5,923,631	31.4	764,861	6,413,153
2028	2,515,028	28.0	704,208	5,681,404	29.1	731,873	5,934,942	31.4	789,719	6,425,399

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-12: Annual Dollars	L-12: Unfunded Actuarial Accrued Liability	LT-14(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-14(65): Annual Dollars	LT-14(65): Unfunded Actuarial Accrued Liability	L-6 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-6: Annual Dollars	L-6: Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	33.7%	$635,568	$ 6,423,686	34.9%	$658,199	$ 6,651,189	38.4%	$724,208	$ 7,341,418
2020	1,947,252	33.7	656,224	6,511,690	34.9	679,591	6,742,309	38.4	747,745	7,441,994
2021	2,010,538	33.7	677,551	6,593,798	34.9	701,678	6,827,325	38.4	772,047	7,535,833
2022	2,075,880	33.7	699,572	6,669,184	34.9	724,482	6,905,381	38.4	797,138	7,621,990
2023	2,143,346	33.7	722,308	6,736,949	34.9	748,028	6,975,546	38.4	823,045	7,699,436
2024	2,213,005	33.7	745,783	6,796,115	34.9	772,339	7,036,808	38.4	849,794	7,767,055
2025	2,284,928	33.7	770,021	6,845,620	34.9	797,440	7,088,067	38.4	877,412	7,823,633
2026	2,359,188	33.7	795,046	6,884,309	34.9	823,357	7,128,126	38.4	905,928	7,867,850
2027	2,435,862	33.7	820,885	6,910,931	34.9	850,116	7,155,691	38.4	935,371	7,898,275
2028	2,515,028	33.7	847,564	6,924,127	34.9	877,745	7,169,355	38.4	965,771	7,913,357

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.

Mid County Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-1: Annual Dollars	L-1: Unfunded Actuarial Accrued Liability	L-3 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-3: Annual Dollars	L-3: Unfunded Actuarial Accrued Liability	LT-4(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-4(65): Annual Dollars	LT-4(65): Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	20.3%	$382,849	$ 3,794,376	25.2%	$475,261	$ 4,742,926	25.3%	$477,147	$ 4,736,464
2020	1,947,252	20.3	395,292	3,846,358	25.2	490,708	4,807,903	25.3	492,655	4,801,353
2021	2,010,538	20.3	408,139	3,894,858	25.2	506,656	4,868,528	25.3	508,666	4,861,895
2022	2,075,880	20.3	421,404	3,939,388	25.2	523,122	4,924,190	25.3	525,198	4,917,481
2023	2,143,346	20.3	435,099	3,979,416	25.2	540,123	4,974,224	25.3	542,267	4,967,447
2024	2,213,005	20.3	449,240	4,014,365	25.2	557,677	5,017,909	25.3	559,890	5,011,073
2025	2,284,928	20.3	463,840	4,043,607	25.2	575,802	5,054,461	25.3	578,087	5,047,575
2026	2,359,188	20.3	478,915	4,066,460	25.2	594,515	5,083,027	25.3	596,875	5,076,102
2027	2,435,862	20.3	494,480	4,082,185	25.2	613,837	5,102,683	25.3	616,273	5,095,732
2028	2,515,028	20.3	510,551	4,089,980	25.2	633,787	5,112,426	25.3	636,302	5,105,462

