



The Initial Valuation For  
**Crawford County**  
as of August 31, 2020



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October 21, 2020

Crawford County  
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 - 106.685 RSMo). This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

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

The contribution requirement for benefits likely to accrue as a result of the future service of your employees is described on pages 4 thru 7 as the normal cost rate and the casualty rate. This contribution rate, expressed as a percent of active employee payroll, will depend on the benefit program adopted.

The contribution requirement to pay for benefits likely to result from service rendered by your employees before you join LAGERS is described on pages 4 thru 7 as the prior service cost rate. The value established for prior service is called the unfunded actuarial accrued liability (these amounts are further described in Appendix I). The prior service cost rate is the rate of contribution designed to pay for the unfunded actuarial accrued liability over a period of not more than 30 years.

Section 70.730 of the Revised Statutes of Missouri requires participating employers to contribute the normal cost rate, casualty rate, and prior service cost rate (the total employer contribution rate as shown on pages 4 thru 7). These contributions are mandatory after official action has been taken to join the System.

The total annual dollar costs shown on pages 8 and 9 represent the dollar cost of each benefit program for a one year period based on the payroll reported for this actuarial valuation. In budgeting amounts for LAGERS contributions you should consider any changes in payroll which have been made since data was submitted for the valuation and any changes anticipated to be made before the end of the period for which you are preparing the budget.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of this report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 29, 2020.

The computed contributions required for LAGERS participation will permit the System to continue to operate in accordance with the actuarial principles of level cost financing and the State law which governs LAGERS. This valuation assumed the ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our expertise and not performed. Summary provisions of the law as well as benefit illustrations can be found in Appendices III and IV.

Projections needed to comply with Missouri State disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision are available upon request from LAGERS.

Please note that this entire report must be available as public information for at least 45 calendar days prior to the date final official action is taken by your governing body to join the System. You may wish to make notice of this report in the official minutes of the next meeting of your governing body. This action would not be binding on your subdivision, yet would establish the beginning date of the 45 day waiting period.

In accordance with LAGERS Board policy, the employer contribution rates established by this valuation report are valid for purposes of joining the System for a two year period from the date of this valuation which was August 31, 2020. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

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

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

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA



## Alternate Plan Provisions Affecting Employer Contribution Rates

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

**Member Contribution Rate - 0% Plan.** Under the 0% plan, there is no individual employee contribution to the plan, no individual account maintained for each employee, and no refund paid to employees who terminate before being eligible for a benefit.

**Member Contribution Rate - 2%, 4% or 6% Plan.** Under any plan other than 0%, each covered member contributes a percentage of compensation to LAGERS. If an employee terminates before being eligible for an immediate benefit, the member's contributions, plus any interest credited to the member's individual account, are refunded upon request.

The law further provides for nine different benefit programs (benefit formula factors) and allows an employer to elect "rule of 80" eligibility for benefits. Under the rule of 80, employees are eligible for unreduced benefits at the earlier of (i) attainment of their minimum service retirement age or (ii) such time as their years of age plus years of LAGERS credited service equals 80.

In total this allows for 144 different combinations of benefit plans, giving employers considerable latitude in designing the retirement program which they feel best suits their particular situation.

The applicable combinations of these items may be changed from time to time, however, there are limitations on the frequency of changes. A more detailed description of plan provisions may be found in Appendix III of this report.

# Crawford County

## Employer Contribution Rates 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.80%	0.20%	0.70%	7.70%	5.80%	3.90%	2.00%
	Police	7.80	0.40	0.70	8.90	7.00	5.10	3.20
L-3	General	8.30	0.30	0.80	9.40	7.50	5.60	3.70
	Police	9.50	0.50	0.80	10.80	8.90	7.00	5.10
LT-4(65)	General	7.40	0.20	0.70	8.30	6.40	4.50	2.60
	Police	9.30	0.40	0.90	10.60	8.70	6.80	4.90
LT-5(65)	General	8.70	0.30	0.90	9.90	8.00	6.10	4.20
	Police	10.60	0.50	1.00	12.10	10.20	8.30	6.40
L-7	General	9.80	0.30	1.00	11.10	9.20	7.30	5.40
	Police	11.20	0.60	1.00	12.80	10.90	9.00	7.10
LT-8(65)	General	10.10	0.30	1.00	11.40	9.50	7.60	5.70
	Police	11.90	0.60	1.10	13.60	11.70	9.80	7.90
L-12	General	11.30	0.40	1.20	12.90	11.00	9.10	7.20
	Police	12.90	0.70	1.20	14.80	12.90	11.00	9.10
LT-14(65)	General	11.40	0.40	1.20	13.00	11.10	9.20	7.30
	Police	13.30	0.70	1.20	15.20	13.30	11.40	9.50
L-6	General	12.70	0.50	1.30	14.50	12.60	10.70	8.80
	Police	14.60	0.80	1.40	16.80	14.90	13.00	11.10

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

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

# Crawford County

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.00%	0.20%	0.70%	7.90%	6.00%	4.10%	2.20%
	Police	8.00	0.40	0.70	9.10	7.20	5.30	3.40
L-3	General	8.60	0.30	0.90	9.80	7.90	6.00	4.10
	Police	9.80	0.50	0.90	11.20	9.30	7.40	5.50
LT-4(65)	General	7.60	0.20	0.70	8.50	6.60	4.70	2.80
	Police	9.60	0.40	0.90	10.90	9.00	7.10	5.20
LT-5(65)	General	9.00	0.30	0.90	10.20	8.30	6.40	4.50
	Police	11.00	0.50	1.00	12.50	10.60	8.70	6.80
L-7	General	10.10	0.30	1.00	11.40	9.50	7.60	5.70
	Police	11.60	0.60	1.00	13.20	11.30	9.40	7.50
LT-8(65)	General	10.40	0.30	1.10	11.80	9.90	8.00	6.10
	Police	12.40	0.60	1.10	14.10	12.20	10.30	8.40
L-12	General	11.60	0.40	1.20	13.20	11.30	9.40	7.50
	Police	13.30	0.70	1.20	15.20	13.30	11.40	9.50
LT-14(65)	General	11.80	0.40	1.20	13.40	11.50	9.60	7.70
	Police	13.70	0.70	1.30	15.70	13.80	11.90	10.00
L-6	General	13.20	0.50	1.40	15.10	13.20	11.30	9.40
	Police	15.10	0.80	1.40	17.30	15.40	13.50	11.60

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

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

# Crawford County

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.20%	0.20%	0.70%	8.10%	6.20%	4.30%	2.40%
	Police	7.90	0.40	0.70	9.00	7.10	5.20	3.30
L-3	General	8.80	0.30	0.80	9.90	8.00	6.10	4.20
	Police	9.60	0.50	0.90	11.00	9.10	7.20	5.30
LT-4(65)	General	8.20	0.20	0.80	9.20	7.30	5.40	3.50
	Police	9.50	0.40	0.90	10.80	8.90	7.00	5.10
LT-5(65)	General	9.50	0.30	0.90	10.70	8.80	6.90	5.00
	Police	10.80	0.50	1.00	12.30	10.40	8.50	6.60
L-7	General	10.30	0.30	1.00	11.60	9.70	7.80	5.90
	Police	11.30	0.60	1.00	12.90	11.00	9.10	7.20
LT-8(65)	General	10.80	0.30	1.10	12.20	10.30	8.40	6.50
	Police	12.20	0.60	1.10	13.90	12.00	10.10	8.20
L-12	General	11.90	0.40	1.20	13.50	11.60	9.70	7.80
	Police	13.10	0.70	1.20	15.00	13.10	11.20	9.30
LT-14(65)	General	12.20	0.40	1.20	13.80	11.90	10.00	8.10
	Police	13.50	0.70	1.30	15.50	13.60	11.70	9.80
L-6	General	13.50	0.50	1.30	15.30	13.40	11.50	9.60
	Police	14.80	0.80	1.40	17.00	15.10	13.20	11.30

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

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

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



# Crawford County

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.40%	0.20%	0.70%	8.30%	6.40%	4.50%	2.60%
	Police	8.10	0.40	0.70	9.20	7.30	5.40	3.50
L-3	General	9.00	0.30	0.90	10.20	8.30	6.40	4.50
	Police	9.90	0.50	0.90	11.30	9.40	7.50	5.60
LT-4(65)	General	8.50	0.20	0.80	9.50	7.60	5.70	3.80
	Police	9.80	0.40	0.90	11.10	9.20	7.30	5.40
LT-5(65)	General	9.80	0.30	1.00	11.10	9.20	7.30	5.40
	Police	11.20	0.50	1.10	12.80	10.90	9.00	7.10
L-7	General	10.70	0.30	1.00	12.00	10.10	8.20	6.30
	Police	11.70	0.60	1.10	13.40	11.50	9.60	7.70
LT-8(65)	General	11.20	0.30	1.10	12.60	10.70	8.80	6.90
	Police	12.60	0.60	1.20	14.40	12.50	10.60	8.70
L-12	General	12.30	0.40	1.20	13.90	12.00	10.10	8.20
	Police	13.50	0.70	1.30	15.50	13.60	11.70	9.80
LT-14(65)	General	12.50	0.40	1.20	14.10	12.20	10.30	8.40
	Police	14.00	0.70	1.30	16.00	14.10	12.20	10.30
L-6	General	13.90	0.50	1.40	15.80	13.90	12.00	10.10
	Police	15.30	0.80	1.40	17.50	15.60	13.70	11.80

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

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

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

# Crawford County

## Employer Contribution Dollars General

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

### Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 189,125	\$ 142,457	\$ 95,790	\$ 49,123
L-3	230,879	184,212	137,545	90,878
LT-4(65)	203,862	157,194	110,527	63,860
LT-5(65)	243,160	196,493	149,826	103,159
L-7	272,634	225,967	179,300	132,633
LT-8(65)	280,003	233,335	186,668	140,001
L-12	316,845	270,178	223,511	176,844
LT-14(65)	319,301	272,634	225,967	179,300
L-6	356,144	309,477	262,809	216,142

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 194,037	\$ 147,370	\$ 100,703	\$ 54,036
L-3	240,704	194,037	147,370	100,703
LT-4(65)	208,774	162,107	115,440	68,773
LT-5(65)	250,529	203,862	157,194	110,527
L-7	280,003	233,335	186,668	140,001
LT-8(65)	289,827	243,160	196,493	149,826
L-12	324,213	277,546	230,879	184,212
LT-14(65)	329,126	282,459	235,792	189,125
L-6	370,881	324,213	277,546	230,879

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 198,949	\$ 152,282	\$ 105,615	\$ 58,948
L-3	243,160	196,493	149,826	103,159
LT-4(65)	225,967	179,300	132,633	85,966
LT-5(65)	262,809	216,142	169,475	122,808
L-7	284,915	238,248	191,581	144,914
LT-8(65)	299,652	252,985	206,318	159,651
L-12	331,582	284,915	238,248	191,581
LT-14(65)	338,950	292,283	245,616	198,949
L-6	375,793	329,126	282,459	235,792

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 203,862	\$ 157,194	\$ 110,527	\$ 63,860
L-3	250,529	203,862	157,194	110,527
LT-4(65)	233,335	186,668	140,001	93,334
LT-5(65)	272,634	225,967	179,300	132,633
L-7	294,740	248,072	201,405	154,738
LT-8(65)	309,477	262,809	216,142	169,475
L-12	341,407	294,740	248,072	201,405
LT-14(65)	346,319	299,652	252,985	206,318
L-6	388,074	341,407	294,740	248,072

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

## Employer Contribution Dollars Police

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	\$ 87,476	\$ 68,802	\$ 50,127	\$ 31,452
L-3	106,151	87,476	68,802	50,127
LT-4(65)	104,185	85,511	66,836	48,161
LT-5(65)	118,928	100,254	81,579	62,904
L-7	125,809	107,134	88,459	69,784
LT-8(65)	133,672	114,997	96,322	77,648
L-12	145,466	126,792	108,117	89,442
LT-14(65)	149,398	130,723	112,048	93,374
L-6	165,124	146,449	127,774	109,100

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 89,442	\$ 70,767	\$ 52,093	\$ 33,418
L-3	110,083	91,408	72,733	54,058
LT-4(65)	107,134	88,459	69,784	51,110
LT-5(65)	122,860	104,185	85,511	66,836
L-7	129,740	111,065	92,391	73,716
LT-8(65)	138,586	119,911	101,237	82,562
L-12	149,398	130,723	112,048	93,374
LT-14(65)	154,312	135,637	116,963	98,288
L-6	170,038	151,364	132,689	114,014

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 88,459	\$ 69,784	\$ 51,110	\$ 32,435
L-3	108,117	89,442	70,767	52,093
LT-4(65)	106,151	87,476	68,802	50,127
LT-5(65)	120,894	102,220	83,545	64,870
L-7	126,792	108,117	89,442	70,767
LT-8(65)	136,620	117,946	99,271	80,596
L-12	147,432	128,757	110,083	91,408
LT-14(65)	152,346	133,672	114,997	96,322
L-6	167,090	148,415	129,740	111,065

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 90,425	\$ 71,750	\$ 53,076	\$ 34,401
L-3	111,065	92,391	73,716	55,041
LT-4(65)	109,100	90,425	71,750	53,076
LT-5(65)	125,809	107,134	88,459	69,784
L-7	131,706	113,031	94,356	75,682
LT-8(65)	141,535	122,860	104,185	85,511
L-12	152,346	133,672	114,997	96,322
LT-14(65)	157,261	138,586	119,911	101,237
L-6	172,004	153,329	134,655	115,980

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

## Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	71	25
Annual Payroll	\$ 2,456,163	\$ 982,880

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

#### Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 287,696	\$ 297,049
	Police	117,307	121,243
L-3	General	359,506	371,322
	Police	146,560	151,504
LT-4(65)	General	311,830	322,054
	Police	147,795	152,839
LT-5(65)	General	377,604	390,063
	Police	169,478	175,177
L-7	General	431,500	445,572
	Police	175,871	181,800
LT-8(65)	General	443,573	458,016
	Police	191,133	197,578
L-12	General	503,355	519,863
	Police	205,277	212,164
LT-14(65)	General	509,407	526,068
	Police	212,882	220,041
L-6	General	575,344	594,205
	Police	234,544	242,356

# Crawford County

## Unfunded Actuarial Accrued Liability (UAAL)

### Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 287,061	\$ 296,769
	Police	119,975	124,085
L-3	General	358,830	370,909
	Police	149,946	155,075
LT-4(65)	General	339,619	351,221
	Police	157,555	162,971
LT-5(65)	General	398,305	411,777
	Police	178,168	184,219
L-7	General	430,593	445,192
	Police	179,913	186,056
LT-8(65)	General	456,855	472,346
	Police	198,699	205,470
L-12	General	502,379	519,383
	Police	209,996	217,133
LT-14(65)	General	515,521	532,938
	Police	219,398	226,837
L-6	General	574,158	593,521
	Police	239,932	248,059

## **APPENDIX II**

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### **SUMMARY OF FINANCIAL ASSUMPTIONS**



# Summary of Assumptions Used in Actuarial Valuations

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

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

## Schedule 1.

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

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

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

## Schedule 2.

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

#### Early Retirement

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

#### Normal Retirement

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

## Schedule 2. (Continued)

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

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

## **APPENDIX III**

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### **SUMMARY OF LAGERS PROVISIONS**

# Missouri Local Government Employees Retirement System

## Brief Summary of LAGERS

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

#### (Section references are to RSMo)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) The surviving spouse receives an allowance equal to the Option A allowance (joint and 75% survivor benefit) computed based upon the deceased members' service & earnings record to time of death.
- (b) When no spouse benefit is payable, the dependent children under age 18 (age 23 if they are full time students) each receive an equal share of 60% of an age & service allowance computed based upon the deceased member's service & earnings record to time of death.
- (c) If the death is determined to be duty related, the 5 year service requirement is waived and the benefit is based on years of credited service the member would have completed had the member continued in LAGERS-covered employment to age 60.

