



The Initial Valuation For  
**City of Archie**  
as of August 31, 2023



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September 29, 2023

City of Archie  
Archie, Missouri

Ladies and Gentlemen:

Submitted in this report are the results of the actuarial valuation prepared to determine the employer contribution rates required to support, for your employees, the benefits provided by the Missouri Local Government Employees Retirement System (LAGERS). This report contains the information needed to comply with Missouri State disclosure requirements regarding the adoption of LAGERS benefits by a political subdivision (Sections 105.660 - 105.685 RSMo). This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

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

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

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

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

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

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

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

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

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

In accordance with LAGERS Board policy, the employer contribution rates established by this valuation report are valid for purposes of joining the System for a two year period from the date of this valuation which was August 31, 2023. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

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

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

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,  
Gabriel, Roeder, Smith & Company



Mita D. Drazilov, ASA, FCA, MAAA



## Alternate Plan Provisions Affecting Employer Contribution Rates

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

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

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

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

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

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

# City of Archie

## 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	7.70%	0.20%	1.60%	9.50%	7.60%	5.70%	3.80%
	Police	9.00	0.40	0.90	10.30	8.40	6.50	4.60
L-3	General	9.30	0.30	2.00	11.60	9.70	7.80	5.90
	Police	11.00	0.50	1.10	12.60	10.70	8.80	6.90
LT-4(65)	General	8.40	0.20	1.80	10.40	8.50	6.60	4.70
	Police	10.90	0.40	1.10	12.40	10.50	8.60	6.70
LT-5(65)	General	9.90	0.30	2.20	12.40	10.50	8.60	6.70
	Police	12.50	0.50	1.30	14.30	12.40	10.50	8.60
L-7	General	11.00	0.30	2.40	13.70	11.80	9.90	8.00
	Police	13.00	0.60	1.30	14.90	13.00	11.10	9.20
LT-8(65)	General	11.40	0.30	2.50	14.20	12.30	10.40	8.50
	Police	14.00	0.60	1.40	16.00	14.10	12.20	10.30
L-12	General	12.70	0.40	2.90	16.00	14.10	12.20	10.30
	Police	15.00	0.70	1.60	17.30	15.40	13.50	11.60
LT-14(65)	General	12.90	0.40	2.90	16.20	14.30	12.40	10.50
	Police	15.50	0.70	1.60	17.80	15.90	14.00	12.10
L-6	General	14.40	0.50	3.30	18.20	16.30	14.40	12.50
	Police	17.00	0.80	1.80	19.60	17.70	15.80	13.90

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

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

# City of Archie

## 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	7.90%	0.20%	1.70%	9.80%	7.90%	6.00%	4.10%
	Police	9.20	0.40	0.90	10.50	8.60	6.70	4.80
L-3	General	9.60	0.30	2.10	12.00	10.10	8.20	6.30
	Police	11.30	0.50	1.10	12.90	11.00	9.10	7.20
LT-4(65)	General	8.70	0.20	1.90	10.80	8.90	7.00	5.10
	Police	11.30	0.40	1.10	12.80	10.90	9.00	7.10
LT-5(65)	General	10.20	0.30	2.20	12.70	10.80	8.90	7.00
	Police	12.90	0.50	1.30	14.70	12.80	10.90	9.00
L-7	General	11.40	0.30	2.50	14.20	12.30	10.40	8.50
	Police	13.40	0.60	1.40	15.40	13.50	11.60	9.70
LT-8(65)	General	11.80	0.30	2.60	14.70	12.80	10.90	9.00
	Police	14.40	0.60	1.50	16.50	14.60	12.70	10.80
L-12	General	13.10	0.40	3.00	16.50	14.60	12.70	10.80
	Police	15.50	0.70	1.60	17.80	15.90	14.00	12.10
LT-14(65)	General	13.30	0.40	3.00	16.70	14.80	12.90	11.00
	Police	16.00	0.70	1.70	18.40	16.50	14.60	12.70
L-6	General	14.90	0.50	3.40	18.80	16.90	15.00	13.10
	Police	17.60	0.80	1.80	20.20	18.30	16.40	14.50

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

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

# City of Archie

## 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	7.90%	0.20%	1.70%	9.80%	7.90%	6.00%	4.10%
	Police	9.00	0.40	0.90	10.30	8.40	6.50	4.60
L-3	General	9.60	0.30	2.10	12.00	10.10	8.20	6.30
	Police	11.00	0.50	1.10	12.60	10.70	8.80	6.90
LT-4(65)	General	9.00	0.20	1.90	11.10	9.20	7.30	5.40
	Police	10.90	0.40	1.10	12.40	10.50	8.60	6.70
LT-5(65)	General	10.40	0.30	2.20	12.90	11.00	9.10	7.20
	Police	12.50	0.50	1.30	14.30	12.40	10.50	8.60
L-7	General	11.40	0.30	2.50	14.20	12.30	10.40	8.50
	Police	13.00	0.60	1.30	14.90	13.00	11.10	9.20
LT-8(65)	General	11.90	0.30	2.60	14.80	12.90	11.00	9.10
	Police	14.00	0.60	1.40	16.00	14.10	12.20	10.30
L-12	General	13.10	0.40	2.90	16.40	14.50	12.60	10.70
	Police	15.00	0.70	1.60	17.30	15.40	13.50	11.60
LT-14(65)	General	13.40	0.40	2.90	16.70	14.80	12.90	11.00
	Police	15.50	0.70	1.60	17.80	15.90	14.00	12.10
L-6	General	14.90	0.50	3.30	18.70	16.80	14.90	13.00
	Police	17.00	0.80	1.80	19.60	17.70	15.80	13.90

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

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

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



# City of Archie

## 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	8.10%	0.20%	1.70%	10.00%	8.10%	6.20%	4.30%
	Police	9.20	0.40	0.90	10.50	8.60	6.70	4.80
L-3	General	9.90	0.30	2.10	12.30	10.40	8.50	6.60
	Police	11.30	0.50	1.10	12.90	11.00	9.10	7.20
LT-4(65)	General	9.20	0.20	1.90	11.30	9.40	7.50	5.60
	Police	11.30	0.40	1.10	12.80	10.90	9.00	7.10
LT-5(65)	General	10.80	0.30	2.30	13.40	11.50	9.60	7.70
	Police	12.90	0.50	1.30	14.70	12.80	10.90	9.00
L-7	General	11.80	0.30	2.60	14.70	12.80	10.90	9.00
	Police	13.40	0.60	1.40	15.40	13.50	11.60	9.70
LT-8(65)	General	12.30	0.30	2.70	15.30	13.40	11.50	9.60
	Police	14.40	0.60	1.50	16.50	14.60	12.70	10.80
L-12	General	13.60	0.40	3.00	17.00	15.10	13.20	11.30
	Police	15.50	0.70	1.60	17.80	15.90	14.00	12.10
LT-14(65)	General	13.80	0.40	3.00	17.20	15.30	13.40	11.50
	Police	16.00	0.70	1.70	18.40	16.50	14.60	12.70
L-6	General	15.40	0.50	3.40	19.30	17.40	15.50	13.60
	Police	17.60	0.80	1.80	20.20	18.30	16.40	14.50

