



The Initial Valuation For

# Mid-County Fire Protection District

as of February 28, 2021  
(Vesting Only)



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March 15, 2021

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 7 as the normal cost rate and the casualty rate. 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 7 as the prior service cost rate. 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 rate 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 normal cost rate, casualty rate, and prior service cost rate (the total employer contribution rate as shown on pages 4 thru 7). These contributions are mandatory after official action has been taken to join the System.

The total annual dollar costs shown on pages 8 and 9 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 29, 2020.

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 February 28, 2021. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

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

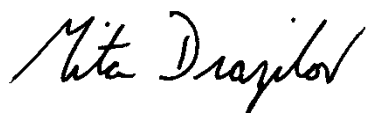
If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA



## Alternate Plan Provisions Affecting Employer Contribution Rates

The law governing LAGERS provides for a member contribution rate of either 0%, 2%, 4% or 6%, with benefits based on either a 5 year or 3 year Final Average Salary (FAS).

**Member Contribution Rate - 0% Plan.** Under the 0% 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.

**Member Contribution Rate - 2%, 4% or 6% Plan.** Under any plan other than 0%, each covered member contributes a percentage 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.

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 144 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 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	5.30%	0.20%	2.60%	8.10%	6.20%	4.30%	2.40%
	Fire	8.40	0.60	1.10	10.10	8.20	6.30	4.40
L-3	General	6.50	0.30	3.30	10.10	8.20	6.30	4.40
	Fire	10.30	0.70	1.30	12.30	10.40	8.50	6.60
LT-4(65)	General	5.80	0.20	3.00	9.00	7.10	5.20	3.30
	Fire	10.20	0.60	1.30	12.10	10.20	8.30	6.40
LT-5(65)	General	6.80	0.30	3.50	10.60	8.70	6.80	4.90
	Fire	11.60	0.70	1.50	13.80	11.90	10.00	8.10
L-7	General	7.60	0.30	3.90	11.80	9.90	8.00	6.10
	Fire	12.10	0.80	1.60	14.50	12.60	10.70	8.80
LT-8(65)	General	7.80	0.30	4.10	12.20	10.30	8.40	6.50
	Fire	13.10	0.80	1.70	15.60	13.70	11.80	9.90
L-12	General	8.70	0.40	4.60	13.70	11.80	9.90	8.00
	Fire	14.00	0.90	1.90	16.80	14.90	13.00	11.10
LT-14(65)	General	8.80	0.40	4.70	13.90	12.00	10.10	8.20
	Fire	14.50	0.90	1.90	17.30	15.40	13.50	11.60
L-6	General	9.80	0.50	5.20	15.50	13.60	11.70	9.80
	Fire	15.90	1.00	2.10	19.00	17.10	15.20	13.30

\* Prior service credit was given for vesting purposes only.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.

# Mid-County Fire Protection District

## Employer Contribution Rates 3 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	5.50%	0.20%	2.70%	8.40%	6.50%	4.60%	2.70%
	Fire	8.70	0.60	1.10	10.40	8.50	6.60	4.70
L-3	General	6.70	0.30	3.40	10.40	8.50	6.60	4.70
	Fire	10.60	0.70	1.40	12.70	10.80	8.90	7.00
LT-4(65)	General	6.00	0.20	3.10	9.30	7.40	5.50	3.60
	Fire	10.50	0.60	1.40	12.50	10.60	8.70	6.80
LT-5(65)	General	7.00	0.30	3.60	10.90	9.00	7.10	5.20
	Fire	12.00	0.70	1.60	14.30	12.40	10.50	8.60
L-7	General	7.80	0.30	4.00	12.10	10.20	8.30	6.40
	Fire	12.60	0.80	1.70	15.10	13.20	11.30	9.40
LT-8(65)	General	8.00	0.30	4.20	12.50	10.60	8.70	6.80
	Fire	13.50	0.80	1.80	16.10	14.20	12.30	10.40
L-12	General	9.00	0.40	4.70	14.10	12.20	10.30	8.40
	Fire	14.50	0.90	1.90	17.30	15.40	13.50	11.60
LT-14(65)	General	9.10	0.40	4.80	14.30	12.40	10.50	8.60
	Fire	15.00	0.90	2.00	17.90	16.00	14.10	12.20
L-6	General	10.10	0.50	5.40	16.00	14.10	12.20	10.30
	Fire	16.40	1.00	2.20	19.60	17.70	15.80	13.90

\* Prior service credit was given for vesting purposes only.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.

# Mid-County Fire Protection District

## Employer Contribution Rates 5 Year FAS - Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	5.80%	0.20%	2.70%	8.70%	6.80%	4.90%	3.00%
	Fire	8.70	0.60	1.00	10.30	8.40	6.50	4.60
L-3	General	7.10	0.30	3.40	10.80	8.90	7.00	5.10
	Fire	10.60	0.70	1.20	12.50	10.60	8.70	6.80
LT-4(65)	General	6.90	0.20	3.50	10.60	8.70	6.80	4.90
	Fire	10.90	0.60	1.30	12.80	10.90	9.00	7.10
LT-5(65)	General	7.90	0.30	3.90	12.10	10.20	8.30	6.40
	Fire	12.30	0.70	1.50	14.50	12.60	10.70	8.80
L-7	General	8.30	0.30	4.00	12.60	10.70	8.80	6.90
	Fire	12.60	0.80	1.50	14.90	13.00	11.10	9.20
LT-8(65)	General	8.80	0.30	4.40	13.50	11.60	9.70	7.80
	Fire	13.70	0.80	1.60	16.10	14.20	12.30	10.40
L-12	General	9.60	0.40	4.70	14.70	12.80	10.90	9.00
	Fire	14.50	0.90	1.70	17.10	15.20	13.30	11.40
LT-14(65)	General	9.80	0.40	4.90	15.10	13.20	11.30	9.40
	Fire	15.10	0.90	1.80	17.80	15.90	14.00	12.10
L-6	General	10.80	0.50	5.40	16.70	14.80	12.90	11.00
	Fire	16.40	1.00	1.90	19.30	17.40	15.50	13.60

# 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.

\* Prior service credit was given for vesting purposes only.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.



# Mid-County Fire Protection District

## Employer Contribution Rates 3 Year FAS - Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.00%	0.20%	2.80%	9.00%	7.10%	5.20%	3.30%
	Fire	9.00	0.60	1.00	10.60	8.70	6.80	4.90
L-3	General	7.30	0.30	3.50	11.10	9.20	7.30	5.40
	Fire	11.00	0.70	1.20	12.90	11.00	9.10	7.20
LT-4(65)	General	7.10	0.20	3.60	10.90	9.00	7.10	5.20
	Fire	11.20	0.60	1.40	13.20	11.30	9.40	7.50
LT-5(65)	General	8.10	0.30	4.10	12.50	10.60	8.70	6.80
	Fire	12.70	0.70	1.50	14.90	13.00	11.10	9.20
L-7	General	8.60	0.30	4.20	13.10	11.20	9.30	7.40
	Fire	13.00	0.80	1.50	15.30	13.40	11.50	9.60
LT-8(65)	General	9.10	0.30	4.60	14.00	12.10	10.20	8.30
	Fire	14.10	0.80	1.70	16.60	14.70	12.80	10.90
L-12	General	9.90	0.40	4.90	15.20	13.30	11.40	9.50
	Fire	15.00	0.90	1.70	17.60	15.70	13.80	11.90
LT-14(65)	General	10.10	0.40	5.10	15.60	13.70	11.80	9.90
	Fire	15.60	0.90	1.80	18.30	16.40	14.50	12.60
L-6	General	11.20	0.50	5.50	17.20	15.30	13.40	11.50
	Fire	17.00	1.00	2.00	20.00	18.10	16.20	14.30

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

\* Prior service credit was given for vesting purposes only.

The total employer contribution rate for each member contribution rate option shown above includes the prior service cost rate, casualty rate and corresponding normal cost rate. The prior service cost rate is the cost associated with paying off the unfunded actuarial accrued liability (past service). The normal cost rate plus the casualty rate is the cost of members' service being rendered each year (future service). For purposes of this initial valuation, the total employer contribution rate for the 0% member contribution rate plan is decreased by 1.9%, 3.8% and 5.7% for the 2%, 4% and 6% member contribution rate plans, respectively.

# Mid-County Fire Protection District

## Employer Contribution Dollars General

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:

### Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 5,022	\$ 3,844	\$ 2,666	\$ 1,488
L-3	6,262	5,084	3,906	2,728
LT-4(65)	5,580	4,402	3,224	2,046
LT-5(65)	6,572	5,394	4,216	3,038
L-7	7,316	6,138	4,960	3,782
LT-8(65)	7,564	6,386	5,208	4,030
L-12	8,494	7,316	6,138	4,960
LT-14(65)	8,618	7,440	6,262	5,084
L-6	9,610	8,432	7,254	6,076

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 5,208	\$ 4,030	\$ 2,852	\$ 1,674
L-3	6,448	5,270	4,092	2,914
LT-4(65)	5,766	4,588	3,410	2,232
LT-5(65)	6,758	5,580	4,402	3,224
L-7	7,502	6,324	5,146	3,968
LT-8(65)	7,750	6,572	5,394	4,216
L-12	8,742	7,564	6,386	5,208
LT-14(65)	8,866	7,688	6,510	5,332
L-6	9,920	8,742	7,564	6,386

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 5,394	\$ 4,216	\$ 3,038	\$ 1,860
L-3	6,696	5,518	4,340	3,162
LT-4(65)	6,572	5,394	4,216	3,038
LT-5(65)	7,502	6,324	5,146	3,968
L-7	7,812	6,634	5,456	4,278
LT-8(65)	8,370	7,192	6,014	4,836
L-12	9,114	7,936	6,758	5,580
LT-14(65)	9,362	8,184	7,006	5,828
L-6	10,354	9,176	7,998	6,820

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 5,580	\$ 4,402	\$ 3,224	\$ 2,046
L-3	6,882	5,704	4,526	3,348
LT-4(65)	6,758	5,580	4,402	3,224
LT-5(65)	7,750	6,572	5,394	4,216
L-7	8,122	6,944	5,766	4,588
LT-8(65)	8,680	7,502	6,324	5,146
L-12	9,424	8,246	7,068	5,890
LT-14(65)	9,672	8,494	7,316	6,138
L-6	10,664	9,486	8,308	7,130

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 Fire

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:

### Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 142,410	\$ 115,620	\$ 88,830	\$ 62,040
L-3	173,430	146,640	119,850	93,060
LT-4(65)	170,610	143,820	117,030	90,240
LT-5(65)	194,580	167,790	141,000	114,210
L-7	204,450	177,660	150,870	124,080
LT-8(65)	219,960	193,170	166,380	139,590
L-12	236,880	210,090	183,300	156,510
LT-14(65)	243,930	217,140	190,350	163,560
L-6	267,900	241,110	214,320	187,530

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 146,640	\$ 119,850	\$ 93,060	\$ 66,270
L-3	179,070	152,280	125,490	98,700
LT-4(65)	176,250	149,460	122,670	95,880
LT-5(65)	201,630	174,840	148,050	121,260
L-7	212,910	186,120	159,330	132,540
LT-8(65)	227,010	200,220	173,430	146,640
L-12	243,930	217,140	190,350	163,560
LT-14(65)	252,390	225,600	198,810	172,020
L-6	276,360	249,570	222,780	195,990

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 145,230	\$ 118,440	\$ 91,650	\$ 64,860
L-3	176,250	149,460	122,670	95,880
LT-4(65)	180,480	153,690	126,900	100,110
LT-5(65)	204,450	177,660	150,870	124,080
L-7	210,090	183,300	156,510	129,720
LT-8(65)	227,010	200,220	173,430	146,640
L-12	241,110	214,320	187,530	160,740
LT-14(65)	250,980	224,190	197,400	170,610
L-6	272,130	245,340	218,550	191,760

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 149,460	\$ 122,670	\$ 95,880	\$ 69,090
L-3	181,890	155,100	128,310	101,520
LT-4(65)	186,120	159,330	132,540	105,750
LT-5(65)	210,090	183,300	156,510	129,720
L-7	215,730	188,940	162,150	135,360
LT-8(65)	234,060	207,270	180,480	153,690
L-12	248,160	221,370	194,580	167,790
LT-14(65)	258,030	231,240	204,450	177,660
L-6	282,000	255,210	228,420	201,630

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	13
Annual Payroll	\$ 62,000	\$ 1,410,000

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

## **APPENDIX I**

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### **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 7 as the "Prior Service Cost Rate" are designed to pay for the applicable unfunded actuarial accrued liability. This procedure will allow your political subdivision to retire the unfunded actuarial accrued liability in an orderly fashion over a period of years without the need for an immediate large payment upon joining the System.

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

### Mid-County Fire Protection District

#### Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 28,473	\$ 29,368
	Fire	265,502	273,406
L-3	General	35,600	36,707
	Fire	331,876	341,714
LT-4(65)	General	32,290	33,325
	Fire	328,328	338,365
LT-5(65)	General	38,460	39,669
	Fire	378,970	390,453
L-7	General	42,707	44,054
	Fire	398,246	410,088
LT-8(65)	General	44,622	46,032
	Fire	429,666	442,577
L-12	General	49,821	51,389
	Fire	464,635	478,394
LT-14(65)	General	50,789	52,383
	Fire	480,395	494,643
L-6	General	56,948	58,739
	Fire	531,023	546,763

# Mid-County Fire Protection District

## Unfunded Actuarial Accrued Liability (UAAL)

### Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 29,333	\$ 30,282
	Fire	240,144	247,703
L-3	General	36,660	37,868
	Fire	300,172	309,531
LT-4(65)	General	37,780	39,025
	Fire	325,208	335,763
LT-5(65)	General	42,995	44,425
	Fire	363,954	375,623
L-7	General	43,994	45,440
	Fire	360,214	371,502
LT-8(65)	General	48,217	49,811
	Fire	402,748	415,544
L-12	General	51,331	53,014
	Fire	420,232	433,371
LT-14(65)	General	53,433	55,200
	Fire	441,554	455,386
L-6	General	58,666	60,579
	Fire	480,293	495,334

## **APPENDIX II**

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### **SUMMARY OF FINANCIAL ASSUMPTIONS**



# Summary of Assumptions Used in Actuarial Valuations

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

1. The investment return rate used in making the valuations was 7.25% per year, net of investment expenses, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. The price inflation rate used in making the valuations was 2.50% and the wage inflation rate used in making the valuations was 3.25%. The 7.25% investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.00%. Adopted 2011 and 2016.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The pre-retirement mortality tables used were the RP-2014 employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. For both the post-retirement and pre-retirement tables, the base year for males was then established to be 2017. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to the above described tables. Adopted 2016.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2016.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2016.
5. Post-retirement cost of living allowances are assumed to be 2.50% per year. Adopted 2016.
6. Total active member payroll is assumed to increase 3.25% a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2016.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.
9. This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

## Schedule 1.

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

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

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

## Schedule 2.

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

#### Early Retirement

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

#### Normal Retirement

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

## Schedule 2. (Concluded)

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

Retirement Ages	General Members		Police/ Public Safety	Fire
	Men	Women		
50	15%	15%	25%	25%
51	15	15	25	20
52	15	15	15	20
53	15	15	15	20
54	15	15	15	20
55	15	15	15	20
56	15	15	15	20
57	15	15	15	25
58	15	15	15	25
59	15	15	15	25
60	15	15	15	35
61	15	15	25	35
62	30	15	30	45
63	30	15	30	45
64	30	20	30	45
65	30	25	100	100
66	30	25		
67	30	25		
68	30	25		
69	30	25		
70	100	100		

## **APPENDIX III**

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### **SUMMARY OF LAGERS PROVISIONS**

# Missouri Local Government Employees Retirement System

## Brief Summary of LAGERS

### Benefits and Conditions Evaluated and/or Considered as of February 29, 2020

#### (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, public safety 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, public safety 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 a percent of compensation beginning after completion of sufficient employment for 6 months of credited service. The law governing LAGERS has a provision for the adoption of a 2%, 4% or 6% member contribution rate.