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

- (a) Subject to the maximum in (b), the redetermined amount is the amount other-wise payable multiplied by: 100% plus up to 4%, as determined by the LAGERS Board of Trustees, for each full year of retirement.
- (b) The redetermined amount may not exceed the amount otherwise payable multiplied by the ratio of the Consumer Price Index for the immediately preceding month of June to the Consumer Price Index for the month of June immediately preceding retirement.

**Member Contributions.** Sections 70.690 & 70.705. Each member contributes a percent of compensation beginning after completion of sufficient employment for 6 months of credited service. The law governing LAGERS has a provision for the adoption of a 2%, 4% or 6% member contribution rate.

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

The law governing LAGERS also has a provision for the adoption of a 0% plan in which the full cost of LAGERS participation is paid by the employer. Adoption of the 0% plan may be done at the time of membership or a later date; however, a change in the member contribution rate may not be made more frequently than every 2 years. Under the 0% plan there is no individual account maintained for each employee and no refund of contributions if an employee terminates before being eligible for a benefit.

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



## **APPENDIX IV**

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### **BENEFIT ILLUSTRATIONS**

# Missouri LAGERS

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

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

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

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

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

# Missouri LAGERS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# Missouri LAGERS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

## **APPENDIX V**

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

# Crawford County - General

August 31, 2020

## 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	2	1						3	\$ 111,000
25-29	6	1						7	\$ 225,520
30-34	4	2						6	\$ 201,520
35-39	11	4						15	\$ 501,161
40-44	5	1						6	\$ 189,240
45-49	3			1		1		5	\$ 182,960
50-54	4							4	\$ 136,760
55-59	6	1		1	1	1		10	\$ 361,232
60-64	5	1			1		2	9	\$ 330,050
65-69	1	1			1			3	\$ 122,540
70 & Over	1	2						3	\$ 94,180
<b>Totals</b>	<b>48</b>	<b>14</b>		<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>71</b>	<b>\$ 2,456,163</b>

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

Age: 45.5 years.

Benefit Service: 0.0 years.

Annual Pay: \$34,594.

# Crawford County - Police

August 31, 2020

## 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	1							1	\$ 33,200
25-29	3							3	\$ 109,100
30-34	4							4	\$ 149,640
35-39	3	1	1					5	\$ 193,160
40-44	3		1	1				5	\$ 211,940
45-49	3	2						5	\$ 215,220
50-54									
55-59	2							2	\$ 70,620
60-64									
65-69									
<b>70 &amp; Over</b>									
<b>Totals</b>	<b>19</b>	<b>3</b>	<b>2</b>	<b>1</b>				<b>25</b>	<b>\$ 982,880</b>

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

Age: 38.7 years.

Benefit Service: 0.0 years.

Annual Pay: \$39,315.

## **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.





October 21, 2020 E-mail

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

Dear Bob:

Enclosed is the report of the August 31, 2020 Initial Actuarial Valuation of LAGERS benefits for the employees of

Crawford County

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



October 21, 2020

Crawford County  
Steelville, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.660 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the August 31, 2020 Initial Valuation for the Crawford County dated October 21, 2020.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of the Initial Valuation Report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 29, 2020. The unfunded actuarial accrued liability shown for each member contribution rate option is based on the 0% member contribution rate plan.

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

Respectfully submitted,

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

Mita D. Drazilov, ASA, FCA, MAAA

# Crawford County - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	7.7%	\$189,125	\$ 287,696	9.4%	\$230,879	\$ 359,506	8.3%	\$203,862	\$ 311,830
2021	2,535,988	7.7	195,271	291,637	9.4	238,383	364,431	8.3	210,487	316,102
2022	2,618,408	7.7	201,617	295,314	9.4	246,130	369,026	8.3	217,328	320,088
2023	2,703,506	7.7	208,170	298,690	9.4	254,130	373,245	8.3	224,391	323,748
2024	2,791,370	7.7	214,935	301,725	9.4	262,389	377,038	8.3	231,684	327,038
2025	2,882,090	7.7	221,921	304,375	9.4	270,916	380,349	8.3	239,213	329,910
2026	2,975,758	7.7	229,133	306,592	9.4	279,721	383,120	8.3	246,988	332,313
2027	3,072,470	7.7	236,580	308,325	9.4	288,812	385,285	8.3	255,015	334,191
2028	3,172,325	7.7	244,269	309,517	9.4	298,199	386,775	8.3	263,303	335,483
2029	3,275,426	7.7	252,208	310,108	9.4	307,890	387,514	8.3	271,860	336,124

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	9.9%	\$243,160	\$ 377,604	11.1%	\$272,634	\$ 431,500	11.4%	\$280,003	\$ 443,573
2021	2,535,988	9.9	251,063	382,777	11.1	281,495	437,411	11.4	289,103	449,650
2022	2,618,408	9.9	259,222	387,604	11.1	290,643	442,926	11.4	298,499	455,320
2023	2,703,506	9.9	267,647	392,035	11.1	300,089	447,990	11.4	308,200	460,526
2024	2,791,370	9.9	276,346	396,018	11.1	309,842	452,542	11.4	318,216	465,205
2025	2,882,090	9.9	285,327	399,496	11.1	319,912	456,516	11.4	328,558	469,291
2026	2,975,758	9.9	294,600	402,406	11.1	330,309	459,841	11.4	339,236	472,709
2027	3,072,470	9.9	304,175	404,680	11.1	341,044	462,440	11.4	350,262	475,381
2028	3,172,325	9.9	314,060	406,245	11.1	352,128	464,228	11.4	361,645	477,219
2029	3,275,426	9.9	324,267	407,021	11.1	363,572	465,114	11.4	373,399	478,130

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	12.9%	\$316,845	\$ 503,355	13.0%	\$319,301	\$ 509,407	14.5%	\$356,144	\$ 575,344
2021	2,535,988	12.9	327,142	510,251	13.0	329,678	516,386	14.5	367,718	583,226
2022	2,618,408	12.9	337,775	516,685	13.0	340,393	522,897	14.5	379,669	590,580
2023	2,703,506	12.9	348,752	522,592	13.0	351,456	528,875	14.5	392,008	597,332
2024	2,791,370	12.9	360,087	527,902	13.0	362,878	534,249	14.5	404,749	603,401
2025	2,882,090	12.9	371,790	532,538	13.0	374,672	538,941	14.5	417,903	608,700
2026	2,975,758	12.9	383,873	536,417	13.0	386,849	542,867	14.5	431,485	613,134
2027	3,072,470	12.9	396,349	539,449	13.0	399,421	545,935	14.5	445,508	616,599
2028	3,172,325	12.9	409,230	541,535	13.0	412,402	548,046	14.5	459,987	618,983
2029	3,275,426	12.9	422,530	542,569	13.0	425,805	549,092	14.5	474,937	620,165

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	5.8%	\$142,457	\$ 287,696	7.5%	\$184,212	\$ 359,506	6.4%	\$157,194	\$ 311,830
2021	2,535,988	5.8	147,087	291,637	7.5	190,199	364,431	6.4	162,303	316,102
2022	2,618,408	5.8	151,868	295,314	7.5	196,381	369,026	6.4	167,578	320,088
2023	2,703,506	5.8	156,803	298,690	7.5	202,763	373,245	6.4	173,024	323,748
2024	2,791,370	5.8	161,899	301,725	7.5	209,353	377,038	6.4	178,648	327,038
2025	2,882,090	5.8	167,161	304,375	7.5	216,157	380,349	6.4	184,454	329,910
2026	2,975,758	5.8	172,594	306,592	7.5	223,182	383,120	6.4	190,449	332,313
2027	3,072,470	5.8	178,203	308,325	7.5	230,435	385,285	6.4	196,638	334,191
2028	3,172,325	5.8	183,995	309,517	7.5	237,924	386,775	6.4	203,029	335,483
2029	3,275,426	5.8	189,975	310,108	7.5	245,657	387,514	6.4	209,627	336,124

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	8.0%	\$196,493	\$ 377,604	9.2%	\$225,967	\$ 431,500	9.5%	\$233,335	\$ 443,573
2021	2,535,988	8.0	202,879	382,777	9.2	233,311	437,411	9.5	240,919	449,650
2022	2,618,408	8.0	209,473	387,604	9.2	240,894	442,926	9.5	248,749	455,320
2023	2,703,506	8.0	216,280	392,035	9.2	248,723	447,990	9.5	256,833	460,526
2024	2,791,370	8.0	223,310	396,018	9.2	256,806	452,542	9.5	265,180	465,205
2025	2,882,090	8.0	230,567	399,496	9.2	265,152	456,516	9.5	273,799	469,291
2026	2,975,758	8.0	238,061	402,406	9.2	273,770	459,841	9.5	282,697	472,709
2027	3,072,470	8.0	245,798	404,680	9.2	282,667	462,440	9.5	291,885	475,381
2028	3,172,325	8.0	253,786	406,245	9.2	291,854	464,228	9.5	301,371	477,219
2029	3,275,426	8.0	262,034	407,021	9.2	301,339	465,114	9.5	311,165	478,130

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	11.0%	\$270,178	\$ 503,355	11.1%	\$272,634	\$ 509,407	12.6%	\$309,477	\$ 575,344
2021	2,535,988	11.0	278,959	510,251	11.1	281,495	516,386	12.6	319,534	583,226
2022	2,618,408	11.0	288,025	516,685	11.1	290,643	522,897	12.6	329,919	590,580
2023	2,703,506	11.0	297,386	522,592	11.1	300,089	528,875	12.6	340,642	597,332
2024	2,791,370	11.0	307,051	527,902	11.1	309,842	534,249	12.6	351,713	603,401
2025	2,882,090	11.0	317,030	532,538	11.1	319,912	538,941	12.6	363,143	608,700
2026	2,975,758	11.0	327,333	536,417	11.1	330,309	542,867	12.6	374,946	613,134
2027	3,072,470	11.0	337,972	539,449	11.1	341,044	545,935	12.6	387,131	616,599
2028	3,172,325	11.0	348,956	541,535	11.1	352,128	548,046	12.6	399,713	618,983
2029	3,275,426	11.0	360,297	542,569	11.1	363,572	549,092	12.6	412,704	620,165

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	3.9%	\$95,790	\$ 287,696	5.6%	\$137,545	\$ 359,506	4.5%	\$110,527	\$ 311,830
2021	2,535,988	3.9	98,904	291,637	5.6	142,015	364,431	4.5	114,119	316,102
2022	2,618,408	3.9	102,118	295,314	5.6	146,631	369,026	4.5	117,828	320,088
2023	2,703,506	3.9	105,437	298,690	5.6	151,396	373,245	4.5	121,658	323,748
2024	2,791,370	3.9	108,863	301,725	5.6	156,317	377,038	4.5	125,612	327,038
2025	2,882,090	3.9	112,402	304,375	5.6	161,397	380,349	4.5	129,694	329,910
2026	2,975,758	3.9	116,055	306,592	5.6	166,642	383,120	4.5	133,909	332,313
2027	3,072,470	3.9	119,826	308,325	5.6	172,058	385,285	4.5	138,261	334,191
2028	3,172,325	3.9	123,721	309,517	5.6	177,650	386,775	4.5	142,755	335,483
2029	3,275,426	3.9	127,742	310,108	5.6	183,424	387,514	4.5	147,394	336,124

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	6.1%	\$149,826	\$ 377,604	7.3%	\$179,300	\$ 431,500	7.6%	\$186,668	\$ 443,573
2021	2,535,988	6.1	154,695	382,777	7.3	185,127	437,411	7.6	192,735	449,650
2022	2,618,408	6.1	159,723	387,604	7.3	191,144	442,926	7.6	198,999	455,320
2023	2,703,506	6.1	164,914	392,035	7.3	197,356	447,990	7.6	205,466	460,526
2024	2,791,370	6.1	170,274	396,018	7.3	203,770	452,542	7.6	212,144	465,205
2025	2,882,090	6.1	175,807	399,496	7.3	210,393	456,516	7.6	219,039	469,291
2026	2,975,758	6.1	181,521	402,406	7.3	217,230	459,841	7.6	226,158	472,709
2027	3,072,470	6.1	187,421	404,680	7.3	224,290	462,440	7.6	233,508	475,381
2028	3,172,325	6.1	193,512	406,245	7.3	231,580	464,228	7.6	241,097	477,219
2029	3,275,426	6.1	199,801	407,021	7.3	239,106	465,114	7.6	248,932	478,130

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	9.1%	\$223,511	\$ 503,355	9.2%	\$225,967	\$ 509,407	10.7%	\$262,809	\$ 575,344
2021	2,535,988	9.1	230,775	510,251	9.2	233,311	516,386	10.7	271,351	583,226
2022	2,618,408	9.1	238,275	516,685	9.2	240,894	522,897	10.7	280,170	590,580
2023	2,703,506	9.1	246,019	522,592	9.2	248,723	528,875	10.7	289,275	597,332
2024	2,791,370	9.1	254,015	527,902	9.2	256,806	534,249	10.7	298,677	603,401
2025	2,882,090	9.1	262,270	532,538	9.2	265,152	538,941	10.7	308,384	608,700
2026	2,975,758	9.1	270,794	536,417	9.2	273,770	542,867	10.7	318,406	613,134
2027	3,072,470	9.1	279,595	539,449	9.2	282,667	545,935	10.7	328,754	616,599
2028	3,172,325	9.1	288,682	541,535	9.2	291,854	548,046	10.7	339,439	618,983
2029	3,275,426	9.1	298,064	542,569	9.2	301,339	549,092	10.7	350,471	620,165

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	2.0%	\$49,123	\$ 287,696	3.7%	\$90,878	\$ 359,506	2.6%	\$63,860	\$ 311,830
2021	2,535,988	2.0	50,720	291,637	3.7	93,832	364,431	2.6	65,936	316,102
2022	2,618,408	2.0	52,368	295,314	3.7	96,881	369,026	2.6	68,079	320,088
2023	2,703,506	2.0	54,070	298,690	3.7	100,030	373,245	2.6	70,291	323,748
2024	2,791,370	2.0	55,827	301,725	3.7	103,281	377,038	2.6	72,576	327,038
2025	2,882,090	2.0	57,642	304,375	3.7	106,637	380,349	2.6	74,934	329,910
2026	2,975,758	2.0	59,515	306,592	3.7	110,103	383,120	2.6	77,370	332,313
2027	3,072,470	2.0	61,449	308,325	3.7	113,681	385,285	2.6	79,884	334,191
2028	3,172,325	2.0	63,447	309,517	3.7	117,376	386,775	2.6	82,480	335,483
2029	3,275,426	2.0	65,509	310,108	3.7	121,191	387,514	2.6	85,161	336,124

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	4.2%	\$103,159	\$ 377,604	5.4%	\$132,633	\$ 431,500	5.7%	\$140,001	\$ 443,573
2021	2,535,988	4.2	106,511	382,777	5.4	136,943	437,411	5.7	144,551	449,650
2022	2,618,408	4.2	109,973	387,604	5.4	141,394	442,926	5.7	149,249	455,320
2023	2,703,506	4.2	113,547	392,035	5.4	145,989	447,990	5.7	154,100	460,526
2024	2,791,370	4.2	117,238	396,018	5.4	150,734	452,542	5.7	159,108	465,205
2025	2,882,090	4.2	121,048	399,496	5.4	155,633	456,516	5.7	164,279	469,291
2026	2,975,758	4.2	124,982	402,406	5.4	160,691	459,841	5.7	169,618	472,709
2027	3,072,470	4.2	129,044	404,680	5.4	165,913	462,440	5.7	175,131	475,381
2028	3,172,325	4.2	133,238	406,245	5.4	171,306	464,228	5.7	180,823	477,219
2029	3,275,426	4.2	137,568	407,021	5.4	176,873	465,114	5.7	186,699	478,130

