



The Initial Valuation For  
**Crawford County 911 Emergency  
Services**  
as of February 29, 2024



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May 10, 2024

Crawford County 911 Emergency Services  
Steelville, 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 - 105.685 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 28, 2023.

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 29, 2024. 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.

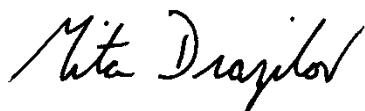
If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

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,  
Gabriel, Roeder, Smith & Company



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.

# Crawford County 911 Emergency Services

## 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	Public Safety	7.00%	0.20%	2.40%	9.60%	7.70%	5.80%	3.90%
L-3	Public Safety	8.50	0.30	3.00	11.80	9.90	8.00	6.10
LT-4(65)	Public Safety	8.30	0.20	3.00	11.50	9.60	7.70	5.80
LT-5(65)	Public Safety	9.50	0.30	3.50	13.30	11.40	9.50	7.60
L-7	Public Safety	10.00	0.30	3.60	13.90	12.00	10.10	8.20
LT-8(65)	Public Safety	10.70	0.30	3.90	14.90	13.00	11.10	9.20
L-12	Public Safety	11.50	0.40	4.20	16.10	14.20	12.30	10.40
LT-14(65)	Public Safety	11.90	0.40	4.30	16.60	14.70	12.80	10.90
L-6	Public Safety	13.00	0.50	4.80	18.30	16.40	14.50	12.60

\* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

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.

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## 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	Public Safety	7.20%	0.20%	2.50%	9.90%	8.00%	6.10%	4.20%
L-3	Public Safety	8.80	0.30	3.10	12.20	10.30	8.40	6.50
LT-4(65)	Public Safety	8.60	0.20	3.10	11.90	10.00	8.10	6.20
LT-5(65)	Public Safety	9.80	0.30	3.60	13.70	11.80	9.90	8.00
L-7	Public Safety	10.30	0.30	3.70	14.30	12.40	10.50	8.60
LT-8(65)	Public Safety	11.10	0.30	4.00	15.40	13.50	11.60	9.70
L-12	Public Safety	11.90	0.40	4.30	16.60	14.70	12.80	10.90
LT-14(65)	Public Safety	12.30	0.40	4.50	17.20	15.30	13.40	11.50
L-6	Public Safety	13.50	0.50	5.00	19.00	17.10	15.20	13.30

\* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

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.

# Crawford County 911 Emergency Services

## 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	Public Safety	7.10%	0.20%	2.40%	9.70%	7.80%	5.90%	4.00%
L-3	Public Safety	8.70	0.30	3.00	12.00	10.10	8.20	6.30
LT-4(65)	Public Safety	8.70	0.20	3.10	12.00	10.10	8.20	6.30
LT-5(65)	Public Safety	9.90	0.30	3.50	13.70	11.80	9.90	8.00
L-7	Public Safety	10.20	0.30	3.60	14.10	12.20	10.30	8.40
LT-8(65)	Public Safety	11.00	0.30	4.00	15.30	13.40	11.50	9.60
L-12	Public Safety	11.80	0.40	4.20	16.40	14.50	12.60	10.70
LT-14(65)	Public Safety	12.20	0.40	4.40	17.00	15.10	13.20	11.30
L-6	Public Safety	13.30	0.50	4.90	18.70	16.80	14.90	13.00

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

\* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

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.



# Crawford County 911 Emergency Services

## 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	Public Safety	7.40%	0.20%	2.50%	10.10%	8.20%	6.30%	4.40%
L-3	Public Safety	9.00	0.30	3.10	12.40	10.50	8.60	6.70
LT-4(65)	Public Safety	9.00	0.20	3.20	12.40	10.50	8.60	6.70
LT-5(65)	Public Safety	10.20	0.30	3.70	14.20	12.30	10.40	8.50
L-7	Public Safety	10.60	0.30	3.80	14.70	12.80	10.90	9.00
LT-8(65)	Public Safety	11.40	0.30	4.10	15.80	13.90	12.00	10.10
L-12	Public Safety	12.20	0.40	4.40	17.00	15.10	13.20	11.30
LT-14(65)	Public Safety	12.60	0.40	4.60	17.60	15.70	13.80	11.90
L-6	Public Safety	13.80	0.50	5.00	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.

\* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost rate will be reduced. An additional actuarial valuation will need to be performed to determine the employer contribution rate.

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.

# Crawford County 911 Emergency Services

## Employer Contribution Dollars Public Safety

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	\$ 75,380	\$ 60,461	\$ 45,542	\$ 30,623
L-3	92,654	77,735	62,816	47,898
LT-4(65)	90,299	75,380	60,461	45,542
LT-5(65)	104,432	89,513	74,594	59,676
L-7	109,143	94,225	79,306	64,387
LT-8(65)	116,996	102,077	87,158	72,239
L-12	126,418	111,499	96,580	81,661
LT-14(65)	130,344	115,425	100,506	85,587
L-6	143,693	128,774	113,855	98,936

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 77,735	\$ 62,816	\$ 47,898	\$ 32,979
L-3	95,795	80,876	65,957	51,038
LT-4(65)	93,439	78,521	63,602	48,683
LT-5(65)	107,573	92,654	77,735	62,816
L-7	112,284	97,365	82,447	67,528
LT-8(65)	120,922	106,003	91,084	76,165
L-12	130,344	115,425	100,506	85,587
LT-14(65)	135,055	120,136	105,217	90,299
L-6	149,189	134,270	119,351	104,432

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 76,165	\$ 61,246	\$ 46,327	\$ 31,408
L-3	94,225	79,306	64,387	49,468
LT-4(65)	94,225	79,306	64,387	49,468
LT-5(65)	107,573	92,654	77,735	62,816
L-7	110,714	95,795	80,876	65,957
LT-8(65)	120,136	105,217	90,299	75,380
L-12	128,774	113,855	98,936	84,017
LT-14(65)	133,485	118,566	103,647	88,728
L-6	146,833	131,914	116,996	102,077

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 79,306	\$ 64,387	\$ 49,468	\$ 34,549
L-3	97,365	82,447	67,528	52,609
LT-4(65)	97,365	82,447	67,528	52,609
LT-5(65)	111,499	96,580	81,661	66,742
L-7	115,425	100,506	85,587	70,668
LT-8(65)	124,062	109,143	94,225	79,306
L-12	133,485	118,566	103,647	88,728
LT-14(65)	138,196	123,277	108,358	93,439
L-6	151,545	136,626	121,707	106,788

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.

# Crawford County 911 Emergency Services

## Employees and Payroll Included in the Valuation

	Public Safety
Number of Employees	15
Annual Payroll	\$ 785,205

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:

### Crawford County 911 Emergency Services

#### Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	Public Safety	\$ 321,608	\$ 333,227
L-3	Public Safety	402,032	416,555
LT-4(65)	Public Safety	405,528	420,182
LT-5(65)	Public Safety	464,968	481,751
L-7	Public Safety	482,420	499,874
LT-8(65)	Public Safety	524,384	543,343
L-12	Public Safety	562,866	583,143
LT-14(65)	Public Safety	583,837	604,904
L-6	Public Safety	643,245	666,507

# Crawford County 911 Emergency Services

## 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	Public Safety	\$ 326,151	\$ 337,966
L-3	Public Safety	407,739	422,550
LT-4(65)	Public Safety	417,487	432,609
LT-5(65)	Public Safety	476,191	493,504
L-7	Public Safety	489,254	507,024
LT-8(65)	Public Safety	534,909	554,333
L-12	Public Safety	570,762	591,502
LT-14(65)	Public Safety	593,608	615,174
L-6	Public Safety	652,335	676,088

## **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 7.00% 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 2.25% and the wage inflation rate used in making the valuations was 2.75%. The 7.00% investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.25%. Adopted 2021.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were 115% of the PubG-2010 Retiree Mortality Table for males and females. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were 115% of the PubNS-2010 Disabled Retiree Mortality Table for males and females. The pre-retirement mortality tables used were 75% of the PubG-2010 Employee Mortality Table for males and females of General groups and 75% of the PubS-2010 Employee Mortality Table for males and females of Police, Fire and Public Safety groups. Mortality rates for a particular calendar year are determined by applying the MP-2020 mortality improvement scale to the above described tables. Adopted 2021.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2021.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2021.
5. Post-retirement cost of living allowances are assumed to be 2.00% per year. Adopted 2021.
6. Total active member payroll is assumed to increase 2.75% 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 2021.
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 and has no material limitations or known weaknesses. 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/Public Safety Members				Police		Fire	
		Men		Women		Disability	Withdrawal	Disability	Withdrawal
		Disability	Withdrawal	Disability	Withdrawal				
All	0		20.00%		23.00%		18.00%		12.00%
	1		18.00		21.00		17.00		10.00
	2		16.00		18.00		16.00		8.00
	3		13.00		15.00		14.00		8.00
	4		12.00		13.00		13.00		7.00
25	5 & Over	0.07%	8.80	0.02%	12.40	0.10%	10.80	0.07%	6.00
30		0.10	7.10	0.03	10.20	0.11	8.50	0.11	4.50
35		0.13	5.60	0.06	7.80	0.16	6.30	0.25	3.20
40		0.18	4.10	0.09	5.80	0.22	4.60	0.39	2.40
45		0.25	3.10	0.15	4.40	0.34	3.40	0.62	1.90
50		0.37	2.40	0.22	3.50	0.53	2.10	0.95	1.30
55		0.57	1.70	0.32	2.50	0.88	1.10	1.46	0.70
60		0.86	1.10	0.45	1.40		0.00		0.00
65			0.00		0.00		0.00		0.00