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 0% plan in which the full cost of LAGERS participation is paid by the employer. Adoption of the 0% plan may be done at the time of membership or a later date; however, a change in the member contribution rate may not be made more frequently than every 2 years. Under the 0% plan 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**

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### **BENEFIT ILLUSTRATIONS**

# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 948	\$1,473	98%
2,000	700	1,095	1,795	90%
2,500	875	1,242	2,117	85%
3,000	1,050	1,388	2,438	81%
3,500	1,225	1,535	2,760	79%
4,000	1,400	1,682	3,082	77%
25 Years of Service:				
\$1,500	\$ 375	\$ 948	\$1,323	88%
2,000	500	1,095	1,595	80%
2,500	625	1,242	1,867	75%
3,000	750	1,388	2,138	71%
3,500	875	1,535	2,410	69%
4,000	1,000	1,682	2,682	67%
15 Years of Service:				
\$1,500	\$225	\$ 948	\$1,173	78%
2,000	300	1,095	1,395	70%
2,500	375	1,242	1,617	65%
3,000	450	1,388	1,838	61%
3,500	525	1,535	2,060	59%
4,000	600	1,682	2,282	57%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 656	\$ 948	\$1,604	107%
2,000	875	1,095	1,970	99%
2,500	1,094	1,242	2,336	93%
3,000	1,313	1,388	2,701	90%
3,500	1,531	1,535	3,066	88%
4,000	1,750	1,682	3,432	86%
25 Years of Service:				
\$1,500	\$ 469	\$ 948	\$1,417	94%
2,000	625	1,095	1,720	86%
2,500	781	1,242	2,023	81%
3,000	938	1,388	2,326	78%
3,500	1,094	1,535	2,629	75%
4,000	1,250	1,682	2,932	73%
15 Years of Service:				
\$1,500	\$281	\$ 948	\$1,229	82%
2,000	375	1,095	1,470	74%
2,500	469	1,242	1,711	68%
3,000	563	1,388	1,951	65%
3,500	656	1,535	2,191	63%
4,000	750	1,682	2,432	61%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 788	\$ 948	\$1,736	116%
2,000	1,050	1,095	2,145	107%
2,500	1,313	1,242	2,555	102%
3,000	1,575	1,388	2,963	99%
3,500	1,838	1,535	3,373	96%
4,000	2,100	1,682	3,782	95%
25 Years of Service:				
\$1,500	\$ 563	\$ 948	\$1,511	101%
2,000	750	1,095	1,845	92%
2,500	938	1,242	2,180	87%
3,000	1,125	1,388	2,513	84%
3,500	1,313	1,535	2,848	81%
4,000	1,500	1,682	3,182	80%
15 Years of Service:				
\$1,500	\$338	\$ 948	\$1,286	86%
2,000	450	1,095	1,545	77%
2,500	563	1,242	1,805	72%
3,000	675	1,388	2,063	69%
3,500	788	1,535	2,323	66%
4,000	900	1,682	2,582	65%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 948	\$1,867	124%
2,000	1,225	1,095	2,320	116%
2,500	1,531	1,242	2,773	111%
3,000	1,838	1,388	3,226	108%
3,500	2,144	1,535	3,679	105%
4,000	2,450	1,682	4,132	103%
25 Years of Service:				
\$1,500	\$ 656	\$ 948	\$1,604	107%
2,000	875	1,095	1,970	99%
2,500	1,094	1,242	2,336	93%
3,000	1,313	1,388	2,701	90%
3,500	1,531	1,535	3,066	88%
4,000	1,750	1,682	3,432	86%
15 Years of Service:				
\$1,500	\$ 394	\$ 948	\$1,342	89%
2,000	525	1,095	1,620	81%
2,500	656	1,242	1,898	76%
3,000	788	1,388	2,176	73%
3,500	919	1,535	2,454	70%
4,000	1,050	1,682	2,732	68%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 948	\$1,998	133%
2,000	1,400	1,095	2,495	125%
2,500	1,750	1,242	2,992	120%
3,000	2,100	1,388	3,488	116%
3,500	2,450	1,535	3,985	114%
4,000	2,800	1,682	4,482	112%
25 Years of Service:				
\$1,500	\$ 750	\$ 948	\$1,698	113%
2,000	1,000	1,095	2,095	105%
2,500	1,250	1,242	2,492	100%
3,000	1,500	1,388	2,888	96%
3,500	1,750	1,535	3,285	94%
4,000	2,000	1,682	3,682	92%
15 Years of Service:				
\$1,500	\$ 450	\$ 948	\$1,398	93%
2,000	600	1,095	1,695	85%
2,500	750	1,242	1,992	80%
3,000	900	1,388	2,288	76%
3,500	1,050	1,535	2,585	74%
4,000	1,200	1,682	2,882	72%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 525	\$ 948	\$1,050	\$1,473	70%	98%
2,000	1,400	700	1,095	1,400	1,795	70%	90%
2,500	1,750	875	1,242	1,750	2,117	70%	85%
3,000	2,100	1,050	1,388	2,100	2,438	70%	81%
3,500	2,450	1,225	1,535	2,450	2,760	70%	79%
4,000	2,800	1,400	1,682	2,800	3,082	70%	77%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 948	\$ 750	\$1,323	50%	88%
2,000	1,000	500	1,095	1,000	1,595	50%	80%
2,500	1,250	625	1,242	1,250	1,867	50%	75%
3,000	1,500	750	1,388	1,500	2,138	50%	71%
3,500	1,750	875	1,535	1,750	2,410	50%	69%
4,000	2,000	1,000	1,682	2,000	2,682	50%	67%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 948	\$ 450	\$1,173	30%	78%
2,000	600	300	1,095	600	1,395	30%	70%
2,500	750	375	1,242	750	1,617	30%	65%
3,000	900	450	1,388	900	1,838	30%	61%
3,500	1,050	525	1,535	1,050	2,060	30%	59%
4,000	1,200	600	1,682	1,200	2,282	30%	57%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 656	\$ 948	\$1,050	\$1,604	70%	107%
2,000	1,400	875	1,095	1,400	1,970	70%	99%
2,500	1,750	1,094	1,242	1,750	2,336	70%	93%
3,000	2,100	1,313	1,388	2,100	2,701	70%	90%
3,500	2,450	1,531	1,535	2,450	3,066	70%	88%
4,000	2,800	1,750	1,682	2,800	3,432	70%	86%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 948	\$ 750	\$1,417	50%	94%
2,000	1,000	625	1,095	1,000	1,720	50%	86%
2,500	1,250	781	1,242	1,250	2,023	50%	81%
3,000	1,500	938	1,388	1,500	2,326	50%	78%
3,500	1,750	1,094	1,535	1,750	2,629	50%	75%
4,000	2,000	1,250	1,682	2,000	2,932	50%	73%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 948	\$ 450	\$1,229	30%	82%
2,000	600	375	1,095	600	1,470	30%	74%
2,500	750	469	1,242	750	1,711	30%	68%
3,000	900	563	1,388	900	1,951	30%	65%
3,500	1,050	656	1,535	1,050	2,191	30%	63%
4,000	1,200	750	1,682	1,200	2,432	30%	61%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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



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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 788	\$ 948	\$1,050	\$1,736	70%	116%
2,000	1,400	1,050	1,095	1,400	2,145	70%	107%
2,500	1,750	1,313	1,242	1,750	2,555	70%	102%
3,000	2,100	1,575	1,388	2,100	2,963	70%	99%
3,500	2,450	1,838	1,535	2,450	3,373	70%	96%
4,000	2,800	2,100	1,682	2,800	3,782	70%	95%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 948	\$ 750	\$1,511	50%	101%
2,000	1,000	750	1,095	1,000	1,845	50%	92%
2,500	1,250	938	1,242	1,250	2,180	50%	87%
3,000	1,500	1,125	1,388	1,500	2,513	50%	84%
3,500	1,750	1,313	1,535	1,750	2,848	50%	81%
4,000	2,000	1,500	1,682	2,000	3,182	50%	80%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 948	\$ 450	\$1,286	30%	86%
2,000	600	450	1,095	600	1,545	30%	77%
2,500	750	563	1,242	750	1,805	30%	72%
3,000	900	675	1,388	900	2,063	30%	69%
3,500	1,050	788	1,535	1,050	2,323	30%	66%
4,000	1,200	900	1,682	1,200	2,582	30%	65%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 919	\$ 948	\$1,050	\$1,867	70%	124%
2,000	1,400	1,225	1,095	1,400	2,320	70%	116%
2,500	1,750	1,531	1,242	1,750	2,773	70%	111%
3,000	2,100	1,838	1,388	2,100	3,226	70%	108%
3,500	2,450	2,144	1,535	2,450	3,679	70%	105%
4,000	2,800	2,450	1,682	2,800	4,132	70%	103%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 948	\$ 750	\$1,604	50%	107%
2,000	1,000	875	1,095	1,000	1,970	50%	99%
2,500	1,250	1,094	1,242	1,250	2,336	50%	93%
3,000	1,500	1,313	1,388	1,500	2,701	50%	90%
3,500	1,750	1,531	1,535	1,750	3,066	50%	88%
4,000	2,000	1,750	1,682	2,000	3,432	50%	86%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 948	\$ 450	\$1,342	30%	89%
2,000	600	525	1,095	600	1,620	30%	81%
2,500	750	656	1,242	750	1,898	30%	76%
3,000	900	788	1,388	900	2,176	30%	73%
3,500	1,050	919	1,535	1,050	2,454	30%	70%
4,000	1,200	1,050	1,682	1,200	2,732	30%	68%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

## **APPENDIX V**

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### **AGE AND SERVICE CHARACTERISTICS OF EMPLOYEES**

# Mid-County Fire Protection District - General

February 28, 2021

## By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39									
40-44									
45-49				1				1	\$ 62,000
50-54									
55-59									
60-64									
65-69									
70 & Over									
<b>Totals</b>				<b>1</b>				<b>1</b>	<b>\$ 62,000</b>

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

Age: 45.0 years.

Benefit Service: 0.0 years.

Annual Pay: \$62,000.

# Mid-County Fire Protection District - Fire

February 28, 2021

## By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39		2						2	\$ 210,000
40-44	1				1			2	\$ 210,000
45-49		1	1		1			3	\$ 320,000
50-54						4		4	\$ 425,000
55-59	1		1					2	\$ 245,000
60-64									
65-69									
70 & Over									
<b>Totals</b>	<b>2</b>	<b>3</b>	<b>2</b>		<b>2</b>	<b>4</b>		<b>13</b>	<b>\$ 1,410,000</b>

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

Age: 47.8 years.

Benefit Service: 0.0 years.

Annual Pay: \$108,462.

## **APPENDIX VI**

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### **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 7 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.





March 15, 2021 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 February 28, 2021 Initial Actuarial Valuation of LAGERS benefits for the employees of

Mid-County Fire Protection District

Sincerely,

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

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp



March 15, 2021

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 February 28, 2021 Initial Valuation (vesting only) for the Mid-County Fire Protection District dated March 15, 2021.

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 29, 2020. The unfunded actuarial accrued liability shown for each member contribution rate option is based on the 0% member contribution rate plan.

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,

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

Mita D. Drazilov, ASA, FCA, MAAA

# Mid-County Fire Protection District - General

## Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 62,000	8.1%	\$5,022	\$ 28,473	10.1%	\$6,262	\$ 35,600	9.0%	\$5,580	\$ 32,290
2022	64,015	8.1	5,185	28,863	10.1	6,466	36,088	9.0	5,761	32,732
2023	66,095	8.1	5,354	29,227	10.1	6,676	36,543	9.0	5,949	33,145
2024	68,243	8.1	5,528	29,561	10.1	6,893	36,961	9.0	6,142	33,524
2025	70,461	8.1	5,707	29,861	10.1	7,117	37,337	9.0	6,341	33,865
2026	72,751	8.1	5,893	30,123	10.1	7,348	37,665	9.0	6,548	34,162
2027	75,115	8.1	6,084	30,342	10.1	7,587	37,939	9.0	6,760	34,411
2028	77,556	8.1	6,282	30,513	10.1	7,833	38,153	9.0	6,980	34,605
2029	80,077	8.1	6,486	30,631	10.1	8,088	38,301	9.0	7,207	34,739
2030	82,680	8.1	6,697	30,689	10.1	8,351	38,374	9.0	7,441	34,805

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 62,000	10.6%	\$6,572	\$ 38,460	11.8%	\$7,316	\$ 42,707	12.2%	\$7,564	\$ 44,622
2022	64,015	10.6	6,786	38,987	11.8	7,554	43,292	12.2	7,810	45,233
2023	66,095	10.6	7,006	39,479	11.8	7,799	43,838	12.2	8,064	45,803
2024	68,243	10.6	7,234	39,930	11.8	8,053	44,339	12.2	8,326	46,327
2025	70,461	10.6	7,469	40,336	11.8	8,314	44,790	12.2	8,596	46,798
2026	72,751	10.6	7,712	40,690	11.8	8,585	45,183	12.2	8,876	47,209
2027	75,115	10.6	7,962	40,986	11.8	8,864	45,512	12.2	9,164	47,553
2028	77,556	10.6	8,221	41,218	11.8	9,152	45,769	12.2	9,462	47,822
2029	80,077	10.6	8,488	41,377	11.8	9,449	45,946	12.2	9,769	48,007
2030	82,680	10.6	8,764	41,456	11.8	9,756	46,034	12.2	10,087	48,099

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 62,000	13.7%	\$8,494	\$ 49,821	13.9%	\$8,618	\$ 50,789	15.5%	\$9,610	\$ 56,948
2022	64,015	13.7	8,770	50,504	13.9	8,898	51,485	15.5	9,922	57,728
2023	66,095	13.7	9,055	51,141	13.9	9,187	52,134	15.5	10,245	58,456
2024	68,243	13.7	9,349	51,726	13.9	9,486	52,730	15.5	10,578	59,124
2025	70,461	13.7	9,653	52,252	13.9	9,794	53,266	15.5	10,921	59,725
2026	72,751	13.7	9,967	52,711	13.9	10,112	53,734	15.5	11,276	60,250
2027	75,115	13.7	10,291	53,095	13.9	10,441	54,125	15.5	11,643	60,689
2028	77,556	13.7	10,625	53,395	13.9	10,780	54,431	15.5	12,021	61,032
2029	80,077	13.7	10,971	53,601	13.9	11,131	54,641	15.5	12,412	61,268
2030	82,680	13.7	11,327	53,703	13.9	11,493	54,745	15.5	12,815	61,385

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	6.2%	\$3,844	\$ 28,473	8.2%	\$5,084	\$ 35,600	7.1%	\$4,402	\$ 32,290
2022	64,015	6.2	3,969	28,863	8.2	5,249	36,088	7.1	4,545	32,732
2023	66,095	6.2	4,098	29,227	8.2	5,420	36,543	7.1	4,693	33,145
2024	68,243	6.2	4,231	29,561	8.2	5,596	36,961	7.1	4,845	33,524
2025	70,461	6.2	4,369	29,861	8.2	5,778	37,337	7.1	5,003	33,865
2026	72,751	6.2	4,511	30,123	8.2	5,966	37,665	7.1	5,165	34,162
2027	75,115	6.2	4,657	30,342	8.2	6,159	37,939	7.1	5,333	34,411
2028	77,556	6.2	4,808	30,513	8.2	6,360	38,153	7.1	5,506	34,605
2029	80,077	6.2	4,965	30,631	8.2	6,566	38,301	7.1	5,685	34,739
2030	82,680	6.2	5,126	30,689	8.2	6,780	38,374	7.1	5,870	34,805

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	8.7%	\$5,394	\$ 38,460	9.9%	\$6,138	\$ 42,707	10.3%	\$6,386	\$ 44,622
2022	64,015	8.7	5,569	38,987	9.9	6,337	43,292	10.3	6,594	45,233
2023	66,095	8.7	5,750	39,479	9.9	6,543	43,838	10.3	6,808	45,803
2024	68,243	8.7	5,937	39,930	9.9	6,756	44,339	10.3	7,029	46,327
2025	70,461	8.7	6,130	40,336	9.9	6,976	44,790	10.3	7,257	46,798
2026	72,751	8.7	6,329	40,690	9.9	7,202	45,183	10.3	7,493	47,209
2027	75,115	8.7	6,535	40,986	9.9	7,436	45,512	10.3	7,737	47,553
2028	77,556	8.7	6,747	41,218	9.9	7,678	45,769	10.3	7,988	47,822
2029	80,077	8.7	6,967	41,377	9.9	7,928	45,946	10.3	8,248	48,007
2030	82,680	8.7	7,193	41,456	9.9	8,185	46,034	10.3	8,516	48,099

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	
2021	\$ 62,000	11.8%	\$7,316	\$ 49,821	12.0%	\$7,440	\$ 50,789	13.6%	\$8,432	\$ 56,948
2022	64,015	11.8	7,554	50,504	12.0	7,682	51,485	13.6	8,706	57,728
2023	66,095	11.8	7,799	51,141	12.0	7,931	52,134	13.6	8,989	58,456
2024	68,243	11.8	8,053	51,726	12.0	8,189	52,730	13.6	9,281	59,124
2025	70,461	11.8	8,314	52,252	12.0	8,455	53,266	13.6	9,583	59,725
2026	72,751	11.8	8,585	52,711	12.0	8,730	53,734	13.6	9,894	60,250
2027	75,115	11.8	8,864	53,095	12.0	9,014	54,125	13.6	10,216	60,689
2028	77,556	11.8	9,152	53,395	12.0	9,307	54,431	13.6	10,548	61,032
2029	80,077	11.8	9,449	53,601	12.0	9,609	54,641	13.6	10,890	61,268
2030	82,680	11.8	9,756	53,703	12.0	9,922	54,745	13.6	11,244	61,385