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-5(65): Annual Dollars	LT-5(65): Unfunded Actuarial Accrued Liability	L-7 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-7: Annual Dollars	L-7: Unfunded Actuarial Accrued Liability	LT-8(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-8(65): Annual Dollars	LT-8(65): Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	28.8%	$543,156	$ 5,449,460	30.0%	$565,787	$ 5,691,534	32.4%	$611,050	$ 6,162,597
2020	1,947,252	28.8	560,809	5,524,117	30.0	584,176	5,769,507	32.4	630,910	6,247,024
2021	2,010,538	28.8	579,035	5,593,773	30.0	603,161	5,842,257	32.4	651,414	6,325,795
2022	2,075,880	28.8	597,853	5,657,726	30.0	622,764	5,909,051	32.4	672,585	6,398,117
2023	2,143,346	28.8	617,284	5,715,214	30.0	643,004	5,969,092	32.4	694,444	6,463,128
2024	2,213,005	28.8	637,345	5,765,407	30.0	663,902	6,021,515	32.4	717,014	6,519,889
2025	2,284,928	28.8	658,059	5,807,404	30.0	685,478	6,065,378	32.4	740,317	6,567,382
2026	2,359,188	28.8	679,446	5,840,226	30.0	707,756	6,099,658	32.4	764,377	6,604,499
2027	2,435,862	28.8	701,528	5,862,810	30.0	730,759	6,123,246	32.4	789,219	6,630,039
2028	2,515,028	28.8	724,328	5,874,005	30.0	754,508	6,134,938	32.4	814,869	6,642,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-12: Annual Dollars	L-12: Unfunded Actuarial Accrued Liability	LT-14(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-14(65): Annual Dollars	LT-14(65): Unfunded Actuarial Accrued Liability	L-6 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-6: Annual Dollars	L-6: Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	34.8%	$656,313	$ 6,640,117	36.0%	$678,945	$ 6,875,665	39.6%	$746,839	$ 7,588,730
2020	1,947,252	34.8	677,644	6,731,086	36.0	701,011	6,969,861	39.6	771,112	7,692,694
2021	2,010,538	34.8	699,667	6,815,961	36.0	723,794	7,057,747	39.6	796,173	7,789,694
2022	2,075,880	34.8	722,406	6,893,887	36.0	747,317	7,138,438	39.6	822,048	7,878,753
2023	2,143,346	34.8	745,884	6,963,935	36.0	771,605	7,210,971	39.6	848,765	7,958,808
2024	2,213,005	34.8	770,126	7,025,095	36.0	796,682	7,274,300	39.6	876,350	8,028,705
2025	2,284,928	34.8	795,155	7,076,268	36.0	822,574	7,327,288	39.6	904,831	8,087,189
2026	2,359,188	34.8	820,997	7,116,261	36.0	849,308	7,368,699	39.6	934,238	8,132,895
2027	2,435,862	34.8	847,680	7,143,780	36.0	876,910	7,397,194	39.6	964,601	8,164,345
2028	2,515,028	34.8	875,230	7,157,421	36.0	905,410	7,411,319	39.6	995,951	8,179,935

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.

Mid County Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 1,885,958	17.0%	$320,613	$ 3,904,292	21.9%	$413,025	$ 4,890,514	23.2%	$437,542	$ 5,179,292
2020	1,947,252	17.0	331,033	3,957,780	21.9	426,448	4,957,513	23.2	451,762	5,250,248
2021	2,010,538	17.0	341,791	4,007,685	21.9	440,308	5,020,024	23.2	466,445	5,316,450
2022	2,075,880	17.0	352,900	4,053,505	21.9	454,618	5,077,418	23.2	481,604	5,377,233
2023	2,143,346	17.0	364,369	4,094,692	21.9	469,393	5,129,009	23.2	497,256	5,431,871
2024	2,213,005	17.0	376,211	4,130,653	21.9	484,648	5,174,054	23.2	513,417	5,479,576
2025	2,284,928	17.0	388,438	4,160,742	21.9	500,399	5,211,744	23.2	530,103	5,519,491
2026	2,359,188	17.0	401,062	4,184,257	21.9	516,662	5,241,199	23.2	547,332	5,550,685
2027	2,435,862	17.0	414,097	4,200,438	21.9	533,454	5,261,467	23.2	565,120	5,572,150
2028	2,515,028	17.0	427,555	4,208,459	21.9	550,791	5,271,514	23.2	583,486	5,582,790