Percent Increase in Individual's Pay During Next Year			
Sample Ages	General/ Public Safety	Police	Fire
25	6.75%	6.55%	7.15%
30	5.95	5.75	6.05
35	5.35	5.25	5.15
40	4.85	4.75	4.45
45	4.25	4.25	4.05
50	3.85	3.85	3.85
55	3.65	3.65	3.45

## 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%	2.25%
56	3.00%	3.00%	51	2.50%	2.25%
57	3.00%	3.00%	52	3.00%	2.25%
58	3.00%	3.00%	53	3.00%	2.25%
59	3.00%	3.00%	54	3.50%	2.25%

#### Normal Retirement

Retirement Ages	General Members		Retirement Ages	Police/ Public Safety	Fire
	Men	Women			
60	10%	10%	55	11%	13%
61	10	10	56	11	13
62	25	15	57	11	13
63	20	15	58	11	13
64	20	15	59	11	13
65	25	25	60	11	15
66	25	30	61	11	20
67	20	25	62	22	20
68	20	25	63	18	20
69	20	20	64	18	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	20%	15%	25%	25%
51	20	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	25	15	20	45
63	25	15	20	45
64	25	20	20	45
65	30	25	100	100
66	30	25		
67	20	25		
68	20	25		
69	20	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 28, 2023

#### (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	\$ 1,003	\$1,528	102%
2,000	700	1,145	1,845	92%
2,500	875	1,285	2,160	86%
3,000	1,050	1,426	2,476	83%
3,500	1,225	1,567	2,792	80%
4,000	1,400	1,707	3,107	78%
25 Years of Service:				
\$1,500	\$ 375	\$ 1,003	\$1,378	92%
2,000	500	1,145	1,645	82%
2,500	625	1,285	1,910	76%
3,000	750	1,426	2,176	73%
3,500	875	1,567	2,442	70%
4,000	1,000	1,707	2,707	68%
15 Years of Service:				
\$1,500	\$225	\$ 1,003	\$1,228	82%
2,000	300	1,145	1,445	72%
2,500	375	1,285	1,660	66%
3,000	450	1,426	1,876	63%
3,500	525	1,567	2,092	60%
4,000	600	1,707	2,307	58%

<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 2023 - 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	\$ 1,003	\$1,659	111%
2,000	875	1,145	2,020	101%
2,500	1,094	1,285	2,379	95%
3,000	1,313	1,426	2,739	91%
3,500	1,531	1,567	3,098	89%
4,000	1,750	1,707	3,457	86%
25 Years of Service:				
\$1,500	\$ 469	\$ 1,003	\$1,472	98%
2,000	625	1,145	1,770	89%
2,500	781	1,285	2,066	83%
3,000	938	1,426	2,364	79%
3,500	1,094	1,567	2,661	76%
4,000	1,250	1,707	2,957	74%
15 Years of Service:				
\$1,500	\$281	\$ 1,003	\$1,284	86%
2,000	375	1,145	1,520	76%
2,500	469	1,285	1,754	70%
3,000	563	1,426	1,989	66%
3,500	656	1,567	2,223	64%
4,000	750	1,707	2,457	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 2023 - 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	\$ 1,003	\$1,791	119%
2,000	1,050	1,145	2,195	110%
2,500	1,313	1,285	2,598	104%
3,000	1,575	1,426	3,001	100%
3,500	1,838	1,567	3,405	97%
4,000	2,100	1,707	3,807	95%
25 Years of Service:				
\$1,500	\$ 563	\$ 1,003	\$1,566	104%
2,000	750	1,145	1,895	95%
2,500	938	1,285	2,223	89%
3,000	1,125	1,426	2,551	85%
3,500	1,313	1,567	2,880	82%
4,000	1,500	1,707	3,207	80%
15 Years of Service:				
\$1,500	\$338	\$ 1,003	\$1,341	89%
2,000	450	1,145	1,595	80%
2,500	563	1,285	1,848	74%
3,000	675	1,426	2,101	70%
3,500	788	1,567	2,355	67%
4,000	900	1,707	2,607	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 2023 - 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	\$ 1,003	\$1,922	128%
2,000	1,225	1,145	2,370	119%
2,500	1,531	1,285	2,816	113%
3,000	1,838	1,426	3,264	109%
3,500	2,144	1,567	3,711	106%
4,000	2,450	1,707	4,157	104%
25 Years of Service:				
\$1,500	\$ 656	\$ 1,003	\$1,659	111%
2,000	875	1,145	2,020	101%
2,500	1,094	1,285	2,379	95%
3,000	1,313	1,426	2,739	91%
3,500	1,531	1,567	3,098	89%
4,000	1,750	1,707	3,457	86%
15 Years of Service:				
\$1,500	\$ 394	\$ 1,003	\$1,397	93%
2,000	525	1,145	1,670	84%
2,500	656	1,285	1,941	78%
3,000	788	1,426	2,214	74%
3,500	919	1,567	2,486	71%
4,000	1,050	1,707	2,757	69%

<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 2023 - 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	\$ 1,003	\$2,053	137%
2,000	1,400	1,145	2,545	127%
2,500	1,750	1,285	3,035	121%
3,000	2,100	1,426	3,526	118%
3,500	2,450	1,567	4,017	115%
4,000	2,800	1,707	4,507	113%
25 Years of Service:				
\$1,500	\$ 750	\$ 1,003	\$1,753	117%
2,000	1,000	1,145	2,145	107%
2,500	1,250	1,285	2,535	101%
3,000	1,500	1,426	2,926	98%
3,500	1,750	1,567	3,317	95%
4,000	2,000	1,707	3,707	93%
15 Years of Service:				
\$1,500	\$ 450	\$ 1,003	\$1,453	97%
2,000	600	1,145	1,745	87%
2,500	750	1,285	2,035	81%
3,000	900	1,426	2,326	78%
3,500	1,050	1,567	2,617	75%
4,000	1,200	1,707	2,907	73%

<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 2023 - 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	\$ 1,003	\$1,050	\$1,528	70%	102%
2,000	1,400	700	1,145	1,400	1,845	70%	92%
2,500	1,750	875	1,285	1,750	2,160	70%	86%
3,000	2,100	1,050	1,426	2,100	2,476	70%	83%
3,500	2,450	1,225	1,567	2,450	2,792	70%	80%
4,000	2,800	1,400	1,707	2,800	3,107	70%	78%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 1,003	\$ 750	\$1,378	50%	92%
2,000	1,000	500	1,145	1,000	1,645	50%	82%
2,500	1,250	625	1,285	1,250	1,910	50%	76%
3,000	1,500	750	1,426	1,500	2,176	50%	73%
3,500	1,750	875	1,567	1,750	2,442	50%	70%
4,000	2,000	1,000	1,707	2,000	2,707	50%	68%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 1,003	\$ 450	\$1,228	30%	82%
2,000	600	300	1,145	600	1,445	30%	72%
2,500	750	375	1,285	750	1,660	30%	66%
3,000	900	450	1,426	900	1,876	30%	63%
3,500	1,050	525	1,567	1,050	2,092	30%	60%
4,000	1,200	600	1,707	1,200	2,307	30%	58%

<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 2023 - 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	\$ 1,003	\$1,050	\$1,659	70%	111%
2,000	1,400	875	1,145	1,400	2,020	70%	101%
2,500	1,750	1,094	1,285	1,750	2,379	70%	95%
3,000	2,100	1,313	1,426	2,100	2,739	70%	91%
3,500	2,450	1,531	1,567	2,450	3,098	70%	89%
4,000	2,800	1,750	1,707	2,800	3,457	70%	86%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 1,003	\$ 750	\$1,472	50%	98%
2,000	1,000	625	1,145	1,000	1,770	50%	89%
2,500	1,250	781	1,285	1,250	2,066	50%	83%
3,000	1,500	938	1,426	1,500	2,364	50%	79%
3,500	1,750	1,094	1,567	1,750	2,661	50%	76%
4,000	2,000	1,250	1,707	2,000	2,957	50%	74%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 1,003	\$ 450	\$1,284	30%	86%
2,000	600	375	1,145	600	1,520	30%	76%
2,500	750	469	1,285	750	1,754	30%	70%
3,000	900	563	1,426	900	1,989	30%	66%
3,500	1,050	656	1,567	1,050	2,223	30%	64%
4,000	1,200	750	1,707	1,200	2,457	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 2023 - 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	\$ 1,003	\$1,050	\$1,791	70%	119%
2,000	1,400	1,050	1,145	1,400	2,195	70%	110%
2,500	1,750	1,313	1,285	1,750	2,598	70%	104%
3,000	2,100	1,575	1,426	2,100	3,001	70%	100%
3,500	2,450	1,838	1,567	2,450	3,405	70%	97%
4,000	2,800	2,100	1,707	2,800	3,807	70%	95%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 1,003	\$ 750	\$1,566	50%	104%
2,000	1,000	750	1,145	1,000	1,895	50%	95%
2,500	1,250	938	1,285	1,250	2,223	50%	89%
3,000	1,500	1,125	1,426	1,500	2,551	50%	85%
3,500	1,750	1,313	1,567	1,750	2,880	50%	82%
4,000	2,000	1,500	1,707	2,000	3,207	50%	80%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 1,003	\$ 450	\$1,341	30%	89%
2,000	600	450	1,145	600	1,595	30%	80%
2,500	750	563	1,285	750	1,848	30%	74%
3,000	900	675	1,426	900	2,101	30%	70%
3,500	1,050	788	1,567	1,050	2,355	30%	67%
4,000	1,200	900	1,707	1,200	2,607	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 2023 - 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	\$ 1,003	\$1,050	\$1,922	70%	128%
2,000	1,400	1,225	1,145	1,400	2,370	70%	119%
2,500	1,750	1,531	1,285	1,750	2,816	70%	113%
3,000	2,100	1,838	1,426	2,100	3,264	70%	109%
3,500	2,450	2,144	1,567	2,450	3,711	70%	106%
4,000	2,800	2,450	1,707	2,800	4,157	70%	104%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 1,003	\$ 750	\$1,659	50%	111%
2,000	1,000	875	1,145	1,000	2,020	50%	101%
2,500	1,250	1,094	1,285	1,250	2,379	50%	95%
3,000	1,500	1,313	1,426	1,500	2,739	50%	91%
3,500	1,750	1,531	1,567	1,750	3,098	50%	89%
4,000	2,000	1,750	1,707	2,000	3,457	50%	86%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 1,003	\$ 450	\$1,397	30%	93%
2,000	600	525	1,145	600	1,670	30%	84%
2,500	750	656	1,285	750	1,941	30%	78%
3,000	900	788	1,426	900	2,214	30%	74%
3,500	1,050	919	1,567	1,050	2,486	30%	71%
4,000	1,200	1,050	1,707	1,200	2,757	30%	69%