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

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

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

# City of Archie

## 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	\$ 26,514	\$ 21,211	\$ 15,909	\$ 10,606
L-3	32,375	27,072	21,770	16,467
LT-4(65)	29,026	23,723	18,420	13,118
LT-5(65)	34,608	29,305	24,002	18,699
L-7	38,236	32,933	27,631	22,328
LT-8(65)	39,632	34,329	29,026	23,723
L-12	44,656	39,353	34,050	28,747
LT-14(65)	45,214	39,911	34,608	29,305
L-6	50,796	45,493	40,190	34,887

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 27,352	\$ 22,049	\$ 16,746	\$ 11,443
L-3	33,492	28,189	22,886	17,583
LT-4(65)	30,142	24,840	19,537	14,234
LT-5(65)	35,445	30,142	24,840	19,537
L-7	39,632	34,329	29,026	23,723
LT-8(65)	41,027	35,724	30,422	25,119
L-12	46,051	40,748	35,445	30,142
LT-14(65)	46,609	41,306	36,004	30,701
L-6	52,470	47,167	41,865	36,562

### Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 27,352	\$ 22,049	\$ 16,746	\$ 11,443
L-3	33,492	28,189	22,886	17,583
LT-4(65)	30,980	25,677	20,374	15,071
LT-5(65)	36,004	30,701	25,398	20,095
L-7	39,632	34,329	29,026	23,723
LT-8(65)	41,306	36,004	30,701	25,398
L-12	45,772	40,469	35,166	29,863
LT-14(65)	46,609	41,306	36,004	30,701
L-6	52,191	46,888	41,585	36,283

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 27,910	\$ 22,607	\$ 17,304	\$ 12,001
L-3	34,329	29,026	23,723	18,420
LT-4(65)	31,538	26,235	20,932	15,629
LT-5(65)	37,399	32,096	26,793	21,490
L-7	41,027	35,724	30,422	25,119
LT-8(65)	42,702	37,399	32,096	26,793
L-12	47,446	42,144	36,841	31,538
LT-14(65)	48,005	42,702	37,399	32,096
L-6	53,866	48,563	43,260	37,957

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.

# City of Archie

## 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

Benefit Program	5 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 9,427	\$ 7,688	\$ 5,949	\$ 4,210
L-3	11,532	9,793	8,054	6,315
LT-4(65)	11,348	9,610	7,871	6,132
LT-5(65)	13,087	11,348	9,610	7,871
L-7	13,636	11,898	10,159	8,420
LT-8(65)	14,643	12,904	11,165	9,427
L-12	15,833	14,094	12,355	10,616
LT-14(65)	16,291	14,552	12,813	11,074
L-6	17,938	16,199	14,460	12,721

Benefit Program	3 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 9,610	\$ 7,871	\$ 6,132	\$ 4,393
L-3	11,806	10,067	8,328	6,589
LT-4(65)	11,715	9,976	8,237	6,498
LT-5(65)	13,453	11,715	9,976	8,237
L-7	14,094	12,355	10,616	8,877
LT-8(65)	15,101	13,362	11,623	9,884
L-12	16,291	14,552	12,813	11,074
LT-14(65)	16,840	15,101	13,362	11,623
L-6	18,487	16,748	15,009	13,270

### Rule of 80 Retirement Eligibility

Benefit Program	5 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 9,427	\$ 7,688	\$ 5,949	\$ 4,210
L-3	11,532	9,793	8,054	6,315
LT-4(65)	11,348	9,610	7,871	6,132
LT-5(65)	13,087	11,348	9,610	7,871
L-7	13,636	11,898	10,159	8,420
LT-8(65)	14,643	12,904	11,165	9,427
L-12	15,833	14,094	12,355	10,616
LT-14(65)	16,291	14,552	12,813	11,074
L-6	17,938	16,199	14,460	12,721

Benefit Program	3 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 9,610	\$ 7,871	\$ 6,132	\$ 4,393
L-3	11,806	10,067	8,328	6,589
LT-4(65)	11,715	9,976	8,237	6,498
LT-5(65)	13,453	11,715	9,976	8,237
L-7	14,094	12,355	10,616	8,877
LT-8(65)	15,101	13,362	11,623	9,884
L-12	16,291	14,552	12,813	11,074
LT-14(65)	16,840	15,101	13,362	11,623
L-6	18,487	16,748	15,009	13,270

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.



# City of Archie

## Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	6	2
Annual Payroll	\$ 279,097	\$ 91,520

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:

### City of Archie

#### Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 78,002	\$ 80,605
	Police	13,942	14,419
L-3	General	97,490	100,752
	Police	17,424	18,017
LT-4(65)	General	86,636	89,517
	Police	17,396	17,992
LT-5(65)	General	103,972	107,432
	Police	20,012	20,702
L-7	General	116,989	120,883
	Police	20,896	21,613
LT-8(65)	General	121,305	125,349
	Police	22,618	23,406
L-12	General	136,525	141,040
	Police	24,387	25,231
LT-14(65)	General	138,679	143,271
	Police	25,254	26,119
L-6	General	156,050	161,154
	Police	27,872	28,819

# City of Archie

## 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	\$ 79,010	\$ 81,643
	Police	13,942	14,419
L-3	General	98,765	102,051
	Police	17,424	18,017
LT-4(65)	General	88,899	91,885
	Police	17,396	17,992
LT-5(65)	General	106,195	109,720
	Police	20,012	20,702
L-7	General	118,512	122,461
	Police	20,896	21,613
LT-8(65)	General	123,465	127,583
	Police	22,618	23,406
L-12	General	138,292	142,873
	Police	24,387	25,231
LT-14(65)	General	140,746	145,418
	Police	25,254	26,119
L-6	General	158,015	163,239
	Police	27,872	28,819

## **APPENDIX II**

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### **SUMMARY OF FINANCIAL ASSUMPTIONS**