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	7.2%	\$176,844	\$ 503,355	7.3%	\$179,300	\$ 509,407	8.8%	\$216,142	\$ 575,344
2021	2,535,988	7.2	182,591	510,251	7.3	185,127	516,386	8.8	223,167	583,226
2022	2,618,408	7.2	188,525	516,685	7.3	191,144	522,897	8.8	230,420	590,580
2023	2,703,506	7.2	194,652	522,592	7.3	197,356	528,875	8.8	237,909	597,332
2024	2,791,370	7.2	200,979	527,902	7.3	203,770	534,249	8.8	245,641	603,401
2025	2,882,090	7.2	207,510	532,538	7.3	210,393	538,941	8.8	253,624	608,700
2026	2,975,758	7.2	214,255	536,417	7.3	217,230	542,867	8.8	261,867	613,134
2027	3,072,470	7.2	221,218	539,449	7.3	224,290	545,935	8.8	270,377	616,599
2028	3,172,325	7.2	228,407	541,535	7.3	231,580	548,046	8.8	279,165	618,983
2029	3,275,426	7.2	235,831	542,569	7.3	239,106	549,092	8.8	288,237	620,165

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	7.9%	\$194,037	\$ 297,049	9.8%	\$240,704	\$ 371,322	8.5%	\$208,774	\$ 322,054
2021	2,535,988	7.9	200,343	301,119	9.8	248,527	376,409	8.5	215,559	326,466
2022	2,618,408	7.9	206,854	304,916	9.8	256,604	381,155	8.5	222,565	330,583
2023	2,703,506	7.9	213,577	308,402	9.8	264,944	385,513	8.5	229,798	334,363
2024	2,791,370	7.9	220,518	311,536	9.8	273,554	389,430	8.5	237,266	337,760
2025	2,882,090	7.9	227,685	314,272	9.8	282,445	392,850	8.5	244,978	340,726
2026	2,975,758	7.9	235,085	316,561	9.8	291,624	395,712	8.5	252,939	343,208
2027	3,072,470	7.9	242,725	318,350	9.8	301,102	397,948	8.5	261,160	345,148
2028	3,172,325	7.9	250,614	319,581	9.8	310,888	399,487	8.5	269,648	346,483
2029	3,275,426	7.9	258,759	320,191	9.8	320,992	400,250	8.5	278,411	347,145

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	10.2%	\$250,529	\$ 390,063	11.4%	\$280,003	\$ 445,572	11.8%	\$289,827	\$ 458,016
2021	2,535,988	10.2	258,671	395,407	11.4	289,103	451,676	11.8	299,247	464,291
2022	2,618,408	10.2	267,078	400,393	11.4	298,499	457,371	11.8	308,972	470,145
2023	2,703,506	10.2	275,758	404,971	11.4	308,200	462,600	11.8	319,014	475,520
2024	2,791,370	10.2	284,720	409,086	11.4	318,216	467,300	11.8	329,382	480,352
2025	2,882,090	10.2	293,973	412,679	11.4	328,558	471,404	11.8	340,087	484,571
2026	2,975,758	10.2	303,527	415,685	11.4	339,236	474,838	11.8	351,139	488,101
2027	3,072,470	10.2	313,392	418,034	11.4	350,262	477,522	11.8	362,551	490,860
2028	3,172,325	10.2	323,577	419,651	11.4	361,645	479,369	11.8	374,334	492,758
2029	3,275,426	10.2	334,093	420,452	11.4	373,399	480,284	11.8	386,500	493,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	13.2%	\$324,213	\$ 519,863	13.4%	\$329,126	\$ 526,068	15.1%	\$370,881	\$ 594,205
2021	2,535,988	13.2	334,750	526,985	13.4	339,822	533,275	15.1	382,934	602,346
2022	2,618,408	13.2	345,630	533,630	13.4	350,867	539,999	15.1	395,380	609,941
2023	2,703,506	13.2	356,863	539,731	13.4	362,270	546,173	15.1	408,229	616,914
2024	2,791,370	13.2	368,461	545,215	13.4	374,044	551,723	15.1	421,497	623,182
2025	2,882,090	13.2	380,436	550,003	13.4	386,200	556,568	15.1	435,196	628,655
2026	2,975,758	13.2	392,800	554,009	13.4	398,752	560,622	15.1	449,339	633,234
2027	3,072,470	13.2	405,566	557,140	13.4	411,711	563,790	15.1	463,943	636,813
2028	3,172,325	13.2	418,747	559,294	13.4	425,092	565,970	15.1	479,021	639,276
2029	3,275,426	13.2	432,356	560,362	13.4	438,907	567,051	15.1	494,589	640,497

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 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 - General

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

(Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	6.0%	\$147,370	\$ 297,049	7.9%	\$194,037	\$ 371,322	6.6%	\$162,107	\$ 322,054
2021	2,535,988	6.0	152,159	301,119	7.9	200,343	376,409	6.6	167,375	326,466
2022	2,618,408	6.0	157,104	304,916	7.9	206,854	381,155	6.6	172,815	330,583
2023	2,703,506	6.0	162,210	308,402	7.9	213,577	385,513	6.6	178,431	334,363
2024	2,791,370	6.0	167,482	311,536	7.9	220,518	389,430	6.6	184,230	337,760
2025	2,882,090	6.0	172,925	314,272	7.9	227,685	392,850	6.6	190,218	340,726
2026	2,975,758	6.0	178,545	316,561	7.9	235,085	395,712	6.6	196,400	343,208
2027	3,072,470	6.0	184,348	318,350	7.9	242,725	397,948	6.6	202,783	345,148
2028	3,172,325	6.0	190,340	319,581	7.9	250,614	399,487	6.6	209,373	346,483
2029	3,275,426	6.0	196,526	320,191	7.9	258,759	400,250	6.6	216,178	347,145

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	8.3%	\$203,862	\$ 390,063	9.5%	\$233,335	\$ 445,572	9.9%	\$243,160	\$ 458,016
2021	2,535,988	8.3	210,487	395,407	9.5	240,919	451,676	9.9	251,063	464,291
2022	2,618,408	8.3	217,328	400,393	9.5	248,749	457,371	9.9	259,222	470,145
2023	2,703,506	8.3	224,391	404,971	9.5	256,833	462,600	9.9	267,647	475,520
2024	2,791,370	8.3	231,684	409,086	9.5	265,180	467,300	9.9	276,346	480,352
2025	2,882,090	8.3	239,213	412,679	9.5	273,799	471,404	9.9	285,327	484,571
2026	2,975,758	8.3	246,988	415,685	9.5	282,697	474,838	9.9	294,600	488,101
2027	3,072,470	8.3	255,015	418,034	9.5	291,885	477,522	9.9	304,175	490,860
2028	3,172,325	8.3	263,303	419,651	9.5	301,371	479,369	9.9	314,060	492,758
2029	3,275,426	8.3	271,860	420,452	9.5	311,165	480,284	9.9	324,267	493,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	11.3%	\$277,546	\$ 519,863	11.5%	\$282,459	\$ 526,068	13.2%	\$324,213	\$ 594,205
2021	2,535,988	11.3	286,567	526,985	11.5	291,639	533,275	13.2	334,750	602,346
2022	2,618,408	11.3	295,880	533,630	11.5	301,117	539,999	13.2	345,630	609,941
2023	2,703,506	11.3	305,496	539,731	11.5	310,903	546,173	13.2	356,863	616,914
2024	2,791,370	11.3	315,425	545,215	11.5	321,008	551,723	13.2	368,461	623,182
2025	2,882,090	11.3	325,676	550,003	11.5	331,440	556,568	13.2	380,436	628,655
2026	2,975,758	11.3	336,261	554,009	11.5	342,212	560,622	13.2	392,800	633,234
2027	3,072,470	11.3	347,189	557,140	11.5	353,334	563,790	13.2	405,566	636,813
2028	3,172,325	11.3	358,473	559,294	11.5	364,817	565,970	13.2	418,747	639,276
2029	3,275,426	11.3	370,123	560,362	11.5	376,674	567,051	13.2	432,356	640,497

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 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 - General

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

(Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	4.1%	\$100,703	\$ 297,049	6.0%	\$147,370	\$ 371,322	4.7%	\$115,440	\$ 322,054
2021	2,535,988	4.1	103,976	301,119	6.0	152,159	376,409	4.7	119,191	326,466
2022	2,618,408	4.1	107,355	304,916	6.0	157,104	381,155	4.7	123,065	330,583
2023	2,703,506	4.1	110,844	308,402	6.0	162,210	385,513	4.7	127,065	334,363
2024	2,791,370	4.1	114,446	311,536	6.0	167,482	389,430	4.7	131,194	337,760
2025	2,882,090	4.1	118,166	314,272	6.0	172,925	392,850	4.7	135,458	340,726
2026	2,975,758	4.1	122,006	316,561	6.0	178,545	395,712	4.7	139,861	343,208
2027	3,072,470	4.1	125,971	318,350	6.0	184,348	397,948	4.7	144,406	345,148
2028	3,172,325	4.1	130,065	319,581	6.0	190,340	399,487	4.7	149,099	346,483
2029	3,275,426	4.1	134,292	320,191	6.0	196,526	400,250	4.7	153,945	347,145

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	6.4%	\$157,194	\$ 390,063	7.6%	\$186,668	\$ 445,572	8.0%	\$196,493	\$ 458,016
2021	2,535,988	6.4	162,303	395,407	7.6	192,735	451,676	8.0	202,879	464,291
2022	2,618,408	6.4	167,578	400,393	7.6	198,999	457,371	8.0	209,473	470,145
2023	2,703,506	6.4	173,024	404,971	7.6	205,466	462,600	8.0	216,280	475,520
2024	2,791,370	6.4	178,648	409,086	7.6	212,144	467,300	8.0	223,310	480,352
2025	2,882,090	6.4	184,454	412,679	7.6	219,039	471,404	8.0	230,567	484,571
2026	2,975,758	6.4	190,449	415,685	7.6	226,158	474,838	8.0	238,061	488,101
2027	3,072,470	6.4	196,638	418,034	7.6	233,508	477,522	8.0	245,798	490,860
2028	3,172,325	6.4	203,029	419,651	7.6	241,097	479,369	8.0	253,786	492,758
2029	3,275,426	6.4	209,627	420,452	7.6	248,932	480,284	8.0	262,034	493,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	9.4%	\$230,879	\$ 519,863	9.6%	\$235,792	\$ 526,068	11.3%	\$277,546	\$ 594,205
2021	2,535,988	9.4	238,383	526,985	9.6	243,455	533,275	11.3	286,567	602,346
2022	2,618,408	9.4	246,130	533,630	9.6	251,367	539,999	11.3	295,880	609,941
2023	2,703,506	9.4	254,130	539,731	9.6	259,537	546,173	11.3	305,496	616,914
2024	2,791,370	9.4	262,389	545,215	9.6	267,972	551,723	11.3	315,425	623,182
2025	2,882,090	9.4	270,916	550,003	9.6	276,681	556,568	11.3	325,676	628,655
2026	2,975,758	9.4	279,721	554,009	9.6	285,673	560,622	11.3	336,261	633,234
2027	3,072,470	9.4	288,812	557,140	9.6	294,957	563,790	11.3	347,189	636,813
2028	3,172,325	9.4	298,199	559,294	9.6	304,543	565,970	11.3	358,473	639,276
2029	3,275,426	9.4	307,890	560,362	9.6	314,441	567,051	11.3	370,123	640,497

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 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 - General

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

(Member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	2.2%	\$54,036	\$ 297,049	4.1%	\$100,703	\$ 371,322	2.8%	\$68,773	\$ 322,054
2021	2,535,988	2.2	55,792	301,119	4.1	103,976	376,409	2.8	71,008	326,466
2022	2,618,408	2.2	57,605	304,916	4.1	107,355	381,155	2.8	73,315	330,583
2023	2,703,506	2.2	59,477	308,402	4.1	110,844	385,513	2.8	75,698	334,363
2024	2,791,370	2.2	61,410	311,536	4.1	114,446	389,430	2.8	78,158	337,760
2025	2,882,090	2.2	63,406	314,272	4.1	118,166	392,850	2.8	80,699	340,726
2026	2,975,758	2.2	65,467	316,561	4.1	122,006	395,712	2.8	83,321	343,208
2027	3,072,470	2.2	67,594	318,350	4.1	125,971	397,948	2.8	86,029	345,148
2028	3,172,325	2.2	69,791	319,581	4.1	130,065	399,487	2.8	88,825	346,483
2029	3,275,426	2.2	72,059	320,191	4.1	134,292	400,250	2.8	91,712	347,145

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	4.5%	\$110,527	\$ 390,063	5.7%	\$140,001	\$ 445,572	6.1%	\$149,826	\$ 458,016
2021	2,535,988	4.5	114,119	395,407	5.7	144,551	451,676	6.1	154,695	464,291
2022	2,618,408	4.5	117,828	400,393	5.7	149,249	457,371	6.1	159,723	470,145
2023	2,703,506	4.5	121,658	404,971	5.7	154,100	462,600	6.1	164,914	475,520
2024	2,791,370	4.5	125,612	409,086	5.7	159,108	467,300	6.1	170,274	480,352
2025	2,882,090	4.5	129,694	412,679	5.7	164,279	471,404	6.1	175,807	484,571
2026	2,975,758	4.5	133,909	415,685	5.7	169,618	474,838	6.1	181,521	488,101
2027	3,072,470	4.5	138,261	418,034	5.7	175,131	477,522	6.1	187,421	490,860
2028	3,172,325	4.5	142,755	419,651	5.7	180,823	479,369	6.1	193,512	492,758
2029	3,275,426	4.5	147,394	420,452	5.7	186,699	480,284	6.1	199,801	493,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	7.5%	\$184,212	\$ 519,863	7.7%	\$189,125	\$ 526,068	9.4%	\$230,879	\$ 594,205
2021	2,535,988	7.5	190,199	526,985	7.7	195,271	533,275	9.4	238,383	602,346
2022	2,618,408	7.5	196,381	533,630	7.7	201,617	539,999	9.4	246,130	609,941
2023	2,703,506	7.5	202,763	539,731	7.7	208,170	546,173	9.4	254,130	616,914
2024	2,791,370	7.5	209,353	545,215	7.7	214,935	551,723	9.4	262,389	623,182
2025	2,882,090	7.5	216,157	550,003	7.7	221,921	556,568	9.4	270,916	628,655
2026	2,975,758	7.5	223,182	554,009	7.7	229,133	560,622	9.4	279,721	633,234
2027	3,072,470	7.5	230,435	557,140	7.7	236,580	563,790	9.4	288,812	636,813
2028	3,172,325	7.5	237,924	559,294	7.7	244,269	565,970	9.4	298,199	639,276
2029	3,275,426	7.5	245,657	560,362	7.7	252,208	567,051	9.4	307,890	640,497

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 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 - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	8.1%	\$198,949	\$ 287,061	9.9%	\$243,160	\$ 358,830	9.2%	\$225,967	\$ 339,619
2021	2,535,988	8.1	205,415	290,994	9.9	251,063	363,746	9.2	233,311	344,272
2022	2,618,408	8.1	212,091	294,663	9.9	259,222	368,333	9.2	240,894	348,613
2023	2,703,506	8.1	218,984	298,032	9.9	267,647	372,544	9.2	248,723	352,599
2024	2,791,370	8.1	226,101	301,060	9.9	276,346	376,329	9.2	256,806	356,182
2025	2,882,090	8.1	233,449	303,704	9.9	285,327	379,634	9.2	265,152	359,310
2026	2,975,758	8.1	241,036	305,916	9.9	294,600	382,399	9.2	273,770	361,927
2027	3,072,470	8.1	248,870	307,645	9.9	304,175	384,560	9.2	282,667	363,972
2028	3,172,325	8.1	256,958	308,835	9.9	314,060	386,047	9.2	291,854	365,379
2029	3,275,426	8.1	265,310	309,425	9.9	324,267	386,784	9.2	301,339	366,077