<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 2023 - 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**

# Crawford County 911 Emergency Services - Public Safety

February 29, 2024

## 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
<b>Under 20</b>									
20-24	5							5	\$ 225,365
25-29	2							2	\$ 97,064
30-34		1						1	\$ 65,554
35-39	4							4	\$ 195,952
40-44	1							1	\$ 53,770
45-49			1					1	\$ 70,000
50-54		1						1	\$ 77,500
55-59									
60-64									
65-69									
<b>70 &amp; Over</b>									
<b>Totals</b>	<b>12</b>	<b>2</b>	<b>1</b>					<b>15</b>	<b>\$ 785,205</b>

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

Age: 32.2 years.

Benefit Service: 3.5 years.

Annual Pay: \$52,347.

## **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.



May 10, 2024 E-mail

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

Dear Mr. Betts:

Enclosed is the report of the February 29, 2024 Initial Actuarial Valuation of LAGERS benefits for the employees of

Crawford County 911 Emergency Services

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



May 10, 2024

Crawford County 911 Emergency Services  
Steelville, Missouri

Ladies and Gentlemen:

This report contains 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. This report is intended to be a supplement to the February 29, 2024 Initial Valuation for the Crawford County 911 Emergency Services dated May 10, 2024.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of the Initial Valuation Report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2023. 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,  
Gabriel, Roeder, Smith & Company

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



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	9.6%	\$75,380	\$ 321,608	11.8%	\$92,654	\$ 402,032	11.5%	\$90,299	\$ 405,528
2025	806,798	9.6	77,453	324,693	11.8	95,202	405,889	11.5	92,782	409,418
2026	828,985	9.6	79,583	327,460	11.8	97,820	409,348	11.5	95,333	412,907
2027	851,782	9.6	81,771	329,871	11.8	100,510	412,363	11.5	97,955	415,948
2028	875,206	9.6	84,020	331,887	11.8	103,274	414,883	11.5	100,649	418,490
2029	899,274	9.6	86,330	333,465	11.8	106,114	416,855	11.5	103,417	420,480
2030	924,004	9.6	88,704	334,558	11.8	109,032	418,221	11.5	106,260	421,858
2031	949,414	9.6	91,144	335,115	11.8	112,031	418,918	11.5	109,183	422,561
2032	975,523	9.6	93,650	335,083	11.8	115,112	418,878	11.5	112,185	422,520
2033	1,002,350	9.6	96,226	334,403	11.8	118,277	418,027	11.5	115,270	421,662

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	
2024	\$ 785,205	13.3%	\$104,432	\$ 464,968	13.9%	\$109,143	\$ 482,420	14.9%	\$116,996	\$ 524,384
2025	806,798	13.3	107,304	469,428	13.9	112,145	487,048	14.9	120,213	529,414
2026	828,985	13.3	110,255	473,428	13.9	115,229	491,198	14.9	123,519	533,925
2027	851,782	13.3	113,287	476,914	13.9	118,398	494,815	14.9	126,916	537,857
2028	875,206	13.3	116,402	479,829	13.9	121,654	497,839	14.9	130,406	541,145
2029	899,274	13.3	119,603	482,110	13.9	124,999	500,206	14.9	133,992	543,718
2030	924,004	13.3	122,893	483,690	13.9	128,437	501,845	14.9	137,677	545,500
2031	949,414	13.3	126,272	484,496	13.9	131,969	502,681	14.9	141,463	546,409
2032	975,523	13.3	129,745	484,449	13.9	135,598	502,633	14.9	145,353	546,356
2033	1,002,350	13.3	133,313	483,465	13.9	139,327	501,612	14.9	149,350	545,246

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	
2024	\$ 785,205	16.1%	\$126,418	\$ 562,866	16.6%	\$130,344	\$ 583,837	18.3%	\$143,693	\$ 643,245
2025	806,798	16.1	129,894	568,265	16.6	133,928	589,438	18.3	147,644	649,415
2026	828,985	16.1	133,467	573,107	16.6	137,612	594,461	18.3	151,704	654,949
2027	851,782	16.1	137,137	577,327	16.6	141,396	598,839	18.3	155,876	659,772
2028	875,206	16.1	140,908	580,856	16.6	145,284	602,499	18.3	160,163	663,805
2029	899,274	16.1	144,783	583,617	16.6	149,279	605,363	18.3	164,567	666,961
2030	924,004	16.1	148,765	585,530	16.6	153,385	607,347	18.3	169,093	669,147
2031	949,414	16.1	152,856	586,506	16.6	157,603	608,359	18.3	173,743	670,262
2032	975,523	16.1	157,059	586,450	16.6	161,937	608,300	18.3	178,521	670,198
2033	1,002,350	16.1	161,378	585,259	16.6	166,390	607,065	18.3	183,430	668,837

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	7.7%	\$60,461	\$ 321,608	9.9%	\$77,735	\$ 402,032	9.6%	\$75,380	\$ 405,528
2025	806,798	7.7	62,123	324,693	9.9	79,873	405,889	9.6	77,453	409,418
2026	828,985	7.7	63,832	327,460	9.9	82,070	409,348	9.6	79,583	412,907
2027	851,782	7.7	65,587	329,871	9.9	84,326	412,363	9.6	81,771	415,948
2028	875,206	7.7	67,391	331,887	9.9	86,645	414,883	9.6	84,020	418,490
2029	899,274	7.7	69,244	333,465	9.9	89,028	416,855	9.6	86,330	420,480
2030	924,004	7.7	71,148	334,558	9.9	91,476	418,221	9.6	88,704	421,858
2031	949,414	7.7	73,105	335,115	9.9	93,992	418,918	9.6	91,144	422,561
2032	975,523	7.7	75,115	335,083	9.9	96,577	418,878	9.6	93,650	422,520
2033	1,002,350	7.7	77,181	334,403	9.9	99,233	418,027	9.6	96,226	421,662

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	
2024	\$ 785,205	11.4%	\$89,513	\$ 464,968	12.0%	\$94,225	\$ 482,420	13.0%	\$102,077	\$ 524,384
2025	806,798	11.4	91,975	469,428	12.0	96,816	487,048	13.0	104,884	529,414
2026	828,985	11.4	94,504	473,428	12.0	99,478	491,198	13.0	107,768	533,925
2027	851,782	11.4	97,103	476,914	12.0	102,214	494,815	13.0	110,732	537,857
2028	875,206	11.4	99,773	479,829	12.0	105,025	497,839	13.0	113,777	541,145
2029	899,274	11.4	102,517	482,110	12.0	107,913	500,206	13.0	116,906	543,718
2030	924,004	11.4	105,336	483,690	12.0	110,880	501,845	13.0	120,121	545,500
2031	949,414	11.4	108,233	484,496	12.0	113,930	502,681	13.0	123,424	546,409
2032	975,523	11.4	111,210	484,449	12.0	117,063	502,633	13.0	126,818	546,356
2033	1,002,350	11.4	114,268	483,465	12.0	120,282	501,612	13.0	130,306	545,246

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	
2024	\$ 785,205	14.2%	\$111,499	\$ 562,866	14.7%	\$115,425	\$ 583,837	16.4%	\$128,774	\$ 643,245
2025	806,798	14.2	114,565	568,265	14.7	118,599	589,438	16.4	132,315	649,415
2026	828,985	14.2	117,716	573,107	14.7	121,861	594,461	16.4	135,954	654,949
2027	851,782	14.2	120,953	577,327	14.7	125,212	598,839	16.4	139,692	659,772
2028	875,206	14.2	124,279	580,856	14.7	128,655	602,499	16.4	143,534	663,805
2029	899,274	14.2	127,697	583,617	14.7	132,193	605,363	16.4	147,481	666,961
2030	924,004	14.2	131,209	585,530	14.7	135,829	607,347	16.4	151,537	669,147
2031	949,414	14.2	134,817	586,506	14.7	139,564	608,359	16.4	155,704	670,262
2032	975,523	14.2	138,524	586,450	14.7	143,402	608,300	16.4	159,986	670,198
2033	1,002,350	14.2	142,334	585,259	14.7	147,345	607,065	16.4	164,385	668,837