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	4.3%	\$2,666	\$ 28,473	6.3%	\$3,906	\$ 35,600	5.2%	\$3,224	\$ 32,290
2022	64,015	4.3	2,753	28,863	6.3	4,033	36,088	5.2	3,329	32,732
2023	66,095	4.3	2,842	29,227	6.3	4,164	36,543	5.2	3,437	33,145
2024	68,243	4.3	2,934	29,561	6.3	4,299	36,961	5.2	3,549	33,524
2025	70,461	4.3	3,030	29,861	6.3	4,439	37,337	5.2	3,664	33,865
2026	72,751	4.3	3,128	30,123	6.3	4,583	37,665	5.2	3,783	34,162
2027	75,115	4.3	3,230	30,342	6.3	4,732	37,939	5.2	3,906	34,411
2028	77,556	4.3	3,335	30,513	6.3	4,886	38,153	5.2	4,033	34,605
2029	80,077	4.3	3,443	30,631	6.3	5,045	38,301	5.2	4,164	34,739
2030	82,680	4.3	3,555	30,689	6.3	5,209	38,374	5.2	4,299	34,805

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	6.8%	\$4,216	\$ 38,460	8.0%	\$4,960	\$ 42,707	8.4%	\$5,208	\$ 44,622
2022	64,015	6.8	4,353	38,987	8.0	5,121	43,292	8.4	5,377	45,233
2023	66,095	6.8	4,494	39,479	8.0	5,288	43,838	8.4	5,552	45,803
2024	68,243	6.8	4,641	39,930	8.0	5,459	44,339	8.4	5,732	46,327
2025	70,461	6.8	4,791	40,336	8.0	5,637	44,790	8.4	5,919	46,798
2026	72,751	6.8	4,947	40,690	8.0	5,820	45,183	8.4	6,111	47,209
2027	75,115	6.8	5,108	40,986	8.0	6,009	45,512	8.4	6,310	47,553
2028	77,556	6.8	5,274	41,218	8.0	6,204	45,769	8.4	6,515	47,822
2029	80,077	6.8	5,445	41,377	8.0	6,406	45,946	8.4	6,726	48,007
2030	82,680	6.8	5,622	41,456	8.0	6,614	46,034	8.4	6,945	48,099

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	9.9%	\$6,138	\$ 49,821	10.1%	\$6,262	\$ 50,789	11.7%	\$7,254	\$ 56,948
2022	64,015	9.9	6,337	50,504	10.1	6,466	51,485	11.7	7,490	57,728
2023	66,095	9.9	6,543	51,141	10.1	6,676	52,134	11.7	7,733	58,456
2024	68,243	9.9	6,756	51,726	10.1	6,893	52,730	11.7	7,984	59,124
2025	70,461	9.9	6,976	52,252	10.1	7,117	53,266	11.7	8,244	59,725
2026	72,751	9.9	7,202	52,711	10.1	7,348	53,734	11.7	8,512	60,250
2027	75,115	9.9	7,436	53,095	10.1	7,587	54,125	11.7	8,788	60,689
2028	77,556	9.9	7,678	53,395	10.1	7,833	54,431	11.7	9,074	61,032
2029	80,077	9.9	7,928	53,601	10.1	8,088	54,641	11.7	9,369	61,268
2030	82,680	9.9	8,185	53,703	10.1	8,351	54,745	11.7	9,674	61,385

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	2.4%	\$1,488	\$ 28,473	4.4%	\$2,728	\$ 35,600	3.3%	\$2,046	\$ 32,290
2022	64,015	2.4	1,536	28,863	4.4	2,817	36,088	3.3	2,112	32,732
2023	66,095	2.4	1,586	29,227	4.4	2,908	36,543	3.3	2,181	33,145
2024	68,243	2.4	1,638	29,561	4.4	3,003	36,961	3.3	2,252	33,524
2025	70,461	2.4	1,691	29,861	4.4	3,100	37,337	3.3	2,325	33,865
2026	72,751	2.4	1,746	30,123	4.4	3,201	37,665	3.3	2,401	34,162
2027	75,115	2.4	1,803	30,342	4.4	3,305	37,939	3.3	2,479	34,411
2028	77,556	2.4	1,861	30,513	4.4	3,412	38,153	3.3	2,559	34,605
2029	80,077	2.4	1,922	30,631	4.4	3,523	38,301	3.3	2,643	34,739
2030	82,680	2.4	1,984	30,689	4.4	3,638	38,374	3.3	2,728	34,805

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	4.9%	\$3,038	\$ 38,460	6.1%	\$3,782	\$ 42,707	6.5%	\$4,030	\$ 44,622
2022	64,015	4.9	3,137	38,987	6.1	3,905	43,292	6.5	4,161	45,233
2023	66,095	4.9	3,239	39,479	6.1	4,032	43,838	6.5	4,296	45,803
2024	68,243	4.9	3,344	39,930	6.1	4,163	44,339	6.5	4,436	46,327
2025	70,461	4.9	3,453	40,336	6.1	4,298	44,790	6.5	4,580	46,798
2026	72,751	4.9	3,565	40,690	6.1	4,438	45,183	6.5	4,729	47,209
2027	75,115	4.9	3,681	40,986	6.1	4,582	45,512	6.5	4,882	47,553
2028	77,556	4.9	3,800	41,218	6.1	4,731	45,769	6.5	5,041	47,822
2029	80,077	4.9	3,924	41,377	6.1	4,885	45,946	6.5	5,205	48,007
2030	82,680	4.9	4,051	41,456	6.1	5,043	46,034	6.5	5,374	48,099

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	
2021	\$ 62,000	8.0%	\$4,960	\$ 49,821	8.2%	\$5,084	\$ 50,789	9.8%	\$6,076	\$ 56,948
2022	64,015	8.0	5,121	50,504	8.2	5,249	51,485	9.8	6,273	57,728
2023	66,095	8.0	5,288	51,141	8.2	5,420	52,134	9.8	6,477	58,456
2024	68,243	8.0	5,459	51,726	8.2	5,596	52,730	9.8	6,688	59,124
2025	70,461	8.0	5,637	52,252	8.2	5,778	53,266	9.8	6,905	59,725
2026	72,751	8.0	5,820	52,711	8.2	5,966	53,734	9.8	7,130	60,250
2027	75,115	8.0	6,009	53,095	8.2	6,159	54,125	9.8	7,361	60,689
2028	77,556	8.0	6,204	53,395	8.2	6,360	54,431	9.8	7,600	61,032
2029	80,077	8.0	6,406	53,601	8.2	6,566	54,641	9.8	7,848	61,268
2030	82,680	8.0	6,614	53,703	8.2	6,780	54,745	9.8	8,103	61,385

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	8.4%	\$5,208	\$ 29,368	10.4%	\$6,448	\$ 36,707	9.3%	\$5,766	\$ 33,325
2022	64,015	8.4	5,377	29,770	10.4	6,658	37,210	9.3	5,953	33,782
2023	66,095	8.4	5,552	30,145	10.4	6,874	37,679	9.3	6,147	34,208
2024	68,243	8.4	5,732	30,490	10.4	7,097	38,110	9.3	6,347	34,599
2025	70,461	8.4	5,919	30,800	10.4	7,328	38,497	9.3	6,553	34,951
2026	72,751	8.4	6,111	31,070	10.4	7,566	38,835	9.3	6,766	35,258
2027	75,115	8.4	6,310	31,296	10.4	7,812	39,118	9.3	6,986	35,515
2028	77,556	8.4	6,515	31,473	10.4	8,066	39,339	9.3	7,213	35,716
2029	80,077	8.4	6,726	31,595	10.4	8,328	39,491	9.3	7,447	35,854
2030	82,680	8.4	6,945	31,655	10.4	8,599	39,566	9.3	7,689	35,922

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	
2021	\$ 62,000	10.9%	\$6,758	\$ 39,669	12.1%	\$7,502	\$ 44,054	12.5%	\$7,750	\$ 46,032
2022	64,015	10.9	6,978	40,212	12.1	7,746	44,658	12.5	8,002	46,663
2023	66,095	10.9	7,204	40,719	12.1	7,997	45,221	12.5	8,262	47,251
2024	68,243	10.9	7,438	41,185	12.1	8,257	45,738	12.5	8,530	47,791
2025	70,461	10.9	7,680	41,603	12.1	8,526	46,203	12.5	8,808	48,277
2026	72,751	10.9	7,930	41,968	12.1	8,803	46,609	12.5	9,094	48,701
2027	75,115	10.9	8,188	42,274	12.1	9,089	46,949	12.5	9,389	49,056
2028	77,556	10.9	8,454	42,513	12.1	9,384	47,214	12.5	9,695	49,333
2029	80,077	10.9	8,728	42,677	12.1	9,689	47,397	12.5	10,010	49,524
2030	82,680	10.9	9,012	42,758	12.1	10,004	47,488	12.5	10,335	49,619

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	
2021	\$ 62,000	14.1%	\$8,742	\$ 51,389	14.3%	\$8,866	\$ 52,383	16.0%	\$9,920	\$ 58,739
2022	64,015	14.1	9,026	52,093	14.3	9,154	53,101	16.0	10,242	59,544
2023	66,095	14.1	9,319	52,750	14.3	9,452	53,771	16.0	10,575	60,295
2024	68,243	14.1	9,622	53,353	14.3	9,759	54,386	16.0	10,919	60,984
2025	70,461	14.1	9,935	53,895	14.3	10,076	54,939	16.0	11,274	61,604
2026	72,751	14.1	10,258	54,368	14.3	10,403	55,421	16.0	11,640	62,145
2027	75,115	14.1	10,591	54,764	14.3	10,741	55,825	16.0	12,018	62,598
2028	77,556	14.1	10,935	55,074	14.3	11,091	56,141	16.0	12,409	62,952
2029	80,077	14.1	11,291	55,287	14.3	11,451	56,358	16.0	12,812	63,195
2030	82,680	14.1	11,658	55,393	14.3	11,823	56,466	16.0	13,229	63,316

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	6.5%	\$4,030	\$ 29,368	8.5%	\$5,270	\$ 36,707	7.4%	\$4,588	\$ 33,325
2022	64,015	6.5	4,161	29,770	8.5	5,441	37,210	7.4	4,737	33,782
2023	66,095	6.5	4,296	30,145	8.5	5,618	37,679	7.4	4,891	34,208
2024	68,243	6.5	4,436	30,490	8.5	5,801	38,110	7.4	5,050	34,599
2025	70,461	6.5	4,580	30,800	8.5	5,989	38,497	7.4	5,214	34,951
2026	72,751	6.5	4,729	31,070	8.5	6,184	38,835	7.4	5,384	35,258
2027	75,115	6.5	4,882	31,296	8.5	6,385	39,118	7.4	5,559	35,515
2028	77,556	6.5	5,041	31,473	8.5	6,592	39,339	7.4	5,739	35,716
2029	80,077	6.5	5,205	31,595	8.5	6,807	39,491	7.4	5,926	35,854
2030	82,680	6.5	5,374	31,655	8.5	7,028	39,566	7.4	6,118	35,922

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	
2021	\$ 62,000	9.0%	\$5,580	\$ 39,669	10.2%	\$6,324	\$ 44,054	10.6%	\$6,572	\$ 46,032
2022	64,015	9.0	5,761	40,212	10.2	6,530	44,658	10.6	6,786	46,663
2023	66,095	9.0	5,949	40,719	10.2	6,742	45,221	10.6	7,006	47,251
2024	68,243	9.0	6,142	41,185	10.2	6,961	45,738	10.6	7,234	47,791
2025	70,461	9.0	6,341	41,603	10.2	7,187	46,203	10.6	7,469	48,277
2026	72,751	9.0	6,548	41,968	10.2	7,421	46,609	10.6	7,712	48,701
2027	75,115	9.0	6,760	42,274	10.2	7,662	46,949	10.6	7,962	49,056
2028	77,556	9.0	6,980	42,513	10.2	7,911	47,214	10.6	8,221	49,333
2029	80,077	9.0	7,207	42,677	10.2	8,168	47,397	10.6	8,488	49,524
2030	82,680	9.0	7,441	42,758	10.2	8,433	47,488	10.6	8,764	49,619

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	
2021	\$ 62,000	12.2%	\$7,564	\$ 51,389	12.4%	\$7,688	\$ 52,383	14.1%	\$8,742	\$ 58,739
2022	64,015	12.2	7,810	52,093	12.4	7,938	53,101	14.1	9,026	59,544
2023	66,095	12.2	8,064	52,750	12.4	8,196	53,771	14.1	9,319	60,295
2024	68,243	12.2	8,326	53,353	12.4	8,462	54,386	14.1	9,622	60,984
2025	70,461	12.2	8,596	53,895	12.4	8,737	54,939	14.1	9,935	61,604
2026	72,751	12.2	8,876	54,368	12.4	9,021	55,421	14.1	10,258	62,145
2027	75,115	12.2	9,164	54,764	12.4	9,314	55,825	14.1	10,591	62,598
2028	77,556	12.2	9,462	55,074	12.4	9,617	56,141	14.1	10,935	62,952
2029	80,077	12.2	9,769	55,287	12.4	9,930	56,358	14.1	11,291	63,195
2030	82,680	12.2	10,087	55,393	12.4	10,252	56,466	14.1	11,658	63,316

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Mid-County Fire Protection District - General

## Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	4.6%	\$2,852	\$ 29,368	6.6%	\$4,092	\$ 36,707	5.5%	\$3,410	\$ 33,325
2022	64,015	4.6	2,945	29,770	6.6	4,225	37,210	5.5	3,521	33,782
2023	66,095	4.6	3,040	30,145	6.6	4,362	37,679	5.5	3,635	34,208
2024	68,243	4.6	3,139	30,490	6.6	4,504	38,110	5.5	3,753	34,599
2025	70,461	4.6	3,241	30,800	6.6	4,650	38,497	5.5	3,875	34,951
2026	72,751	4.6	3,347	31,070	6.6	4,802	38,835	5.5	4,001	35,258
2027	75,115	4.6	3,455	31,296	6.6	4,958	39,118	5.5	4,131	35,515
2028	77,556	4.6	3,568	31,473	6.6	5,119	39,339	5.5	4,266	35,716
2029	80,077	4.6	3,684	31,595	6.6	5,285	39,491	5.5	4,404	35,854
2030	82,680	4.6	3,803	31,655	6.6	5,457	39,566	5.5	4,547	35,922

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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	7.1%	\$4,402	\$ 39,669	8.3%	\$5,146	\$ 44,054	8.7%	\$5,394	\$ 46,032
2022	64,015	7.1	4,545	40,212	8.3	5,313	44,658	8.7	5,569	46,663
2023	66,095	7.1	4,693	40,719	8.3	5,486	45,221	8.7	5,750	47,251
2024	68,243	7.1	4,845	41,185	8.3	5,664	45,738	8.7	5,937	47,791
2025	70,461	7.1	5,003	41,603	8.3	5,848	46,203	8.7	6,130	48,277
2026	72,751	7.1	5,165	41,968	8.3	6,038	46,609	8.7	6,329	48,701
2027	75,115	7.1	5,333	42,274	8.3	6,235	46,949	8.7	6,535	49,056
2028	77,556	7.1	5,506	42,513	8.3	6,437	47,214	8.7	6,747	49,333
2029	80,077	7.1	5,685	42,677	8.3	6,646	47,397	8.7	6,967	49,524
2030	82,680	7.1	5,870	42,758	8.3	6,862	47,488	8.7	7,193	49,619

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	10.3%	\$6,386	\$ 51,389	10.5%	\$6,510	\$ 52,383	12.2%	\$7,564	\$ 58,739
2022	64,015	10.3	6,594	52,093	10.5	6,722	53,101	12.2	7,810	59,544
2023	66,095	10.3	6,808	52,750	10.5	6,940	53,771	12.2	8,064	60,295
2024	68,243	10.3	7,029	53,353	10.5	7,166	54,386	12.2	8,326	60,984
2025	70,461	10.3	7,257	53,895	10.5	7,398	54,939	12.2	8,596	61,604
2026	72,751	10.3	7,493	54,368	10.5	7,639	55,421	12.2	8,876	62,145
2027	75,115	10.3	7,737	54,764	10.5	7,887	55,825	12.2	9,164	62,598
2028	77,556	10.3	7,988	55,074	10.5	8,143	56,141	12.2	9,462	62,952
2029	80,077	10.3	8,248	55,287	10.5	8,408	56,358	12.2	9,769	63,195
2030	82,680	10.3	8,516	55,393	10.5	8,681	56,466	12.2	10,087	63,316

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 62,000	2.7%	\$1,674	\$ 29,368	4.7%	\$2,914	\$ 36,707	3.6%	\$2,232	\$ 33,325
2022	64,015	2.7	1,728	29,770	4.7	3,009	37,210	3.6	2,305	33,782
2023	66,095	2.7	1,785	30,145	4.7	3,106	37,679	3.6	2,379	34,208
2024	68,243	2.7	1,843	30,490	4.7	3,207	38,110	3.6	2,457	34,599
2025	70,461	2.7	1,902	30,800	4.7	3,312	38,497	3.6	2,537	34,951
2026	72,751	2.7	1,964	31,070	4.7	3,419	38,835	3.6	2,619	35,258
2027	75,115	2.7	2,028	31,296	4.7	3,530	39,118	3.6	2,704	35,515
2028	77,556	2.7	2,094	31,473	4.7	3,645	39,339	3.6	2,792	35,716
2029	80,077	2.7	2,162	31,595	4.7	3,764	39,491	3.6	2,883	35,854
2030	82,680	2.7	2,232	31,655	4.7	3,886	39,566	3.6	2,976	35,922