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 1,885,958	26.5%	$499,779	$ 5,846,774	26.7%	$503,551	$ 5,876,010	29.8%	$562,015	$ 6,513,488
2020	1,947,252	26.5	516,022	5,926,874	26.7	519,916	5,956,510	29.8	580,281	6,602,722
2021	2,010,538	26.5	532,793	6,001,608	26.7	536,814	6,031,618	29.8	599,140	6,685,978
2022	2,075,880	26.5	550,108	6,070,224	26.7	554,260	6,100,577	29.8	618,612	6,762,418
2023	2,143,346	26.5	567,987	6,131,903	26.7	572,273	6,162,564	29.8	638,717	6,831,130
2024	2,213,005	26.5	586,446	6,185,756	26.7	590,872	6,216,686	29.8	659,475	6,891,123
2025	2,284,928	26.5	605,506	6,230,815	26.7	610,076	6,261,970	29.8	680,909	6,941,320
2026	2,359,188	26.5	625,185	6,266,030	26.7	629,903	6,297,361	29.8	703,038	6,980,550
2027	2,435,862	26.5	645,503	6,290,261	26.7	650,375	6,321,713	29.8	725,887	7,007,544
2028	2,515,028	26.5	666,482	6,302,272	26.7	671,512	6,333,784	29.8	749,478	7,020,925

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 1,885,958	31.7%	$597,849	$ 6,861,032	33.2%	$626,138	$ 7,179,780	36.6%	$690,261	$ 7,845,884
2020	1,947,252	31.7	617,279	6,955,027	33.2	646,488	7,278,142	36.6	712,694	7,953,371
2021	2,010,538	31.7	637,341	7,042,725	33.2	667,499	7,369,915	36.6	735,857	8,053,658
2022	2,075,880	31.7	658,054	7,123,244	33.2	689,192	7,454,175	36.6	759,772	8,145,735
2023	2,143,346	31.7	679,441	7,195,623	33.2	711,591	7,529,916	36.6	784,465	8,228,503
2024	2,213,005	31.7	701,523	7,258,817	33.2	734,718	7,596,046	36.6	809,960	8,300,769
2025	2,284,928	31.7	724,322	7,311,693	33.2	758,596	7,651,378	36.6	836,284	8,361,235
2026	2,359,188	31.7	747,863	7,353,016	33.2	783,250	7,694,621	36.6	863,463	8,408,490
2027	2,435,862	31.7	772,168	7,381,450	33.2	808,706	7,724,376	36.6	891,525	8,441,006
2028	2,515,028	31.7	797,264	7,395,545	33.2	834,989	7,739,126	36.6	920,500	8,457,124

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.

Mid County Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-1: Annual Dollars	L-1: Unfunded Actuarial Accrued Liability	L-3 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-3: Annual Dollars	L-3: Unfunded Actuarial Accrued Liability	LT-4(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-4(65): Annual Dollars	LT-4(65): Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	17.6%	$331,929	$ 4,040,903	22.7%	$428,112	$ 5,061,001	24.0%	$452,630	$ 5,361,715
2020	1,947,252	17.6	342,716	4,096,263	22.7	442,026	5,130,336	24.0	467,340	5,435,170
2021	2,010,538	17.6	353,855	4,147,914	22.7	456,392	5,195,026	24.0	482,529	5,503,704
2022	2,075,880	17.6	365,355	4,195,337	22.7	471,225	5,254,420	24.0	498,211	5,566,627
2023	2,143,346	17.6	377,229	4,237,965	22.7	486,540	5,307,810	24.0	514,403	5,623,189
2024	2,213,005	17.6	389,489	4,275,184	22.7	502,352	5,354,425	24.0	531,121	5,672,574
2025	2,284,928	17.6	402,147	4,306,326	22.7	518,679	5,393,428	24.0	548,383	5,713,895
2026	2,359,188	17.6	415,217	4,330,664	22.7	535,536	5,423,910	24.0	566,205	5,746,188
2027	2,435,862	17.6	428,712	4,347,411	22.7	552,941	5,444,884	24.0	584,607	5,768,409
2028	2,515,028	17.6	442,645	4,355,712	22.7	570,911	5,455,281	24.0	603,607	5,779,424