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	5.8%	\$45,542	\$ 321,608	8.0%	\$62,816	\$ 402,032	7.7%	\$60,461	\$ 405,528
2025	806,798	5.8	46,794	324,693	8.0	64,544	405,889	7.7	62,123	409,418
2026	828,985	5.8	48,081	327,460	8.0	66,319	409,348	7.7	63,832	412,907
2027	851,782	5.8	49,403	329,871	8.0	68,143	412,363	7.7	65,587	415,948
2028	875,206	5.8	50,762	331,887	8.0	70,016	414,883	7.7	67,391	418,490
2029	899,274	5.8	52,158	333,465	8.0	71,942	416,855	7.7	69,244	420,480
2030	924,004	5.8	53,592	334,558	8.0	73,920	418,221	7.7	71,148	421,858
2031	949,414	5.8	55,066	335,115	8.0	75,953	418,918	7.7	73,105	422,561
2032	975,523	5.8	56,580	335,083	8.0	78,042	418,878	7.7	75,115	422,520
2033	1,002,350	5.8	58,136	334,403	8.0	80,188	418,027	7.7	77,181	421,662

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	
2024	\$ 785,205	9.5%	\$74,594	\$ 464,968	10.1%	\$79,306	\$ 482,420	11.1%	\$87,158	\$ 524,384
2025	806,798	9.5	76,646	469,428	10.1	81,487	487,048	11.1	89,555	529,414
2026	828,985	9.5	78,754	473,428	10.1	83,727	491,198	11.1	92,017	533,925
2027	851,782	9.5	80,919	476,914	10.1	86,030	494,815	11.1	94,548	537,857
2028	875,206	9.5	83,145	479,829	10.1	88,396	497,839	11.1	97,148	541,145
2029	899,274	9.5	85,431	482,110	10.1	90,827	500,206	11.1	99,819	543,718
2030	924,004	9.5	87,780	483,690	10.1	93,324	501,845	11.1	102,564	545,500
2031	949,414	9.5	90,194	484,496	10.1	95,891	502,681	11.1	105,385	546,409
2032	975,523	9.5	92,675	484,449	10.1	98,528	502,633	11.1	108,283	546,356
2033	1,002,350	9.5	95,223	483,465	10.1	101,237	501,612	11.1	111,261	545,246

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	
2024	\$ 785,205	12.3%	\$96,580	\$ 562,866	12.8%	\$100,506	\$ 583,837	14.5%	\$113,855	\$ 643,245
2025	806,798	12.3	99,236	568,265	12.8	103,270	589,438	14.5	116,986	649,415
2026	828,985	12.3	101,965	573,107	12.8	106,110	594,461	14.5	120,203	654,949
2027	851,782	12.3	104,769	577,327	12.8	109,028	598,839	14.5	123,508	659,772
2028	875,206	12.3	107,650	580,856	12.8	112,026	602,499	14.5	126,905	663,805
2029	899,274	12.3	110,611	583,617	12.8	115,107	605,363	14.5	130,395	666,961
2030	924,004	12.3	113,652	585,530	12.8	118,273	607,347	14.5	133,981	669,147
2031	949,414	12.3	116,778	586,506	12.8	121,525	608,359	14.5	137,665	670,262
2032	975,523	12.3	119,989	586,450	12.8	124,867	608,300	14.5	141,451	670,198
2033	1,002,350	12.3	123,289	585,259	12.8	128,301	607,065	14.5	145,341	668,837

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	3.9%	\$30,623	\$ 321,608	6.1%	\$47,898	\$ 402,032	5.8%	\$45,542	\$ 405,528
2025	806,798	3.9	31,465	324,693	6.1	49,215	405,889	5.8	46,794	409,418
2026	828,985	3.9	32,330	327,460	6.1	50,568	409,348	5.8	48,081	412,907
2027	851,782	3.9	33,219	329,871	6.1	51,959	412,363	5.8	49,403	415,948
2028	875,206	3.9	34,133	331,887	6.1	53,388	414,883	5.8	50,762	418,490
2029	899,274	3.9	35,072	333,465	6.1	54,856	416,855	5.8	52,158	420,480
2030	924,004	3.9	36,036	334,558	6.1	56,364	418,221	5.8	53,592	421,858
2031	949,414	3.9	37,027	335,115	6.1	57,914	418,918	5.8	55,066	422,561
2032	975,523	3.9	38,045	335,083	6.1	59,507	418,878	5.8	56,580	422,520
2033	1,002,350	3.9	39,092	334,403	6.1	61,143	418,027	5.8	58,136	421,662

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	
2024	\$ 785,205	7.6%	\$59,676	\$ 464,968	8.2%	\$64,387	\$ 482,420	9.2%	\$72,239	\$ 524,384
2025	806,798	7.6	61,317	469,428	8.2	66,157	487,048	9.2	74,225	529,414
2026	828,985	7.6	63,003	473,428	8.2	67,977	491,198	9.2	76,267	533,925
2027	851,782	7.6	64,735	476,914	8.2	69,846	494,815	9.2	78,364	537,857
2028	875,206	7.6	66,516	479,829	8.2	71,767	497,839	9.2	80,519	541,145
2029	899,274	7.6	68,345	482,110	8.2	73,740	500,206	9.2	82,733	543,718
2030	924,004	7.6	70,224	483,690	8.2	75,768	501,845	9.2	85,008	545,500
2031	949,414	7.6	72,155	484,496	8.2	77,852	502,681	9.2	87,346	546,409
2032	975,523	7.6	74,140	484,449	8.2	79,993	502,633	9.2	89,748	546,356
2033	1,002,350	7.6	76,179	483,465	8.2	82,193	501,612	9.2	92,216	545,246

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	
2024	\$ 785,205	10.4%	\$81,661	\$ 562,866	10.9%	\$85,587	\$ 583,837	12.6%	\$98,936	\$ 643,245
2025	806,798	10.4	83,907	568,265	10.9	87,941	589,438	12.6	101,657	649,415
2026	828,985	10.4	86,214	573,107	10.9	90,359	594,461	12.6	104,452	654,949
2027	851,782	10.4	88,585	577,327	10.9	92,844	598,839	12.6	107,325	659,772
2028	875,206	10.4	91,021	580,856	10.9	95,397	602,499	12.6	110,276	663,805
2029	899,274	10.4	93,524	583,617	10.9	98,021	605,363	12.6	113,309	666,961
2030	924,004	10.4	96,096	585,530	10.9	100,716	607,347	12.6	116,425	669,147
2031	949,414	10.4	98,739	586,506	10.9	103,486	608,359	12.6	119,626	670,262
2032	975,523	10.4	101,454	586,450	10.9	106,332	608,300	12.6	122,916	670,198
2033	1,002,350	10.4	104,244	585,259	10.9	109,256	607,065	12.6	126,296	668,837

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	9.9%	\$77,735	\$ 333,227	12.2%	\$95,795	\$ 416,555	11.9%	\$93,439	\$ 420,182
2025	806,798	9.9	79,873	336,424	12.2	98,429	420,551	11.9	96,009	424,213
2026	828,985	9.9	82,070	339,291	12.2	101,136	424,135	11.9	98,649	427,828
2027	851,782	9.9	84,326	341,790	12.2	103,917	427,258	11.9	101,362	430,979
2028	875,206	9.9	86,645	343,879	12.2	106,775	429,870	11.9	104,150	433,613
2029	899,274	9.9	89,028	345,514	12.2	109,711	431,914	11.9	107,014	435,674
2030	924,004	9.9	91,476	346,646	12.2	112,728	433,329	11.9	109,956	437,102
2031	949,414	9.9	93,992	347,224	12.2	115,829	434,051	11.9	112,980	437,830
2032	975,523	9.9	96,577	347,191	12.2	119,014	434,009	11.9	116,087	437,788
2033	1,002,350	9.9	99,233	346,486	12.2	122,287	433,128	11.9	119,280	436,899

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	
2024	\$ 785,205	13.7%	\$107,573	\$ 481,751	14.3%	\$112,284	\$ 499,874	15.4%	\$120,922	\$ 543,343
2025	806,798	13.7	110,531	486,372	14.3	115,372	504,669	15.4	124,247	548,555
2026	828,985	13.7	113,571	490,516	14.3	118,545	508,969	15.4	127,664	553,229
2027	851,782	13.7	116,694	494,128	14.3	121,805	512,717	15.4	131,174	557,303
2028	875,206	13.7	119,903	497,148	14.3	125,154	515,851	15.4	134,782	560,709
2029	899,274	13.7	123,201	499,512	14.3	128,596	518,303	15.4	138,488	563,375
2030	924,004	13.7	126,589	501,149	14.3	132,133	520,002	15.4	142,297	565,221
2031	949,414	13.7	130,070	501,984	14.3	135,766	520,868	15.4	146,210	566,163
2032	975,523	13.7	133,647	501,936	14.3	139,500	520,818	15.4	150,231	566,109
2033	1,002,350	13.7	137,322	500,917	14.3	143,336	519,760	15.4	154,362	564,959