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	10.7%	\$262,809	\$ 398,305	11.6%	\$284,915	\$ 430,593	12.2%	\$299,652	\$ 456,855
2021	2,535,988	10.7	271,351	403,762	11.6	294,175	436,492	12.2	309,391	463,114
2022	2,618,408	10.7	280,170	408,853	11.6	303,735	441,996	12.2	319,446	468,954
2023	2,703,506	10.7	289,275	413,527	11.6	313,607	447,049	12.2	329,828	474,316
2024	2,791,370	10.7	298,677	417,729	11.6	323,799	451,591	12.2	340,547	479,135
2025	2,882,090	10.7	308,384	421,398	11.6	334,322	455,557	12.2	351,615	483,343
2026	2,975,758	10.7	318,406	424,468	11.6	345,188	458,875	12.2	363,042	486,864
2027	3,072,470	10.7	328,754	426,867	11.6	356,407	461,468	12.2	374,841	489,616
2028	3,172,325	10.7	339,439	428,518	11.6	367,990	463,253	12.2	387,024	491,509
2029	3,275,426	10.7	350,471	429,336	11.6	379,949	464,138	12.2	399,602	492,448

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	13.5%	\$331,582	\$ 502,379	13.8%	\$338,950	\$ 515,521	15.3%	\$375,793	\$ 574,158
2021	2,535,988	13.5	342,358	509,262	13.8	349,966	522,584	15.3	388,006	582,024
2022	2,618,408	13.5	353,485	515,683	13.8	361,340	529,173	15.3	400,616	589,363
2023	2,703,506	13.5	364,973	521,579	13.8	373,084	535,223	15.3	413,636	596,101
2024	2,791,370	13.5	376,835	526,879	13.8	385,209	540,661	15.3	427,080	602,158
2025	2,882,090	13.5	389,082	531,506	13.8	397,728	545,409	15.3	440,960	607,446
2026	2,975,758	13.5	401,727	535,378	13.8	410,655	549,382	15.3	455,291	611,871
2027	3,072,470	13.5	414,783	538,404	13.8	424,001	552,487	15.3	470,088	615,329
2028	3,172,325	13.5	428,264	540,486	13.8	437,781	554,623	15.3	485,366	617,709
2029	3,275,426	13.5	442,183	541,518	13.8	452,009	555,682	15.3	501,140	618,889

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	6.2%	\$152,282	\$ 287,061	8.0%	\$196,493	\$ 358,830	7.3%	\$179,300	\$ 339,619
2021	2,535,988	6.2	157,231	290,994	8.0	202,879	363,746	7.3	185,127	344,272
2022	2,618,408	6.2	162,341	294,663	8.0	209,473	368,333	7.3	191,144	348,613
2023	2,703,506	6.2	167,617	298,032	8.0	216,280	372,544	7.3	197,356	352,599
2024	2,791,370	6.2	173,065	301,060	8.0	223,310	376,329	7.3	203,770	356,182
2025	2,882,090	6.2	178,690	303,704	8.0	230,567	379,634	7.3	210,393	359,310
2026	2,975,758	6.2	184,497	305,916	8.0	238,061	382,399	7.3	217,230	361,927
2027	3,072,470	6.2	190,493	307,645	8.0	245,798	384,560	7.3	224,290	363,972
2028	3,172,325	6.2	196,684	308,835	8.0	253,786	386,047	7.3	231,580	365,379
2029	3,275,426	6.2	203,076	309,425	8.0	262,034	386,784	7.3	239,106	366,077

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	8.8%	\$216,142	\$ 398,305	9.7%	\$238,248	\$ 430,593	10.3%	\$252,985	\$ 456,855
2021	2,535,988	8.8	223,167	403,762	9.7	245,991	436,492	10.3	261,207	463,114
2022	2,618,408	8.8	230,420	408,853	9.7	253,986	441,996	10.3	269,696	468,954
2023	2,703,506	8.8	237,909	413,527	9.7	262,240	447,049	10.3	278,461	474,316
2024	2,791,370	8.8	245,641	417,729	9.7	270,763	451,591	10.3	287,511	479,135
2025	2,882,090	8.8	253,624	421,398	9.7	279,563	455,557	10.3	296,855	483,343
2026	2,975,758	8.8	261,867	424,468	9.7	288,649	458,875	10.3	306,503	486,864
2027	3,072,470	8.8	270,377	426,867	9.7	298,030	461,468	10.3	316,464	489,616
2028	3,172,325	8.8	279,165	428,518	9.7	307,716	463,253	10.3	326,749	491,509
2029	3,275,426	8.8	288,237	429,336	9.7	317,716	464,138	10.3	337,369	492,448

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	11.6%	\$284,915	\$ 502,379	11.9%	\$292,283	\$ 515,521	13.4%	\$329,126	\$ 574,158
2021	2,535,988	11.6	294,175	509,262	11.9	301,783	522,584	13.4	339,822	582,024
2022	2,618,408	11.6	303,735	515,683	11.9	311,591	529,173	13.4	350,867	589,363
2023	2,703,506	11.6	313,607	521,579	11.9	321,717	535,223	13.4	362,270	596,101
2024	2,791,370	11.6	323,799	526,879	11.9	332,173	540,661	13.4	374,044	602,158
2025	2,882,090	11.6	334,322	531,506	11.9	342,969	545,409	13.4	386,200	607,446
2026	2,975,758	11.6	345,188	535,378	11.9	354,115	549,382	13.4	398,752	611,871
2027	3,072,470	11.6	356,407	538,404	11.9	365,624	552,487	13.4	411,711	615,329
2028	3,172,325	11.6	367,990	540,486	11.9	377,507	554,623	13.4	425,092	617,709
2029	3,275,426	11.6	379,949	541,518	11.9	389,776	555,682	13.4	438,907	618,889

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	4.3%	\$105,615	\$ 287,061	6.1%	\$149,826	\$ 358,830	5.4%	\$132,633	\$ 339,619
2021	2,535,988	4.3	109,047	290,994	6.1	154,695	363,746	5.4	136,943	344,272
2022	2,618,408	4.3	112,592	294,663	6.1	159,723	368,333	5.4	141,394	348,613
2023	2,703,506	4.3	116,251	298,032	6.1	164,914	372,544	5.4	145,989	352,599
2024	2,791,370	4.3	120,029	301,060	6.1	170,274	376,329	5.4	150,734	356,182
2025	2,882,090	4.3	123,930	303,704	6.1	175,807	379,634	5.4	155,633	359,310
2026	2,975,758	4.3	127,958	305,916	6.1	181,521	382,399	5.4	160,691	361,927
2027	3,072,470	4.3	132,116	307,645	6.1	187,421	384,560	5.4	165,913	363,972
2028	3,172,325	4.3	136,410	308,835	6.1	193,512	386,047	5.4	171,306	365,379
2029	3,275,426	4.3	140,843	309,425	6.1	199,801	386,784	5.4	176,873	366,077

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	6.9%	\$169,475	\$ 398,305	7.8%	\$191,581	\$ 430,593	8.4%	\$206,318	\$ 456,855
2021	2,535,988	6.9	174,983	403,762	7.8	197,807	436,492	8.4	213,023	463,114
2022	2,618,408	6.9	180,670	408,853	7.8	204,236	441,996	8.4	219,946	468,954
2023	2,703,506	6.9	186,542	413,527	7.8	210,873	447,049	8.4	227,095	474,316
2024	2,791,370	6.9	192,605	417,729	7.8	217,727	451,591	8.4	234,475	479,135
2025	2,882,090	6.9	198,864	421,398	7.8	224,803	455,557	8.4	242,096	483,343
2026	2,975,758	6.9	205,327	424,468	7.8	232,109	458,875	8.4	249,964	486,864
2027	3,072,470	6.9	212,000	426,867	7.8	239,653	461,468	8.4	258,087	489,616
2028	3,172,325	6.9	218,890	428,518	7.8	247,441	463,253	8.4	266,475	491,509
2029	3,275,426	6.9	226,004	429,336	7.8	255,483	464,138	8.4	275,136	492,448

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	9.7%	\$238,248	\$ 502,379	10.0%	\$245,616	\$ 515,521	11.5%	\$282,459	\$ 574,158
2021	2,535,988	9.7	245,991	509,262	10.0	253,599	522,584	11.5	291,639	582,024
2022	2,618,408	9.7	253,986	515,683	10.0	261,841	529,173	11.5	301,117	589,363
2023	2,703,506	9.7	262,240	521,579	10.0	270,351	535,223	11.5	310,903	596,101
2024	2,791,370	9.7	270,763	526,879	10.0	279,137	540,661	11.5	321,008	602,158
2025	2,882,090	9.7	279,563	531,506	10.0	288,209	545,409	11.5	331,440	607,446
2026	2,975,758	9.7	288,649	535,378	10.0	297,576	549,382	11.5	342,212	611,871
2027	3,072,470	9.7	298,030	538,404	10.0	307,247	552,487	11.5	353,334	615,329
2028	3,172,325	9.7	307,716	540,486	10.0	317,233	554,623	11.5	364,817	617,709
2029	3,275,426	9.7	317,716	541,518	10.0	327,543	555,682	11.5	376,674	618,889

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	2.4%	\$58,948	\$ 287,061	4.2%	\$103,159	\$ 358,830	3.5%	\$85,966	\$ 339,619
2021	2,535,988	2.4	60,864	290,994	4.2	106,511	363,746	3.5	88,760	344,272
2022	2,618,408	2.4	62,842	294,663	4.2	109,973	368,333	3.5	91,644	348,613
2023	2,703,506	2.4	64,884	298,032	4.2	113,547	372,544	3.5	94,623	352,599
2024	2,791,370	2.4	66,993	301,060	4.2	117,238	376,329	3.5	97,698	356,182
2025	2,882,090	2.4	69,170	303,704	4.2	121,048	379,634	3.5	100,873	359,310
2026	2,975,758	2.4	71,418	305,916	4.2	124,982	382,399	3.5	104,152	361,927
2027	3,072,470	2.4	73,739	307,645	4.2	129,044	384,560	3.5	107,536	363,972
2028	3,172,325	2.4	76,136	308,835	4.2	133,238	386,047	3.5	111,031	365,379
2029	3,275,426	2.4	78,610	309,425	4.2	137,568	386,784	3.5	114,640	366,077

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	5.0%	\$122,808	\$ 398,305	5.9%	\$144,914	\$ 430,593	6.5%	\$159,651	\$ 456,855
2021	2,535,988	5.0	126,799	403,762	5.9	149,623	436,492	6.5	164,839	463,114
2022	2,618,408	5.0	130,920	408,853	5.9	154,486	441,996	6.5	170,197	468,954
2023	2,703,506	5.0	135,175	413,527	5.9	159,507	447,049	6.5	175,728	474,316
2024	2,791,370	5.0	139,569	417,729	5.9	164,691	451,591	6.5	181,439	479,135
2025	2,882,090	5.0	144,105	421,398	5.9	170,043	455,557	6.5	187,336	483,343
2026	2,975,758	5.0	148,788	424,468	5.9	175,570	458,875	6.5	193,424	486,864
2027	3,072,470	5.0	153,624	426,867	5.9	181,276	461,468	6.5	199,711	489,616
2028	3,172,325	5.0	158,616	428,518	5.9	187,167	463,253	6.5	206,201	491,509
2029	3,275,426	5.0	163,771	429,336	5.9	193,250	464,138	6.5	212,903	492,448

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	7.8%	\$191,581	\$ 502,379	8.1%	\$198,949	\$ 515,521	9.6%	\$235,792	\$ 574,158
2021	2,535,988	7.8	197,807	509,262	8.1	205,415	522,584	9.6	243,455	582,024
2022	2,618,408	7.8	204,236	515,683	8.1	212,091	529,173	9.6	251,367	589,363
2023	2,703,506	7.8	210,873	521,579	8.1	218,984	535,223	9.6	259,537	596,101
2024	2,791,370	7.8	217,727	526,879	8.1	226,101	540,661	9.6	267,972	602,158
2025	2,882,090	7.8	224,803	531,506	8.1	233,449	545,409	9.6	276,681	607,446
2026	2,975,758	7.8	232,109	535,378	8.1	241,036	549,382	9.6	285,673	611,871
2027	3,072,470	7.8	239,653	538,404	8.1	248,870	552,487	9.6	294,957	615,329
2028	3,172,325	7.8	247,441	540,486	8.1	256,958	554,623	9.6	304,543	617,709
2029	3,275,426	7.8	255,483	541,518	8.1	265,310	555,682	9.6	314,441	618,889

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	8.3%	\$203,862	\$ 296,769	10.2%	\$250,529	\$ 370,909	9.5%	\$233,335	\$ 351,221
2021	2,535,988	8.3	210,487	300,835	10.2	258,671	375,990	9.5	240,919	356,033
2022	2,618,408	8.3	217,328	304,628	10.2	267,078	380,731	9.5	248,749	360,522
2023	2,703,506	8.3	224,391	308,111	10.2	275,758	385,084	9.5	256,833	364,644
2024	2,791,370	8.3	231,684	311,242	10.2	284,720	388,997	9.5	265,180	368,349
2025	2,882,090	8.3	239,213	313,975	10.2	293,973	392,413	9.5	273,799	371,584
2026	2,975,758	8.3	246,988	316,262	10.2	303,527	395,271	9.5	282,697	374,291
2027	3,072,470	8.3	255,015	318,049	10.2	313,392	397,505	9.5	291,885	376,406
2028	3,172,325	8.3	263,303	319,279	10.2	323,577	399,042	9.5	301,371	377,862
2029	3,275,426	8.3	271,860	319,889	10.2	334,093	399,804	9.5	311,165	378,584

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	11.1%	\$272,634	\$ 411,777	12.0%	\$294,740	\$ 445,192	12.6%	\$309,477	\$ 472,346
2021	2,535,988	11.1	281,495	417,418	12.0	304,319	451,291	12.6	319,534	478,817
2022	2,618,408	11.1	290,643	422,681	12.0	314,209	456,981	12.6	329,919	484,855
2023	2,703,506	11.1	300,089	427,513	12.0	324,421	462,206	12.6	340,642	490,398
2024	2,791,370	11.1	309,842	431,857	12.0	334,964	466,902	12.6	351,713	495,381
2025	2,882,090	11.1	319,912	435,650	12.0	345,851	471,002	12.6	363,143	499,732
2026	2,975,758	11.1	330,309	438,823	12.0	357,091	474,433	12.6	374,946	503,372
2027	3,072,470	11.1	341,044	441,303	12.0	368,696	477,114	12.6	387,131	506,217
2028	3,172,325	11.1	352,128	443,010	12.0	380,679	478,959	12.6	399,713	508,175
2029	3,275,426	11.1	363,572	443,856	12.0	393,051	479,874	12.6	412,704	509,145

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	13.9%	\$341,407	\$ 519,383	14.1%	\$346,319	\$ 532,938	15.8%	\$388,074	\$ 593,521
2021	2,535,988	13.9	352,502	526,498	14.1	357,574	540,239	15.8	400,686	601,652
2022	2,618,408	13.9	363,959	533,137	14.1	369,196	547,051	15.8	413,708	609,238
2023	2,703,506	13.9	375,787	539,232	14.1	381,194	553,305	15.8	427,154	616,203
2024	2,791,370	13.9	388,000	544,711	14.1	393,583	558,927	15.8	441,036	622,464
2025	2,882,090	13.9	400,611	549,495	14.1	406,375	563,836	15.8	455,370	627,931
2026	2,975,758	13.9	413,630	553,498	14.1	419,582	567,943	15.8	470,170	632,505
2027	3,072,470	13.9	427,073	556,626	14.1	433,218	571,153	15.8	485,450	636,080
2028	3,172,325	13.9	440,953	558,778	14.1	447,298	573,362	15.8	501,227	638,540
2029	3,275,426	13.9	455,284	559,845	14.1	461,835	574,457	15.8	517,517	639,759

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	6.4%	\$157,194	\$ 296,769	8.3%	\$203,862	\$ 370,909	7.6%	\$186,668	\$ 351,221
2021	2,535,988	6.4	162,303	300,835	8.3	210,487	375,990	7.6	192,735	356,033
2022	2,618,408	6.4	167,578	304,628	8.3	217,328	380,731	7.6	198,999	360,522
2023	2,703,506	6.4	173,024	308,111	8.3	224,391	385,084	7.6	205,466	364,644
2024	2,791,370	6.4	178,648	311,242	8.3	231,684	388,997	7.6	212,144	368,349
2025	2,882,090	6.4	184,454	313,975	8.3	239,213	392,413	7.6	219,039	371,584
2026	2,975,758	6.4	190,449	316,262	8.3	246,988	395,271	7.6	226,158	374,291
2027	3,072,470	6.4	196,638	318,049	8.3	255,015	397,505	7.6	233,508	376,406
2028	3,172,325	6.4	203,029	319,279	8.3	263,303	399,042	7.6	241,097	377,862
2029	3,275,426	6.4	209,627	319,889	8.3	271,860	399,804	7.6	248,932	378,584