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-5(65): Annual Dollars	LT-5(65): Unfunded Actuarial Accrued Liability	L-7 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-7: Annual Dollars	L-7: Unfunded Actuarial Accrued Liability	LT-8(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-8(65): Annual Dollars	LT-8(65): Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	27.5%	$518,638	$ 6,051,598	27.8%	$524,296	$ 6,080,393	31.0%	$584,647	$ 6,740,784
2020	1,947,252	27.5	535,494	6,134,504	27.8	541,336	6,163,693	31.0	603,648	6,833,132
2021	2,010,538	27.5	552,898	6,211,856	27.8	558,930	6,241,413	31.0	623,267	6,919,293
2022	2,075,880	27.5	570,867	6,282,876	27.8	577,095	6,312,771	31.0	643,523	6,998,401
2023	2,143,346	27.5	589,420	6,346,716	27.8	595,850	6,376,915	31.0	664,437	7,069,511
2024	2,213,005	27.5	608,576	6,402,455	27.8	615,215	6,432,919	31.0	686,032	7,131,598
2025	2,284,928	27.5	628,355	6,449,093	27.8	635,210	6,479,779	31.0	708,328	7,183,547
2026	2,359,188	27.5	648,777	6,485,541	27.8	655,854	6,516,401	31.0	731,348	7,224,146
2027	2,435,862	27.5	669,862	6,510,621	27.8	677,170	6,541,600	31.0	755,117	7,252,082
2028	2,515,028	27.5	691,633	6,523,053	27.8	699,178	6,554,091	31.0	779,659	7,265,930

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-12: Annual Dollars	L-12: Unfunded Actuarial Accrued Liability	LT-14(65) Benefit Program: Estimated Employer Contribution As a % of Payroll	LT-14(65): Annual Dollars	LT-14(65): Unfunded Actuarial Accrued Liability	L-6 Benefit Program: Estimated Employer Contribution As a % of Payroll	L-6: Annual Dollars	L-6: Unfunded Actuarial Accrued Liability
2019	$ 1,885,958	32.9%	$620,480	$ 7,099,392	34.5%	$650,656	$ 7,429,613	37.9%	$714,778	$ 8,118,265
2020	1,947,252	32.9	640,646	7,196,653	34.5	671,802	7,531,398	37.9	738,009	8,229,484
2021	2,010,538	32.9	661,467	7,287,398	34.5	693,636	7,626,364	37.9	761,994	8,333,253
2022	2,075,880	32.9	682,965	7,370,714	34.5	716,179	7,713,556	37.9	786,759	8,428,527
2023	2,143,346	32.9	705,161	7,445,607	34.5	739,454	7,791,933	37.9	812,328	8,514,169
2024	2,213,005	32.9	728,079	7,510,997	34.5	763,487	7,860,364	37.9	838,729	8,588,943
2025	2,284,928	32.9	751,741	7,565,710	34.5	788,300	7,917,622	37.9	865,988	8,651,508
2026	2,359,188	32.9	776,173	7,608,469	34.5	813,920	7,962,370	37.9	894,132	8,700,404
2027	2,435,862	32.9	801,399	7,637,891	34.5	840,372	7,993,161	37.9	923,192	8,734,049
2028	2,515,028	32.9	827,444	7,652,475	34.5	867,685	8,008,424	37.9	953,196	8,750,726

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.