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	
2024	\$ 785,205	16.6%	\$130,344	\$ 583,143	17.2%	\$135,055	\$ 604,904	19.0%	\$149,189	\$ 666,507
2025	806,798	16.6	133,928	588,737	17.2	138,769	610,707	19.0	153,292	672,901
2026	828,985	16.6	137,612	593,754	17.2	142,585	615,911	19.0	157,507	678,635
2027	851,782	16.6	141,396	598,127	17.2	146,507	620,447	19.0	161,839	683,633
2028	875,206	16.6	145,284	601,783	17.2	150,535	624,239	19.0	166,289	687,812
2029	899,274	16.6	149,279	604,644	17.2	154,675	627,207	19.0	170,862	691,082
2030	924,004	16.6	153,385	606,625	17.2	158,929	629,262	19.0	175,561	693,347
2031	949,414	16.6	157,603	607,636	17.2	163,299	630,310	19.0	180,389	694,502
2032	975,523	16.6	161,937	607,578	17.2	167,790	630,249	19.0	185,349	694,435
2033	1,002,350	16.6	166,390	606,344	17.2	172,404	628,969	19.0	190,447	693,025

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	8.0%	\$62,816	\$ 333,227	10.3%	\$80,876	\$ 416,555	10.0%	\$78,521	\$ 420,182
2025	806,798	8.0	64,544	336,424	10.3	83,100	420,551	10.0	80,680	424,213
2026	828,985	8.0	66,319	339,291	10.3	85,385	424,135	10.0	82,899	427,828
2027	851,782	8.0	68,143	341,790	10.3	87,734	427,258	10.0	85,178	430,979
2028	875,206	8.0	70,016	343,879	10.3	90,146	429,870	10.0	87,521	433,613
2029	899,274	8.0	71,942	345,514	10.3	92,625	431,914	10.0	89,927	435,674
2030	924,004	8.0	73,920	346,646	10.3	95,172	433,329	10.0	92,400	437,102
2031	949,414	8.0	75,953	347,224	10.3	97,790	434,051	10.0	94,941	437,830
2032	975,523	8.0	78,042	347,191	10.3	100,479	434,009	10.0	97,552	437,788
2033	1,002,350	8.0	80,188	346,486	10.3	103,242	433,128	10.0	100,235	436,899

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	
2024	\$ 785,205	11.8%	\$92,654	\$ 481,751	12.4%	\$97,365	\$ 499,874	13.5%	\$106,003	\$ 543,343
2025	806,798	11.8	95,202	486,372	12.4	100,043	504,669	13.5	108,918	548,555
2026	828,985	11.8	97,820	490,516	12.4	102,794	508,969	13.5	111,913	553,229
2027	851,782	11.8	100,510	494,128	12.4	105,621	512,717	13.5	114,991	557,303
2028	875,206	11.8	103,274	497,148	12.4	108,526	515,851	13.5	118,153	560,709
2029	899,274	11.8	106,114	499,512	12.4	111,510	518,303	13.5	121,402	563,375
2030	924,004	11.8	109,032	501,149	12.4	114,576	520,002	13.5	124,741	565,221
2031	949,414	11.8	112,031	501,984	12.4	117,727	520,868	13.5	128,171	566,163
2032	975,523	11.8	115,112	501,936	12.4	120,965	520,818	13.5	131,696	566,109
2033	1,002,350	11.8	118,277	500,917	12.4	124,291	519,760	13.5	135,317	564,959

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	
2024	\$ 785,205	14.7%	\$115,425	\$ 583,143	15.3%	\$120,136	\$ 604,904	17.1%	\$134,270	\$ 666,507
2025	806,798	14.7	118,599	588,737	15.3	123,440	610,707	17.1	137,962	672,901
2026	828,985	14.7	121,861	593,754	15.3	126,835	615,911	17.1	141,756	678,635
2027	851,782	14.7	125,212	598,127	15.3	130,323	620,447	17.1	145,655	683,633
2028	875,206	14.7	128,655	601,783	15.3	133,907	624,239	17.1	149,660	687,812
2029	899,274	14.7	132,193	604,644	15.3	137,589	627,207	17.1	153,776	691,082
2030	924,004	14.7	135,829	606,625	15.3	141,373	629,262	17.1	158,005	693,347
2031	949,414	14.7	139,564	607,636	15.3	145,260	630,310	17.1	162,350	694,502
2032	975,523	14.7	143,402	607,578	15.3	149,255	630,249	17.1	166,814	694,435
2033	1,002,350	14.7	147,345	606,344	15.3	153,360	628,969	17.1	171,402	693,025

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	6.1%	\$47,898	\$ 333,227	8.4%	\$65,957	\$ 416,555	8.1%	\$63,602	\$ 420,182
2025	806,798	6.1	49,215	336,424	8.4	67,771	420,551	8.1	65,351	424,213
2026	828,985	6.1	50,568	339,291	8.4	69,635	424,135	8.1	67,148	427,828
2027	851,782	6.1	51,959	341,790	8.4	71,550	427,258	8.1	68,994	430,979
2028	875,206	6.1	53,388	343,879	8.4	73,517	429,870	8.1	70,892	433,613
2029	899,274	6.1	54,856	345,514	8.4	75,539	431,914	8.1	72,841	435,674
2030	924,004	6.1	56,364	346,646	8.4	77,616	433,329	8.1	74,844	437,102
2031	949,414	6.1	57,914	347,224	8.4	79,751	434,051	8.1	76,903	437,830
2032	975,523	6.1	59,507	347,191	8.4	81,944	434,009	8.1	79,017	437,788
2033	1,002,350	6.1	61,143	346,486	8.4	84,197	433,128	8.1	81,190	436,899

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	
2024	\$ 785,205	9.9%	\$77,735	\$ 481,751	10.5%	\$82,447	\$ 499,874	11.6%	\$91,084	\$ 543,343
2025	806,798	9.9	79,873	486,372	10.5	84,714	504,669	11.6	93,589	548,555
2026	828,985	9.9	82,070	490,516	10.5	87,043	508,969	11.6	96,162	553,229
2027	851,782	9.9	84,326	494,128	10.5	89,437	512,717	11.6	98,807	557,303
2028	875,206	9.9	86,645	497,148	10.5	91,897	515,851	11.6	101,524	560,709
2029	899,274	9.9	89,028	499,512	10.5	94,424	518,303	11.6	104,316	563,375
2030	924,004	9.9	91,476	501,149	10.5	97,020	520,002	11.6	107,184	565,221
2031	949,414	9.9	93,992	501,984	10.5	99,688	520,868	11.6	110,132	566,163
2032	975,523	9.9	96,577	501,936	10.5	102,430	520,818	11.6	113,161	566,109
2033	1,002,350	9.9	99,233	500,917	10.5	105,247	519,760	11.6	116,273	564,959

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	
2024	\$ 785,205	12.8%	\$100,506	\$ 583,143	13.4%	\$105,217	\$ 604,904	15.2%	\$119,351	\$ 666,507
2025	806,798	12.8	103,270	588,737	13.4	108,111	610,707	15.2	122,633	672,901
2026	828,985	12.8	106,110	593,754	13.4	111,084	615,911	15.2	126,006	678,635
2027	851,782	12.8	109,028	598,127	13.4	114,139	620,447	15.2	129,471	683,633
2028	875,206	12.8	112,026	601,783	13.4	117,278	624,239	15.2	133,031	687,812
2029	899,274	12.8	115,107	604,644	13.4	120,503	627,207	15.2	136,690	691,082
2030	924,004	12.8	118,273	606,625	13.4	123,817	629,262	15.2	140,449	693,347
2031	949,414	12.8	121,525	607,636	13.4	127,221	630,310	15.2	144,311	694,502
2032	975,523	12.8	124,867	607,578	13.4	130,720	630,249	15.2	148,279	694,435
2033	1,002,350	12.8	128,301	606,344	13.4	134,315	628,969	15.2	152,357	693,025

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.





# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	4.2%	\$32,979	\$ 333,227	6.5%	\$51,038	\$ 416,555	6.2%	\$48,683	\$ 420,182
2025	806,798	4.2	33,886	336,424	6.5	52,442	420,551	6.2	50,021	424,213
2026	828,985	4.2	34,817	339,291	6.5	53,884	424,135	6.2	51,397	427,828
2027	851,782	4.2	35,775	341,790	6.5	55,366	427,258	6.2	52,810	430,979
2028	875,206	4.2	36,759	343,879	6.5	56,888	429,870	6.2	54,263	433,613
2029	899,274	4.2	37,770	345,514	6.5	58,453	431,914	6.2	55,755	435,674
2030	924,004	4.2	38,808	346,646	6.5	60,060	433,329	6.2	57,288	437,102
2031	949,414	4.2	39,875	347,224	6.5	61,712	434,051	6.2	58,864	437,830
2032	975,523	4.2	40,972	347,191	6.5	63,409	434,009	6.2	60,482	437,788
2033	1,002,350	4.2	42,099	346,486	6.5	65,153	433,128	6.2	62,146	436,899

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	
2024	\$ 785,205	8.0%	\$62,816	\$ 481,751	8.6%	\$67,528	\$ 499,874	9.7%	\$76,165	\$ 543,343
2025	806,798	8.0	64,544	486,372	8.6	69,385	504,669	9.7	78,259	548,555
2026	828,985	8.0	66,319	490,516	8.6	71,293	508,969	9.7	80,412	553,229
2027	851,782	8.0	68,143	494,128	8.6	73,253	512,717	9.7	82,623	557,303
2028	875,206	8.0	70,016	497,148	8.6	75,268	515,851	9.7	84,895	560,709
2029	899,274	8.0	71,942	499,512	8.6	77,338	518,303	9.7	87,230	563,375
2030	924,004	8.0	73,920	501,149	8.6	79,464	520,002	9.7	89,628	565,221
2031	949,414	8.0	75,953	501,984	8.6	81,650	520,868	9.7	92,093	566,163
2032	975,523	8.0	78,042	501,936	8.6	83,895	520,818	9.7	94,626	566,109
2033	1,002,350	8.0	80,188	500,917	8.6	86,202	519,760	9.7	97,228	564,959

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	
2024	\$ 785,205	10.9%	\$85,587	\$ 583,143	11.5%	\$90,299	\$ 604,904	13.3%	\$104,432	\$ 666,507
2025	806,798	10.9	87,941	588,737	11.5	92,782	610,707	13.3	107,304	672,901
2026	828,985	10.9	90,359	593,754	11.5	95,333	615,911	13.3	110,255	678,635
2027	851,782	10.9	92,844	598,127	11.5	97,955	620,447	13.3	113,287	683,633
2028	875,206	10.9	95,397	601,783	11.5	100,649	624,239	13.3	116,402	687,812
2029	899,274	10.9	98,021	604,644	11.5	103,417	627,207	13.3	119,603	691,082
2030	924,004	10.9	100,716	606,625	11.5	106,260	629,262	13.3	122,893	693,347
2031	949,414	10.9	103,486	607,636	11.5	109,183	630,310	13.3	126,272	694,502
2032	975,523	10.9	106,332	607,578	11.5	112,185	630,249	13.3	129,745	694,435
2033	1,002,350	10.9	109,256	606,344	11.5	115,270	628,969	13.3	133,313	693,025

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.





# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	9.7%	\$76,165	\$ 326,151	12.0%	\$94,225	\$ 407,739	12.0%	\$94,225	\$ 417,487
2025	806,798	9.7	78,259	329,280	12.0	96,816	411,650	12.0	96,816	421,492
2026	828,985	9.7	80,412	332,086	12.0	99,478	415,158	12.0	99,478	425,084
2027	851,782	9.7	82,623	334,532	12.0	102,214	418,215	12.0	102,214	428,214
2028	875,206	9.7	84,895	336,577	12.0	105,025	420,771	12.0	105,025	430,831
2029	899,274	9.7	87,230	338,177	12.0	107,913	422,771	12.0	107,913	432,879
2030	924,004	9.7	89,628	339,285	12.0	110,880	424,156	12.0	110,880	434,298
2031	949,414	9.7	92,093	339,850	12.0	113,930	424,863	12.0	113,930	435,022
2032	975,523	9.7	94,626	339,817	12.0	117,063	424,822	12.0	117,063	434,980
2033	1,002,350	9.7	97,228	339,127	12.0	120,282	423,959	12.0	120,282	434,097

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	
2024	\$ 785,205	13.7%	\$107,573	\$ 476,191	14.1%	\$110,714	\$ 489,254	15.3%	\$120,136	\$ 534,909
2025	806,798	13.7	110,531	480,759	14.1	113,759	493,947	15.3	123,440	540,040
2026	828,985	13.7	113,571	484,856	14.1	116,887	498,156	15.3	126,835	544,642
2027	851,782	13.7	116,694	488,427	14.1	120,101	501,825	15.3	130,323	548,653
2028	875,206	13.7	119,903	491,412	14.1	123,404	504,892	15.3	133,907	552,006
2029	899,274	13.7	123,201	493,748	14.1	126,798	507,292	15.3	137,589	554,630
2030	924,004	13.7	126,589	495,366	14.1	130,285	508,954	15.3	141,373	556,448
2031	949,414	13.7	130,070	496,191	14.1	133,867	509,802	15.3	145,260	557,375
2032	975,523	13.7	133,647	496,143	14.1	137,549	509,753	15.3	149,255	557,321
2033	1,002,350	13.7	137,322	495,135	14.1	141,331	508,718	15.3	153,360	556,189

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	
2024	\$ 785,205	16.4%	\$128,774	\$ 570,762	17.0%	\$133,485	\$ 593,608	18.7%	\$146,833	\$ 652,335
2025	806,798	16.4	132,315	576,237	17.0	137,156	599,302	18.7	150,871	658,593
2026	828,985	16.4	135,954	581,147	17.0	140,927	604,409	18.7	155,020	664,205
2027	851,782	16.4	139,692	585,427	17.0	144,803	608,860	18.7	159,283	669,096
2028	875,206	16.4	143,534	589,005	17.0	148,785	612,581	18.7	163,664	673,186
2029	899,274	16.4	147,481	591,805	17.0	152,877	615,493	18.7	168,164	676,386
2030	924,004	16.4	151,537	593,744	17.0	157,081	617,510	18.7	172,789	678,603
2031	949,414	16.4	155,704	594,733	17.0	161,400	618,539	18.7	177,540	679,734
2032	975,523	16.4	159,986	594,676	17.0	165,839	618,479	18.7	182,423	679,669
2033	1,002,350	16.4	164,385	593,468	17.0	170,400	617,223	18.7	187,439	678,289

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	7.8%	\$61,246	\$ 326,151	10.1%	\$79,306	\$ 407,739	10.1%	\$79,306	\$ 417,487
2025	806,798	7.8	62,930	329,280	10.1	81,487	411,650	10.1	81,487	421,492
2026	828,985	7.8	64,661	332,086	10.1	83,727	415,158	10.1	83,727	425,084
2027	851,782	7.8	66,439	334,532	10.1	86,030	418,215	10.1	86,030	428,214
2028	875,206	7.8	68,266	336,577	10.1	88,396	420,771	10.1	88,396	430,831
2029	899,274	7.8	70,143	338,177	10.1	90,827	422,771	10.1	90,827	432,879
2030	924,004	7.8	72,072	339,285	10.1	93,324	424,156	10.1	93,324	434,298
2031	949,414	7.8	74,054	339,850	10.1	95,891	424,863	10.1	95,891	435,022
2032	975,523	7.8	76,091	339,817	10.1	98,528	424,822	10.1	98,528	434,980
2033	1,002,350	7.8	78,183	339,127	10.1	101,237	423,959	10.1	101,237	434,097

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	
2024	\$ 785,205	11.8%	\$92,654	\$ 476,191	12.2%	\$95,795	\$ 489,254	13.4%	\$105,217	\$ 534,909
2025	806,798	11.8	95,202	480,759	12.2	98,429	493,947	13.4	108,111	540,040
2026	828,985	11.8	97,820	484,856	12.2	101,136	498,156	13.4	111,084	544,642
2027	851,782	11.8	100,510	488,427	12.2	103,917	501,825	13.4	114,139	548,653
2028	875,206	11.8	103,274	491,412	12.2	106,775	504,892	13.4	117,278	552,006
2029	899,274	11.8	106,114	493,748	12.2	109,711	507,292	13.4	120,503	554,630
2030	924,004	11.8	109,032	495,366	12.2	112,728	508,954	13.4	123,817	556,448
2031	949,414	11.8	112,031	496,191	12.2	115,829	509,802	13.4	127,221	557,375
2032	975,523	11.8	115,112	496,143	12.2	119,014	509,753	13.4	130,720	557,321
2033	1,002,350	11.8	118,277	495,135	12.2	122,287	508,718	13.4	134,315	556,189

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	
2024	\$ 785,205	14.5%	\$113,855	\$ 570,762	15.1%	\$118,566	\$ 593,608	16.8%	\$131,914	\$ 652,335
2025	806,798	14.5	116,986	576,237	15.1	121,826	599,302	16.8	135,542	658,593
2026	828,985	14.5	120,203	581,147	15.1	125,177	604,409	16.8	139,269	664,205
2027	851,782	14.5	123,508	585,427	15.1	128,619	608,860	16.8	143,099	669,096
2028	875,206	14.5	126,905	589,005	15.1	132,156	612,581	16.8	147,035	673,186
2029	899,274	14.5	130,395	591,805	15.1	135,790	615,493	16.8	151,078	676,386
2030	924,004	14.5	133,981	593,744	15.1	139,525	617,510	16.8	155,233	678,603
2031	949,414	14.5	137,665	594,733	15.1	143,362	618,539	16.8	159,502	679,734
2032	975,523	14.5	141,451	594,676	15.1	147,304	618,479	16.8	163,888	679,669
2033	1,002,350	14.5	145,341	593,468	15.1	151,355	617,223	16.8	168,395	678,289

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	5.9%	\$46,327	\$ 326,151	8.2%	\$64,387	\$ 407,739	8.2%	\$64,387	\$ 417,487
2025	806,798	5.9	47,601	329,280	8.2	66,157	411,650	8.2	66,157	421,492
2026	828,985	5.9	48,910	332,086	8.2	67,977	415,158	8.2	67,977	425,084
2027	851,782	5.9	50,255	334,532	8.2	69,846	418,215	8.2	69,846	428,214
2028	875,206	5.9	51,637	336,577	8.2	71,767	420,771	8.2	71,767	430,831
2029	899,274	5.9	53,057	338,177	8.2	73,740	422,771	8.2	73,740	432,879
2030	924,004	5.9	54,516	339,285	8.2	75,768	424,156	8.2	75,768	434,298
2031	949,414	5.9	56,015	339,850	8.2	77,852	424,863	8.2	77,852	435,022
2032	975,523	5.9	57,556	339,817	8.2	79,993	424,822	8.2	79,993	434,980
2033	1,002,350	5.9	59,139	339,127	8.2	82,193	423,959	8.2	82,193	434,097