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	9.2%	\$225,967	\$ 411,777	10.1%	\$248,072	\$ 445,192	10.7%	\$262,809	\$ 472,346
2021	2,535,988	9.2	233,311	417,418	10.1	256,135	451,291	10.7	271,351	478,817
2022	2,618,408	9.2	240,894	422,681	10.1	264,459	456,981	10.7	280,170	484,855
2023	2,703,506	9.2	248,723	427,513	10.1	273,054	462,206	10.7	289,275	490,398
2024	2,791,370	9.2	256,806	431,857	10.1	281,928	466,902	10.7	298,677	495,381
2025	2,882,090	9.2	265,152	435,650	10.1	291,091	471,002	10.7	308,384	499,732
2026	2,975,758	9.2	273,770	438,823	10.1	300,552	474,433	10.7	318,406	503,372
2027	3,072,470	9.2	282,667	441,303	10.1	310,319	477,114	10.7	328,754	506,217
2028	3,172,325	9.2	291,854	443,010	10.1	320,405	478,959	10.7	339,439	508,175
2029	3,275,426	9.2	301,339	443,856	10.1	330,818	479,874	10.7	350,471	509,145

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	12.0%	\$294,740	\$ 519,383	12.2%	\$299,652	\$ 532,938	13.9%	\$341,407	\$ 593,521
2021	2,535,988	12.0	304,319	526,498	12.2	309,391	540,239	13.9	352,502	601,652
2022	2,618,408	12.0	314,209	533,137	12.2	319,446	547,051	13.9	363,959	609,238
2023	2,703,506	12.0	324,421	539,232	12.2	329,828	553,305	13.9	375,787	616,203
2024	2,791,370	12.0	334,964	544,711	12.2	340,547	558,927	13.9	388,000	622,464
2025	2,882,090	12.0	345,851	549,495	12.2	351,615	563,836	13.9	400,611	627,931
2026	2,975,758	12.0	357,091	553,498	12.2	363,042	567,943	13.9	413,630	632,505
2027	3,072,470	12.0	368,696	556,626	12.2	374,841	571,153	13.9	427,073	636,080
2028	3,172,325	12.0	380,679	558,778	12.2	387,024	573,362	13.9	440,953	638,540
2029	3,275,426	12.0	393,051	559,845	12.2	399,602	574,457	13.9	455,284	639,759

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Crawford County - General

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	4.5%	\$110,527	\$ 296,769	6.4%	\$157,194	\$ 370,909	5.7%	\$140,001	\$ 351,221
2021	2,535,988	4.5	114,119	300,835	6.4	162,303	375,990	5.7	144,551	356,033
2022	2,618,408	4.5	117,828	304,628	6.4	167,578	380,731	5.7	149,249	360,522
2023	2,703,506	4.5	121,658	308,111	6.4	173,024	385,084	5.7	154,100	364,644
2024	2,791,370	4.5	125,612	311,242	6.4	178,648	388,997	5.7	159,108	368,349
2025	2,882,090	4.5	129,694	313,975	6.4	184,454	392,413	5.7	164,279	371,584
2026	2,975,758	4.5	133,909	316,262	6.4	190,449	395,271	5.7	169,618	374,291
2027	3,072,470	4.5	138,261	318,049	6.4	196,638	397,505	5.7	175,131	376,406
2028	3,172,325	4.5	142,755	319,279	6.4	203,029	399,042	5.7	180,823	377,862
2029	3,275,426	4.5	147,394	319,889	6.4	209,627	399,804	5.7	186,699	378,584

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	7.3%	\$179,300	\$ 411,777	8.2%	\$201,405	\$ 445,192	8.8%	\$216,142	\$ 472,346
2021	2,535,988	7.3	185,127	417,418	8.2	207,951	451,291	8.8	223,167	478,817
2022	2,618,408	7.3	191,144	422,681	8.2	214,709	456,981	8.8	230,420	484,855
2023	2,703,506	7.3	197,356	427,513	8.2	221,687	462,206	8.8	237,909	490,398
2024	2,791,370	7.3	203,770	431,857	8.2	228,892	466,902	8.8	245,641	495,381
2025	2,882,090	7.3	210,393	435,650	8.2	236,331	471,002	8.8	253,624	499,732
2026	2,975,758	7.3	217,230	438,823	8.2	244,012	474,433	8.8	261,867	503,372
2027	3,072,470	7.3	224,290	441,303	8.2	251,943	477,114	8.8	270,377	506,217
2028	3,172,325	7.3	231,580	443,010	8.2	260,131	478,959	8.8	279,165	508,175
2029	3,275,426	7.3	239,106	443,856	8.2	268,585	479,874	8.8	288,237	509,145

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	10.1%	\$248,072	\$ 519,383	10.3%	\$252,985	\$ 532,938	12.0%	\$294,740	\$ 593,521
2021	2,535,988	10.1	256,135	526,498	10.3	261,207	540,239	12.0	304,319	601,652
2022	2,618,408	10.1	264,459	533,137	10.3	269,696	547,051	12.0	314,209	609,238
2023	2,703,506	10.1	273,054	539,232	10.3	278,461	553,305	12.0	324,421	616,203
2024	2,791,370	10.1	281,928	544,711	10.3	287,511	558,927	12.0	334,964	622,464
2025	2,882,090	10.1	291,091	549,495	10.3	296,855	563,836	12.0	345,851	627,931
2026	2,975,758	10.1	300,552	553,498	10.3	306,503	567,943	12.0	357,091	632,505
2027	3,072,470	10.1	310,319	556,626	10.3	316,464	571,153	12.0	368,696	636,080
2028	3,172,325	10.1	320,405	558,778	10.3	326,749	573,362	12.0	380,679	638,540
2029	3,275,426	10.1	330,818	559,845	10.3	337,369	574,457	12.0	393,051	639,759

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - General

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	2.6%	\$63,860	\$ 296,769	4.5%	\$110,527	\$ 370,909	3.8%	\$93,334	\$ 351,221
2021	2,535,988	2.6	65,936	300,835	4.5	114,119	375,990	3.8	96,368	356,033
2022	2,618,408	2.6	68,079	304,628	4.5	117,828	380,731	3.8	99,500	360,522
2023	2,703,506	2.6	70,291	308,111	4.5	121,658	385,084	3.8	102,733	364,644
2024	2,791,370	2.6	72,576	311,242	4.5	125,612	388,997	3.8	106,072	368,349
2025	2,882,090	2.6	74,934	313,975	4.5	129,694	392,413	3.8	109,519	371,584
2026	2,975,758	2.6	77,370	316,262	4.5	133,909	395,271	3.8	113,079	374,291
2027	3,072,470	2.6	79,884	318,049	4.5	138,261	397,505	3.8	116,754	376,406
2028	3,172,325	2.6	82,480	319,279	4.5	142,755	399,042	3.8	120,548	377,862
2029	3,275,426	2.6	85,161	319,889	4.5	147,394	399,804	3.8	124,466	378,584

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	5.4%	\$132,633	\$ 411,777	6.3%	\$154,738	\$ 445,192	6.9%	\$169,475	\$ 472,346
2021	2,535,988	5.4	136,943	417,418	6.3	159,767	451,291	6.9	174,983	478,817
2022	2,618,408	5.4	141,394	422,681	6.3	164,960	456,981	6.9	180,670	484,855
2023	2,703,506	5.4	145,989	427,513	6.3	170,321	462,206	6.9	186,542	490,398
2024	2,791,370	5.4	150,734	431,857	6.3	175,856	466,902	6.9	192,605	495,381
2025	2,882,090	5.4	155,633	435,650	6.3	181,572	471,002	6.9	198,864	499,732
2026	2,975,758	5.4	160,691	438,823	6.3	187,473	474,433	6.9	205,327	503,372
2027	3,072,470	5.4	165,913	441,303	6.3	193,566	477,114	6.9	212,000	506,217
2028	3,172,325	5.4	171,306	443,010	6.3	199,856	478,959	6.9	218,890	508,175
2029	3,275,426	5.4	176,873	443,856	6.3	206,352	479,874	6.9	226,004	509,145

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,456,163	8.2%	\$201,405	\$ 519,383	8.4%	\$206,318	\$ 532,938	10.1%	\$248,072	\$ 593,521
2021	2,535,988	8.2	207,951	526,498	8.4	213,023	540,239	10.1	256,135	601,652
2022	2,618,408	8.2	214,709	533,137	8.4	219,946	547,051	10.1	264,459	609,238
2023	2,703,506	8.2	221,687	539,232	8.4	227,095	553,305	10.1	273,054	616,203
2024	2,791,370	8.2	228,892	544,711	8.4	234,475	558,927	10.1	281,928	622,464
2025	2,882,090	8.2	236,331	549,495	8.4	242,096	563,836	10.1	291,091	627,931
2026	2,975,758	8.2	244,012	553,498	8.4	249,964	567,943	10.1	300,552	632,505
2027	3,072,470	8.2	251,943	556,626	8.4	258,087	571,153	10.1	310,319	636,080
2028	3,172,325	8.2	260,131	558,778	8.4	266,475	573,362	10.1	320,405	638,540
2029	3,275,426	8.2	268,585	559,845	8.4	275,136	574,457	10.1	330,818	639,759

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	8.9%	\$87,476	\$ 117,307	10.8%	\$106,151	\$ 146,560	10.6%	\$104,185	\$ 147,795
2021	1,014,824	8.9	90,319	118,914	10.8	109,601	148,568	10.6	107,571	149,820
2022	1,047,806	8.9	93,255	120,413	10.8	113,163	150,441	10.6	111,067	151,709
2023	1,081,860	8.9	96,286	121,790	10.8	116,841	152,161	10.6	114,677	153,443
2024	1,117,020	8.9	99,415	123,027	10.8	120,638	153,707	10.6	118,404	155,002
2025	1,153,323	8.9	102,646	124,107	10.8	124,559	155,057	10.6	122,252	156,363
2026	1,190,806	8.9	105,982	125,011	10.8	128,607	156,186	10.6	126,225	157,502
2027	1,229,507	8.9	109,426	125,718	10.8	132,787	157,069	10.6	130,328	158,392
2028	1,269,466	8.9	112,982	126,204	10.8	137,102	157,676	10.6	134,563	159,005
2029	1,310,724	8.9	116,654	126,445	10.8	141,558	157,977	10.6	138,937	159,309

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	12.1%	\$118,928	\$ 169,478	12.8%	\$125,809	\$ 175,871	13.6%	\$133,672	\$ 191,133
2021	1,014,824	12.1	122,794	171,800	12.8	129,897	178,280	13.6	138,016	193,751
2022	1,047,806	12.1	126,785	173,966	12.8	134,119	180,528	13.6	142,502	196,194
2023	1,081,860	12.1	130,905	175,955	12.8	138,478	182,592	13.6	147,133	198,437
2024	1,117,020	12.1	135,159	177,743	12.8	142,979	184,447	13.6	151,915	200,453
2025	1,153,323	12.1	139,552	179,304	12.8	147,625	186,067	13.6	156,852	202,213
2026	1,190,806	12.1	144,088	180,610	12.8	152,423	187,422	13.6	161,950	203,686
2027	1,229,507	12.1	148,770	181,631	12.8	157,377	188,481	13.6	167,213	204,837
2028	1,269,466	12.1	153,605	182,333	12.8	162,492	189,210	13.6	172,647	205,629
2029	1,310,724	12.1	158,598	182,681	12.8	167,773	189,571	13.6	178,258	206,022

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	14.8%	\$145,466	\$ 205,277	15.2%	\$149,398	\$ 212,882	16.8%	\$165,124	\$ 234,544
2021	1,014,824	14.8	150,194	208,089	15.2	154,253	215,798	16.8	170,490	237,757
2022	1,047,806	14.8	155,075	210,713	15.2	159,267	218,519	16.8	176,031	240,755
2023	1,081,860	14.8	160,115	213,122	15.2	164,443	221,017	16.8	181,752	243,508
2024	1,117,020	14.8	165,319	215,288	15.2	169,787	223,263	16.8	187,659	245,982
2025	1,153,323	14.8	170,692	217,179	15.2	175,305	225,224	16.8	193,758	248,142
2026	1,190,806	14.8	176,239	218,761	15.2	181,003	226,865	16.8	200,055	249,950
2027	1,229,507	14.8	181,967	219,997	15.2	186,885	228,147	16.8	206,557	251,363
2028	1,269,466	14.8	187,881	220,848	15.2	192,959	229,029	16.8	213,270	252,335
2029	1,310,724	14.8	193,987	221,270	15.2	199,230	229,466	16.8	220,202	252,817

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	7.0%	\$68,802	\$ 117,307	8.9%	\$87,476	\$ 146,560	8.7%	\$85,511	\$ 147,795
2021	1,014,824	7.0	71,038	118,914	8.9	90,319	148,568	8.7	88,290	149,820
2022	1,047,806	7.0	73,346	120,413	8.9	93,255	150,441	8.7	91,159	151,709
2023	1,081,860	7.0	75,730	121,790	8.9	96,286	152,161	8.7	94,122	153,443
2024	1,117,020	7.0	78,191	123,027	8.9	99,415	153,707	8.7	97,181	155,002
2025	1,153,323	7.0	80,733	124,107	8.9	102,646	155,057	8.7	100,339	156,363
2026	1,190,806	7.0	83,356	125,011	8.9	105,982	156,186	8.7	103,600	157,502
2027	1,229,507	7.0	86,065	125,718	8.9	109,426	157,069	8.7	106,967	158,392
2028	1,269,466	7.0	88,863	126,204	8.9	112,982	157,676	8.7	110,444	159,005
2029	1,310,724	7.0	91,751	126,445	8.9	116,654	157,977	8.7	114,033	159,309

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	10.2%	\$100,254	\$ 169,478	10.9%	\$107,134	\$ 175,871	11.7%	\$114,997	\$ 191,133
2021	1,014,824	10.2	103,512	171,800	10.9	110,616	178,280	11.7	118,734	193,751
2022	1,047,806	10.2	106,876	173,966	10.9	114,211	180,528	11.7	122,593	196,194
2023	1,081,860	10.2	110,350	175,955	10.9	117,923	182,592	11.7	126,578	198,437
2024	1,117,020	10.2	113,936	177,743	10.9	121,755	184,447	11.7	130,691	200,453
2025	1,153,323	10.2	117,639	179,304	10.9	125,712	186,067	11.7	134,939	202,213
2026	1,190,806	10.2	121,462	180,610	10.9	129,798	187,422	11.7	139,324	203,686
2027	1,229,507	10.2	125,410	181,631	10.9	134,016	188,481	11.7	143,852	204,837
2028	1,269,466	10.2	129,486	182,333	10.9	138,372	189,210	11.7	148,528	205,629
2029	1,310,724	10.2	133,694	182,681	10.9	142,869	189,571	11.7	153,355	206,022

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	12.9%	\$126,792	\$ 205,277	13.3%	\$130,723	\$ 212,882	14.9%	\$146,449	\$ 234,544
2021	1,014,824	12.9	130,912	208,089	13.3	134,972	215,798	14.9	151,209	237,757
2022	1,047,806	12.9	135,167	210,713	13.3	139,358	218,519	14.9	156,123	240,755
2023	1,081,860	12.9	139,560	213,122	13.3	143,887	221,017	14.9	161,197	243,508
2024	1,117,020	12.9	144,096	215,288	13.3	148,564	223,263	14.9	166,436	245,982
2025	1,153,323	12.9	148,779	217,179	13.3	153,392	225,224	14.9	171,845	248,142
2026	1,190,806	12.9	153,614	218,761	13.3	158,377	226,865	14.9	177,430	249,950
2027	1,229,507	12.9	158,606	219,997	13.3	163,524	228,147	14.9	183,197	251,363
2028	1,269,466	12.9	163,761	220,848	13.3	168,839	229,029	14.9	189,150	252,335
2029	1,310,724	12.9	169,083	221,270	13.3	174,326	229,466	14.9	195,298	252,817