# Summary of Assumptions Used in Actuarial Valuations

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

1. The investment return rate used in making the valuations was 7.00% per year, net of investment expenses, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. The price inflation rate used in making the valuations was 2.25% and the wage inflation rate used in making the valuations was 2.75%. The 7.00% investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.25%. Adopted 2021.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were 115% of the PubG-2010 Retiree Mortality Table for males and females. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were 115% of the PubNS-2010 Disabled Retiree Mortality Table for males and females. The pre-retirement mortality tables used were 75% of the PubG-2010 Employee Mortality Table for males and females of General groups and 75% of the PubS-2010 Employee Mortality Table for males and females of Police, Fire and Public Safety groups. Mortality rates for a particular calendar year are determined by applying the MP-2020 mortality improvement scale to the above described tables. Adopted 2021.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2021.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2021.
5. Post-retirement cost of living allowances are assumed to be 2.00% per year. Adopted 2021.
6. Total active member payroll is assumed to increase 2.75% a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2021.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.
9. This report was prepared using our proprietary valuation model and related software, which in our professional judgment, has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

## Schedule 1.

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

		Percent of Active Members Separating Within Next Year							
Sample Ages	Years of Service	General/Public Safety Members				Police		Fire	
		Men		Women		Disability	Withdrawal	Disability	Withdrawal
		Disability	Withdrawal	Disability	Withdrawal				
All	0		20.00%		23.00%		18.00%		12.00%
	1		18.00		21.00		17.00		10.00
	2		16.00		18.00		16.00		8.00
	3		13.00		15.00		14.00		8.00
	4		12.00		13.00		13.00		7.00
25	5 & Over	0.07%	8.80	0.02%	12.40	0.10%	10.80	0.07%	6.00
30		0.10	7.10	0.03	10.20	0.11	8.50	0.11	4.50
35		0.13	5.60	0.06	7.80	0.16	6.30	0.25	3.20
40		0.18	4.10	0.09	5.80	0.22	4.60	0.39	2.40
45		0.25	3.10	0.15	4.40	0.34	3.40	0.62	1.90
50		0.37	2.40	0.22	3.50	0.53	2.10	0.95	1.30
55		0.57	1.70	0.32	2.50	0.88	1.10	1.46	0.70
60		0.86	1.10	0.45	1.40		0.00		0.00
65			0.00		0.00		0.00		0.00

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

## Schedule 2.

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

#### Early Retirement

Retirement Ages	General Members		Retirement Ages	Police/ Public Safety	Fire
	Men	Women			
55	3.00%	3.00%	50	2.50%	2.25%
56	3.00%	3.00%	51	2.50%	2.25%
57	3.00%	3.00%	52	3.00%	2.25%
58	3.00%	3.00%	53	3.00%	2.25%
59	3.00%	3.00%	54	3.50%	2.25%

#### Normal Retirement

Retirement Ages	General Members		Retirement Ages	Police/ Public Safety	Fire
	Men	Women			
60	10%	10%	55	11%	13%
61	10	10	56	11	13
62	25	15	57	11	13
63	20	15	58	11	13
64	20	15	59	11	13
65	25	25	60	11	15
66	25	30	61	11	20
67	20	25	62	22	20
68	20	25	63	18	20
69	20	20	64	18	20
70	100	100	65	100	100

## Schedule 2. (Concluded)

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

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

## **APPENDIX III**

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### **SUMMARY OF LAGERS PROVISIONS**

# Missouri Local Government Employees Retirement System

## Brief Summary of LAGERS

### Benefits and Conditions Evaluated and/or Considered as of February 28, 2023

#### (Section references are to RSMo)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



## **APPENDIX IV**

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### **BENEFIT ILLUSTRATIONS**

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 1,003	\$1,528	102%
2,000	700	1,145	1,845	92%
2,500	875	1,285	2,160	86%
3,000	1,050	1,426	2,476	83%
3,500	1,225	1,567	2,792	80%
4,000	1,400	1,707	3,107	78%
25 Years of Service:				
\$1,500	\$ 375	\$ 1,003	\$1,378	92%
2,000	500	1,145	1,645	82%
2,500	625	1,285	1,910	76%
3,000	750	1,426	2,176	73%
3,500	875	1,567	2,442	70%
4,000	1,000	1,707	2,707	68%
15 Years of Service:				
\$1,500	\$225	\$ 1,003	\$1,228	82%
2,000	300	1,145	1,445	72%
2,500	375	1,285	1,660	66%
3,000	450	1,426	1,876	63%
3,500	525	1,567	2,092	60%
4,000	600	1,707	2,307	58%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 656	\$ 1,003	\$1,659	111%
2,000	875	1,145	2,020	101%
2,500	1,094	1,285	2,379	95%
3,000	1,313	1,426	2,739	91%
3,500	1,531	1,567	3,098	89%
4,000	1,750	1,707	3,457	86%
25 Years of Service:				
\$1,500	\$ 469	\$ 1,003	\$1,472	98%
2,000	625	1,145	1,770	89%
2,500	781	1,285	2,066	83%
3,000	938	1,426	2,364	79%
3,500	1,094	1,567	2,661	76%
4,000	1,250	1,707	2,957	74%
15 Years of Service:				
\$1,500	\$281	\$ 1,003	\$1,284	86%
2,000	375	1,145	1,520	76%
2,500	469	1,285	1,754	70%
3,000	563	1,426	1,989	66%
3,500	656	1,567	2,223	64%
4,000	750	1,707	2,457	61%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 788	\$ 1,003	\$1,791	119%
2,000	1,050	1,145	2,195	110%
2,500	1,313	1,285	2,598	104%
3,000	1,575	1,426	3,001	100%
3,500	1,838	1,567	3,405	97%
4,000	2,100	1,707	3,807	95%
25 Years of Service:				
\$1,500	\$ 563	\$ 1,003	\$1,566	104%
2,000	750	1,145	1,895	95%
2,500	938	1,285	2,223	89%
3,000	1,125	1,426	2,551	85%
3,500	1,313	1,567	2,880	82%
4,000	1,500	1,707	3,207	80%
15 Years of Service:				
\$1,500	\$338	\$ 1,003	\$1,341	89%
2,000	450	1,145	1,595	80%
2,500	563	1,285	1,848	74%
3,000	675	1,426	2,101	70%
3,500	788	1,567	2,355	67%
4,000	900	1,707	2,607	65%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 1,003	\$1,922	128%
2,000	1,225	1,145	2,370	119%
2,500	1,531	1,285	2,816	113%
3,000	1,838	1,426	3,264	109%
3,500	2,144	1,567	3,711	106%
4,000	2,450	1,707	4,157	104%
25 Years of Service:				
\$1,500	\$ 656	\$ 1,003	\$1,659	111%
2,000	875	1,145	2,020	101%
2,500	1,094	1,285	2,379	95%
3,000	1,313	1,426	2,739	91%
3,500	1,531	1,567	3,098	89%
4,000	1,750	1,707	3,457	86%
15 Years of Service:				
\$1,500	\$ 394	\$ 1,003	\$1,397	93%
2,000	525	1,145	1,670	84%
2,500	656	1,285	1,941	78%
3,000	788	1,426	2,214	74%
3,500	919	1,567	2,486	71%
4,000	1,050	1,707	2,757	69%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 1,003	\$2,053	137%
2,000	1,400	1,145	2,545	127%
2,500	1,750	1,285	3,035	121%
3,000	2,100	1,426	3,526	118%
3,500	2,450	1,567	4,017	115%
4,000	2,800	1,707	4,507	113%
25 Years of Service:				
\$1,500	\$ 750	\$ 1,003	\$1,753	117%
2,000	1,000	1,145	2,145	107%
2,500	1,250	1,285	2,535	101%
3,000	1,500	1,426	2,926	98%
3,500	1,750	1,567	3,317	95%
4,000	2,000	1,707	3,707	93%
15 Years of Service:				
\$1,500	\$ 450	\$ 1,003	\$1,453	97%
2,000	600	1,145	1,745	87%
2,500	750	1,285	2,035	81%
3,000	900	1,426	2,326	78%
3,500	1,050	1,567	2,617	75%
4,000	1,200	1,707	2,907	73%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 525	\$ 1,003	\$1,050	\$1,528	70%	102%
2,000	1,400	700	1,145	1,400	1,845	70%	92%
2,500	1,750	875	1,285	1,750	2,160	70%	86%
3,000	2,100	1,050	1,426	2,100	2,476	70%	83%
3,500	2,450	1,225	1,567	2,450	2,792	70%	80%
4,000	2,800	1,400	1,707	2,800	3,107	70%	78%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 1,003	\$ 750	\$1,378	50%	92%
2,000	1,000	500	1,145	1,000	1,645	50%	82%
2,500	1,250	625	1,285	1,250	1,910	50%	76%
3,000	1,500	750	1,426	1,500	2,176	50%	73%
3,500	1,750	875	1,567	1,750	2,442	50%	70%
4,000	2,000	1,000	1,707	2,000	2,707	50%	68%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 1,003	\$ 450	\$1,228	30%	82%
2,000	600	300	1,145	600	1,445	30%	72%
2,500	750	375	1,285	750	1,660	30%	66%
3,000	900	450	1,426	900	1,876	30%	63%
3,500	1,050	525	1,567	1,050	2,092	30%	60%
4,000	1,200	600	1,707	1,200	2,307	30%	58%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 656	\$ 1,003	\$1,050	\$1,659	70%	111%
2,000	1,400	875	1,145	1,400	2,020	70%	101%
2,500	1,750	1,094	1,285	1,750	2,379	70%	95%
3,000	2,100	1,313	1,426	2,100	2,739	70%	91%
3,500	2,450	1,531	1,567	2,450	3,098	70%	89%
4,000	2,800	1,750	1,707	2,800	3,457	70%	86%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 1,003	\$ 750	\$1,472	50%	98%
2,000	1,000	625	1,145	1,000	1,770	50%	89%
2,500	1,250	781	1,285	1,250	2,066	50%	83%
3,000	1,500	938	1,426	1,500	2,364	50%	79%
3,500	1,750	1,094	1,567	1,750	2,661	50%	76%
4,000	2,000	1,250	1,707	2,000	2,957	50%	74%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 1,003	\$ 450	\$1,284	30%	86%
2,000	600	375	1,145	600	1,520	30%	76%
2,500	750	469	1,285	750	1,754	30%	70%
3,000	900	563	1,426	900	1,989	30%	66%
3,500	1,050	656	1,567	1,050	2,223	30%	64%
4,000	1,200	750	1,707	1,200	2,457	30%	61%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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



# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 788	\$ 1,003	\$1,050	\$1,791	70%	119%
2,000	1,400	1,050	1,145	1,400	2,195	70%	110%
2,500	1,750	1,313	1,285	1,750	2,598	70%	104%
3,000	2,100	1,575	1,426	2,100	3,001	70%	100%
3,500	2,450	1,838	1,567	2,450	3,405	70%	97%
4,000	2,800	2,100	1,707	2,800	3,807	70%	95%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 1,003	\$ 750	\$1,566	50%	104%
2,000	1,000	750	1,145	1,000	1,895	50%	95%
2,500	1,250	938	1,285	1,250	2,223	50%	89%
3,000	1,500	1,125	1,426	1,500	2,551	50%	85%
3,500	1,750	1,313	1,567	1,750	2,880	50%	82%
4,000	2,000	1,500	1,707	2,000	3,207	50%	80%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 1,003	\$ 450	\$1,341	30%	89%
2,000	600	450	1,145	600	1,595	30%	80%
2,500	750	563	1,285	750	1,848	30%	74%
3,000	900	675	1,426	900	2,101	30%	70%
3,500	1,050	788	1,567	1,050	2,355	30%	67%
4,000	1,200	900	1,707	1,200	2,607	30%	65%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

# Missouri LAGERS

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

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	Estimated Monthly Total		Percent of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 919	\$ 1,003	\$1,050	\$1,922	70%	128%
2,000	1,400	1,225	1,145	1,400	2,370	70%	119%
2,500	1,750	1,531	1,285	1,750	2,816	70%	113%
3,000	2,100	1,838	1,426	2,100	3,264	70%	109%
3,500	2,450	2,144	1,567	2,450	3,711	70%	106%
4,000	2,800	2,450	1,707	2,800	4,157	70%	104%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 1,003	\$ 750	\$1,659	50%	111%
2,000	1,000	875	1,145	1,000	2,020	50%	101%
2,500	1,250	1,094	1,285	1,250	2,379	50%	95%
3,000	1,500	1,313	1,426	1,500	2,739	50%	91%
3,500	1,750	1,531	1,567	1,750	3,098	50%	89%
4,000	2,000	1,750	1,707	2,000	3,457	50%	86%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 1,003	\$ 450	\$1,397	30%	93%
2,000	600	525	1,145	600	1,670	30%	84%
2,500	750	656	1,285	750	1,941	30%	78%
3,000	900	788	1,426	900	2,214	30%	74%
3,500	1,050	919	1,567	1,050	2,486	30%	71%
4,000	1,200	1,050	1,707	1,200	2,757	30%	69%

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

<sup>2</sup> "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

## **APPENDIX V**

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

# City of Archie - General

August 31, 2023

## 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	\$ 36,608
25-29									
30-34	1							1	\$ 36,608
35-39									
40-44	1							1	\$ 37,710
45-49									
50-54	1							1	\$ 44,470
55-59	2							2	\$ 123,701
60-64									
65-69									
<b>70 &amp; Over</b>									
<b>Totals</b>	<b>6</b>							<b>6</b>	<b>\$ 279,097</b>

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

Age: 43.5 years.

Benefit Service: 2.6 years.

Annual Pay: \$46,516.

# City of Archie - Police

August 31, 2023

## By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39									
40-44	1							1	\$ 45,760
45-49									
50-54	1							1	\$ 45,760
55-59									
60-64									
65-69									
70 & Over									
<b>Totals</b>	<b>2</b>							<b>2</b>	<b>\$ 91,520</b>

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

Age: 46.8 years.