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	
2024	\$ 785,205	9.9%	\$77,735	\$ 476,191	10.3%	\$80,876	\$ 489,254	11.5%	\$90,299	\$ 534,909
2025	806,798	9.9	79,873	480,759	10.3	83,100	493,947	11.5	92,782	540,040
2026	828,985	9.9	82,070	484,856	10.3	85,385	498,156	11.5	95,333	544,642
2027	851,782	9.9	84,326	488,427	10.3	87,734	501,825	11.5	97,955	548,653
2028	875,206	9.9	86,645	491,412	10.3	90,146	504,892	11.5	100,649	552,006
2029	899,274	9.9	89,028	493,748	10.3	92,625	507,292	11.5	103,417	554,630
2030	924,004	9.9	91,476	495,366	10.3	95,172	508,954	11.5	106,260	556,448
2031	949,414	9.9	93,992	496,191	10.3	97,790	509,802	11.5	109,183	557,375
2032	975,523	9.9	96,577	496,143	10.3	100,479	509,753	11.5	112,185	557,321
2033	1,002,350	9.9	99,233	495,135	10.3	103,242	508,718	11.5	115,270	556,189

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	
2024	\$ 785,205	12.6%	\$98,936	\$ 570,762	13.2%	\$103,647	\$ 593,608	14.9%	\$116,996	\$ 652,335
2025	806,798	12.6	101,657	576,237	13.2	106,497	599,302	14.9	120,213	658,593
2026	828,985	12.6	104,452	581,147	13.2	109,426	604,409	14.9	123,519	664,205
2027	851,782	12.6	107,325	585,427	13.2	112,435	608,860	14.9	126,916	669,096
2028	875,206	12.6	110,276	589,005	13.2	115,527	612,581	14.9	130,406	673,186
2029	899,274	12.6	113,309	591,805	13.2	118,704	615,493	14.9	133,992	676,386
2030	924,004	12.6	116,425	593,744	13.2	121,969	617,510	14.9	137,677	678,603
2031	949,414	12.6	119,626	594,733	13.2	125,323	618,539	14.9	141,463	679,734
2032	975,523	12.6	122,916	594,676	13.2	128,769	618,479	14.9	145,353	679,669
2033	1,002,350	12.6	126,296	593,468	13.2	132,310	617,223	14.9	149,350	678,289

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	4.0%	\$31,408	\$ 326,151	6.3%	\$49,468	\$ 407,739	6.3%	\$49,468	\$ 417,487
2025	806,798	4.0	32,272	329,280	6.3	50,828	411,650	6.3	50,828	421,492
2026	828,985	4.0	33,159	332,086	6.3	52,226	415,158	6.3	52,226	425,084
2027	851,782	4.0	34,071	334,532	6.3	53,662	418,215	6.3	53,662	428,214
2028	875,206	4.0	35,008	336,577	6.3	55,138	420,771	6.3	55,138	430,831
2029	899,274	4.0	35,971	338,177	6.3	56,654	422,771	6.3	56,654	432,879
2030	924,004	4.0	36,960	339,285	6.3	58,212	424,156	6.3	58,212	434,298
2031	949,414	4.0	37,977	339,850	6.3	59,813	424,863	6.3	59,813	435,022
2032	975,523	4.0	39,021	339,817	6.3	61,458	424,822	6.3	61,458	434,980
2033	1,002,350	4.0	40,094	339,127	6.3	63,148	423,959	6.3	63,148	434,097

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	
2024	\$ 785,205	8.0%	\$62,816	\$ 476,191	8.4%	\$65,957	\$ 489,254	9.6%	\$75,380	\$ 534,909
2025	806,798	8.0	64,544	480,759	8.4	67,771	493,947	9.6	77,453	540,040
2026	828,985	8.0	66,319	484,856	8.4	69,635	498,156	9.6	79,583	544,642
2027	851,782	8.0	68,143	488,427	8.4	71,550	501,825	9.6	81,771	548,653
2028	875,206	8.0	70,016	491,412	8.4	73,517	504,892	9.6	84,020	552,006
2029	899,274	8.0	71,942	493,748	8.4	75,539	507,292	9.6	86,330	554,630
2030	924,004	8.0	73,920	495,366	8.4	77,616	508,954	9.6	88,704	556,448
2031	949,414	8.0	75,953	496,191	8.4	79,751	509,802	9.6	91,144	557,375
2032	975,523	8.0	78,042	496,143	8.4	81,944	509,753	9.6	93,650	557,321
2033	1,002,350	8.0	80,188	495,135	8.4	84,197	508,718	9.6	96,226	556,189

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	
2024	\$ 785,205	10.7%	\$84,017	\$ 570,762	11.3%	\$88,728	\$ 593,608	13.0%	\$102,077	\$ 652,335
2025	806,798	10.7	86,327	576,237	11.3	91,168	599,302	13.0	104,884	658,593
2026	828,985	10.7	88,701	581,147	11.3	93,675	604,409	13.0	107,768	664,205
2027	851,782	10.7	91,141	585,427	11.3	96,251	608,860	13.0	110,732	669,096
2028	875,206	10.7	93,647	589,005	11.3	98,898	612,581	13.0	113,777	673,186
2029	899,274	10.7	96,222	591,805	11.3	101,618	615,493	13.0	116,906	676,386
2030	924,004	10.7	98,868	593,744	11.3	104,412	617,510	13.0	120,121	678,603
2031	949,414	10.7	101,587	594,733	11.3	107,284	618,539	13.0	123,424	679,734
2032	975,523	10.7	104,381	594,676	11.3	110,234	618,479	13.0	126,818	679,669
2033	1,002,350	10.7	107,251	593,468	11.3	113,266	617,223	13.0	130,306	678,289

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	10.1%	\$79,306	\$ 337,966	12.4%	\$97,365	\$ 422,550	12.4%	\$97,365	\$ 432,609
2025	806,798	10.1	81,487	341,208	12.4	100,043	426,603	12.4	100,043	436,759
2026	828,985	10.1	83,727	344,115	12.4	102,794	430,238	12.4	102,794	440,481
2027	851,782	10.1	86,030	346,649	12.4	105,621	433,406	12.4	105,621	443,725
2028	875,206	10.1	88,396	348,768	12.4	108,526	436,055	12.4	108,526	446,437
2029	899,274	10.1	90,827	350,426	12.4	111,510	438,128	12.4	111,510	448,559
2030	924,004	10.1	93,324	351,574	12.4	114,576	439,564	12.4	114,576	450,029
2031	949,414	10.1	95,891	352,160	12.4	117,727	440,296	12.4	117,727	450,779
2032	975,523	10.1	98,528	352,126	12.4	120,965	440,254	12.4	120,965	450,736
2033	1,002,350	10.1	101,237	351,411	12.4	124,291	439,360	12.4	124,291	449,821

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	
2024	\$ 785,205	14.2%	\$111,499	\$ 493,504	14.7%	\$115,425	\$ 507,024	15.8%	\$124,062	\$ 554,333
2025	806,798	14.2	114,565	498,238	14.7	118,599	511,888	15.8	127,474	559,651
2026	828,985	14.2	117,716	502,484	14.7	121,861	516,250	15.8	130,980	564,420
2027	851,782	14.2	120,953	506,184	14.7	125,212	520,052	15.8	134,582	568,577
2028	875,206	14.2	124,279	509,278	14.7	128,655	523,231	15.8	138,283	572,052
2029	899,274	14.2	127,697	511,699	14.7	132,193	525,719	15.8	142,085	574,772
2030	924,004	14.2	131,209	513,376	14.7	135,829	527,442	15.8	145,993	576,656
2031	949,414	14.2	134,817	514,231	14.7	139,564	528,321	15.8	150,007	577,617
2032	975,523	14.2	138,524	514,182	14.7	143,402	528,270	15.8	154,133	577,561
2033	1,002,350	14.2	142,334	513,138	14.7	147,345	527,197	15.8	158,371	576,388

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	
2024	\$ 785,205	17.0%	\$133,485	\$ 591,502	17.6%	\$138,196	\$ 615,174	19.3%	\$151,545	\$ 676,088
2025	806,798	17.0	137,156	597,176	17.6	141,996	621,075	19.3	155,712	682,573
2026	828,985	17.0	140,927	602,265	17.6	145,901	626,367	19.3	159,994	688,389
2027	851,782	17.0	144,803	606,700	17.6	149,914	630,980	19.3	164,394	693,458
2028	875,206	17.0	148,785	610,408	17.6	154,036	634,837	19.3	168,915	697,697
2029	899,274	17.0	152,877	613,310	17.6	158,272	637,855	19.3	173,560	701,014
2030	924,004	17.0	157,081	615,320	17.6	162,625	639,945	19.3	178,333	703,311
2031	949,414	17.0	161,400	616,345	17.6	167,097	641,011	19.3	183,237	704,483
2032	975,523	17.0	165,839	616,286	17.6	171,692	640,949	19.3	188,276	704,415
2033	1,002,350	17.0	170,400	615,034	17.6	176,414	639,647	19.3	193,454	702,984

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	8.2%	\$64,387	\$ 337,966	10.5%	\$82,447	\$ 422,550	10.5%	\$82,447	\$ 432,609
2025	806,798	8.2	66,157	341,208	10.5	84,714	426,603	10.5	84,714	436,759
2026	828,985	8.2	67,977	344,115	10.5	87,043	430,238	10.5	87,043	440,481
2027	851,782	8.2	69,846	346,649	10.5	89,437	433,406	10.5	89,437	443,725
2028	875,206	8.2	71,767	348,768	10.5	91,897	436,055	10.5	91,897	446,437
2029	899,274	8.2	73,740	350,426	10.5	94,424	438,128	10.5	94,424	448,559
2030	924,004	8.2	75,768	351,574	10.5	97,020	439,564	10.5	97,020	450,029
2031	949,414	8.2	77,852	352,160	10.5	99,688	440,296	10.5	99,688	450,779
2032	975,523	8.2	79,993	352,126	10.5	102,430	440,254	10.5	102,430	450,736
2033	1,002,350	8.2	82,193	351,411	10.5	105,247	439,360	10.5	105,247	449,821