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	
2021	\$ 62,000	5.2%	\$3,224	\$ 39,669	6.4%	\$3,968	\$ 44,054	6.8%	\$4,216	\$ 46,032
2022	64,015	5.2	3,329	40,212	6.4	4,097	44,658	6.8	4,353	46,663
2023	66,095	5.2	3,437	40,719	6.4	4,230	45,221	6.8	4,494	47,251
2024	68,243	5.2	3,549	41,185	6.4	4,368	45,738	6.8	4,641	47,791
2025	70,461	5.2	3,664	41,603	6.4	4,510	46,203	6.8	4,791	48,277
2026	72,751	5.2	3,783	41,968	6.4	4,656	46,609	6.8	4,947	48,701
2027	75,115	5.2	3,906	42,274	6.4	4,807	46,949	6.8	5,108	49,056
2028	77,556	5.2	4,033	42,513	6.4	4,964	47,214	6.8	5,274	49,333
2029	80,077	5.2	4,164	42,677	6.4	5,125	47,397	6.8	5,445	49,524
2030	82,680	5.2	4,299	42,758	6.4	5,292	47,488	6.8	5,622	49,619

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	
2021	\$ 62,000	8.4%	\$5,208	\$ 51,389	8.6%	\$5,332	\$ 52,383	10.3%	\$6,386	\$ 58,739
2022	64,015	8.4	5,377	52,093	8.6	5,505	53,101	10.3	6,594	59,544
2023	66,095	8.4	5,552	52,750	8.6	5,684	53,771	10.3	6,808	60,295
2024	68,243	8.4	5,732	53,353	8.6	5,869	54,386	10.3	7,029	60,984
2025	70,461	8.4	5,919	53,895	8.6	6,060	54,939	10.3	7,257	61,604
2026	72,751	8.4	6,111	54,368	8.6	6,257	55,421	10.3	7,493	62,145
2027	75,115	8.4	6,310	54,764	8.6	6,460	55,825	10.3	7,737	62,598
2028	77,556	8.4	6,515	55,074	8.6	6,670	56,141	10.3	7,988	62,952
2029	80,077	8.4	6,726	55,287	8.6	6,887	56,358	10.3	8,248	63,195
2030	82,680	8.4	6,945	55,393	8.6	7,110	56,466	10.3	8,516	63,316

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

### 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	
2021	\$ 62,000	8.7%	\$5,394	\$ 29,333	10.8%	\$6,696	\$ 36,660	10.6%	\$6,572	\$ 37,780
2022	64,015	8.7	5,569	29,735	10.8	6,914	37,162	10.6	6,786	38,298
2023	66,095	8.7	5,750	30,110	10.8	7,138	37,631	10.6	7,006	38,781
2024	68,243	8.7	5,937	30,454	10.8	7,370	38,061	10.6	7,234	39,224
2025	70,461	8.7	6,130	30,763	10.8	7,610	38,448	10.6	7,469	39,623
2026	72,751	8.7	6,329	31,033	10.8	7,857	38,786	10.6	7,712	39,971
2027	75,115	8.7	6,535	31,259	10.8	8,112	39,069	10.6	7,962	40,262
2028	77,556	8.7	6,747	31,436	10.8	8,376	39,290	10.6	8,221	40,490
2029	80,077	8.7	6,967	31,558	10.8	8,648	39,442	10.6	8,488	40,647
2030	82,680	8.7	7,193	31,618	10.8	8,929	39,517	10.6	8,764	40,725

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	
2021	\$ 62,000	12.1%	\$7,502	\$ 42,995	12.6%	\$7,812	\$ 43,994	13.5%	\$8,370	\$ 48,217
2022	64,015	12.1	7,746	43,584	12.6	8,066	44,597	13.5	8,642	48,878
2023	66,095	12.1	7,997	44,134	12.6	8,328	45,159	13.5	8,923	49,494
2024	68,243	12.1	8,257	44,639	12.6	8,599	45,675	13.5	9,213	50,060
2025	70,461	12.1	8,526	45,093	12.6	8,878	46,139	13.5	9,512	50,569
2026	72,751	12.1	8,803	45,489	12.6	9,167	46,544	13.5	9,821	51,013
2027	75,115	12.1	9,089	45,820	12.6	9,464	46,883	13.5	10,141	51,385
2028	77,556	12.1	9,384	46,079	12.6	9,772	47,148	13.5	10,470	51,675
2029	80,077	12.1	9,689	46,257	12.6	10,090	47,330	13.5	10,810	51,875
2030	82,680	12.1	10,004	46,345	12.6	10,418	47,420	13.5	11,162	51,974

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	
2021	\$ 62,000	14.7%	\$9,114	\$ 51,331	15.1%	\$9,362	\$ 53,433	16.7%	\$10,354	\$ 58,666
2022	64,015	14.7	9,410	52,034	15.1	9,666	54,165	16.7	10,691	59,470
2023	66,095	14.7	9,716	52,690	15.1	9,980	54,848	16.7	11,038	60,220
2024	68,243	14.7	10,032	53,292	15.1	10,305	55,475	16.7	11,397	60,908
2025	70,461	14.7	10,358	53,833	15.1	10,640	56,039	16.7	11,767	61,527
2026	72,751	14.7	10,694	54,306	15.1	10,985	56,531	16.7	12,149	62,067
2027	75,115	14.7	11,042	54,702	15.1	11,342	56,943	16.7	12,544	62,519
2028	77,556	14.7	11,401	55,011	15.1	11,711	57,265	16.7	12,952	62,872
2029	80,077	14.7	11,771	55,224	15.1	12,092	57,486	16.7	13,373	63,115
2030	82,680	14.7	12,154	55,329	15.1	12,485	57,596	16.7	13,808	63,236

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (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	
2021	\$ 62,000	6.8%	\$4,216	\$ 29,333	8.9%	\$5,518	\$ 36,660	8.7%	\$5,394	\$ 37,780
2022	64,015	6.8	4,353	29,735	8.9	5,697	37,162	8.7	5,569	38,298
2023	66,095	6.8	4,494	30,110	8.9	5,882	37,631	8.7	5,750	38,781
2024	68,243	6.8	4,641	30,454	8.9	6,074	38,061	8.7	5,937	39,224
2025	70,461	6.8	4,791	30,763	8.9	6,271	38,448	8.7	6,130	39,623
2026	72,751	6.8	4,947	31,033	8.9	6,475	38,786	8.7	6,329	39,971
2027	75,115	6.8	5,108	31,259	8.9	6,685	39,069	8.7	6,535	40,262
2028	77,556	6.8	5,274	31,436	8.9	6,902	39,290	8.7	6,747	40,490
2029	80,077	6.8	5,445	31,558	8.9	7,127	39,442	8.7	6,967	40,647
2030	82,680	6.8	5,622	31,618	8.9	7,359	39,517	8.7	7,193	40,725

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	
2021	\$ 62,000	10.2%	\$6,324	\$ 42,995	10.7%	\$6,634	\$ 43,994	11.6%	\$7,192	\$ 48,217
2022	64,015	10.2	6,530	43,584	10.7	6,850	44,597	11.6	7,426	48,878
2023	66,095	10.2	6,742	44,134	10.7	7,072	45,159	11.6	7,667	49,494
2024	68,243	10.2	6,961	44,639	10.7	7,302	45,675	11.6	7,916	50,060
2025	70,461	10.2	7,187	45,093	10.7	7,539	46,139	11.6	8,173	50,569
2026	72,751	10.2	7,421	45,489	10.7	7,784	46,544	11.6	8,439	51,013
2027	75,115	10.2	7,662	45,820	10.7	8,037	46,883	11.6	8,713	51,385
2028	77,556	10.2	7,911	46,079	10.7	8,298	47,148	11.6	8,996	51,675
2029	80,077	10.2	8,168	46,257	10.7	8,568	47,330	11.6	9,289	51,875
2030	82,680	10.2	8,433	46,345	10.7	8,847	47,420	11.6	9,591	51,974

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	
2021	\$ 62,000	12.8%	\$7,936	\$ 51,331	13.2%	\$8,184	\$ 53,433	14.8%	\$9,176	\$ 58,666
2022	64,015	12.8	8,194	52,034	13.2	8,450	54,165	14.8	9,474	59,470
2023	66,095	12.8	8,460	52,690	13.2	8,725	54,848	14.8	9,782	60,220
2024	68,243	12.8	8,735	53,292	13.2	9,008	55,475	14.8	10,100	60,908
2025	70,461	12.8	9,019	53,833	13.2	9,301	56,039	14.8	10,428	61,527
2026	72,751	12.8	9,312	54,306	13.2	9,603	56,531	14.8	10,767	62,067
2027	75,115	12.8	9,615	54,702	13.2	9,915	56,943	14.8	11,117	62,519
2028	77,556	12.8	9,927	55,011	13.2	10,237	57,265	14.8	11,478	62,872
2029	80,077	12.8	10,250	55,224	13.2	10,570	57,486	14.8	11,851	63,115
2030	82,680	12.8	10,583	55,329	13.2	10,914	57,596	14.8	12,237	63,236

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	4.9%	\$3,038	\$ 29,333	7.0%	\$4,340	\$ 36,660	6.8%	\$4,216	\$ 37,780
2022	64,015	4.9	3,137	29,735	7.0	4,481	37,162	6.8	4,353	38,298
2023	66,095	4.9	3,239	30,110	7.0	4,627	37,631	6.8	4,494	38,781
2024	68,243	4.9	3,344	30,454	7.0	4,777	38,061	6.8	4,641	39,224
2025	70,461	4.9	3,453	30,763	7.0	4,932	38,448	6.8	4,791	39,623
2026	72,751	4.9	3,565	31,033	7.0	5,093	38,786	6.8	4,947	39,971
2027	75,115	4.9	3,681	31,259	7.0	5,258	39,069	6.8	5,108	40,262
2028	77,556	4.9	3,800	31,436	7.0	5,429	39,290	6.8	5,274	40,490
2029	80,077	4.9	3,924	31,558	7.0	5,605	39,442	6.8	5,445	40,647
2030	82,680	4.9	4,051	31,618	7.0	5,788	39,517	6.8	5,622	40,725

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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	8.3%	\$5,146	\$ 42,995	8.8%	\$5,456	\$ 43,994	9.7%	\$6,014	\$ 48,217
2022	64,015	8.3	5,313	43,584	8.8	5,633	44,597	9.7	6,209	48,878
2023	66,095	8.3	5,486	44,134	8.8	5,816	45,159	9.7	6,411	49,494
2024	68,243	8.3	5,664	44,639	8.8	6,005	45,675	9.7	6,620	50,060
2025	70,461	8.3	5,848	45,093	8.8	6,201	46,139	9.7	6,835	50,569
2026	72,751	8.3	6,038	45,489	8.8	6,402	46,544	9.7	7,057	51,013
2027	75,115	8.3	6,235	45,820	8.8	6,610	46,883	9.7	7,286	51,385
2028	77,556	8.3	6,437	46,079	8.8	6,825	47,148	9.7	7,523	51,675
2029	80,077	8.3	6,646	46,257	8.8	7,047	47,330	9.7	7,767	51,875
2030	82,680	8.3	6,862	46,345	8.8	7,276	47,420	9.7	8,020	51,974

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	10.9%	\$6,758	\$ 51,331	11.3%	\$7,006	\$ 53,433	12.9%	\$7,998	\$ 58,666
2022	64,015	10.9	6,978	52,034	11.3	7,234	54,165	12.9	8,258	59,470
2023	66,095	10.9	7,204	52,690	11.3	7,469	54,848	12.9	8,526	60,220
2024	68,243	10.9	7,438	53,292	11.3	7,711	55,475	12.9	8,803	60,908
2025	70,461	10.9	7,680	53,833	11.3	7,962	56,039	12.9	9,089	61,527
2026	72,751	10.9	7,930	54,306	11.3	8,221	56,531	12.9	9,385	62,067
2027	75,115	10.9	8,188	54,702	11.3	8,488	56,943	12.9	9,690	62,519
2028	77,556	10.9	8,454	55,011	11.3	8,764	57,265	12.9	10,005	62,872
2029	80,077	10.9	8,728	55,224	11.3	9,049	57,486	12.9	10,330	63,115
2030	82,680	10.9	9,012	55,329	11.3	9,343	57,596	12.9	10,666	63,236

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2021	\$ 62,000	3.0%	\$1,860	\$ 29,333	5.1%	\$3,162	\$ 36,660	4.9%	\$3,038	\$ 37,780
2022	64,015	3.0	1,920	29,735	5.1	3,265	37,162	4.9	3,137	38,298
2023	66,095	3.0	1,983	30,110	5.1	3,371	37,631	4.9	3,239	38,781
2024	68,243	3.0	2,047	30,454	5.1	3,480	38,061	4.9	3,344	39,224
2025	70,461	3.0	2,114	30,763	5.1	3,594	38,448	4.9	3,453	39,623
2026	72,751	3.0	2,183	31,033	5.1	3,710	38,786	4.9	3,565	39,971
2027	75,115	3.0	2,253	31,259	5.1	3,831	39,069	4.9	3,681	40,262
2028	77,556	3.0	2,327	31,436	5.1	3,955	39,290	4.9	3,800	40,490
2029	80,077	3.0	2,402	31,558	5.1	4,084	39,442	4.9	3,924	40,647
2030	82,680	3.0	2,480	31,618	5.1	4,217	39,517	4.9	4,051	40,725

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 62,000	6.4%	\$3,968	\$ 42,995	6.9%	\$4,278	\$ 43,994	7.8%	\$4,836	\$ 48,217
2022	64,015	6.4	4,097	43,584	6.9	4,417	44,597	7.8	4,993	48,878
2023	66,095	6.4	4,230	44,134	6.9	4,561	45,159	7.8	5,155	49,494
2024	68,243	6.4	4,368	44,639	6.9	4,709	45,675	7.8	5,323	50,060
2025	70,461	6.4	4,510	45,093	6.9	4,862	46,139	7.8	5,496	50,569
2026	72,751	6.4	4,656	45,489	6.9	5,020	46,544	7.8	5,675	51,013
2027	75,115	6.4	4,807	45,820	6.9	5,183	46,883	7.8	5,859	51,385
2028	77,556	6.4	4,964	46,079	6.9	5,351	47,148	7.8	6,049	51,675
2029	80,077	6.4	5,125	46,257	6.9	5,525	47,330	7.8	6,246	51,875
2030	82,680	6.4	5,292	46,345	6.9	5,705	47,420	7.8	6,449	51,974

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 62,000	9.0%	\$5,580	\$ 51,331	9.4%	\$5,828	\$ 53,433	11.0%	\$6,820	\$ 58,666
2022	64,015	9.0	5,761	52,034	9.4	6,017	54,165	11.0	7,042	59,470
2023	66,095	9.0	5,949	52,690	9.4	6,213	54,848	11.0	7,270	60,220
2024	68,243	9.0	6,142	53,292	9.4	6,415	55,475	11.0	7,507	60,908
2025	70,461	9.0	6,341	53,833	9.4	6,623	56,039	11.0	7,751	61,527
2026	72,751	9.0	6,548	54,306	9.4	6,839	56,531	11.0	8,003	62,067
2027	75,115	9.0	6,760	54,702	9.4	7,061	56,943	11.0	8,263	62,519
2028	77,556	9.0	6,980	55,011	9.4	7,290	57,265	11.0	8,531	62,872
2029	80,077	9.0	7,207	55,224	9.4	7,527	57,486	11.0	8,808	63,115
2030	82,680	9.0	7,441	55,329	9.4	7,772	57,596	11.0	9,095	63,236

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

### 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	
2021	\$ 62,000	9.0%	\$5,580	\$ 30,282	11.1%	\$6,882	\$ 37,868	10.9%	\$6,758	\$ 39,025
2022	64,015	9.0	5,761	30,697	11.1	7,106	38,387	10.9	6,978	39,560
2023	66,095	9.0	5,949	31,084	11.1	7,337	38,871	10.9	7,204	40,059
2024	68,243	9.0	6,142	31,439	11.1	7,575	39,315	10.9	7,438	40,517
2025	70,461	9.0	6,341	31,758	11.1	7,821	39,714	10.9	7,680	40,929
2026	72,751	9.0	6,548	32,037	11.1	8,075	40,063	10.9	7,930	41,288
2027	75,115	9.0	6,760	32,270	11.1	8,338	40,355	10.9	8,188	41,589
2028	77,556	9.0	6,980	32,452	11.1	8,609	40,583	10.9	8,454	41,824
2029	80,077	9.0	7,207	32,577	11.1	8,889	40,740	10.9	8,728	41,986
2030	82,680	9.0	7,441	32,639	11.1	9,177	40,818	10.9	9,012	42,066