Benefit Service: 1.4 years.

Annual Pay: \$45,760.

## **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.





September 29, 2023 E-mail

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

Dear Mr. Betts:

Enclosed is the report of the August 31, 2023 Initial Actuarial Valuation of LAGERS benefits for the employees of

City of Archie

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



September 29, 2023

City of Archie  
Archie, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the August 31, 2023 Initial Valuation for the City of Archie dated September 29, 2023.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of the Initial Valuation Report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2023. The unfunded actuarial accrued liability shown for each member contribution rate option is based on the 0% member contribution rate plan.

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

Respectfully submitted,  
Gabriel, Roeder, Smith & Company

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

Mita D. Drazilov, ASA, FCA, MAAA

# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	9.5%	\$26,514	\$ 78,002	11.6%	\$32,375	\$ 97,490	10.4%	\$29,026	\$ 86,636
2024	286,772	9.5	27,243	78,750	11.6	33,266	98,425	10.4	29,824	87,467
2025	294,658	9.5	27,993	79,421	11.6	34,180	99,264	10.4	30,644	88,212
2026	302,761	9.5	28,762	80,006	11.6	35,120	99,995	10.4	31,487	88,862
2027	311,087	9.5	29,553	80,495	11.6	36,086	100,606	10.4	32,353	89,405
2028	319,642	9.5	30,366	80,878	11.6	37,078	101,084	10.4	33,243	89,830
2029	328,432	9.5	31,201	81,143	11.6	38,098	101,415	10.4	34,157	90,124
2030	337,464	9.5	32,059	81,278	11.6	39,146	101,584	10.4	35,096	90,274
2031	346,744	9.5	32,941	81,270	11.6	40,222	101,574	10.4	36,061	90,265
2032	356,279	9.5	33,847	81,105	11.6	41,328	101,368	10.4	37,053	90,082

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	12.4%	\$34,608	\$ 103,972	13.7%	\$38,236	\$ 116,989	14.2%	\$39,632	\$ 121,305
2024	286,772	12.4	35,560	104,969	13.7	39,288	118,111	14.2	40,722	122,469
2025	294,658	12.4	36,538	105,863	13.7	40,368	119,117	14.2	41,841	123,513
2026	302,761	12.4	37,542	106,643	13.7	41,478	119,994	14.2	42,992	124,423
2027	311,087	12.4	38,575	107,295	13.7	42,619	120,727	14.2	44,174	125,184
2028	319,642	12.4	39,636	107,805	13.7	43,791	121,301	14.2	45,389	125,779
2029	328,432	12.4	40,726	108,158	13.7	44,995	121,699	14.2	46,637	126,191
2030	337,464	12.4	41,846	108,338	13.7	46,233	121,902	14.2	47,920	126,401
2031	346,744	12.4	42,996	108,328	13.7	47,504	121,890	14.2	49,238	126,389
2032	356,279	12.4	44,179	108,108	13.7	48,810	121,642	14.2	50,592	126,132

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	16.0%	\$44,656	\$ 136,525	16.2%	\$45,214	\$ 138,679	18.2%	\$50,796	\$ 156,050
2024	286,772	16.0	45,884	137,835	16.2	46,457	140,009	18.2	52,193	157,547
2025	294,658	16.0	47,145	139,010	16.2	47,735	141,202	18.2	53,628	158,889
2026	302,761	16.0	48,442	140,034	16.2	49,047	142,242	18.2	55,103	160,059
2027	311,087	16.0	49,774	140,890	16.2	50,396	143,111	18.2	56,618	161,037
2028	319,642	16.0	51,143	141,560	16.2	51,782	143,791	18.2	58,175	161,803
2029	328,432	16.0	52,549	142,024	16.2	53,206	144,262	18.2	59,775	162,333
2030	337,464	16.0	53,994	142,261	16.2	54,669	144,502	18.2	61,418	162,603
2031	346,744	16.0	55,479	142,247	16.2	56,173	144,488	18.2	63,107	162,587
2032	356,279	16.0	57,005	141,958	16.2	57,717	144,195	18.2	64,843	162,257

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	7.6%	\$21,211	\$ 78,002	9.7%	\$27,072	\$ 97,490	8.5%	\$23,723	\$ 86,636
2024	286,772	7.6	21,795	78,750	9.7	27,817	98,425	8.5	24,376	87,467
2025	294,658	7.6	22,394	79,421	9.7	28,582	99,264	8.5	25,046	88,212
2026	302,761	7.6	23,010	80,006	9.7	29,368	99,995	8.5	25,735	88,862
2027	311,087	7.6	23,643	80,495	9.7	30,175	100,606	8.5	26,442	89,405
2028	319,642	7.6	24,293	80,878	9.7	31,005	101,084	8.5	27,170	89,830
2029	328,432	7.6	24,961	81,143	9.7	31,858	101,415	8.5	27,917	90,124
2030	337,464	7.6	25,647	81,278	9.7	32,734	101,584	8.5	28,684	90,274
2031	346,744	7.6	26,353	81,270	9.7	33,634	101,574	8.5	29,473	90,265
2032	356,279	7.6	27,077	81,105	9.7	34,559	101,368	8.5	30,284	90,082

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	10.5%	\$29,305	\$ 103,972	11.8%	\$32,933	\$ 116,989	12.3%	\$34,329	\$ 121,305
2024	286,772	10.5	30,111	104,969	11.8	33,839	118,111	12.3	35,273	122,469
2025	294,658	10.5	30,939	105,863	11.8	34,770	119,117	12.3	36,243	123,513
2026	302,761	10.5	31,790	106,643	11.8	35,726	119,994	12.3	37,240	124,423
2027	311,087	10.5	32,664	107,295	11.8	36,708	120,727	12.3	38,264	125,184
2028	319,642	10.5	33,562	107,805	11.8	37,718	121,301	12.3	39,316	125,779
2029	328,432	10.5	34,485	108,158	11.8	38,755	121,699	12.3	40,397	126,191
2030	337,464	10.5	35,434	108,338	11.8	39,821	121,902	12.3	41,508	126,401
2031	346,744	10.5	36,408	108,328	11.8	40,916	121,890	12.3	42,650	126,389
2032	356,279	10.5	37,409	108,108	11.8	42,041	121,642	12.3	43,822	126,132