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	
2024	\$ 785,205	12.3%	\$96,580	\$ 493,504	12.8%	\$100,506	\$ 507,024	13.9%	\$109,143	\$ 554,333
2025	806,798	12.3	99,236	498,238	12.8	103,270	511,888	13.9	112,145	559,651
2026	828,985	12.3	101,965	502,484	12.8	106,110	516,250	13.9	115,229	564,420
2027	851,782	12.3	104,769	506,184	12.8	109,028	520,052	13.9	118,398	568,577
2028	875,206	12.3	107,650	509,278	12.8	112,026	523,231	13.9	121,654	572,052
2029	899,274	12.3	110,611	511,699	12.8	115,107	525,719	13.9	124,999	574,772
2030	924,004	12.3	113,652	513,376	12.8	118,273	527,442	13.9	128,437	576,656
2031	949,414	12.3	116,778	514,231	12.8	121,525	528,321	13.9	131,969	577,617
2032	975,523	12.3	119,989	514,182	12.8	124,867	528,270	13.9	135,598	577,561
2033	1,002,350	12.3	123,289	513,138	12.8	128,301	527,197	13.9	139,327	576,388

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	
2024	\$ 785,205	15.1%	\$118,566	\$ 591,502	15.7%	\$123,277	\$ 615,174	17.4%	\$136,626	\$ 676,088
2025	806,798	15.1	121,826	597,176	15.7	126,667	621,075	17.4	140,383	682,573
2026	828,985	15.1	125,177	602,265	15.7	130,151	626,367	17.4	144,243	688,389
2027	851,782	15.1	128,619	606,700	15.7	133,730	630,980	17.4	148,210	693,458
2028	875,206	15.1	132,156	610,408	15.7	137,407	634,837	17.4	152,286	697,697
2029	899,274	15.1	135,790	613,310	15.7	141,186	637,855	17.4	156,474	701,014
2030	924,004	15.1	139,525	615,320	15.7	145,069	639,945	17.4	160,777	703,311
2031	949,414	15.1	143,362	616,345	15.7	149,058	641,011	17.4	165,198	704,483
2032	975,523	15.1	147,304	616,286	15.7	153,157	640,949	17.4	169,741	704,415
2033	1,002,350	15.1	151,355	615,034	15.7	157,369	639,647	17.4	174,409	702,984

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.



# Crawford County 911 Emergency Services - Public Safety

## 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 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	
2024	\$ 785,205	6.3%	\$49,468	\$ 337,966	8.6%	\$67,528	\$ 422,550	8.6%	\$67,528	\$ 432,609
2025	806,798	6.3	50,828	341,208	8.6	69,385	426,603	8.6	69,385	436,759
2026	828,985	6.3	52,226	344,115	8.6	71,293	430,238	8.6	71,293	440,481
2027	851,782	6.3	53,662	346,649	8.6	73,253	433,406	8.6	73,253	443,725
2028	875,206	6.3	55,138	348,768	8.6	75,268	436,055	8.6	75,268	446,437
2029	899,274	6.3	56,654	350,426	8.6	77,338	438,128	8.6	77,338	448,559
2030	924,004	6.3	58,212	351,574	8.6	79,464	439,564	8.6	79,464	450,029
2031	949,414	6.3	59,813	352,160	8.6	81,650	440,296	8.6	81,650	450,779
2032	975,523	6.3	61,458	352,126	8.6	83,895	440,254	8.6	83,895	450,736
2033	1,002,350	6.3	63,148	351,411	8.6	86,202	439,360	8.6	86,202	449,821

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	
2024	\$ 785,205	10.4%	\$81,661	\$ 493,504	10.9%	\$85,587	\$ 507,024	12.0%	\$94,225	\$ 554,333
2025	806,798	10.4	83,907	498,238	10.9	87,941	511,888	12.0	96,816	559,651
2026	828,985	10.4	86,214	502,484	10.9	90,359	516,250	12.0	99,478	564,420
2027	851,782	10.4	88,585	506,184	10.9	92,844	520,052	12.0	102,214	568,577
2028	875,206	10.4	91,021	509,278	10.9	95,397	523,231	12.0	105,025	572,052
2029	899,274	10.4	93,524	511,699	10.9	98,021	525,719	12.0	107,913	574,772
2030	924,004	10.4	96,096	513,376	10.9	100,716	527,442	12.0	110,880	576,656
2031	949,414	10.4	98,739	514,231	10.9	103,486	528,321	12.0	113,930	577,617
2032	975,523	10.4	101,454	514,182	10.9	106,332	528,270	12.0	117,063	577,561
2033	1,002,350	10.4	104,244	513,138	10.9	109,256	527,197	12.0	120,282	576,388

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	
2024	\$ 785,205	13.2%	\$103,647	\$ 591,502	13.8%	\$108,358	\$ 615,174	15.5%	\$121,707	\$ 676,088
2025	806,798	13.2	106,497	597,176	13.8	111,338	621,075	15.5	125,054	682,573
2026	828,985	13.2	109,426	602,265	13.8	114,400	626,367	15.5	128,493	688,389
2027	851,782	13.2	112,435	606,700	13.8	117,546	630,980	15.5	132,026	693,458
2028	875,206	13.2	115,527	610,408	13.8	120,778	634,837	15.5	135,657	697,697
2029	899,274	13.2	118,704	613,310	13.8	124,100	637,855	15.5	139,387	701,014
2030	924,004	13.2	121,969	615,320	13.8	127,513	639,945	15.5	143,221	703,311
2031	949,414	13.2	125,323	616,345	13.8	131,019	641,011	15.5	147,159	704,483
2032	975,523	13.2	128,769	616,286	13.8	134,622	640,949	15.5	151,206	704,415
2033	1,002,350	13.2	132,310	615,034	13.8	138,324	639,647	15.5	155,364	702,984

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.





# Crawford County 911 Emergency Services - Public Safety

## 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	
2024	\$ 785,205	4.4%	\$34,549	\$ 337,966	6.7%	\$52,609	\$ 422,550	6.7%	\$52,609	\$ 432,609
2025	806,798	4.4	35,499	341,208	6.7	54,055	426,603	6.7	54,055	436,759
2026	828,985	4.4	36,475	344,115	6.7	55,542	430,238	6.7	55,542	440,481
2027	851,782	4.4	37,478	346,649	6.7	57,069	433,406	6.7	57,069	443,725
2028	875,206	4.4	38,509	348,768	6.7	58,639	436,055	6.7	58,639	446,437
2029	899,274	4.4	39,568	350,426	6.7	60,251	438,128	6.7	60,251	448,559
2030	924,004	4.4	40,656	351,574	6.7	61,908	439,564	6.7	61,908	450,029
2031	949,414	4.4	41,774	352,160	6.7	63,611	440,296	6.7	63,611	450,779
2032	975,523	4.4	42,923	352,126	6.7	65,360	440,254	6.7	65,360	450,736
2033	1,002,350	4.4	44,103	351,411	6.7	67,157	439,360	6.7	67,157	449,821

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	
2024	\$ 785,205	8.5%	\$66,742	\$ 493,504	9.0%	\$70,668	\$ 507,024	10.1%	\$79,306	\$ 554,333
2025	806,798	8.5	68,578	498,238	9.0	72,612	511,888	10.1	81,487	559,651
2026	828,985	8.5	70,464	502,484	9.0	74,609	516,250	10.1	83,727	564,420
2027	851,782	8.5	72,401	506,184	9.0	76,660	520,052	10.1	86,030	568,577
2028	875,206	8.5	74,393	509,278	9.0	78,769	523,231	10.1	88,396	572,052
2029	899,274	8.5	76,438	511,699	9.0	80,935	525,719	10.1	90,827	574,772
2030	924,004	8.5	78,540	513,376	9.0	83,160	527,442	10.1	93,324	576,656
2031	949,414	8.5	80,700	514,231	9.0	85,447	528,321	10.1	95,891	577,617
2032	975,523	8.5	82,919	514,182	9.0	87,797	528,270	10.1	98,528	577,561
2033	1,002,350	8.5	85,200	513,138	9.0	90,212	527,197	10.1	101,237	576,388

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	
2024	\$ 785,205	11.3%	\$88,728	\$ 591,502	11.9%	\$93,439	\$ 615,174	13.6%	\$106,788	\$ 676,088
2025	806,798	11.3	91,168	597,176	11.9	96,009	621,075	13.6	109,725	682,573
2026	828,985	11.3	93,675	602,265	11.9	98,649	626,367	13.6	112,742	688,389
2027	851,782	11.3	96,251	606,700	11.9	101,362	630,980	13.6	115,842	693,458
2028	875,206	11.3	98,898	610,408	11.9	104,150	634,837	13.6	119,028	697,697
2029	899,274	11.3	101,618	613,310	11.9	107,014	637,855	13.6	122,301	701,014
2030	924,004	11.3	104,412	615,320	11.9	109,956	639,945	13.6	125,665	703,311
2031	949,414	11.3	107,284	616,345	11.9	112,980	641,011	13.6	129,120	704,483
2032	975,523	11.3	110,234	616,286	11.9	116,087	640,949	13.6	132,671	704,415
2033	1,002,350	11.3	113,266	615,034	11.9	119,280	639,647	13.6	136,320	702,984

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 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 2.75%.
- 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.