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	
2021	\$ 62,000	12.5%	\$7,750	\$ 44,425	13.1%	\$8,122	\$ 45,440	14.0%	\$8,680	\$ 49,811
2022	64,015	12.5	8,002	45,034	13.1	8,386	46,063	14.0	8,962	50,493
2023	66,095	12.5	8,262	45,602	13.1	8,658	46,644	14.0	9,253	51,130
2024	68,243	12.5	8,530	46,123	13.1	8,940	47,177	14.0	9,554	51,715
2025	70,461	12.5	8,808	46,592	13.1	9,230	47,656	14.0	9,865	52,240
2026	72,751	12.5	9,094	47,001	13.1	9,530	48,075	14.0	10,185	52,699
2027	75,115	12.5	9,389	47,343	13.1	9,840	48,425	14.0	10,516	53,083
2028	77,556	12.5	9,695	47,611	13.1	10,160	48,699	14.0	10,858	53,383
2029	80,077	12.5	10,010	47,795	13.1	10,490	48,887	14.0	11,211	53,589
2030	82,680	12.5	10,335	47,886	13.1	10,831	48,980	14.0	11,575	53,691

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	
2021	\$ 62,000	15.2%	\$9,424	\$ 53,014	15.6%	\$9,672	\$ 55,200	17.2%	\$10,664	\$ 60,579
2022	64,015	15.2	9,730	53,740	15.6	9,986	55,956	17.2	11,011	61,409
2023	66,095	15.2	10,046	54,418	15.6	10,311	56,662	17.2	11,368	62,183
2024	68,243	15.2	10,373	55,040	15.6	10,646	57,310	17.2	11,738	62,894
2025	70,461	15.2	10,710	55,599	15.6	10,992	57,892	17.2	12,119	63,533
2026	72,751	15.2	11,058	56,087	15.6	11,349	58,400	17.2	12,513	64,091
2027	75,115	15.2	11,417	56,496	15.6	11,718	58,825	17.2	12,920	64,558
2028	77,556	15.2	11,789	56,815	15.6	12,099	59,157	17.2	13,340	64,923
2029	80,077	15.2	12,172	57,035	15.6	12,492	59,386	17.2	13,773	65,174
2030	82,680	15.2	12,567	57,144	15.6	12,898	59,499	17.2	14,221	65,298

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (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	
2021	\$ 62,000	7.1%	\$4,402	\$ 30,282	9.2%	\$5,704	\$ 37,868	9.0%	\$5,580	\$ 39,025
2022	64,015	7.1	4,545	30,697	9.2	5,889	38,387	9.0	5,761	39,560
2023	66,095	7.1	4,693	31,084	9.2	6,081	38,871	9.0	5,949	40,059
2024	68,243	7.1	4,845	31,439	9.2	6,278	39,315	9.0	6,142	40,517
2025	70,461	7.1	5,003	31,758	9.2	6,482	39,714	9.0	6,341	40,929
2026	72,751	7.1	5,165	32,037	9.2	6,693	40,063	9.0	6,548	41,288
2027	75,115	7.1	5,333	32,270	9.2	6,911	40,355	9.0	6,760	41,589
2028	77,556	7.1	5,506	32,452	9.2	7,135	40,583	9.0	6,980	41,824
2029	80,077	7.1	5,685	32,577	9.2	7,367	40,740	9.0	7,207	41,986
2030	82,680	7.1	5,870	32,639	9.2	7,607	40,818	9.0	7,441	42,066

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	
2021	\$ 62,000	10.6%	\$6,572	\$ 44,425	11.2%	\$6,944	\$ 45,440	12.1%	\$7,502	\$ 49,811
2022	64,015	10.6	6,786	45,034	11.2	7,170	46,063	12.1	7,746	50,493
2023	66,095	10.6	7,006	45,602	11.2	7,403	46,644	12.1	7,997	51,130
2024	68,243	10.6	7,234	46,123	11.2	7,643	47,177	12.1	8,257	51,715
2025	70,461	10.6	7,469	46,592	11.2	7,892	47,656	12.1	8,526	52,240
2026	72,751	10.6	7,712	47,001	11.2	8,148	48,075	12.1	8,803	52,699
2027	75,115	10.6	7,962	47,343	11.2	8,413	48,425	12.1	9,089	53,083
2028	77,556	10.6	8,221	47,611	11.2	8,686	48,699	12.1	9,384	53,383
2029	80,077	10.6	8,488	47,795	11.2	8,969	48,887	12.1	9,689	53,589
2030	82,680	10.6	8,764	47,886	11.2	9,260	48,980	12.1	10,004	53,691

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	
2021	\$ 62,000	13.3%	\$8,246	\$ 53,014	13.7%	\$8,494	\$ 55,200	15.3%	\$9,486	\$ 60,579
2022	64,015	13.3	8,514	53,740	13.7	8,770	55,956	15.3	9,794	61,409
2023	66,095	13.3	8,791	54,418	13.7	9,055	56,662	15.3	10,113	62,183
2024	68,243	13.3	9,076	55,040	13.7	9,349	57,310	15.3	10,441	62,894
2025	70,461	13.3	9,371	55,599	13.7	9,653	57,892	15.3	10,781	63,533
2026	72,751	13.3	9,676	56,087	13.7	9,967	58,400	15.3	11,131	64,091
2027	75,115	13.3	9,990	56,496	13.7	10,291	58,825	15.3	11,493	64,558
2028	77,556	13.3	10,315	56,815	13.7	10,625	59,157	15.3	11,866	64,923
2029	80,077	13.3	10,650	57,035	13.7	10,971	59,386	15.3	12,252	65,174
2030	82,680	13.3	10,996	57,144	13.7	11,327	59,499	15.3	12,650	65,298

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Mid-County Fire Protection District - General

## Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	5.2%	\$3,224	\$ 30,282	7.3%	\$4,526	\$ 37,868	7.1%	\$4,402	\$ 39,025
2022	64,015	5.2	3,329	30,697	7.3	4,673	38,387	7.1	4,545	39,560
2023	66,095	5.2	3,437	31,084	7.3	4,825	38,871	7.1	4,693	40,059
2024	68,243	5.2	3,549	31,439	7.3	4,982	39,315	7.1	4,845	40,517
2025	70,461	5.2	3,664	31,758	7.3	5,144	39,714	7.1	5,003	40,929
2026	72,751	5.2	3,783	32,037	7.3	5,311	40,063	7.1	5,165	41,288
2027	75,115	5.2	3,906	32,270	7.3	5,483	40,355	7.1	5,333	41,589
2028	77,556	5.2	4,033	32,452	7.3	5,662	40,583	7.1	5,506	41,824
2029	80,077	5.2	4,164	32,577	7.3	5,846	40,740	7.1	5,685	41,986
2030	82,680	5.2	4,299	32,639	7.3	6,036	40,818	7.1	5,870	42,066

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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	8.7%	\$5,394	\$ 44,425	9.3%	\$5,766	\$ 45,440	10.2%	\$6,324	\$ 49,811
2022	64,015	8.7	5,569	45,034	9.3	5,953	46,063	10.2	6,530	50,493
2023	66,095	8.7	5,750	45,602	9.3	6,147	46,644	10.2	6,742	51,130
2024	68,243	8.7	5,937	46,123	9.3	6,347	47,177	10.2	6,961	51,715
2025	70,461	8.7	6,130	46,592	9.3	6,553	47,656	10.2	7,187	52,240
2026	72,751	8.7	6,329	47,001	9.3	6,766	48,075	10.2	7,421	52,699
2027	75,115	8.7	6,535	47,343	9.3	6,986	48,425	10.2	7,662	53,083
2028	77,556	8.7	6,747	47,611	9.3	7,213	48,699	10.2	7,911	53,383
2029	80,077	8.7	6,967	47,795	9.3	7,447	48,887	10.2	8,168	53,589
2030	82,680	8.7	7,193	47,886	9.3	7,689	48,980	10.2	8,433	53,691

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2021	\$ 62,000	11.4%	\$7,068	\$ 53,014	11.8%	\$7,316	\$ 55,200	13.4%	\$8,308	\$ 60,579
2022	64,015	11.4	7,298	53,740	11.8	7,554	55,956	13.4	8,578	61,409
2023	66,095	11.4	7,535	54,418	11.8	7,799	56,662	13.4	8,857	62,183
2024	68,243	11.4	7,780	55,040	11.8	8,053	57,310	13.4	9,145	62,894
2025	70,461	11.4	8,033	55,599	11.8	8,314	57,892	13.4	9,442	63,533
2026	72,751	11.4	8,294	56,087	11.8	8,585	58,400	13.4	9,749	64,091
2027	75,115	11.4	8,563	56,496	11.8	8,864	58,825	13.4	10,065	64,558
2028	77,556	11.4	8,841	56,815	11.8	9,152	59,157	13.4	10,393	64,923
2029	80,077	11.4	9,129	57,035	11.8	9,449	59,386	13.4	10,730	65,174
2030	82,680	11.4	9,426	57,144	11.8	9,756	59,499	13.4	11,079	65,298

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - General

## Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (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	
2021	\$ 62,000	3.3%	\$2,046	\$ 30,282	5.4%	\$3,348	\$ 37,868	5.2%	\$3,224	\$ 39,025
2022	64,015	3.3	2,112	30,697	5.4	3,457	38,387	5.2	3,329	39,560
2023	66,095	3.3	2,181	31,084	5.4	3,569	38,871	5.2	3,437	40,059
2024	68,243	3.3	2,252	31,439	5.4	3,685	39,315	5.2	3,549	40,517
2025	70,461	3.3	2,325	31,758	5.4	3,805	39,714	5.2	3,664	40,929
2026	72,751	3.3	2,401	32,037	5.4	3,929	40,063	5.2	3,783	41,288
2027	75,115	3.3	2,479	32,270	5.4	4,056	40,355	5.2	3,906	41,589
2028	77,556	3.3	2,559	32,452	5.4	4,188	40,583	5.2	4,033	41,824
2029	80,077	3.3	2,643	32,577	5.4	4,324	40,740	5.2	4,164	41,986
2030	82,680	3.3	2,728	32,639	5.4	4,465	40,818	5.2	4,299	42,066

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	
2021	\$ 62,000	6.8%	\$4,216	\$ 44,425	7.4%	\$4,588	\$ 45,440	8.3%	\$5,146	\$ 49,811
2022	64,015	6.8	4,353	45,034	7.4	4,737	46,063	8.3	5,313	50,493
2023	66,095	6.8	4,494	45,602	7.4	4,891	46,644	8.3	5,486	51,130
2024	68,243	6.8	4,641	46,123	7.4	5,050	47,177	8.3	5,664	51,715
2025	70,461	6.8	4,791	46,592	7.4	5,214	47,656	8.3	5,848	52,240
2026	72,751	6.8	4,947	47,001	7.4	5,384	48,075	8.3	6,038	52,699
2027	75,115	6.8	5,108	47,343	7.4	5,559	48,425	8.3	6,235	53,083
2028	77,556	6.8	5,274	47,611	7.4	5,739	48,699	8.3	6,437	53,383
2029	80,077	6.8	5,445	47,795	7.4	5,926	48,887	8.3	6,646	53,589
2030	82,680	6.8	5,622	47,886	7.4	6,118	48,980	8.3	6,862	53,691

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	
2021	\$ 62,000	9.5%	\$5,890	\$ 53,014	9.9%	\$6,138	\$ 55,200	11.5%	\$7,130	\$ 60,579
2022	64,015	9.5	6,081	53,740	9.9	6,337	55,956	11.5	7,362	61,409
2023	66,095	9.5	6,279	54,418	9.9	6,543	56,662	11.5	7,601	62,183
2024	68,243	9.5	6,483	55,040	9.9	6,756	57,310	11.5	7,848	62,894
2025	70,461	9.5	6,694	55,599	9.9	6,976	57,892	11.5	8,103	63,533
2026	72,751	9.5	6,911	56,087	9.9	7,202	58,400	11.5	8,366	64,091
2027	75,115	9.5	7,136	56,496	9.9	7,436	58,825	11.5	8,638	64,558
2028	77,556	9.5	7,368	56,815	9.9	7,678	59,157	11.5	8,919	64,923
2029	80,077	9.5	7,607	57,035	9.9	7,928	59,386	11.5	9,209	65,174
2030	82,680	9.5	7,855	57,144	9.9	8,185	59,499	11.5	9,508	65,298

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	10.1%	\$142,410	\$ 265,502	12.3%	\$173,430	\$ 331,876	12.1%	\$170,610	\$ 328,328
2022	1,455,825	10.1	147,038	269,139	12.3	179,066	336,423	12.1	176,155	332,826
2023	1,503,139	10.1	151,817	272,533	12.3	184,886	340,665	12.1	181,880	337,023
2024	1,551,991	10.1	156,751	275,649	12.3	190,895	344,560	12.1	187,791	340,876
2025	1,602,431	10.1	161,846	278,450	12.3	197,099	348,061	12.1	193,894	344,340
2026	1,654,510	10.1	167,106	280,895	12.3	203,505	351,118	12.1	200,196	347,364
2027	1,708,282	10.1	172,536	282,941	12.3	210,119	353,676	12.1	206,702	349,894
2028	1,763,801	10.1	178,144	284,540	12.3	216,948	355,675	12.1	213,420	351,871
2029	1,821,125	10.1	183,934	285,640	12.3	223,998	357,050	12.1	220,356	353,232
2030	1,880,312	10.1	189,912	286,185	12.3	231,278	357,732	12.1	227,518	353,906

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	
2021	\$ 1,410,000	13.8%	\$194,580	\$ 378,970	14.5%	\$204,450	\$ 398,246	15.6%	\$219,960	\$ 429,666
2022	1,455,825	13.8	200,904	384,162	14.5	211,095	403,702	15.6	227,109	435,552
2023	1,503,139	13.8	207,433	389,006	14.5	217,955	408,792	15.6	234,490	441,044
2024	1,551,991	13.8	214,175	393,453	14.5	225,039	413,466	15.6	242,111	446,086
2025	1,602,431	13.8	221,135	397,451	14.5	232,352	417,667	15.6	249,979	450,619
2026	1,654,510	13.8	228,322	400,942	14.5	239,904	421,335	15.6	258,104	454,576
2027	1,708,282	13.8	235,743	403,863	14.5	247,701	424,404	15.6	266,492	457,887
2028	1,763,801	13.8	243,405	406,146	14.5	255,751	426,803	15.6	275,153	460,475
2029	1,821,125	13.8	251,315	407,717	14.5	264,063	428,453	15.6	284,096	462,256
2030	1,880,312	13.8	259,483	408,496	14.5	272,645	429,271	15.6	293,329	463,139

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	
2021	\$ 1,410,000	16.8%	\$236,880	\$ 464,635	17.3%	\$243,930	\$ 480,395	19.0%	\$267,900	\$ 531,023
2022	1,455,825	16.8	244,579	471,000	17.3	251,858	486,976	19.0	276,607	538,298
2023	1,503,139	16.8	252,527	476,939	17.3	260,043	493,116	19.0	285,596	545,086
2024	1,551,991	16.8	260,734	482,392	17.3	268,494	498,754	19.0	294,878	551,318
2025	1,602,431	16.8	269,208	487,294	17.3	277,221	503,822	19.0	304,462	556,920
2026	1,654,510	16.8	277,958	491,574	17.3	286,230	508,247	19.0	314,357	561,811
2027	1,708,282	16.8	286,991	495,155	17.3	295,533	511,949	19.0	324,574	565,903
2028	1,763,801	16.8	296,319	497,953	17.3	305,138	514,842	19.0	335,122	569,101
2029	1,821,125	16.8	305,949	499,879	17.3	315,055	516,833	19.0	346,014	571,302
2030	1,880,312	16.8	315,892	500,834	17.3	325,294	517,820	19.0	357,259	572,393

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	8.2%	\$115,620	\$ 265,502	10.4%	\$146,640	\$ 331,876	10.2%	\$143,820	\$ 328,328
2022	1,455,825	8.2	119,378	269,139	10.4	151,406	336,423	10.2	148,494	332,826
2023	1,503,139	8.2	123,257	272,533	10.4	156,326	340,665	10.2	153,320	337,023
2024	1,551,991	8.2	127,263	275,649	10.4	161,407	344,560	10.2	158,303	340,876
2025	1,602,431	8.2	131,399	278,450	10.4	166,653	348,061	10.2	163,448	344,340
2026	1,654,510	8.2	135,670	280,895	10.4	172,069	351,118	10.2	168,760	347,364
2027	1,708,282	8.2	140,079	282,941	10.4	177,661	353,676	10.2	174,245	349,894
2028	1,763,801	8.2	144,632	284,540	10.4	183,435	355,675	10.2	179,908	351,871
2029	1,821,125	8.2	149,332	285,640	10.4	189,397	357,050	10.2	185,755	353,232
2030	1,880,312	8.2	154,186	286,185	10.4	195,552	357,732	10.2	191,792	353,906