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	5.1%	\$50,127	\$ 117,307	7.0%	\$68,802	\$ 146,560	6.8%	\$66,836	\$ 147,795
2021	1,014,824	5.1	51,756	118,914	7.0	71,038	148,568	6.8	69,008	149,820
2022	1,047,806	5.1	53,438	120,413	7.0	73,346	150,441	6.8	71,251	151,709
2023	1,081,860	5.1	55,175	121,790	7.0	75,730	152,161	6.8	73,566	153,443
2024	1,117,020	5.1	56,968	123,027	7.0	78,191	153,707	6.8	75,957	155,002
2025	1,153,323	5.1	58,819	124,107	7.0	80,733	155,057	6.8	78,426	156,363
2026	1,190,806	5.1	60,731	125,011	7.0	83,356	156,186	6.8	80,975	157,502
2027	1,229,507	5.1	62,705	125,718	7.0	86,065	157,069	6.8	83,606	158,392
2028	1,269,466	5.1	64,743	126,204	7.0	88,863	157,676	6.8	86,324	159,005
2029	1,310,724	5.1	66,847	126,445	7.0	91,751	157,977	6.8	89,129	159,309

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	8.3%	\$81,579	\$ 169,478	9.0%	\$88,459	\$ 175,871	9.8%	\$96,322	\$ 191,133
2021	1,014,824	8.3	84,230	171,800	9.0	91,334	178,280	9.8	99,453	193,751
2022	1,047,806	8.3	86,968	173,966	9.0	94,303	180,528	9.8	102,685	196,194
2023	1,081,860	8.3	89,794	175,955	9.0	97,367	182,592	9.8	106,022	198,437
2024	1,117,020	8.3	92,713	177,743	9.0	100,532	184,447	9.8	109,468	200,453
2025	1,153,323	8.3	95,726	179,304	9.0	103,799	186,067	9.8	113,026	202,213
2026	1,190,806	8.3	98,837	180,610	9.0	107,173	187,422	9.8	116,699	203,686
2027	1,229,507	8.3	102,049	181,631	9.0	110,656	188,481	9.8	120,492	204,837
2028	1,269,466	8.3	105,366	182,333	9.0	114,252	189,210	9.8	124,408	205,629
2029	1,310,724	8.3	108,790	182,681	9.0	117,965	189,571	9.8	128,451	206,022

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	11.0%	\$108,117	\$ 205,277	11.4%	\$112,048	\$ 212,882	13.0%	\$127,774	\$ 234,544
2021	1,014,824	11.0	111,631	208,089	11.4	115,690	215,798	13.0	131,927	237,757
2022	1,047,806	11.0	115,259	210,713	11.4	119,450	218,519	13.0	136,215	240,755
2023	1,081,860	11.0	119,005	213,122	11.4	123,332	221,017	13.0	140,642	243,508
2024	1,117,020	11.0	122,872	215,288	11.4	127,340	223,263	13.0	145,213	245,982
2025	1,153,323	11.0	126,866	217,179	11.4	131,479	225,224	13.0	149,932	248,142
2026	1,190,806	11.0	130,989	218,761	11.4	135,752	226,865	13.0	154,805	249,950
2027	1,229,507	11.0	135,246	219,997	11.4	140,164	228,147	13.0	159,836	251,363
2028	1,269,466	11.0	139,641	220,848	11.4	144,719	229,029	13.0	165,031	252,335
2029	1,310,724	11.0	144,180	221,270	11.4	149,423	229,466	13.0	170,394	252,817

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	3.2%	\$31,452	\$ 117,307	5.1%	\$50,127	\$ 146,560	4.9%	\$48,161	\$ 147,795
2021	1,014,824	3.2	32,474	118,914	5.1	51,756	148,568	4.9	49,726	149,820
2022	1,047,806	3.2	33,530	120,413	5.1	53,438	150,441	4.9	51,342	151,709
2023	1,081,860	3.2	34,620	121,790	5.1	55,175	152,161	4.9	53,011	153,443
2024	1,117,020	3.2	35,745	123,027	5.1	56,968	153,707	4.9	54,734	155,002
2025	1,153,323	3.2	36,906	124,107	5.1	58,819	155,057	4.9	56,513	156,363
2026	1,190,806	3.2	38,106	125,011	5.1	60,731	156,186	4.9	58,349	157,502
2027	1,229,507	3.2	39,344	125,718	5.1	62,705	157,069	4.9	60,246	158,392
2028	1,269,466	3.2	40,623	126,204	5.1	64,743	157,676	4.9	62,204	159,005
2029	1,310,724	3.2	41,943	126,445	5.1	66,847	157,977	4.9	64,225	159,309

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	6.4%	\$62,904	\$ 169,478	7.1%	\$69,784	\$ 175,871	7.9%	\$77,648	\$ 191,133
2021	1,014,824	6.4	64,949	171,800	7.1	72,053	178,280	7.9	80,171	193,751
2022	1,047,806	6.4	67,060	173,966	7.1	74,394	180,528	7.9	82,777	196,194
2023	1,081,860	6.4	69,239	175,955	7.1	76,812	182,592	7.9	85,467	198,437
2024	1,117,020	6.4	71,489	177,743	7.1	79,308	184,447	7.9	88,245	200,453
2025	1,153,323	6.4	73,813	179,304	7.1	81,886	186,067	7.9	91,113	202,213
2026	1,190,806	6.4	76,212	180,610	7.1	84,547	187,422	7.9	94,074	203,686
2027	1,229,507	6.4	78,688	181,631	7.1	87,295	188,481	7.9	97,131	204,837
2028	1,269,466	6.4	81,246	182,333	7.1	90,132	189,210	7.9	100,288	205,629
2029	1,310,724	6.4	83,886	182,681	7.1	93,061	189,571	7.9	103,547	206,022

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.1%	\$89,442	\$ 205,277	9.5%	\$93,374	\$ 212,882	11.1%	\$109,100	\$ 234,544
2021	1,014,824	9.1	92,349	208,089	9.5	96,408	215,798	11.1	112,645	237,757
2022	1,047,806	9.1	95,350	210,713	9.5	99,542	218,519	11.1	116,306	240,755
2023	1,081,860	9.1	98,449	213,122	9.5	102,777	221,017	11.1	120,086	243,508
2024	1,117,020	9.1	101,649	215,288	9.5	106,117	223,263	11.1	123,989	245,982
2025	1,153,323	9.1	104,952	217,179	9.5	109,566	225,224	11.1	128,019	248,142
2026	1,190,806	9.1	108,363	218,761	9.5	113,127	226,865	11.1	132,179	249,950
2027	1,229,507	9.1	111,885	219,997	9.5	116,803	228,147	11.1	136,475	251,363
2028	1,269,466	9.1	115,521	220,848	9.5	120,599	229,029	11.1	140,911	252,335
2029	1,310,724	9.1	119,276	221,270	9.5	124,519	229,466	11.1	145,490	252,817

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.1%	\$89,442	\$ 121,243	11.2%	\$110,083	\$ 151,504	10.9%	\$107,134	\$ 152,839
2021	1,014,824	9.1	92,349	122,904	11.2	113,660	153,580	10.9	110,616	154,933
2022	1,047,806	9.1	95,350	124,454	11.2	117,354	155,517	10.9	114,211	156,887
2023	1,081,860	9.1	98,449	125,877	11.2	121,168	157,295	10.9	117,923	158,681
2024	1,117,020	9.1	101,649	127,156	11.2	125,106	158,893	10.9	121,755	160,293
2025	1,153,323	9.1	104,952	128,273	11.2	129,172	160,288	10.9	125,712	161,701
2026	1,190,806	9.1	108,363	129,207	11.2	133,370	161,456	10.9	129,798	162,879
2027	1,229,507	9.1	111,885	129,937	11.2	137,705	162,368	10.9	134,016	163,800
2028	1,269,466	9.1	115,521	130,439	11.2	142,180	162,996	10.9	138,372	164,433
2029	1,310,724	9.1	119,276	130,688	11.2	146,801	163,307	10.9	142,869	164,747

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	12.5%	\$122,860	\$ 175,177	13.2%	\$129,740	\$ 181,800	14.1%	\$138,586	\$ 197,578
2021	1,014,824	12.5	126,853	177,577	13.2	133,957	184,291	14.1	143,090	200,285
2022	1,047,806	12.5	130,976	179,816	13.2	138,310	186,615	14.1	147,741	202,810
2023	1,081,860	12.5	135,233	181,872	13.2	142,806	188,749	14.1	152,542	205,129
2024	1,117,020	12.5	139,628	183,720	13.2	147,447	190,667	14.1	157,500	207,213
2025	1,153,323	12.5	144,165	185,333	13.2	152,239	192,342	14.1	162,619	209,033
2026	1,190,806	12.5	148,851	186,683	13.2	157,186	193,743	14.1	167,904	210,556
2027	1,229,507	12.5	153,688	187,738	13.2	162,295	194,838	14.1	173,360	211,746
2028	1,269,466	12.5	158,683	188,464	13.2	167,570	195,591	14.1	178,995	212,565
2029	1,310,724	12.5	163,841	188,824	13.2	173,016	195,964	14.1	184,812	212,971

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	15.2%	\$149,398	\$ 212,164	15.7%	\$154,312	\$ 220,041	17.3%	\$170,038	\$ 242,356
2021	1,014,824	15.2	154,253	215,071	15.7	159,327	223,056	17.3	175,565	245,676
2022	1,047,806	15.2	159,267	217,783	15.7	164,506	225,869	17.3	181,270	248,774
2023	1,081,860	15.2	164,443	220,273	15.7	169,852	228,451	17.3	187,162	251,618
2024	1,117,020	15.2	169,787	222,511	15.7	175,372	230,772	17.3	193,244	254,175
2025	1,153,323	15.2	175,305	224,465	15.7	181,072	232,799	17.3	199,525	256,407
2026	1,190,806	15.2	181,003	226,100	15.7	186,957	234,495	17.3	206,009	258,275
2027	1,229,507	15.2	186,885	227,378	15.7	193,033	235,820	17.3	212,705	259,735
2028	1,269,466	15.2	192,959	228,257	15.7	199,306	236,732	17.3	219,618	260,739
2029	1,310,724	15.2	199,230	228,693	15.7	205,784	237,184	17.3	226,755	261,237

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	7.2%	\$70,767	\$ 121,243	9.3%	\$91,408	\$ 151,504	9.0%	\$88,459	\$ 152,839
2021	1,014,824	7.2	73,067	122,904	9.3	94,379	153,580	9.0	91,334	154,933
2022	1,047,806	7.2	75,442	124,454	9.3	97,446	155,517	9.0	94,303	156,887
2023	1,081,860	7.2	77,894	125,877	9.3	100,613	157,295	9.0	97,367	158,681
2024	1,117,020	7.2	80,425	127,156	9.3	103,883	158,893	9.0	100,532	160,293
2025	1,153,323	7.2	83,039	128,273	9.3	107,259	160,288	9.0	103,799	161,701
2026	1,190,806	7.2	85,738	129,207	9.3	110,745	161,456	9.0	107,173	162,879
2027	1,229,507	7.2	88,525	129,937	9.3	114,344	162,368	9.0	110,656	163,800
2028	1,269,466	7.2	91,402	130,439	9.3	118,060	162,996	9.0	114,252	164,433
2029	1,310,724	7.2	94,372	130,688	9.3	121,897	163,307	9.0	117,965	164,747

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	10.6%	\$104,185	\$ 175,177	11.3%	\$111,065	\$ 181,800	12.2%	\$119,911	\$ 197,578
2021	1,014,824	10.6	107,571	177,577	11.3	114,675	184,291	12.2	123,809	200,285
2022	1,047,806	10.6	111,067	179,816	11.3	118,402	186,615	12.2	127,832	202,810
2023	1,081,860	10.6	114,677	181,872	11.3	122,250	188,749	12.2	131,987	205,129
2024	1,117,020	10.6	118,404	183,720	11.3	126,223	190,667	12.2	136,276	207,213
2025	1,153,323	10.6	122,252	185,333	11.3	130,325	192,342	12.2	140,705	209,033
2026	1,190,806	10.6	126,225	186,683	11.3	134,561	193,743	12.2	145,278	210,556
2027	1,229,507	10.6	130,328	187,738	11.3	138,934	194,838	12.2	150,000	211,746
2028	1,269,466	10.6	134,563	188,464	11.3	143,450	195,591	12.2	154,875	212,565
2029	1,310,724	10.6	138,937	188,824	11.3	148,112	195,964	12.2	159,908	212,971

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	13.3%	\$130,723	\$ 212,164	13.8%	\$135,637	\$ 220,041	15.4%	\$151,364	\$ 242,356
2021	1,014,824	13.3	134,972	215,071	13.8	140,046	223,056	15.4	156,283	245,676
2022	1,047,806	13.3	139,358	217,783	13.8	144,597	225,869	15.4	161,362	248,774
2023	1,081,860	13.3	143,887	220,273	13.8	149,297	228,451	15.4	166,606	251,618
2024	1,117,020	13.3	148,564	222,511	13.8	154,149	230,772	15.4	172,021	254,175
2025	1,153,323	13.3	153,392	224,465	13.8	159,159	232,799	15.4	177,612	256,407
2026	1,190,806	13.3	158,377	226,100	13.8	164,331	234,495	15.4	183,384	258,275
2027	1,229,507	13.3	163,524	227,378	13.8	169,672	235,820	15.4	189,344	259,735
2028	1,269,466	13.3	168,839	228,257	13.8	175,186	236,732	15.4	195,498	260,739
2029	1,310,724	13.3	174,326	228,693	13.8	180,880	237,184	15.4	201,851	261,237

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	5.3%	\$52,093	\$ 121,243	7.4%	\$72,733	\$ 151,504	7.1%	\$69,784	\$ 152,839
2021	1,014,824	5.3	53,786	122,904	7.4	75,097	153,580	7.1	72,053	154,933
2022	1,047,806	5.3	55,534	124,454	7.4	77,538	155,517	7.1	74,394	156,887
2023	1,081,860	5.3	57,339	125,877	7.4	80,058	157,295	7.1	76,812	158,681
2024	1,117,020	5.3	59,202	127,156	7.4	82,659	158,893	7.1	79,308	160,293
2025	1,153,323	5.3	61,126	128,273	7.4	85,346	160,288	7.1	81,886	161,701
2026	1,190,806	5.3	63,113	129,207	7.4	88,120	161,456	7.1	84,547	162,879
2027	1,229,507	5.3	65,164	129,937	7.4	90,984	162,368	7.1	87,295	163,800
2028	1,269,466	5.3	67,282	130,439	7.4	93,940	162,996	7.1	90,132	164,433
2029	1,310,724	5.3	69,468	130,688	7.4	96,994	163,307	7.1	93,061	164,747

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	8.7%	\$85,511	\$ 175,177	9.4%	\$92,391	\$ 181,800	10.3%	\$101,237	\$ 197,578
2021	1,014,824	8.7	88,290	177,577	9.4	95,393	184,291	10.3	104,527	200,285
2022	1,047,806	8.7	91,159	179,816	9.4	98,494	186,615	10.3	107,924	202,810
2023	1,081,860	8.7	94,122	181,872	9.4	101,695	188,749	10.3	111,432	205,129
2024	1,117,020	8.7	97,181	183,720	9.4	105,000	190,667	10.3	115,053	207,213
2025	1,153,323	8.7	100,339	185,333	9.4	108,412	192,342	10.3	118,792	209,033
2026	1,190,806	8.7	103,600	186,683	9.4	111,936	193,743	10.3	122,653	210,556
2027	1,229,507	8.7	106,967	187,738	9.4	115,574	194,838	10.3	126,639	211,746
2028	1,269,466	8.7	110,444	188,464	9.4	119,330	195,591	10.3	130,755	212,565
2029	1,310,724	8.7	114,033	188,824	9.4	123,208	195,964	10.3	135,005	212,971