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	14.1%	\$39,353	\$ 136,525	14.3%	\$39,911	\$ 138,679	16.3%	\$45,493	\$ 156,050
2024	286,772	14.1	40,435	137,835	14.3	41,008	140,009	16.3	46,744	157,547
2025	294,658	14.1	41,547	139,010	14.3	42,136	141,202	16.3	48,029	158,889
2026	302,761	14.1	42,689	140,034	14.3	43,295	142,242	16.3	49,350	160,059
2027	311,087	14.1	43,863	140,890	14.3	44,485	143,111	16.3	50,707	161,037
2028	319,642	14.1	45,070	141,560	14.3	45,709	143,791	16.3	52,102	161,803
2029	328,432	14.1	46,309	142,024	14.3	46,966	144,262	16.3	53,534	162,333
2030	337,464	14.1	47,582	142,261	14.3	48,257	144,502	16.3	55,007	162,603
2031	346,744	14.1	48,891	142,247	14.3	49,584	144,488	16.3	56,519	162,587
2032	356,279	14.1	50,235	141,958	14.3	50,948	144,195	16.3	58,073	162,257

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	5.7%	\$15,909	\$ 78,002	7.8%	\$21,770	\$ 97,490	6.6%	\$18,420	\$ 86,636
2024	286,772	5.7	16,346	78,750	7.8	22,368	98,425	6.6	18,927	87,467
2025	294,658	5.7	16,796	79,421	7.8	22,983	99,264	6.6	19,447	88,212
2026	302,761	5.7	17,257	80,006	7.8	23,615	99,995	6.6	19,982	88,862
2027	311,087	5.7	17,732	80,495	7.8	24,265	100,606	6.6	20,532	89,405
2028	319,642	5.7	18,220	80,878	7.8	24,932	101,084	6.6	21,096	89,830
2029	328,432	5.7	18,721	81,143	7.8	25,618	101,415	6.6	21,677	90,124
2030	337,464	5.7	19,235	81,278	7.8	26,322	101,584	6.6	22,273	90,274
2031	346,744	5.7	19,764	81,270	7.8	27,046	101,574	6.6	22,885	90,265
2032	356,279	5.7	20,308	81,105	7.8	27,790	101,368	6.6	23,514	90,082

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	8.6%	\$24,002	\$ 103,972	9.9%	\$27,631	\$ 116,989	10.4%	\$29,026	\$ 121,305
2024	286,772	8.6	24,662	104,969	9.9	28,390	118,111	10.4	29,824	122,469
2025	294,658	8.6	25,341	105,863	9.9	29,171	119,117	10.4	30,644	123,513
2026	302,761	8.6	26,037	106,643	9.9	29,973	119,994	10.4	31,487	124,423
2027	311,087	8.6	26,753	107,295	9.9	30,798	120,727	10.4	32,353	125,184
2028	319,642	8.6	27,489	107,805	9.9	31,645	121,301	10.4	33,243	125,779
2029	328,432	8.6	28,245	108,158	9.9	32,515	121,699	10.4	34,157	126,191
2030	337,464	8.6	29,022	108,338	9.9	33,409	121,902	10.4	35,096	126,401
2031	346,744	8.6	29,820	108,328	9.9	34,328	121,890	10.4	36,061	126,389
2032	356,279	8.6	30,640	108,108	9.9	35,272	121,642	10.4	37,053	126,132

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	12.2%	\$34,050	\$ 136,525	12.4%	\$34,608	\$ 138,679	14.4%	\$40,190	\$ 156,050
2024	286,772	12.2	34,986	137,835	12.4	35,560	140,009	14.4	41,295	157,547
2025	294,658	12.2	35,948	139,010	12.4	36,538	141,202	14.4	42,431	158,889
2026	302,761	12.2	36,937	140,034	12.4	37,542	142,242	14.4	43,598	160,059
2027	311,087	12.2	37,953	140,890	12.4	38,575	143,111	14.4	44,797	161,037
2028	319,642	12.2	38,996	141,560	12.4	39,636	143,791	14.4	46,028	161,803
2029	328,432	12.2	40,069	142,024	12.4	40,726	144,262	14.4	47,294	162,333
2030	337,464	12.2	41,171	142,261	12.4	41,846	144,502	14.4	48,595	162,603
2031	346,744	12.2	42,303	142,247	12.4	42,996	144,488	14.4	49,931	162,587
2032	356,279	12.2	43,466	141,958	12.4	44,179	144,195	14.4	51,304	162,257

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	3.8%	\$10,606	\$ 78,002	5.9%	\$16,467	\$ 97,490	4.7%	\$13,118	\$ 86,636
2024	286,772	3.8	10,897	78,750	5.9	16,920	98,425	4.7	13,478	87,467
2025	294,658	3.8	11,197	79,421	5.9	17,385	99,264	4.7	13,849	88,212
2026	302,761	3.8	11,505	80,006	5.9	17,863	99,995	4.7	14,230	88,862
2027	311,087	3.8	11,821	80,495	5.9	18,354	100,606	4.7	14,621	89,405
2028	319,642	3.8	12,146	80,878	5.9	18,859	101,084	4.7	15,023	89,830
2029	328,432	3.8	12,480	81,143	5.9	19,377	101,415	4.7	15,436	90,124
2030	337,464	3.8	12,824	81,278	5.9	19,910	101,584	4.7	15,861	90,274
2031	346,744	3.8	13,176	81,270	5.9	20,458	101,574	4.7	16,297	90,265
2032	356,279	3.8	13,539	81,105	5.9	21,020	101,368	4.7	16,745	90,082

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	6.7%	\$18,699	\$ 103,972	8.0%	\$22,328	\$ 116,989	8.5%	\$23,723	\$ 121,305
2024	286,772	6.7	19,214	104,969	8.0	22,942	118,111	8.5	24,376	122,469
2025	294,658	6.7	19,742	105,863	8.0	23,573	119,117	8.5	25,046	123,513
2026	302,761	6.7	20,285	106,643	8.0	24,221	119,994	8.5	25,735	124,423
2027	311,087	6.7	20,843	107,295	8.0	24,887	120,727	8.5	26,442	125,184
2028	319,642	6.7	21,416	107,805	8.0	25,571	121,301	8.5	27,170	125,779
2029	328,432	6.7	22,005	108,158	8.0	26,275	121,699	8.5	27,917	126,191
2030	337,464	6.7	22,610	108,338	8.0	26,997	121,902	8.5	28,684	126,401
2031	346,744	6.7	23,232	108,328	8.0	27,740	121,890	8.5	29,473	126,389
2032	356,279	6.7	23,871	108,108	8.0	28,502	121,642	8.5	30,284	126,132