Mid County Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 1,885,958	20.8%	$392,279	$ 3,922,743	25.8%	$486,577	$ 4,903,441	27.0%	$509,209	$ 5,192,078
2020	1,947,252	20.8	405,028	3,976,484	25.8	502,391	4,970,617	27.0	525,758	5,263,209
2021	2,010,538	20.8	418,192	4,026,625	25.8	518,719	5,033,293	27.0	542,845	5,329,575
2022	2,075,880	20.8	431,783	4,072,661	25.8	535,577	5,090,838	27.0	560,488	5,390,508
2023	2,143,346	20.8	445,816	4,114,043	25.8	552,983	5,142,566	27.0	578,703	5,445,280
2024	2,213,005	20.8	460,305	4,150,174	25.8	570,955	5,187,730	27.0	597,511	5,493,102
2025	2,284,928	20.8	475,265	4,180,405	25.8	589,511	5,225,519	27.0	616,931	5,533,116
2026	2,359,188	20.8	490,711	4,204,031	25.8	608,671	5,255,052	27.0	636,981	5,564,387
2027	2,435,862	20.8	506,659	4,220,288	25.8	628,452	5,275,374	27.0	657,683	5,585,905
2028	2,515,028	20.8	523,126	4,228,347	25.8	648,877	5,285,447	27.0	679,058	5,596,571

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 1,885,958	30.4%	$573,331	$ 5,855,418	30.6%	$577,103	$ 5,872,487	33.7%	$635,568	$ 6,518,783
2020	1,947,252	30.4	591,965	5,935,636	30.6	595,859	5,952,939	33.7	656,224	6,608,089
2021	2,010,538	30.4	611,204	6,010,481	30.6	615,225	6,028,002	33.7	677,551	6,691,413
2022	2,075,880	30.4	631,068	6,079,198	30.6	635,219	6,096,920	33.7	699,572	6,767,915
2023	2,143,346	30.4	651,577	6,140,968	30.6	655,864	6,158,870	33.7	722,308	6,836,683
2024	2,213,005	30.4	672,754	6,194,900	30.6	677,180	6,212,959	33.7	745,783	6,896,725
2025	2,284,928	30.4	694,618	6,240,026	30.6	699,188	6,258,216	33.7	770,021	6,946,963
2026	2,359,188	30.4	717,193	6,275,293	30.6	721,912	6,293,585	33.7	795,046	6,986,225
2027	2,435,862	30.4	740,502	6,299,560	30.6	745,374	6,317,923	33.7	820,885	7,013,241
2028	2,515,028	30.4	764,569	6,311,589	30.6	769,599	6,329,987	33.7	847,564	7,026,633

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2019	$ 1,885,958	35.6%	$671,401	$ 6,864,792	37.1%	$699,690	$ 7,182,130	40.5%	$763,813	$ 7,845,548
2020	1,947,252	35.6	693,222	6,958,839	37.1	722,430	7,280,524	40.5	788,637	7,953,031
2021	2,010,538	35.6	715,752	7,046,586	37.1	745,910	7,372,327	40.5	814,268	8,053,314
2022	2,075,880	35.6	739,013	7,127,149	37.1	770,151	7,456,614	40.5	840,731	8,145,387
2023	2,143,346	35.6	763,031	7,199,567	37.1	795,181	7,532,380	40.5	868,055	8,228,152
2024	2,213,005	35.6	787,830	7,262,796	37.1	821,025	7,598,532	40.5	896,267	8,300,415
2025	2,284,928	35.6	813,434	7,315,701	37.1	847,708	7,653,882	40.5	925,396	8,360,878
2026	2,359,188	35.6	839,871	7,357,047	37.1	875,259	7,697,139	40.5	955,471	8,408,131
2027	2,435,862	35.6	867,167	7,385,497	37.1	903,705	7,726,904	40.5	986,524	8,440,646
2028	2,515,028	35.6	895,350	7,399,599	37.1	933,075	7,741,658	40.5	1,018,586	8,456,763

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.