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	11.4%	\$112,048	\$ 212,164	11.9%	\$116,963	\$ 220,041	13.5%	\$132,689	\$ 242,356
2021	1,014,824	11.4	115,690	215,071	11.9	120,764	223,056	13.5	137,001	245,676
2022	1,047,806	11.4	119,450	217,783	11.9	124,689	225,869	13.5	141,454	248,774
2023	1,081,860	11.4	123,332	220,273	11.9	128,741	228,451	13.5	146,051	251,618
2024	1,117,020	11.4	127,340	222,511	11.9	132,925	230,772	13.5	150,798	254,175
2025	1,153,323	11.4	131,479	224,465	11.9	137,245	232,799	13.5	155,699	256,407
2026	1,190,806	11.4	135,752	226,100	11.9	141,706	234,495	13.5	160,759	258,275
2027	1,229,507	11.4	140,164	227,378	11.9	146,311	235,820	13.5	165,983	259,735
2028	1,269,466	11.4	144,719	228,257	11.9	151,066	236,732	13.5	171,378	260,739
2029	1,310,724	11.4	149,423	228,693	11.9	155,976	237,184	13.5	176,948	261,237

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	3.4%	\$33,418	\$ 121,243	5.5%	\$54,058	\$ 151,504	5.2%	\$51,110	\$ 152,839
2021	1,014,824	3.4	34,504	122,904	5.5	55,815	153,580	5.2	52,771	154,933
2022	1,047,806	3.4	35,625	124,454	5.5	57,629	155,517	5.2	54,486	156,887
2023	1,081,860	3.4	36,783	125,877	5.5	59,502	157,295	5.2	56,257	158,681
2024	1,117,020	3.4	37,979	127,156	5.5	61,436	158,893	5.2	58,085	160,293
2025	1,153,323	3.4	39,213	128,273	5.5	63,433	160,288	5.2	59,973	161,701
2026	1,190,806	3.4	40,487	129,207	5.5	65,494	161,456	5.2	61,922	162,879
2027	1,229,507	3.4	41,803	129,937	5.5	67,623	162,368	5.2	63,934	163,800
2028	1,269,466	3.4	43,162	130,439	5.5	69,821	162,996	5.2	66,012	164,433
2029	1,310,724	3.4	44,565	130,688	5.5	72,090	163,307	5.2	68,158	164,747

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	6.8%	\$66,836	\$ 175,177	7.5%	\$73,716	\$ 181,800	8.4%	\$82,562	\$ 197,578
2021	1,014,824	6.8	69,008	177,577	7.5	76,112	184,291	8.4	85,245	200,285
2022	1,047,806	6.8	71,251	179,816	7.5	78,585	186,615	8.4	88,016	202,810
2023	1,081,860	6.8	73,566	181,872	7.5	81,140	188,749	8.4	90,876	205,129
2024	1,117,020	6.8	75,957	183,720	7.5	83,777	190,667	8.4	93,830	207,213
2025	1,153,323	6.8	78,426	185,333	7.5	86,499	192,342	8.4	96,879	209,033
2026	1,190,806	6.8	80,975	186,683	7.5	89,310	193,743	8.4	100,028	210,556
2027	1,229,507	6.8	83,606	187,738	7.5	92,213	194,838	8.4	103,279	211,746
2028	1,269,466	6.8	86,324	188,464	7.5	95,210	195,591	8.4	106,635	212,565
2029	1,310,724	6.8	89,129	188,824	7.5	98,304	195,964	8.4	110,101	212,971

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.5%	\$93,374	\$ 212,164	10.0%	\$98,288	\$ 220,041	11.6%	\$114,014	\$ 242,356
2021	1,014,824	9.5	96,408	215,071	10.0	101,482	223,056	11.6	117,720	245,676
2022	1,047,806	9.5	99,542	217,783	10.0	104,781	225,869	11.6	121,545	248,774
2023	1,081,860	9.5	102,777	220,273	10.0	108,186	228,451	11.6	125,496	251,618
2024	1,117,020	9.5	106,117	222,511	10.0	111,702	230,772	11.6	129,574	254,175
2025	1,153,323	9.5	109,566	224,465	10.0	115,332	232,799	11.6	133,785	256,407
2026	1,190,806	9.5	113,127	226,100	10.0	119,081	234,495	11.6	138,133	258,275
2027	1,229,507	9.5	116,803	227,378	10.0	122,951	235,820	11.6	142,623	259,735
2028	1,269,466	9.5	120,599	228,257	10.0	126,947	236,732	11.6	147,258	260,739
2029	1,310,724	9.5	124,519	228,693	10.0	131,072	237,184	11.6	152,044	261,237

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.0%	\$88,459	\$ 119,975	11.0%	\$108,117	\$ 149,946	10.8%	\$106,151	\$ 157,555
2021	1,014,824	9.0	91,334	121,619	11.0	111,631	152,000	10.8	109,601	159,713
2022	1,047,806	9.0	94,303	123,153	11.0	115,259	153,917	10.8	113,163	161,727
2023	1,081,860	9.0	97,367	124,561	11.0	119,005	155,677	10.8	116,841	163,576
2024	1,117,020	9.0	100,532	125,827	11.0	122,872	157,259	10.8	120,638	165,238
2025	1,153,323	9.0	103,799	126,932	11.0	126,866	158,640	10.8	124,559	166,689
2026	1,190,806	9.0	107,173	127,857	11.0	130,989	159,796	10.8	128,607	167,903
2027	1,229,507	9.0	110,656	128,580	11.0	135,246	160,699	10.8	132,787	168,852
2028	1,269,466	9.0	114,252	129,077	11.0	139,641	161,320	10.8	137,102	169,505
2029	1,310,724	9.0	117,965	129,323	11.0	144,180	161,628	10.8	141,558	169,829

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	12.3%	\$120,894	\$ 178,168	12.9%	\$126,792	\$ 179,913	13.9%	\$136,620	\$ 198,699
2021	1,014,824	12.3	124,823	180,609	12.9	130,912	182,378	13.9	141,061	201,421
2022	1,047,806	12.3	128,880	182,886	12.9	135,167	184,678	13.9	145,645	203,961
2023	1,081,860	12.3	133,069	184,977	12.9	139,560	186,789	13.9	150,379	206,293
2024	1,117,020	12.3	137,393	186,857	12.9	144,096	188,687	13.9	155,266	208,389
2025	1,153,323	12.3	141,859	188,498	12.9	148,779	190,344	13.9	160,312	210,219
2026	1,190,806	12.3	146,469	189,871	12.9	153,614	191,731	13.9	165,522	211,750
2027	1,229,507	12.3	151,229	190,944	12.9	158,606	192,815	13.9	170,901	212,947
2028	1,269,466	12.3	156,144	191,682	12.9	163,761	193,561	13.9	176,456	213,770
2029	1,310,724	12.3	161,219	192,048	12.9	169,083	193,931	13.9	182,191	214,178

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	15.0%	\$147,432	\$ 209,996	15.5%	\$152,346	\$ 219,398	17.0%	\$167,090	\$ 239,932
2021	1,014,824	15.0	152,224	212,873	15.5	157,298	222,404	17.0	172,520	243,219
2022	1,047,806	15.0	157,171	215,557	15.5	162,410	225,208	17.0	178,127	246,286
2023	1,081,860	15.0	162,279	218,021	15.5	167,688	227,783	17.0	183,916	249,102
2024	1,117,020	15.0	167,553	220,236	15.5	173,138	230,097	17.0	189,893	251,633
2025	1,153,323	15.0	172,998	222,170	15.5	178,765	232,118	17.0	196,065	253,843
2026	1,190,806	15.0	178,621	223,788	15.5	184,575	233,809	17.0	202,437	255,692
2027	1,229,507	15.0	184,426	225,053	15.5	190,574	235,130	17.0	209,016	257,137
2028	1,269,466	15.0	190,420	225,923	15.5	196,767	236,039	17.0	215,809	258,131
2029	1,310,724	15.0	196,609	226,354	15.5	203,162	236,490	17.0	222,823	258,624

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	7.1%	\$69,784	\$ 119,975	9.1%	\$89,442	\$ 149,946	8.9%	\$87,476	\$ 157,555
2021	1,014,824	7.1	72,053	121,619	9.1	92,349	152,000	8.9	90,319	159,713
2022	1,047,806	7.1	74,394	123,153	9.1	95,350	153,917	8.9	93,255	161,727
2023	1,081,860	7.1	76,812	124,561	9.1	98,449	155,677	8.9	96,286	163,576
2024	1,117,020	7.1	79,308	125,827	9.1	101,649	157,259	8.9	99,415	165,238
2025	1,153,323	7.1	81,886	126,932	9.1	104,952	158,640	8.9	102,646	166,689
2026	1,190,806	7.1	84,547	127,857	9.1	108,363	159,796	8.9	105,982	167,903
2027	1,229,507	7.1	87,295	128,580	9.1	111,885	160,699	8.9	109,426	168,852
2028	1,269,466	7.1	90,132	129,077	9.1	115,521	161,320	8.9	112,982	169,505
2029	1,310,724	7.1	93,061	129,323	9.1	119,276	161,628	8.9	116,654	169,829

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	10.4%	\$102,220	\$ 178,168	11.0%	\$108,117	\$ 179,913	12.0%	\$117,946	\$ 198,699
2021	1,014,824	10.4	105,542	180,609	11.0	111,631	182,378	12.0	121,779	201,421
2022	1,047,806	10.4	108,972	182,886	11.0	115,259	184,678	12.0	125,737	203,961
2023	1,081,860	10.4	112,513	184,977	11.0	119,005	186,789	12.0	129,823	206,293
2024	1,117,020	10.4	116,170	186,857	11.0	122,872	188,687	12.0	134,042	208,389
2025	1,153,323	10.4	119,946	188,498	11.0	126,866	190,344	12.0	138,399	210,219
2026	1,190,806	10.4	123,844	189,871	11.0	130,989	191,731	12.0	142,897	211,750
2027	1,229,507	10.4	127,869	190,944	11.0	135,246	192,815	12.0	147,541	212,947
2028	1,269,466	10.4	132,024	191,682	11.0	139,641	193,561	12.0	152,336	213,770
2029	1,310,724	10.4	136,315	192,048	11.0	144,180	193,931	12.0	157,287	214,178

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	13.1%	\$128,757	\$ 209,996	13.6%	\$133,672	\$ 219,398	15.1%	\$148,415	\$ 239,932
2021	1,014,824	13.1	132,942	212,873	13.6	138,016	222,404	15.1	153,238	243,219
2022	1,047,806	13.1	137,263	215,557	13.6	142,502	225,208	15.1	158,219	246,286
2023	1,081,860	13.1	141,724	218,021	13.6	147,133	227,783	15.1	163,361	249,102
2024	1,117,020	13.1	146,330	220,236	13.6	151,915	230,097	15.1	168,670	251,633
2025	1,153,323	13.1	151,085	222,170	13.6	156,852	232,118	15.1	174,152	253,843
2026	1,190,806	13.1	155,996	223,788	13.6	161,950	233,809	15.1	179,812	255,692
2027	1,229,507	13.1	161,065	225,053	13.6	167,213	235,130	15.1	185,656	257,137
2028	1,269,466	13.1	166,300	225,923	13.6	172,647	236,039	15.1	191,689	258,131
2029	1,310,724	13.1	171,705	226,354	13.6	178,258	236,490	15.1	197,919	258,624

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	5.2%	\$51,110	\$ 119,975	7.2%	\$70,767	\$ 149,946	7.0%	\$68,802	\$ 157,555
2021	1,014,824	5.2	52,771	121,619	7.2	73,067	152,000	7.0	71,038	159,713
2022	1,047,806	5.2	54,486	123,153	7.2	75,442	153,917	7.0	73,346	161,727
2023	1,081,860	5.2	56,257	124,561	7.2	77,894	155,677	7.0	75,730	163,576
2024	1,117,020	5.2	58,085	125,827	7.2	80,425	157,259	7.0	78,191	165,238
2025	1,153,323	5.2	59,973	126,932	7.2	83,039	158,640	7.0	80,733	166,689
2026	1,190,806	5.2	61,922	127,857	7.2	85,738	159,796	7.0	83,356	167,903
2027	1,229,507	5.2	63,934	128,580	7.2	88,525	160,699	7.0	86,065	168,852
2028	1,269,466	5.2	66,012	129,077	7.2	91,402	161,320	7.0	88,863	169,505
2029	1,310,724	5.2	68,158	129,323	7.2	94,372	161,628	7.0	91,751	169,829

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	8.5%	\$83,545	\$ 178,168	9.1%	\$89,442	\$ 179,913	10.1%	\$99,271	\$ 198,699
2021	1,014,824	8.5	86,260	180,609	9.1	92,349	182,378	10.1	102,497	201,421
2022	1,047,806	8.5	89,064	182,886	9.1	95,350	184,678	10.1	105,828	203,961
2023	1,081,860	8.5	91,958	184,977	9.1	98,449	186,789	10.1	109,268	206,293
2024	1,117,020	8.5	94,947	186,857	9.1	101,649	188,687	10.1	112,819	208,389
2025	1,153,323	8.5	98,032	188,498	9.1	104,952	190,344	10.1	116,486	210,219
2026	1,190,806	8.5	101,219	189,871	9.1	108,363	191,731	10.1	120,271	211,750
2027	1,229,507	8.5	104,508	190,944	9.1	111,885	192,815	10.1	124,180	212,947
2028	1,269,466	8.5	107,905	191,682	9.1	115,521	193,561	10.1	128,216	213,770
2029	1,310,724	8.5	111,412	192,048	9.1	119,276	193,931	10.1	132,383	214,178

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	11.2%	\$110,083	\$ 209,996	11.7%	\$114,997	\$ 219,398	13.2%	\$129,740	\$ 239,932
2021	1,014,824	11.2	113,660	212,873	11.7	118,734	222,404	13.2	133,957	243,219
2022	1,047,806	11.2	117,354	215,557	11.7	122,593	225,208	13.2	138,310	246,286
2023	1,081,860	11.2	121,168	218,021	11.7	126,578	227,783	13.2	142,806	249,102
2024	1,117,020	11.2	125,106	220,236	11.7	130,691	230,097	13.2	147,447	251,633
2025	1,153,323	11.2	129,172	222,170	11.7	134,939	232,118	13.2	152,239	253,843
2026	1,190,806	11.2	133,370	223,788	11.7	139,324	233,809	13.2	157,186	255,692
2027	1,229,507	11.2	137,705	225,053	11.7	143,852	235,130	13.2	162,295	257,137
2028	1,269,466	11.2	142,180	225,923	11.7	148,528	236,039	13.2	167,570	258,131
2029	1,310,724	11.2	146,801	226,354	11.7	153,355	236,490	13.2	173,016	258,624

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	3.3%	\$32,435	\$ 119,975	5.3%	\$52,093	\$ 149,946	5.1%	\$50,127	\$ 157,555
2021	1,014,824	3.3	33,489	121,619	5.3	53,786	152,000	5.1	51,756	159,713
2022	1,047,806	3.3	34,578	123,153	5.3	55,534	153,917	5.1	53,438	161,727
2023	1,081,860	3.3	35,701	124,561	5.3	57,339	155,677	5.1	55,175	163,576
2024	1,117,020	3.3	36,862	125,827	5.3	59,202	157,259	5.1	56,968	165,238
2025	1,153,323	3.3	38,060	126,932	5.3	61,126	158,640	5.1	58,819	166,689
2026	1,190,806	3.3	39,297	127,857	5.3	63,113	159,796	5.1	60,731	167,903
2027	1,229,507	3.3	40,574	128,580	5.3	65,164	160,699	5.1	62,705	168,852
2028	1,269,466	3.3	41,892	129,077	5.3	67,282	161,320	5.1	64,743	169,505
2029	1,310,724	3.3	43,254	129,323	5.3	69,468	161,628	5.1	66,847	169,829