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	10.3%	\$28,747	\$ 136,525	10.5%	\$29,305	\$ 138,679	12.5%	\$34,887	\$ 156,050
2024	286,772	10.3	29,538	137,835	10.5	30,111	140,009	12.5	35,847	157,547
2025	294,658	10.3	30,350	139,010	10.5	30,939	141,202	12.5	36,832	158,889
2026	302,761	10.3	31,184	140,034	10.5	31,790	142,242	12.5	37,845	160,059
2027	311,087	10.3	32,042	140,890	10.5	32,664	143,111	12.5	38,886	161,037
2028	319,642	10.3	32,923	141,560	10.5	33,562	143,791	12.5	39,955	161,803
2029	328,432	10.3	33,828	142,024	10.5	34,485	144,262	12.5	41,054	162,333
2030	337,464	10.3	34,759	142,261	10.5	35,434	144,502	12.5	42,183	162,603
2031	346,744	10.3	35,715	142,247	10.5	36,408	144,488	12.5	43,343	162,587
2032	356,279	10.3	36,697	141,958	10.5	37,409	144,195	12.5	44,535	162,257

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	9.8%	\$27,352	\$ 80,605	12.0%	\$33,492	\$ 100,752	10.8%	\$30,142	\$ 89,517
2024	286,772	9.8	28,104	81,378	12.0	34,413	101,718	10.8	30,971	90,376
2025	294,658	9.8	28,876	82,071	12.0	35,359	102,585	10.8	31,823	91,146
2026	302,761	9.8	29,671	82,675	12.0	36,331	103,340	10.8	32,698	91,817
2027	311,087	9.8	30,487	83,180	12.0	37,330	103,972	10.8	33,597	92,378
2028	319,642	9.8	31,325	83,575	12.0	38,357	104,466	10.8	34,521	92,817
2029	328,432	9.8	32,186	83,849	12.0	39,412	104,808	10.8	35,471	93,121
2030	337,464	9.8	33,071	83,989	12.0	40,496	104,983	10.8	36,446	93,276
2031	346,744	9.8	33,981	83,981	12.0	41,609	104,973	10.8	37,448	93,267
2032	356,279	9.8	34,915	83,810	12.0	42,753	104,760	10.8	38,478	93,078

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	12.7%	\$35,445	\$ 107,432	14.2%	\$39,632	\$ 120,883	14.7%	\$41,027	\$ 125,349
2024	286,772	12.7	36,420	108,463	14.2	40,722	122,043	14.7	42,155	126,551
2025	294,658	12.7	37,422	109,387	14.2	41,841	123,083	14.7	43,315	127,629
2026	302,761	12.7	38,451	110,193	14.2	42,992	123,989	14.7	44,506	128,569
2027	311,087	12.7	39,508	110,867	14.2	44,174	124,747	14.7	45,730	129,355
2028	319,642	12.7	40,595	111,394	14.2	45,389	125,340	14.7	46,987	129,970
2029	328,432	12.7	41,711	111,759	14.2	46,637	125,751	14.7	48,280	130,396
2030	337,464	12.7	42,858	111,945	14.2	47,920	125,961	14.7	49,607	130,613
2031	346,744	12.7	44,036	111,934	14.2	49,238	125,949	14.7	50,971	130,600
2032	356,279	12.7	45,247	111,707	14.2	50,592	125,693	14.7	52,373	130,335

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	16.5%	\$46,051	\$ 141,040	16.7%	\$46,609	\$ 143,271	18.8%	\$52,470	\$ 161,154
2024	286,772	16.5	47,317	142,393	16.7	47,891	144,645	18.8	53,913	162,700
2025	294,658	16.5	48,619	143,606	16.7	49,208	145,878	18.8	55,396	164,086
2026	302,761	16.5	49,956	144,664	16.7	50,561	146,952	18.8	56,919	165,294
2027	311,087	16.5	51,329	145,548	16.7	51,952	147,850	18.8	58,484	166,304
2028	319,642	16.5	52,741	146,240	16.7	53,380	148,553	18.8	60,093	167,095
2029	328,432	16.5	54,191	146,719	16.7	54,848	149,040	18.8	61,745	167,643
2030	337,464	16.5	55,682	146,963	16.7	56,356	149,288	18.8	63,443	167,922
2031	346,744	16.5	57,213	146,949	16.7	57,906	149,274	18.8	65,188	167,906
2032	356,279	16.5	58,786	146,651	16.7	59,499	148,971	18.8	66,980	167,565

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	7.9%	\$22,049	\$ 80,605	10.1%	\$28,189	\$ 100,752	8.9%	\$24,840	\$ 89,517
2024	286,772	7.9	22,655	81,378	10.1	28,964	101,718	8.9	25,523	90,376
2025	294,658	7.9	23,278	82,071	10.1	29,760	102,585	8.9	26,225	91,146
2026	302,761	7.9	23,918	82,675	10.1	30,579	103,340	8.9	26,946	91,817
2027	311,087	7.9	24,576	83,180	10.1	31,420	103,972	8.9	27,687	92,378
2028	319,642	7.9	25,252	83,575	10.1	32,284	104,466	8.9	28,448	92,817
2029	328,432	7.9	25,946	83,849	10.1	33,172	104,808	8.9	29,230	93,121
2030	337,464	7.9	26,660	83,989	10.1	34,084	104,983	8.9	30,034	93,276
2031	346,744	7.9	27,393	83,981	10.1	35,021	104,973	8.9	30,860	93,267
2032	356,279	7.9	28,146	83,810	10.1	35,984	104,760	8.9	31,709	93,078

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	10.8%	\$30,142	\$ 107,432	12.3%	\$34,329	\$ 120,883	12.8%	\$35,724	\$ 125,349
2024	286,772	10.8	30,971	108,463	12.3	35,273	122,043	12.8	36,707	126,551
2025	294,658	10.8	31,823	109,387	12.3	36,243	123,083	12.8	37,716	127,629
2026	302,761	10.8	32,698	110,193	12.3	37,240	123,989	12.8	38,753	128,569
2027	311,087	10.8	33,597	110,867	12.3	38,264	124,747	12.8	39,819	129,355
2028	319,642	10.8	34,521	111,394	12.3	39,316	125,340	12.8	40,914	129,970
2029	328,432	10.8	35,471	111,759	12.3	40,397	125,751	12.8	42,039	130,396
2030	337,464	10.8	36,446	111,945	12.3	41,508	125,961	12.8	43,195	130,613
2031	346,744	10.8	37,448	111,934	12.3	42,650	125,949	12.8	44,383	130,600
2032	356,279	10.8	38,478	111,707	12.3	43,822	125,693	12.8	45,604	130,335

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	14.6%	\$40,748	\$ 141,040	14.8%	\$41,306	\$ 143,271	16.9%	\$47,167	\$ 161,154
2024	286,772	14.6	41,869	142,393	14.8	42,442	144,645	16.9	48,464	162,700
2025	294,658	14.6	43,020	143,606	14.8	43,609	145,878	16.9	49,797	164,086
2026	302,761	14.6	44,203	144,664	14.8	44,809	146,952	16.9	51,167	165,294
2027	311,087	14.6	45,419	145,548	14.8	46,041	147,850	16.9	52,574	166,304
2028	319,642	14.6	46,668	146,240	14.8	47,307	148,553	16.9	54,019	167,095
2029	328,432	14.6	47,951	146,719	14.8	48,608	149,040	16.9	55,505	167,643
2030	337,464	14.6	49,270	146,963	14.8	49,945	149,288	16.9	57,031	167,922
2031	346,744	14.6	50,625	146,949	14.8	51,318	149,274	16.9	58,600	167,906
2032	356,279	14.6	52,017	146,651	14.8	52,729	148,971	16.9	60,211	167,565