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	
2021	\$ 1,410,000	11.9%	\$167,790	\$ 378,970	12.6%	\$177,660	\$ 398,246	13.7%	\$193,170	\$ 429,666
2022	1,455,825	11.9	173,243	384,162	12.6	183,434	403,702	13.7	199,448	435,552
2023	1,503,139	11.9	178,874	389,006	12.6	189,396	408,792	13.7	205,930	441,044
2024	1,551,991	11.9	184,687	393,453	12.6	195,551	413,466	13.7	212,623	446,086
2025	1,602,431	11.9	190,689	397,451	12.6	201,906	417,667	13.7	219,533	450,619
2026	1,654,510	11.9	196,887	400,942	12.6	208,468	421,335	13.7	226,668	454,576
2027	1,708,282	11.9	203,286	403,863	12.6	215,244	424,404	13.7	234,035	457,887
2028	1,763,801	11.9	209,892	406,146	12.6	222,239	426,803	13.7	241,641	460,475
2029	1,821,125	11.9	216,714	407,717	12.6	229,462	428,453	13.7	249,494	462,256
2030	1,880,312	11.9	223,757	408,496	12.6	236,919	429,271	13.7	257,603	463,139

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	
2021	\$ 1,410,000	14.9%	\$210,090	\$ 464,635	15.4%	\$217,140	\$ 480,395	17.1%	\$241,110	\$ 531,023
2022	1,455,825	14.9	216,918	471,000	15.4	224,197	486,976	17.1	248,946	538,298
2023	1,503,139	14.9	223,968	476,939	15.4	231,483	493,116	17.1	257,037	545,086
2024	1,551,991	14.9	231,247	482,392	15.4	239,007	498,754	17.1	265,390	551,318
2025	1,602,431	14.9	238,762	487,294	15.4	246,774	503,822	17.1	274,016	556,920
2026	1,654,510	14.9	246,522	491,574	15.4	254,795	508,247	17.1	282,921	561,811
2027	1,708,282	14.9	254,534	495,155	15.4	263,075	511,949	17.1	292,116	565,903
2028	1,763,801	14.9	262,806	497,953	15.4	271,625	514,842	17.1	301,610	569,101
2029	1,821,125	14.9	271,348	499,879	15.4	280,453	516,833	17.1	311,412	571,302
2030	1,880,312	14.9	280,166	500,834	15.4	289,568	517,820	17.1	321,533	572,393

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	6.3%	\$88,830	\$ 265,502	8.5%	\$119,850	\$ 331,876	8.3%	\$117,030	\$ 328,328
2022	1,455,825	6.3	91,717	269,139	8.5	123,745	336,423	8.3	120,833	332,826
2023	1,503,139	6.3	94,698	272,533	8.5	127,767	340,665	8.3	124,761	337,023
2024	1,551,991	6.3	97,775	275,649	8.5	131,919	344,560	8.3	128,815	340,876
2025	1,602,431	6.3	100,953	278,450	8.5	136,207	348,061	8.3	133,002	344,340
2026	1,654,510	6.3	104,234	280,895	8.5	140,633	351,118	8.3	137,324	347,364
2027	1,708,282	6.3	107,622	282,941	8.5	145,204	353,676	8.3	141,787	349,894
2028	1,763,801	6.3	111,119	284,540	8.5	149,923	355,675	8.3	146,395	351,871
2029	1,821,125	6.3	114,731	285,640	8.5	154,796	357,050	8.3	151,153	353,232
2030	1,880,312	6.3	118,460	286,185	8.5	159,827	357,732	8.3	156,066	353,906

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	
2021	\$ 1,410,000	10.0%	\$141,000	\$ 378,970	10.7%	\$150,870	\$ 398,246	11.8%	\$166,380	\$ 429,666
2022	1,455,825	10.0	145,583	384,162	10.7	155,773	403,702	11.8	171,787	435,552
2023	1,503,139	10.0	150,314	389,006	10.7	160,836	408,792	11.8	177,370	441,044
2024	1,551,991	10.0	155,199	393,453	10.7	166,063	413,466	11.8	183,135	446,086
2025	1,602,431	10.0	160,243	397,451	10.7	171,460	417,667	11.8	189,087	450,619
2026	1,654,510	10.0	165,451	400,942	10.7	177,033	421,335	11.8	195,232	454,576
2027	1,708,282	10.0	170,828	403,863	10.7	182,786	424,404	11.8	201,577	457,887
2028	1,763,801	10.0	176,380	406,146	10.7	188,727	426,803	11.8	208,129	460,475
2029	1,821,125	10.0	182,113	407,717	10.7	194,860	428,453	11.8	214,893	462,256
2030	1,880,312	10.0	188,031	408,496	10.7	201,193	429,271	11.8	221,877	463,139

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	
2021	\$ 1,410,000	13.0%	\$183,300	\$ 464,635	13.5%	\$190,350	\$ 480,395	15.2%	\$214,320	\$ 531,023
2022	1,455,825	13.0	189,257	471,000	13.5	196,536	486,976	15.2	221,285	538,298
2023	1,503,139	13.0	195,408	476,939	13.5	202,924	493,116	15.2	228,477	545,086
2024	1,551,991	13.0	201,759	482,392	13.5	209,519	498,754	15.2	235,903	551,318
2025	1,602,431	13.0	208,316	487,294	13.5	216,328	503,822	15.2	243,570	556,920
2026	1,654,510	13.0	215,086	491,574	13.5	223,359	508,247	15.2	251,486	561,811
2027	1,708,282	13.0	222,077	495,155	13.5	230,618	511,949	15.2	259,659	565,903
2028	1,763,801	13.0	229,294	497,953	13.5	238,113	514,842	15.2	268,098	569,101
2029	1,821,125	13.0	236,746	499,879	13.5	245,852	516,833	15.2	276,811	571,302
2030	1,880,312	13.0	244,441	500,834	13.5	253,842	517,820	15.2	285,807	572,393

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	4.4%	\$62,040	\$ 265,502	6.6%	\$93,060	\$ 331,876	6.4%	\$90,240	\$ 328,328
2022	1,455,825	4.4	64,056	269,139	6.6	96,084	336,423	6.4	93,173	332,826
2023	1,503,139	4.4	66,138	272,533	6.6	99,207	340,665	6.4	96,201	337,023
2024	1,551,991	4.4	68,288	275,649	6.6	102,431	344,560	6.4	99,327	340,876
2025	1,602,431	4.4	70,507	278,450	6.6	105,760	348,061	6.4	102,556	344,340
2026	1,654,510	4.4	72,798	280,895	6.6	109,198	351,118	6.4	105,889	347,364
2027	1,708,282	4.4	75,164	282,941	6.6	112,747	353,676	6.4	109,330	349,894
2028	1,763,801	4.4	77,607	284,540	6.6	116,411	355,675	6.4	112,883	351,871
2029	1,821,125	4.4	80,130	285,640	6.6	120,194	357,050	6.4	116,552	353,232
2030	1,880,312	4.4	82,734	286,185	6.6	124,101	357,732	6.4	120,340	353,906

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	
2021	\$ 1,410,000	8.1%	\$114,210	\$ 378,970	8.8%	\$124,080	\$ 398,246	9.9%	\$139,590	\$ 429,666
2022	1,455,825	8.1	117,922	384,162	8.8	128,113	403,702	9.9	144,127	435,552
2023	1,503,139	8.1	121,754	389,006	8.8	132,276	408,792	9.9	148,811	441,044
2024	1,551,991	8.1	125,711	393,453	8.8	136,575	413,466	9.9	153,647	446,086
2025	1,602,431	8.1	129,797	397,451	8.8	141,014	417,667	9.9	158,641	450,619
2026	1,654,510	8.1	134,015	400,942	8.8	145,597	421,335	9.9	163,796	454,576
2027	1,708,282	8.1	138,371	403,863	8.8	150,329	424,404	9.9	169,120	457,887
2028	1,763,801	8.1	142,868	406,146	8.8	155,214	426,803	9.9	174,616	460,475
2029	1,821,125	8.1	147,511	407,717	8.8	160,259	428,453	9.9	180,291	462,256
2030	1,880,312	8.1	152,305	408,496	8.8	165,467	429,271	9.9	186,151	463,139

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	
2021	\$ 1,410,000	11.1%	\$156,510	\$ 464,635	11.6%	\$163,560	\$ 480,395	13.3%	\$187,530	\$ 531,023
2022	1,455,825	11.1	161,597	471,000	11.6	168,876	486,976	13.3	193,625	538,298
2023	1,503,139	11.1	166,848	476,939	11.6	174,364	493,116	13.3	199,917	545,086
2024	1,551,991	11.1	172,271	482,392	11.6	180,031	498,754	13.3	206,415	551,318
2025	1,602,431	11.1	177,870	487,294	11.6	185,882	503,822	13.3	213,123	556,920
2026	1,654,510	11.1	183,651	491,574	11.6	191,923	508,247	13.3	220,050	561,811
2027	1,708,282	11.1	189,619	495,155	11.6	198,161	511,949	13.3	227,202	565,903
2028	1,763,801	11.1	195,782	497,953	11.6	204,601	514,842	13.3	234,586	569,101
2029	1,821,125	11.1	202,145	499,879	11.6	211,251	516,833	13.3	242,210	571,302
2030	1,880,312	11.1	208,715	500,834	11.6	218,116	517,820	13.3	250,081	572,393

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	10.4%	\$146,640	\$ 273,406	12.7%	\$179,070	\$ 341,714	12.5%	\$176,250	\$ 338,365
2022	1,455,825	10.4	151,406	277,152	12.7	184,890	346,395	12.5	181,978	343,001
2023	1,503,139	10.4	156,326	280,647	12.7	190,899	350,763	12.5	187,892	347,326
2024	1,551,991	10.4	161,407	283,856	12.7	197,103	354,773	12.5	193,999	351,297
2025	1,602,431	10.4	166,653	286,740	12.7	203,509	358,378	12.5	200,304	354,866
2026	1,654,510	10.4	172,069	289,258	12.7	210,123	361,525	12.5	206,814	357,983
2027	1,708,282	10.4	177,661	291,365	12.7	216,952	364,158	12.5	213,535	360,591
2028	1,763,801	10.4	183,435	293,012	12.7	224,003	366,216	12.5	220,475	362,629
2029	1,821,125	10.4	189,397	294,145	12.7	231,283	367,632	12.5	227,641	364,031
2030	1,880,312	10.4	195,552	294,707	12.7	238,800	368,334	12.5	235,039	364,726

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	
2021	\$ 1,410,000	14.3%	\$201,630	\$ 390,453	15.1%	\$212,910	\$ 410,088	16.1%	\$227,010	\$ 442,577
2022	1,455,825	14.3	208,183	395,802	15.1	219,830	415,706	16.1	234,388	448,640
2023	1,503,139	14.3	214,949	400,793	15.1	226,974	420,948	16.1	242,005	454,297
2024	1,551,991	14.3	221,935	405,375	15.1	234,351	425,761	16.1	249,871	459,491
2025	1,602,431	14.3	229,148	409,494	15.1	241,967	430,087	16.1	257,991	464,160
2026	1,654,510	14.3	236,595	413,090	15.1	249,831	433,864	16.1	266,376	468,236
2027	1,708,282	14.3	244,284	416,099	15.1	257,951	437,024	16.1	275,033	471,647
2028	1,763,801	14.3	252,224	418,451	15.1	266,334	439,494	16.1	283,972	474,313
2029	1,821,125	14.3	260,421	420,069	15.1	274,990	441,194	16.1	293,201	476,147
2030	1,880,312	14.3	268,885	420,871	15.1	283,927	442,036	16.1	302,730	477,056

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	
2021	\$ 1,410,000	17.3%	\$243,930	\$ 478,394	17.9%	\$252,390	\$ 494,643	19.6%	\$276,360	\$ 546,763
2022	1,455,825	17.3	251,858	484,948	17.9	260,593	501,420	19.6	285,342	554,254
2023	1,503,139	17.3	260,043	491,063	17.9	269,062	507,743	19.6	294,615	561,243
2024	1,551,991	17.3	268,494	496,677	17.9	277,806	513,548	19.6	304,190	567,660
2025	1,602,431	17.3	277,221	501,724	17.9	286,835	518,766	19.6	314,076	573,428
2026	1,654,510	17.3	286,230	506,130	17.9	296,157	523,322	19.6	324,284	578,464
2027	1,708,282	17.3	295,533	509,817	17.9	305,782	527,134	19.6	334,823	582,678
2028	1,763,801	17.3	305,138	512,698	17.9	315,720	530,113	19.6	345,705	585,971
2029	1,821,125	17.3	315,055	514,681	17.9	325,981	532,163	19.6	356,941	588,237
2030	1,880,312	17.3	325,294	515,664	17.9	336,576	533,179	19.6	368,541	589,360

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	8.5%	\$119,850	\$ 273,406	10.8%	\$152,280	\$ 341,714	10.6%	\$149,460	\$ 338,365
2022	1,455,825	8.5	123,745	277,152	10.8	157,229	346,395	10.6	154,317	343,001
2023	1,503,139	8.5	127,767	280,647	10.8	162,339	350,763	10.6	159,333	347,326
2024	1,551,991	8.5	131,919	283,856	10.8	167,615	354,773	10.6	164,511	351,297
2025	1,602,431	8.5	136,207	286,740	10.8	173,063	358,378	10.6	169,858	354,866
2026	1,654,510	8.5	140,633	289,258	10.8	178,687	361,525	10.6	175,378	357,983
2027	1,708,282	8.5	145,204	291,365	10.8	184,494	364,158	10.6	181,078	360,591
2028	1,763,801	8.5	149,923	293,012	10.8	190,491	366,216	10.6	186,963	362,629
2029	1,821,125	8.5	154,796	294,145	10.8	196,682	367,632	10.6	193,039	364,031
2030	1,880,312	8.5	159,827	294,707	10.8	203,074	368,334	10.6	199,313	364,726

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	
2021	\$ 1,410,000	12.4%	\$174,840	\$ 390,453	13.2%	\$186,120	\$ 410,088	14.2%	\$200,220	\$ 442,577
2022	1,455,825	12.4	180,522	395,802	13.2	192,169	415,706	14.2	206,727	448,640
2023	1,503,139	12.4	186,389	400,793	13.2	198,414	420,948	14.2	213,446	454,297
2024	1,551,991	12.4	192,447	405,375	13.2	204,863	425,761	14.2	220,383	459,491
2025	1,602,431	12.4	198,701	409,494	13.2	211,521	430,087	14.2	227,545	464,160
2026	1,654,510	12.4	205,159	413,090	13.2	218,395	433,864	14.2	234,940	468,236
2027	1,708,282	12.4	211,827	416,099	13.2	225,493	437,024	14.2	242,576	471,647
2028	1,763,801	12.4	218,711	418,451	13.2	232,822	439,494	14.2	250,460	474,313
2029	1,821,125	12.4	225,820	420,069	13.2	240,389	441,194	14.2	258,600	476,147
2030	1,880,312	12.4	233,159	420,871	13.2	248,201	442,036	14.2	267,004	477,056

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	
2021	\$ 1,410,000	15.4%	\$217,140	\$ 478,394	16.0%	\$225,600	\$ 494,643	17.7%	\$249,570	\$ 546,763
2022	1,455,825	15.4	224,197	484,948	16.0	232,932	501,420	17.7	257,681	554,254
2023	1,503,139	15.4	231,483	491,063	16.0	240,502	507,743	17.7	266,056	561,243
2024	1,551,991	15.4	239,007	496,677	16.0	248,319	513,548	17.7	274,702	567,660
2025	1,602,431	15.4	246,774	501,724	16.0	256,389	518,766	17.7	283,630	573,428
2026	1,654,510	15.4	254,795	506,130	16.0	264,722	523,322	17.7	292,848	578,464
2027	1,708,282	15.4	263,075	509,817	16.0	273,325	527,134	17.7	302,366	582,678
2028	1,763,801	15.4	271,625	512,698	16.0	282,208	530,113	17.7	312,193	585,971
2029	1,821,125	15.4	280,453	514,681	16.0	291,380	532,163	17.7	322,339	588,237
2030	1,880,312	15.4	289,568	515,664	16.0	300,850	533,179	17.7	332,815	589,360

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	6.6%	\$93,060	\$ 273,406	8.9%	\$125,490	\$ 341,714	8.7%	\$122,670	\$ 338,365
2022	1,455,825	6.6	96,084	277,152	8.9	129,568	346,395	8.7	126,657	343,001
2023	1,503,139	6.6	99,207	280,647	8.9	133,779	350,763	8.7	130,773	347,326
2024	1,551,991	6.6	102,431	283,856	8.9	138,127	354,773	8.7	135,023	351,297
2025	1,602,431	6.6	105,760	286,740	8.9	142,616	358,378	8.7	139,411	354,866
2026	1,654,510	6.6	109,198	289,258	8.9	147,251	361,525	8.7	143,942	357,983
2027	1,708,282	6.6	112,747	291,365	8.9	152,037	364,158	8.7	148,621	360,591
2028	1,763,801	6.6	116,411	293,012	8.9	156,978	366,216	8.7	153,451	362,629
2029	1,821,125	6.6	120,194	294,145	8.9	162,080	367,632	8.7	158,438	364,031
2030	1,880,312	6.6	124,101	294,707	8.9	167,348	368,334	8.7	163,587	364,726