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	6.6%	\$64,870	\$ 178,168	7.2%	\$70,767	\$ 179,913	8.2%	\$80,596	\$ 198,699
2021	1,014,824	6.6	66,978	180,609	7.2	73,067	182,378	8.2	83,216	201,421
2022	1,047,806	6.6	69,155	182,886	7.2	75,442	184,678	8.2	85,920	203,961
2023	1,081,860	6.6	71,403	184,977	7.2	77,894	186,789	8.2	88,713	206,293
2024	1,117,020	6.6	73,723	186,857	7.2	80,425	188,687	8.2	91,596	208,389
2025	1,153,323	6.6	76,119	188,498	7.2	83,039	190,344	8.2	94,572	210,219
2026	1,190,806	6.6	78,593	189,871	7.2	85,738	191,731	8.2	97,646	211,750
2027	1,229,507	6.6	81,147	190,944	7.2	88,525	192,815	8.2	100,820	212,947
2028	1,269,466	6.6	83,785	191,682	7.2	91,402	193,561	8.2	104,096	213,770
2029	1,310,724	6.6	86,508	192,048	7.2	94,372	193,931	8.2	107,479	214,178

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.3%	\$91,408	\$ 209,996	9.8%	\$96,322	\$ 219,398	11.3%	\$111,065	\$ 239,932
2021	1,014,824	9.3	94,379	212,873	9.8	99,453	222,404	11.3	114,675	243,219
2022	1,047,806	9.3	97,446	215,557	9.8	102,685	225,208	11.3	118,402	246,286
2023	1,081,860	9.3	100,613	218,021	9.8	106,022	227,783	11.3	122,250	249,102
2024	1,117,020	9.3	103,883	220,236	9.8	109,468	230,097	11.3	126,223	251,633
2025	1,153,323	9.3	107,259	222,170	9.8	113,026	232,118	11.3	130,325	253,843
2026	1,190,806	9.3	110,745	223,788	9.8	116,699	233,809	11.3	134,561	255,692
2027	1,229,507	9.3	114,344	225,053	9.8	120,492	235,130	11.3	138,934	257,137
2028	1,269,466	9.3	118,060	225,923	9.8	124,408	236,039	11.3	143,450	258,131
2029	1,310,724	9.3	121,897	226,354	9.8	128,451	236,490	11.3	148,112	258,624

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.2%	\$90,425	\$ 124,085	11.3%	\$111,065	\$ 155,075	11.1%	\$109,100	\$ 162,971
2021	1,014,824	9.2	93,364	125,785	11.3	114,675	157,200	11.1	112,645	165,204
2022	1,047,806	9.2	96,398	127,371	11.3	118,402	159,182	11.1	116,306	167,287
2023	1,081,860	9.2	99,531	128,827	11.3	122,250	161,002	11.1	120,086	169,200
2024	1,117,020	9.2	102,766	130,136	11.3	126,223	162,638	11.1	123,989	170,919
2025	1,153,323	9.2	106,106	131,279	11.3	130,325	164,066	11.1	128,019	172,420
2026	1,190,806	9.2	109,554	132,235	11.3	134,561	165,261	11.1	132,179	173,676
2027	1,229,507	9.2	113,115	132,982	11.3	138,934	166,195	11.1	136,475	174,658
2028	1,269,466	9.2	116,791	133,496	11.3	143,450	166,838	11.1	140,911	175,333
2029	1,310,724	9.2	120,587	133,751	11.3	148,112	167,157	11.1	145,490	175,668

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	12.8%	\$125,809	\$ 184,219	13.4%	\$131,706	\$ 186,056	14.4%	\$141,535	\$ 205,470
2021	1,014,824	12.8	129,897	186,743	13.4	135,986	188,605	14.4	146,135	208,285
2022	1,047,806	12.8	134,119	189,098	13.4	140,406	190,983	14.4	150,884	210,911
2023	1,081,860	12.8	138,478	191,260	13.4	144,969	193,166	14.4	155,788	213,322
2024	1,117,020	12.8	142,979	193,203	13.4	149,681	195,129	14.4	160,851	215,490
2025	1,153,323	12.8	147,625	194,900	13.4	154,545	196,843	14.4	166,079	217,383
2026	1,190,806	12.8	152,423	196,320	13.4	159,568	198,277	14.4	171,476	218,966
2027	1,229,507	12.8	157,377	197,430	13.4	164,754	199,398	14.4	177,049	220,204
2028	1,269,466	12.8	162,492	198,193	13.4	170,108	200,169	14.4	182,803	221,056
2029	1,310,724	12.8	167,773	198,571	13.4	175,637	200,551	14.4	188,744	221,478

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	15.5%	\$152,346	\$ 217,133	16.0%	\$157,261	\$ 226,837	17.5%	\$172,004	\$ 248,059
2021	1,014,824	15.5	157,298	220,108	16.0	162,372	229,945	17.5	177,594	251,457
2022	1,047,806	15.5	162,410	222,883	16.0	167,649	232,844	17.5	183,366	254,628
2023	1,081,860	15.5	167,688	225,431	16.0	173,098	235,506	17.5	189,326	257,539
2024	1,117,020	15.5	173,138	227,722	16.0	178,723	237,899	17.5	195,479	260,156
2025	1,153,323	15.5	178,765	229,722	16.0	184,532	239,988	17.5	201,832	262,441
2026	1,190,806	15.5	184,575	231,395	16.0	190,529	241,736	17.5	208,391	264,353
2027	1,229,507	15.5	190,574	232,703	16.0	196,721	243,102	17.5	215,164	265,847
2028	1,269,466	15.5	196,767	233,603	16.0	203,115	244,042	17.5	222,157	266,875
2029	1,310,724	15.5	203,162	234,049	16.0	209,716	244,508	17.5	229,377	267,385

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

## 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	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	7.3%	\$71,750	\$ 124,085	9.4%	\$92,391	\$ 155,075	9.2%	\$90,425	\$ 162,971
2021	1,014,824	7.3	74,082	125,785	9.4	95,393	157,200	9.2	93,364	165,204
2022	1,047,806	7.3	76,490	127,371	9.4	98,494	159,182	9.2	96,398	167,287
2023	1,081,860	7.3	78,976	128,827	9.4	101,695	161,002	9.2	99,531	169,200
2024	1,117,020	7.3	81,542	130,136	9.4	105,000	162,638	9.2	102,766	170,919
2025	1,153,323	7.3	84,193	131,279	9.4	108,412	164,066	9.2	106,106	172,420
2026	1,190,806	7.3	86,929	132,235	9.4	111,936	165,261	9.2	109,554	173,676
2027	1,229,507	7.3	89,754	132,982	9.4	115,574	166,195	9.2	113,115	174,658
2028	1,269,466	7.3	92,671	133,496	9.4	119,330	166,838	9.2	116,791	175,333
2029	1,310,724	7.3	95,683	133,751	9.4	123,208	167,157	9.2	120,587	175,668

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	10.9%	\$107,134	\$ 184,219	11.5%	\$113,031	\$ 186,056	12.5%	\$122,860	\$ 205,470
2021	1,014,824	10.9	110,616	186,743	11.5	116,705	188,605	12.5	126,853	208,285
2022	1,047,806	10.9	114,211	189,098	11.5	120,498	190,983	12.5	130,976	210,911
2023	1,081,860	10.9	117,923	191,260	11.5	124,414	193,166	12.5	135,233	213,322
2024	1,117,020	10.9	121,755	193,203	11.5	128,457	195,129	12.5	139,628	215,490
2025	1,153,323	10.9	125,712	194,900	11.5	132,632	196,843	12.5	144,165	217,383
2026	1,190,806	10.9	129,798	196,320	11.5	136,943	198,277	12.5	148,851	218,966
2027	1,229,507	10.9	134,016	197,430	11.5	141,393	199,398	12.5	153,688	220,204
2028	1,269,466	10.9	138,372	198,193	11.5	145,989	200,169	12.5	158,683	221,056
2029	1,310,724	10.9	142,869	198,571	11.5	150,733	200,551	12.5	163,841	221,478

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	13.6%	\$133,672	\$ 217,133	14.1%	\$138,586	\$ 226,837	15.6%	\$153,329	\$ 248,059
2021	1,014,824	13.6	138,016	220,108	14.1	143,090	229,945	15.6	158,313	251,457
2022	1,047,806	13.6	142,502	222,883	14.1	147,741	232,844	15.6	163,458	254,628
2023	1,081,860	13.6	147,133	225,431	14.1	152,542	235,506	15.6	168,770	257,539
2024	1,117,020	13.6	151,915	227,722	14.1	157,500	237,899	15.6	174,255	260,156
2025	1,153,323	13.6	156,852	229,722	14.1	162,619	239,988	15.6	179,918	262,441
2026	1,190,806	13.6	161,950	231,395	14.1	167,904	241,736	15.6	185,766	264,353
2027	1,229,507	13.6	167,213	232,703	14.1	173,360	243,102	15.6	191,803	265,847
2028	1,269,466	13.6	172,647	233,603	14.1	178,995	244,042	15.6	198,037	266,875
2029	1,310,724	13.6	178,258	234,049	14.1	184,812	244,508	15.6	204,473	267,385

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# Crawford County - Police

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	5.4%	\$53,076	\$ 124,085	7.5%	\$73,716	\$ 155,075	7.3%	\$71,750	\$ 162,971
2021	1,014,824	5.4	54,800	125,785	7.5	76,112	157,200	7.3	74,082	165,204
2022	1,047,806	5.4	56,582	127,371	7.5	78,585	159,182	7.3	76,490	167,287
2023	1,081,860	5.4	58,420	128,827	7.5	81,140	161,002	7.3	78,976	169,200
2024	1,117,020	5.4	60,319	130,136	7.5	83,777	162,638	7.3	81,542	170,919
2025	1,153,323	5.4	62,279	131,279	7.5	86,499	164,066	7.3	84,193	172,420
2026	1,190,806	5.4	64,304	132,235	7.5	89,310	165,261	7.3	86,929	173,676
2027	1,229,507	5.4	66,393	132,982	7.5	92,213	166,195	7.3	89,754	174,658
2028	1,269,466	5.4	68,551	133,496	7.5	95,210	166,838	7.3	92,671	175,333
2029	1,310,724	5.4	70,779	133,751	7.5	98,304	167,157	7.3	95,683	175,668

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.0%	\$88,459	\$ 184,219	9.6%	\$94,356	\$ 186,056	10.6%	\$104,185	\$ 205,470
2021	1,014,824	9.0	91,334	186,743	9.6	97,423	188,605	10.6	107,571	208,285
2022	1,047,806	9.0	94,303	189,098	9.6	100,589	190,983	10.6	111,067	210,911
2023	1,081,860	9.0	97,367	191,260	9.6	103,859	193,166	10.6	114,677	213,322
2024	1,117,020	9.0	100,532	193,203	9.6	107,234	195,129	10.6	118,404	215,490
2025	1,153,323	9.0	103,799	194,900	9.6	110,719	196,843	10.6	122,252	217,383
2026	1,190,806	9.0	107,173	196,320	9.6	114,317	198,277	10.6	126,225	218,966
2027	1,229,507	9.0	110,656	197,430	9.6	118,033	199,398	10.6	130,328	220,204
2028	1,269,466	9.0	114,252	198,193	9.6	121,869	200,169	10.6	134,563	221,056
2029	1,310,724	9.0	117,965	198,571	9.6	125,830	200,551	10.6	138,937	221,478

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	11.7%	\$114,997	\$ 217,133	12.2%	\$119,911	\$ 226,837	13.7%	\$134,655	\$ 248,059
2021	1,014,824	11.7	118,734	220,108	12.2	123,809	229,945	13.7	139,031	251,457
2022	1,047,806	11.7	122,593	222,883	12.2	127,832	232,844	13.7	143,549	254,628
2023	1,081,860	11.7	126,578	225,431	12.2	131,987	235,506	13.7	148,215	257,539
2024	1,117,020	11.7	130,691	227,722	12.2	136,276	237,899	13.7	153,032	260,156
2025	1,153,323	11.7	134,939	229,722	12.2	140,705	239,988	13.7	158,005	262,441
2026	1,190,806	11.7	139,324	231,395	12.2	145,278	241,736	13.7	163,140	264,353
2027	1,229,507	11.7	143,852	232,703	12.2	150,000	243,102	13.7	168,442	265,847
2028	1,269,466	11.7	148,528	233,603	12.2	154,875	244,042	13.7	173,917	266,875
2029	1,310,724	11.7	153,355	234,049	12.2	159,908	244,508	13.7	179,569	267,385

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# Crawford County - Police

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

(Member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	3.5%	\$34,401	\$ 124,085	5.6%	\$55,041	\$ 155,075	5.4%	\$53,076	\$ 162,971
2021	1,014,824	3.5	35,519	125,785	5.6	56,830	157,200	5.4	54,800	165,204
2022	1,047,806	3.5	36,673	127,371	5.6	58,677	159,182	5.4	56,582	167,287
2023	1,081,860	3.5	37,865	128,827	5.6	60,584	161,002	5.4	58,420	169,200
2024	1,117,020	3.5	39,096	130,136	5.6	62,553	162,638	5.4	60,319	170,919
2025	1,153,323	3.5	40,366	131,279	5.6	64,586	164,066	5.4	62,279	172,420
2026	1,190,806	3.5	41,678	132,235	5.6	66,685	165,261	5.4	64,304	173,676
2027	1,229,507	3.5	43,033	132,982	5.6	68,852	166,195	5.4	66,393	174,658
2028	1,269,466	3.5	44,431	133,496	5.6	71,090	166,838	5.4	68,551	175,333
2029	1,310,724	3.5	45,875	133,751	5.6	73,401	167,157	5.4	70,779	175,668

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	7.1%	\$69,784	\$ 184,219	7.7%	\$75,682	\$ 186,056	8.7%	\$85,511	\$ 205,470
2021	1,014,824	7.1	72,053	186,743	7.7	78,141	188,605	8.7	88,290	208,285
2022	1,047,806	7.1	74,394	189,098	7.7	80,681	190,983	8.7	91,159	210,911
2023	1,081,860	7.1	76,812	191,260	7.7	83,303	193,166	8.7	94,122	213,322
2024	1,117,020	7.1	79,308	193,203	7.7	86,011	195,129	8.7	97,181	215,490
2025	1,153,323	7.1	81,886	194,900	7.7	88,806	196,843	8.7	100,339	217,383
2026	1,190,806	7.1	84,547	196,320	7.7	91,692	198,277	8.7	103,600	218,966
2027	1,229,507	7.1	87,295	197,430	7.7	94,672	199,398	8.7	106,967	220,204
2028	1,269,466	7.1	90,132	198,193	7.7	97,749	200,169	8.7	110,444	221,056
2029	1,310,724	7.1	93,061	198,571	7.7	100,926	200,551	8.7	114,033	221,478

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 982,880	9.8%	\$96,322	\$ 217,133	10.3%	\$101,237	\$ 226,837	11.8%	\$115,980	\$ 248,059
2021	1,014,824	9.8	99,453	220,108	10.3	104,527	229,945	11.8	119,749	251,457
2022	1,047,806	9.8	102,685	222,883	10.3	107,924	232,844	11.8	123,641	254,628
2023	1,081,860	9.8	106,022	225,431	10.3	111,432	235,506	11.8	127,659	257,539
2024	1,117,020	9.8	109,468	227,722	10.3	115,053	237,899	11.8	131,808	260,156
2025	1,153,323	9.8	113,026	229,722	10.3	118,792	239,988	11.8	136,092	262,441
2026	1,190,806	9.8	116,699	231,395	10.3	122,653	241,736	11.8	140,515	264,353
2027	1,229,507	9.8	120,492	232,703	10.3	126,639	243,102	11.8	145,082	265,847
2028	1,269,466	9.8	124,408	233,603	10.3	130,755	244,042	11.8	149,797	266,875
2029	1,310,724	9.8	128,451	234,049	10.3	135,005	244,508	11.8	154,665	267,385

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