Mid County Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	21.5%	$405,481	$ 4,058,281	26.6%	$501,665	$ 5,072,796	27.9%	$526,182	$ 5,373,227
2020	1,947,252	21.5	418,659	4,113,879	26.6	517,969	5,142,293	27.9	543,283	5,446,839
2021	2,010,538	21.5	432,266	4,165,752	26.6	534,803	5,207,134	27.9	560,940	5,515,520
2022	2,075,880	21.5	446,314	4,213,379	26.6	552,184	5,266,667	27.9	579,171	5,578,579
2023	2,143,346	21.5	460,819	4,256,191	26.6	570,130	5,320,181	27.9	597,994	5,635,262
2024	2,213,005	21.5	475,796	4,293,570	26.6	588,659	5,366,905	27.9	617,428	5,684,753
2025	2,284,928	21.5	491,260	4,324,846	26.6	607,791	5,405,999	27.9	637,495	5,726,163
2026	2,359,188	21.5	507,225	4,349,289	26.6	627,544	5,436,552	27.9	658,213	5,758,525
2027	2,435,862	21.5	523,710	4,366,108	26.6	647,939	5,457,575	27.9	679,605	5,780,793
2028	2,515,028	21.5	540,731	4,374,445	26.6	668,997	5,467,996	27.9	701,693	5,791,831

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	31.4%	$592,191	$ 6,058,981	31.7%	$597,849	$ 6,087,404	34.9%	$658,199	$ 6,744,870
2020	1,947,252	31.4	611,437	6,141,988	31.7	617,279	6,170,801	34.9	679,591	6,837,274
2021	2,010,538	31.4	631,309	6,219,435	31.7	637,341	6,248,611	34.9	701,678	6,923,488
2022	2,075,880	31.4	651,826	6,290,541	31.7	658,054	6,320,051	34.9	724,482	7,002,644
2023	2,143,346	31.4	673,011	6,354,459	31.7	679,441	6,384,268	34.9	748,028	7,073,797
2024	2,213,005	31.4	694,884	6,410,266	31.7	701,523	6,440,337	34.9	772,339	7,135,922
2025	2,284,928	31.4	717,467	6,456,961	31.7	724,322	6,487,251	34.9	797,440	7,187,902
2026	2,359,188	31.4	740,785	6,493,454	31.7	747,863	6,523,915	34.9	823,357	7,228,526
2027	2,435,862	31.4	764,861	6,518,564	31.7	772,168	6,549,143	34.9	850,116	7,256,479
2028	2,515,028	31.4	789,719	6,531,011	31.7	797,264	6,561,648	34.9	877,745	7,270,335

		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
Valuation Year	Estimated Projected Payroll	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2019	$ 1,885,958	36.8%	$694,033	$ 7,101,933	38.4%	$724,208	$ 7,430,693	41.8%	$788,330	$ 8,116,536
2020	1,947,252	36.8	716,589	7,199,228	38.4	747,745	7,532,492	41.8	813,951	8,227,731
2021	2,010,538	36.8	739,878	7,290,006	38.4	772,047	7,627,472	41.8	840,405	8,331,477
2022	2,075,880	36.8	763,924	7,373,352	38.4	797,138	7,714,676	41.8	867,718	8,426,730
2023	2,143,346	36.8	788,751	7,448,272	38.4	823,045	7,793,064	41.8	895,919	8,512,353
2024	2,213,005	36.8	814,386	7,513,685	38.4	849,794	7,861,505	41.8	925,036	8,587,111
2025	2,284,928	36.8	840,854	7,568,417	38.4	877,412	7,918,771	41.8	955,100	8,649,662
2026	2,359,188	36.8	868,181	7,611,191	38.4	905,928	7,963,525	41.8	986,141	8,698,547
2027	2,435,862	36.8	896,397	7,640,624	38.4	935,371	7,994,320	41.8	1,018,190	8,732,185
2028	2,515,028	36.8	925,530	7,655,214	38.4	965,771	8,009,585	41.8	1,051,282	8,748,859

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.