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	
2021	\$ 1,410,000	10.5%	\$148,050	\$ 390,453	11.3%	\$159,330	\$ 410,088	12.3%	\$173,430	\$ 442,577
2022	1,455,825	10.5	152,862	395,802	11.3	164,508	415,706	12.3	179,066	448,640
2023	1,503,139	10.5	157,830	400,793	11.3	169,855	420,948	12.3	184,886	454,297
2024	1,551,991	10.5	162,959	405,375	11.3	175,375	425,761	12.3	190,895	459,491
2025	1,602,431	10.5	168,255	409,494	11.3	181,075	430,087	12.3	197,099	464,160
2026	1,654,510	10.5	173,724	413,090	11.3	186,960	433,864	12.3	203,505	468,236
2027	1,708,282	10.5	179,370	416,099	11.3	193,036	437,024	12.3	210,119	471,647
2028	1,763,801	10.5	185,199	418,451	11.3	199,310	439,494	12.3	216,948	474,313
2029	1,821,125	10.5	191,218	420,069	11.3	205,787	441,194	12.3	223,998	476,147
2030	1,880,312	10.5	197,433	420,871	11.3	212,475	442,036	12.3	231,278	477,056

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	
2021	\$ 1,410,000	13.5%	\$190,350	\$ 478,394	14.1%	\$198,810	\$ 494,643	15.8%	\$222,780	\$ 546,763
2022	1,455,825	13.5	196,536	484,948	14.1	205,271	501,420	15.8	230,020	554,254
2023	1,503,139	13.5	202,924	491,063	14.1	211,943	507,743	15.8	237,496	561,243
2024	1,551,991	13.5	209,519	496,677	14.1	218,831	513,548	15.8	245,215	567,660
2025	1,602,431	13.5	216,328	501,724	14.1	225,943	518,766	15.8	253,184	573,428
2026	1,654,510	13.5	223,359	506,130	14.1	233,286	523,322	15.8	261,413	578,464
2027	1,708,282	13.5	230,618	509,817	14.1	240,868	527,134	15.8	269,909	582,678
2028	1,763,801	13.5	238,113	512,698	14.1	248,696	530,113	15.8	278,681	585,971
2029	1,821,125	13.5	245,852	514,681	14.1	256,779	532,163	15.8	287,738	588,237
2030	1,880,312	13.5	253,842	515,664	14.1	265,124	533,179	15.8	297,089	589,360

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2021	\$ 1,410,000	4.7%	\$66,270	\$ 273,406	7.0%	\$98,700	\$ 341,714	6.8%	\$95,880	\$ 338,365
2022	1,455,825	4.7	68,424	277,152	7.0	101,908	346,395	6.8	98,996	343,001
2023	1,503,139	4.7	70,648	280,647	7.0	105,220	350,763	6.8	102,213	347,326
2024	1,551,991	4.7	72,944	283,856	7.0	108,639	354,773	6.8	105,535	351,297
2025	1,602,431	4.7	75,314	286,740	7.0	112,170	358,378	6.8	108,965	354,866
2026	1,654,510	4.7	77,762	289,258	7.0	115,816	361,525	6.8	112,507	357,983
2027	1,708,282	4.7	80,289	291,365	7.0	119,580	364,158	6.8	116,163	360,591
2028	1,763,801	4.7	82,899	293,012	7.0	123,466	366,216	6.8	119,938	362,629
2029	1,821,125	4.7	85,593	294,145	7.0	127,479	367,632	6.8	123,837	364,031
2030	1,880,312	4.7	88,375	294,707	7.0	131,622	368,334	6.8	127,861	364,726

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	
2021	\$ 1,410,000	8.6%	\$121,260	\$ 390,453	9.4%	\$132,540	\$ 410,088	10.4%	\$146,640	\$ 442,577
2022	1,455,825	8.6	125,201	395,802	9.4	136,848	415,706	10.4	151,406	448,640
2023	1,503,139	8.6	129,270	400,793	9.4	141,295	420,948	10.4	156,326	454,297
2024	1,551,991	8.6	133,471	405,375	9.4	145,887	425,761	10.4	161,407	459,491
2025	1,602,431	8.6	137,809	409,494	9.4	150,629	430,087	10.4	166,653	464,160
2026	1,654,510	8.6	142,288	413,090	9.4	155,524	433,864	10.4	172,069	468,236
2027	1,708,282	8.6	146,912	416,099	9.4	160,579	437,024	10.4	177,661	471,647
2028	1,763,801	8.6	151,687	418,451	9.4	165,797	439,494	10.4	183,435	474,313
2029	1,821,125	8.6	156,617	420,069	9.4	171,186	441,194	10.4	189,397	476,147
2030	1,880,312	8.6	161,707	420,871	9.4	176,749	442,036	10.4	195,552	477,056

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	
2021	\$ 1,410,000	11.6%	\$163,560	\$ 478,394	12.2%	\$172,020	\$ 494,643	13.9%	\$195,990	\$ 546,763
2022	1,455,825	11.6	168,876	484,948	12.2	177,611	501,420	13.9	202,360	554,254
2023	1,503,139	11.6	174,364	491,063	12.2	183,383	507,743	13.9	208,936	561,243
2024	1,551,991	11.6	180,031	496,677	12.2	189,343	513,548	13.9	215,727	567,660
2025	1,602,431	11.6	185,882	501,724	12.2	195,497	518,766	13.9	222,738	573,428
2026	1,654,510	11.6	191,923	506,130	12.2	201,850	523,322	13.9	229,977	578,464
2027	1,708,282	11.6	198,161	509,817	12.2	208,410	527,134	13.9	237,451	582,678
2028	1,763,801	11.6	204,601	512,698	12.2	215,184	530,113	13.9	245,168	585,971
2029	1,821,125	11.6	211,251	514,681	12.2	222,177	532,163	13.9	253,136	588,237
2030	1,880,312	11.6	218,116	515,664	12.2	229,398	533,179	13.9	261,363	589,360

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (0% Member Contribution Rate, 5 Year FAS)

### 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	
2021	\$ 1,410,000	10.3%	\$145,230	\$ 240,144	12.5%	\$176,250	\$ 300,172	12.8%	\$180,480	\$ 325,208
2022	1,455,825	10.3	149,950	243,434	12.5	181,978	304,284	12.8	186,346	329,663
2023	1,503,139	10.3	154,823	246,504	12.5	187,892	308,121	12.8	192,402	333,820
2024	1,551,991	10.3	159,855	249,322	12.5	193,999	311,644	12.8	198,655	337,637
2025	1,602,431	10.3	165,050	251,855	12.5	200,304	314,811	12.8	205,111	341,068
2026	1,654,510	10.3	170,415	254,067	12.5	206,814	317,576	12.8	211,777	344,063
2027	1,708,282	10.3	175,953	255,918	12.5	213,535	319,889	12.8	218,660	346,569
2028	1,763,801	10.3	181,672	257,364	12.5	220,475	321,697	12.8	225,767	348,528
2029	1,821,125	10.3	187,576	258,359	12.5	227,641	322,941	12.8	233,104	349,876
2030	1,880,312	10.3	193,672	258,852	12.5	235,039	323,558	12.8	240,680	350,544

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	
2021	\$ 1,410,000	14.5%	\$204,450	\$ 363,954	14.9%	\$210,090	\$ 360,214	16.1%	\$227,010	\$ 402,748
2022	1,455,825	14.5	211,095	368,940	14.9	216,918	365,149	16.1	234,388	408,266
2023	1,503,139	14.5	217,955	373,592	14.9	223,968	369,753	16.1	242,005	413,414
2024	1,551,991	14.5	225,039	377,863	14.9	231,247	373,980	16.1	249,871	418,141
2025	1,602,431	14.5	232,352	381,702	14.9	238,762	377,780	16.1	257,991	422,390
2026	1,654,510	14.5	239,904	385,054	14.9	246,522	381,098	16.1	266,376	426,100
2027	1,708,282	14.5	247,701	387,859	14.9	254,534	383,874	16.1	275,033	429,204
2028	1,763,801	14.5	255,751	390,051	14.9	262,806	386,044	16.1	283,972	431,630
2029	1,821,125	14.5	264,063	391,559	14.9	271,348	387,537	16.1	293,201	433,299
2030	1,880,312	14.5	272,645	392,307	14.9	280,166	388,277	16.1	302,730	434,126

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	
2021	\$ 1,410,000	17.1%	\$241,110	\$ 420,232	17.8%	\$250,980	\$ 441,554	19.3%	\$272,130	\$ 480,293
2022	1,455,825	17.1	248,946	425,989	17.8	259,137	447,603	19.3	280,974	486,873
2023	1,503,139	17.1	257,037	431,360	17.8	267,559	453,247	19.3	290,106	493,012
2024	1,551,991	17.1	265,390	436,292	17.8	276,254	458,429	19.3	299,534	498,649
2025	1,602,431	17.1	274,016	440,725	17.8	285,233	463,087	19.3	309,269	503,716
2026	1,654,510	17.1	282,921	444,596	17.8	294,503	467,154	19.3	319,320	508,140
2027	1,708,282	17.1	292,116	447,835	17.8	304,074	470,557	19.3	329,698	511,841
2028	1,763,801	17.1	301,610	450,366	17.8	313,957	473,216	19.3	340,414	514,734
2029	1,821,125	17.1	311,412	452,108	17.8	324,160	475,046	19.3	351,477	516,724
2030	1,880,312	17.1	321,533	452,971	17.8	334,696	475,953	19.3	362,900	517,711

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (2% Member Contribution Rate, 5 Year FAS) (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	
2021	\$ 1,410,000	8.4%	\$118,440	\$ 240,144	10.6%	\$149,460	\$ 300,172	10.9%	\$153,690	\$ 325,208
2022	1,455,825	8.4	122,289	243,434	10.6	154,317	304,284	10.9	158,685	329,663
2023	1,503,139	8.4	126,264	246,504	10.6	159,333	308,121	10.9	163,842	333,820
2024	1,551,991	8.4	130,367	249,322	10.6	164,511	311,644	10.9	169,167	337,637
2025	1,602,431	8.4	134,604	251,855	10.6	169,858	314,811	10.9	174,665	341,068
2026	1,654,510	8.4	138,979	254,067	10.6	175,378	317,576	10.9	180,342	344,063
2027	1,708,282	8.4	143,496	255,918	10.6	181,078	319,889	10.9	186,203	346,569
2028	1,763,801	8.4	148,159	257,364	10.6	186,963	321,697	10.9	192,254	348,528
2029	1,821,125	8.4	152,975	258,359	10.6	193,039	322,941	10.9	198,503	349,876
2030	1,880,312	8.4	157,946	258,852	10.6	199,313	323,558	10.9	204,954	350,544

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	
2021	\$ 1,410,000	12.6%	\$177,660	\$ 363,954	13.0%	\$183,300	\$ 360,214	14.2%	\$200,220	\$ 402,748
2022	1,455,825	12.6	183,434	368,940	13.0	189,257	365,149	14.2	206,727	408,266
2023	1,503,139	12.6	189,396	373,592	13.0	195,408	369,753	14.2	213,446	413,414
2024	1,551,991	12.6	195,551	377,863	13.0	201,759	373,980	14.2	220,383	418,141
2025	1,602,431	12.6	201,906	381,702	13.0	208,316	377,780	14.2	227,545	422,390
2026	1,654,510	12.6	208,468	385,054	13.0	215,086	381,098	14.2	234,940	426,100
2027	1,708,282	12.6	215,244	387,859	13.0	222,077	383,874	14.2	242,576	429,204
2028	1,763,801	12.6	222,239	390,051	13.0	229,294	386,044	14.2	250,460	431,630
2029	1,821,125	12.6	229,462	391,559	13.0	236,746	387,537	14.2	258,600	433,299
2030	1,880,312	12.6	236,919	392,307	13.0	244,441	388,277	14.2	267,004	434,126

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	
2021	\$ 1,410,000	15.2%	\$214,320	\$ 420,232	15.9%	\$224,190	\$ 441,554	17.4%	\$245,340	\$ 480,293
2022	1,455,825	15.2	221,285	425,989	15.9	231,476	447,603	17.4	253,314	486,873
2023	1,503,139	15.2	228,477	431,360	15.9	238,999	453,247	17.4	261,546	493,012
2024	1,551,991	15.2	235,903	436,292	15.9	246,767	458,429	17.4	270,046	498,649
2025	1,602,431	15.2	243,570	440,725	15.9	254,787	463,087	17.4	278,823	503,716
2026	1,654,510	15.2	251,486	444,596	15.9	263,067	467,154	17.4	287,885	508,140
2027	1,708,282	15.2	259,659	447,835	15.9	271,617	470,557	17.4	297,241	511,841
2028	1,763,801	15.2	268,098	450,366	15.9	280,444	473,216	17.4	306,901	514,734
2029	1,821,125	15.2	276,811	452,108	15.9	289,559	475,046	17.4	316,876	516,724
2030	1,880,312	15.2	285,807	452,971	15.9	298,970	475,953	17.4	327,174	517,711

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (4% Member Contribution Rate, 5 Year FAS) (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	
2021	\$ 1,410,000	6.5%	\$91,650	\$ 240,144	8.7%	\$122,670	\$ 300,172	9.0%	\$126,900	\$ 325,208
2022	1,455,825	6.5	94,629	243,434	8.7	126,657	304,284	9.0	131,024	329,663
2023	1,503,139	6.5	97,704	246,504	8.7	130,773	308,121	9.0	135,283	333,820
2024	1,551,991	6.5	100,879	249,322	8.7	135,023	311,644	9.0	139,679	337,637
2025	1,602,431	6.5	104,158	251,855	8.7	139,411	314,811	9.0	144,219	341,068
2026	1,654,510	6.5	107,543	254,067	8.7	143,942	317,576	9.0	148,906	344,063
2027	1,708,282	6.5	111,038	255,918	8.7	148,621	319,889	9.0	153,745	346,569
2028	1,763,801	6.5	114,647	257,364	8.7	153,451	321,697	9.0	158,742	348,528
2029	1,821,125	6.5	118,373	258,359	8.7	158,438	322,941	9.0	163,901	349,876
2030	1,880,312	6.5	122,220	258,852	8.7	163,587	323,558	9.0	169,228	350,544

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	
2021	\$ 1,410,000	10.7%	\$150,870	\$ 363,954	11.1%	\$156,510	\$ 360,214	12.3%	\$173,430	\$ 402,748
2022	1,455,825	10.7	155,773	368,940	11.1	161,597	365,149	12.3	179,066	408,266
2023	1,503,139	10.7	160,836	373,592	11.1	166,848	369,753	12.3	184,886	413,414
2024	1,551,991	10.7	166,063	377,863	11.1	172,271	373,980	12.3	190,895	418,141
2025	1,602,431	10.7	171,460	381,702	11.1	177,870	377,780	12.3	197,099	422,390
2026	1,654,510	10.7	177,033	385,054	11.1	183,651	381,098	12.3	203,505	426,100
2027	1,708,282	10.7	182,786	387,859	11.1	189,619	383,874	12.3	210,119	429,204
2028	1,763,801	10.7	188,727	390,051	11.1	195,782	386,044	12.3	216,948	431,630
2029	1,821,125	10.7	194,860	391,559	11.1	202,145	387,537	12.3	223,998	433,299
2030	1,880,312	10.7	201,193	392,307	11.1	208,715	388,277	12.3	231,278	434,126

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	
2021	\$ 1,410,000	13.3%	\$187,530	\$ 420,232	14.0%	\$197,400	\$ 441,554	15.5%	\$218,550	\$ 480,293
2022	1,455,825	13.3	193,625	425,989	14.0	203,816	447,603	15.5	225,653	486,873
2023	1,503,139	13.3	199,917	431,360	14.0	210,439	453,247	15.5	232,987	493,012
2024	1,551,991	13.3	206,415	436,292	14.0	217,279	458,429	15.5	240,559	498,649
2025	1,602,431	13.3	213,123	440,725	14.0	224,340	463,087	15.5	248,377	503,716
2026	1,654,510	13.3	220,050	444,596	14.0	231,631	467,154	15.5	256,449	508,140
2027	1,708,282	13.3	227,202	447,835	14.0	239,159	470,557	15.5	264,784	511,841
2028	1,763,801	13.3	234,586	450,366	14.0	246,932	473,216	15.5	273,389	514,734
2029	1,821,125	13.3	242,210	452,108	14.0	254,958	475,046	15.5	282,274	516,724
2030	1,880,312	13.3	250,081	452,971	14.0	263,244	475,953	15.5	291,448	517,711

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (6% Member Contribution Rate, 5 Year FAS) (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	
2021	\$ 1,410,000	4.6%	\$64,860	\$ 240,144	6.8%	\$95,880	\$ 300,172	7.1%	\$100,110	\$ 325,208
2022	1,455,825	4.6	66,968	243,434	6.8	98,996	304,284	7.1	103,364	329,663
2023	1,503,139	4.6	69,144	246,504	6.8	102,213	308,121	7.1	106,723	333,820
2024	1,551,991	4.6	71,392	249,322	6.8	105,535	311,644	7.1	110,191	337,637
2025	1,602,431	4.6	73,712	251,855	6.8	108,965	314,811	7.1	113,773	341,068
2026	1,654,510	4.6	76,107	254,067	6.8	112,507	317,576	7.1	117,470	344,063
2027	1,708,282	4.6	78,581	255,918	6.8	116,163	319,889	7.1	121,288	346,569
2028	1,763,801	4.6	81,135	257,364	6.8	119,938	321,697	7.1	125,230	348,528
2029	1,821,125	4.6	83,772	258,359	6.8	123,837	322,941	7.1	129,300	349,876
2030	1,880,312	4.6	86,494	258,852	6.8	127,861	323,558	7.1	133,502	350,544

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	
2021	\$ 1,410,000	8.8%	\$124,080	\$ 363,954	9.2%	\$129,720	\$ 360,214	10.4%	\$146,640	\$ 402,748
2022	1,455,825	8.8	128,113	368,940	9.2	133,936	365,149	10.4	151,406	408,266
2023	1,503,139	8.8	132,276	373,592	9.2	138,289	369,753	10.4	156,326	413,414
2024	1,551,991	8.8	136,575	377,863	9.2	142,783	373,980	10.4	161,407	418,141
2025	1,602,431	8.8	141,014	381,702	9.2	147,424	377,780	10.4	166,653	422,390
2026	1,654,510	8.8	145,597	385,054	9.2	152,215	381,098	10.4	172,069	426,100
2027	1,708,282	8.8	150,329	387,859	9.2	157,162	383,874	10.4	177,661	429,204
2028	1,763,801	8.8	155,214	390,051	9.2	162,270	386,044	10.4	183,435	431,630
2029	1,821,125	8.8	160,259	391,559	9.2	167,544	387,537	10.4	189,397	433,299
2030	1,880,312	8.8	165,467	392,307	9.2	172,989	388,277	10.4	195,552	434,126

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	
2021	\$ 1,410,000	11.4%	\$160,740	\$ 420,232	12.1%	\$170,610	\$ 441,554	13.6%	\$191,760	\$ 480,293
2022	1,455,825	11.4	165,964	425,989	12.1	176,155	447,603	13.6	197,992	486,873
2023	1,503,139	11.4	171,358	431,360	12.1	181,880	453,247	13.6	204,427	493,012
2024	1,551,991	11.4	176,927	436,292	12.1	187,791	458,429	13.6	211,071	498,649
2025	1,602,431	11.4	182,677	440,725	12.1	193,894	463,087	13.6	217,931	503,716
2026	1,654,510	11.4	188,614	444,596	12.1	200,196	467,154	13.6	225,013	508,140
2027	1,708,282	11.4	194,744	447,835	12.1	206,702	470,557	13.6	232,326	511,841
2028	1,763,801	11.4	201,073	450,366	12.1	213,420	473,216	13.6	239,877	514,734
2029	1,821,125	11.4	207,608	452,108	12.1	220,356	475,046	13.6	247,673	516,724
2030	1,880,312	11.4	214,356	452,971	12.1	227,518	475,953	13.6	255,722	517,711

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (0% Member Contribution Rate, 3 Year FAS)

### 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	
2021	\$ 1,410,000	10.6%	\$149,460	\$ 247,703	12.9%	\$181,890	\$ 309,531	13.2%	\$186,120	\$ 335,763
2022	1,455,825	10.6	154,317	251,096	12.9	187,801	313,772	13.2	192,169	340,363
2023	1,503,139	10.6	159,333	254,262	12.9	193,905	317,728	13.2	198,414	344,655
2024	1,551,991	10.6	164,511	257,169	12.9	200,207	321,361	13.2	204,863	348,595
2025	1,602,431	10.6	169,858	259,782	12.9	206,714	324,626	13.2	211,521	352,137
2026	1,654,510	10.6	175,378	262,063	12.9	213,432	327,477	13.2	218,395	355,230
2027	1,708,282	10.6	181,078	263,972	12.9	220,368	329,862	13.2	225,493	357,818
2028	1,763,801	10.6	186,963	265,464	12.9	227,530	331,726	13.2	232,822	359,840
2029	1,821,125	10.6	193,039	266,491	12.9	234,925	333,009	13.2	240,389	361,232
2030	1,880,312	10.6	199,313	267,000	12.9	242,560	333,645	13.2	248,201	361,922

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	
2021	\$ 1,410,000	14.9%	\$210,090	\$ 375,623	15.3%	\$215,730	\$ 371,502	16.6%	\$234,060	\$ 415,544
2022	1,455,825	14.9	216,918	380,769	15.3	222,741	376,592	16.6	241,667	421,237
2023	1,503,139	14.9	223,968	385,570	15.3	229,980	381,341	16.6	249,521	426,549
2024	1,551,991	14.9	231,247	389,978	15.3	237,455	385,701	16.6	257,631	431,426
2025	1,602,431	14.9	238,762	393,941	15.3	245,172	389,620	16.6	266,004	435,810
2026	1,654,510	14.9	246,522	397,401	15.3	253,140	393,042	16.6	274,649	439,637
2027	1,708,282	14.9	254,534	400,296	15.3	261,367	395,905	16.6	283,575	442,839
2028	1,763,801	14.9	262,806	402,558	15.3	269,862	398,143	16.6	292,791	445,342
2029	1,821,125	14.9	271,348	404,115	15.3	278,632	399,683	16.6	302,307	447,064
2030	1,880,312	14.9	280,166	404,887	15.3	287,688	400,446	16.6	312,132	447,918

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	
2021	\$ 1,410,000	17.6%	\$248,160	\$ 433,371	18.3%	\$258,030	\$ 455,386	20.0%	\$282,000	\$ 495,334
2022	1,455,825	17.6	256,225	439,308	18.3	266,416	461,625	20.0	291,165	502,120
2023	1,503,139	17.6	264,552	444,847	18.3	275,074	467,446	20.0	300,628	508,451
2024	1,551,991	17.6	273,150	449,933	18.3	284,014	472,790	20.0	310,398	514,264
2025	1,602,431	17.6	282,028	454,505	18.3	293,245	477,594	20.0	320,486	519,489
2026	1,654,510	17.6	291,194	458,497	18.3	302,775	481,788	20.0	330,902	524,051
2027	1,708,282	17.6	300,658	461,837	18.3	312,616	485,298	20.0	341,656	527,868
2028	1,763,801	17.6	310,429	464,447	18.3	322,776	488,041	20.0	352,760	530,851
2029	1,821,125	17.6	320,518	466,243	18.3	333,266	489,928	20.0	364,225	532,904
2030	1,880,312	17.6	330,935	467,133	18.3	344,097	490,864	20.0	376,062	533,922

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (2% Member Contribution Rate, 3 Year FAS) (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	
2021	\$ 1,410,000	8.7%	\$122,670	\$ 247,703	11.0%	\$155,100	\$ 309,531	11.3%	\$159,330	\$ 335,763
2022	1,455,825	8.7	126,657	251,096	11.0	160,141	313,772	11.3	164,508	340,363
2023	1,503,139	8.7	130,773	254,262	11.0	165,345	317,728	11.3	169,855	344,655
2024	1,551,991	8.7	135,023	257,169	11.0	170,719	321,361	11.3	175,375	348,595
2025	1,602,431	8.7	139,411	259,782	11.0	176,267	324,626	11.3	181,075	352,137
2026	1,654,510	8.7	143,942	262,063	11.0	181,996	327,477	11.3	186,960	355,230
2027	1,708,282	8.7	148,621	263,972	11.0	187,911	329,862	11.3	193,036	357,818
2028	1,763,801	8.7	153,451	265,464	11.0	194,018	331,726	11.3	199,310	359,840
2029	1,821,125	8.7	158,438	266,491	11.0	200,324	333,009	11.3	205,787	361,232
2030	1,880,312	8.7	163,587	267,000	11.0	206,834	333,645	11.3	212,475	361,922

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	
2021	\$ 1,410,000	13.0%	\$183,300	\$ 375,623	13.4%	\$188,940	\$ 371,502	14.7%	\$207,270	\$ 415,544
2022	1,455,825	13.0	189,257	380,769	13.4	195,081	376,592	14.7	214,006	421,237
2023	1,503,139	13.0	195,408	385,570	13.4	201,421	381,341	14.7	220,961	426,549
2024	1,551,991	13.0	201,759	389,978	13.4	207,967	385,701	14.7	228,143	431,426
2025	1,602,431	13.0	208,316	393,941	13.4	214,726	389,620	14.7	235,557	435,810
2026	1,654,510	13.0	215,086	397,401	13.4	221,704	393,042	14.7	243,213	439,637
2027	1,708,282	13.0	222,077	400,296	13.4	228,910	395,905	14.7	251,117	442,839
2028	1,763,801	13.0	229,294	402,558	13.4	236,349	398,143	14.7	259,279	445,342
2029	1,821,125	13.0	236,746	404,115	13.4	244,031	399,683	14.7	267,705	447,064
2030	1,880,312	13.0	244,441	404,887	13.4	251,962	400,446	14.7	276,406	447,918

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	
2021	\$ 1,410,000	15.7%	\$221,370	\$ 433,371	16.4%	\$231,240	\$ 455,386	18.1%	\$255,210	\$ 495,334
2022	1,455,825	15.7	228,565	439,308	16.4	238,755	461,625	18.1	263,504	502,120
2023	1,503,139	15.7	235,993	444,847	16.4	246,515	467,446	18.1	272,068	508,451
2024	1,551,991	15.7	243,663	449,933	16.4	254,527	472,790	18.1	280,910	514,264
2025	1,602,431	15.7	251,582	454,505	16.4	262,799	477,594	18.1	290,040	519,489
2026	1,654,510	15.7	259,758	458,497	16.4	271,340	481,788	18.1	299,466	524,051
2027	1,708,282	15.7	268,200	461,837	16.4	280,158	485,298	18.1	309,199	527,868
2028	1,763,801	15.7	276,917	464,447	16.4	289,263	488,041	18.1	319,248	530,851
2029	1,821,125	15.7	285,917	466,243	16.4	298,665	489,928	18.1	329,624	532,904
2030	1,880,312	15.7	295,209	467,133	16.4	308,371	490,864	18.1	340,336	533,922

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (4% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2021	\$ 1,410,000	6.8%	\$95,880	\$ 247,703	9.1%	\$128,310	\$ 309,531	9.4%	\$132,540	\$ 335,763
2022	1,455,825	6.8	98,996	251,096	9.1	132,480	313,772	9.4	136,848	340,363
2023	1,503,139	6.8	102,213	254,262	9.1	136,786	317,728	9.4	141,295	344,655
2024	1,551,991	6.8	105,535	257,169	9.1	141,231	321,361	9.4	145,887	348,595
2025	1,602,431	6.8	108,965	259,782	9.1	145,821	324,626	9.4	150,629	352,137
2026	1,654,510	6.8	112,507	262,063	9.1	150,560	327,477	9.4	155,524	355,230
2027	1,708,282	6.8	116,163	263,972	9.1	155,454	329,862	9.4	160,579	357,818
2028	1,763,801	6.8	119,938	265,464	9.1	160,506	331,726	9.4	165,797	359,840
2029	1,821,125	6.8	123,837	266,491	9.1	165,722	333,009	9.4	171,186	361,232
2030	1,880,312	6.8	127,861	267,000	9.1	171,108	333,645	9.4	176,749	361,922

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 1,410,000	11.1%	\$156,510	\$ 375,623	11.5%	\$162,150	\$ 371,502	12.8%	\$180,480	\$ 415,544
2022	1,455,825	11.1	161,597	380,769	11.5	167,420	376,592	12.8	186,346	421,237
2023	1,503,139	11.1	166,848	385,570	11.5	172,861	381,341	12.8	192,402	426,549
2024	1,551,991	11.1	172,271	389,978	11.5	178,479	385,701	12.8	198,655	431,426
2025	1,602,431	11.1	177,870	393,941	11.5	184,280	389,620	12.8	205,111	435,810
2026	1,654,510	11.1	183,651	397,401	11.5	190,269	393,042	12.8	211,777	439,637
2027	1,708,282	11.1	189,619	400,296	11.5	196,452	395,905	12.8	218,660	442,839
2028	1,763,801	11.1	195,782	402,558	11.5	202,837	398,143	12.8	225,767	445,342
2029	1,821,125	11.1	202,145	404,115	11.5	209,429	399,683	12.8	233,104	447,064
2030	1,880,312	11.1	208,715	404,887	11.5	216,236	400,446	12.8	240,680	447,918

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 1,410,000	13.8%	\$194,580	\$ 433,371	14.5%	\$204,450	\$ 455,386	16.2%	\$228,420	\$ 495,334
2022	1,455,825	13.8	200,904	439,308	14.5	211,095	461,625	16.2	235,844	502,120
2023	1,503,139	13.8	207,433	444,847	14.5	217,955	467,446	16.2	243,509	508,451
2024	1,551,991	13.8	214,175	449,933	14.5	225,039	472,790	16.2	251,423	514,264
2025	1,602,431	13.8	221,135	454,505	14.5	232,352	477,594	16.2	259,594	519,489
2026	1,654,510	13.8	228,322	458,497	14.5	239,904	481,788	16.2	268,031	524,051
2027	1,708,282	13.8	235,743	461,837	14.5	247,701	485,298	16.2	276,742	527,868
2028	1,763,801	13.8	243,405	464,447	14.5	255,751	488,041	16.2	285,736	530,851
2029	1,821,125	13.8	251,315	466,243	14.5	264,063	489,928	16.2	295,022	532,904
2030	1,880,312	13.8	259,483	467,133	14.5	272,645	490,864	16.2	304,611	533,922

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Mid-County Fire Protection District - Fire

## Employer Contribution Rates (6% Member Contribution Rate, 3 Year FAS) (Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 1,410,000	4.9%	\$69,090	\$ 247,703	7.2%	\$101,520	\$ 309,531	7.5%	\$105,750	\$ 335,763
2022	1,455,825	4.9	71,335	251,096	7.2	104,819	313,772	7.5	109,187	340,363
2023	1,503,139	4.9	73,654	254,262	7.2	108,226	317,728	7.5	112,735	344,655
2024	1,551,991	4.9	76,048	257,169	7.2	111,743	321,361	7.5	116,399	348,595
2025	1,602,431	4.9	78,519	259,782	7.2	115,375	324,626	7.5	120,182	352,137
2026	1,654,510	4.9	81,071	262,063	7.2	119,125	327,477	7.5	124,088	355,230
2027	1,708,282	4.9	83,706	263,972	7.2	122,996	329,862	7.5	128,121	357,818
2028	1,763,801	4.9	86,426	265,464	7.2	126,994	331,726	7.5	132,285	359,840
2029	1,821,125	4.9	89,235	266,491	7.2	131,121	333,009	7.5	136,584	361,232
2030	1,880,312	4.9	92,135	267,000	7.2	135,382	333,645	7.5	141,023	361,922

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 1,410,000	9.2%	\$129,720	\$ 375,623	9.6%	\$135,360	\$ 371,502	10.9%	\$153,690	\$ 415,544
2022	1,455,825	9.2	133,936	380,769	9.6	139,759	376,592	10.9	158,685	421,237
2023	1,503,139	9.2	138,289	385,570	9.6	144,301	381,341	10.9	163,842	426,549
2024	1,551,991	9.2	142,783	389,978	9.6	148,991	385,701	10.9	169,167	431,426
2025	1,602,431	9.2	147,424	393,941	9.6	153,833	389,620	10.9	174,665	435,810
2026	1,654,510	9.2	152,215	397,401	9.6	158,833	393,042	10.9	180,342	439,637
2027	1,708,282	9.2	157,162	400,296	9.6	163,995	395,905	10.9	186,203	442,839
2028	1,763,801	9.2	162,270	402,558	9.6	169,325	398,143	10.9	192,254	445,342
2029	1,821,125	9.2	167,544	404,115	9.6	174,828	399,683	10.9	198,503	447,064
2030	1,880,312	9.2	172,989	404,887	9.6	180,510	400,446	10.9	204,954	447,918

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 1,410,000	11.9%	\$167,790	\$ 433,371	12.6%	\$177,660	\$ 455,386	14.3%	\$201,630	\$ 495,334
2022	1,455,825	11.9	173,243	439,308	12.6	183,434	461,625	14.3	208,183	502,120
2023	1,503,139	11.9	178,874	444,847	12.6	189,396	467,446	14.3	214,949	508,451
2024	1,551,991	11.9	184,687	449,933	12.6	195,551	472,790	14.3	221,935	514,264
2025	1,602,431	11.9	190,689	454,505	12.6	201,906	477,594	14.3	229,148	519,489
2026	1,654,510	11.9	196,887	458,497	12.6	208,468	481,788	14.3	236,595	524,051
2027	1,708,282	11.9	203,286	461,837	12.6	215,244	485,298	14.3	244,284	527,868
2028	1,763,801	11.9	209,892	464,447	12.6	222,239	488,041	14.3	252,224	530,851
2029	1,821,125	11.9	216,714	466,243	12.6	229,462	489,928	14.3	260,421	532,904
2030	1,880,312	11.9	223,757	467,133	12.6	236,919	490,864	14.3	268,885	533,922

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<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