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	6.0%	\$16,746	\$ 80,605	8.2%	\$22,886	\$ 100,752	7.0%	\$19,537	\$ 89,517
2024	286,772	6.0	17,206	81,378	8.2	23,515	101,718	7.0	20,074	90,376
2025	294,658	6.0	17,679	82,071	8.2	24,162	102,585	7.0	20,626	91,146
2026	302,761	6.0	18,166	82,675	8.2	24,826	103,340	7.0	21,193	91,817
2027	311,087	6.0	18,665	83,180	8.2	25,509	103,972	7.0	21,776	92,378
2028	319,642	6.0	19,179	83,575	8.2	26,211	104,466	7.0	22,375	92,817
2029	328,432	6.0	19,706	83,849	8.2	26,931	104,808	7.0	22,990	93,121
2030	337,464	6.0	20,248	83,989	8.2	27,672	104,983	7.0	23,622	93,276
2031	346,744	6.0	20,805	83,981	8.2	28,433	104,973	7.0	24,272	93,267
2032	356,279	6.0	21,377	83,810	8.2	29,215	104,760	7.0	24,940	93,078

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	8.9%	\$24,840	\$ 107,432	10.4%	\$29,026	\$ 120,883	10.9%	\$30,422	\$ 125,349
2024	286,772	8.9	25,523	108,463	10.4	29,824	122,043	10.9	31,258	126,551
2025	294,658	8.9	26,225	109,387	10.4	30,644	123,083	10.9	32,118	127,629
2026	302,761	8.9	26,946	110,193	10.4	31,487	123,989	10.9	33,001	128,569
2027	311,087	8.9	27,687	110,867	10.4	32,353	124,747	10.9	33,908	129,355
2028	319,642	8.9	28,448	111,394	10.4	33,243	125,340	10.9	34,841	129,970
2029	328,432	8.9	29,230	111,759	10.4	34,157	125,751	10.9	35,799	130,396
2030	337,464	8.9	30,034	111,945	10.4	35,096	125,961	10.9	36,784	130,613
2031	346,744	8.9	30,860	111,934	10.4	36,061	125,949	10.9	37,795	130,600
2032	356,279	8.9	31,709	111,707	10.4	37,053	125,693	10.9	38,834	130,335

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	12.7%	\$35,445	\$ 141,040	12.9%	\$36,004	\$ 143,271	15.0%	\$41,865	\$ 161,154
2024	286,772	12.7	36,420	142,393	12.9	36,994	144,645	15.0	43,016	162,700
2025	294,658	12.7	37,422	143,606	12.9	38,011	145,878	15.0	44,199	164,086
2026	302,761	12.7	38,451	144,664	12.9	39,056	146,952	15.0	45,414	165,294
2027	311,087	12.7	39,508	145,548	12.9	40,130	147,850	15.0	46,663	166,304
2028	319,642	12.7	40,595	146,240	12.9	41,234	148,553	15.0	47,946	167,095
2029	328,432	12.7	41,711	146,719	12.9	42,368	149,040	15.0	49,265	167,643
2030	337,464	12.7	42,858	146,963	12.9	43,533	149,288	15.0	50,620	167,922
2031	346,744	12.7	44,036	146,949	12.9	44,730	149,274	15.0	52,012	167,906
2032	356,279	12.7	45,247	146,651	12.9	45,960	148,971	15.0	53,442	167,565

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	4.1%	\$11,443	\$ 80,605	6.3%	\$17,583	\$ 100,752	5.1%	\$14,234	\$ 89,517
2024	286,772	4.1	11,758	81,378	6.3	18,067	101,718	5.1	14,625	90,376
2025	294,658	4.1	12,081	82,071	6.3	18,563	102,585	5.1	15,028	91,146
2026	302,761	4.1	12,413	82,675	6.3	19,074	103,340	5.1	15,441	91,817
2027	311,087	4.1	12,755	83,180	6.3	19,598	103,972	5.1	15,865	92,378
2028	319,642	4.1	13,105	83,575	6.3	20,137	104,466	5.1	16,302	92,817
2029	328,432	4.1	13,466	83,849	6.3	20,691	104,808	5.1	16,750	93,121
2030	337,464	4.1	13,836	83,989	6.3	21,260	104,983	5.1	17,211	93,276
2031	346,744	4.1	14,217	83,981	6.3	21,845	104,973	5.1	17,684	93,267
2032	356,279	4.1	14,607	83,810	6.3	22,446	104,760	5.1	18,170	93,078

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	7.0%	\$19,537	\$ 107,432	8.5%	\$23,723	\$ 120,883	9.0%	\$25,119	\$ 125,349
2024	286,772	7.0	20,074	108,463	8.5	24,376	122,043	9.0	25,809	126,551
2025	294,658	7.0	20,626	109,387	8.5	25,046	123,083	9.0	26,519	127,629
2026	302,761	7.0	21,193	110,193	8.5	25,735	123,989	9.0	27,248	128,569
2027	311,087	7.0	21,776	110,867	8.5	26,442	124,747	9.0	27,998	129,355
2028	319,642	7.0	22,375	111,394	8.5	27,170	125,340	9.0	28,768	129,970
2029	328,432	7.0	22,990	111,759	8.5	27,917	125,751	9.0	29,559	130,396
2030	337,464	7.0	23,622	111,945	8.5	28,684	125,961	9.0	30,372	130,613
2031	346,744	7.0	24,272	111,934	8.5	29,473	125,949	9.0	31,207	130,600
2032	356,279	7.0	24,940	111,707	8.5	30,284	125,693	9.0	32,065	130,335

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	10.8%	\$30,142	\$ 141,040	11.0%	\$30,701	\$ 143,271	13.1%	\$36,562	\$ 161,154
2024	286,772	10.8	30,971	142,393	11.0	31,545	144,645	13.1	37,567	162,700
2025	294,658	10.8	31,823	143,606	11.0	32,412	145,878	13.1	38,600	164,086
2026	302,761	10.8	32,698	144,664	11.0	33,304	146,952	13.1	39,662	165,294
2027	311,087	10.8	33,597	145,548	11.0	34,220	147,850	13.1	40,752	166,304
2028	319,642	10.8	34,521	146,240	11.0	35,161	148,553	13.1	41,873	167,095
2029	328,432	10.8	35,471	146,719	11.0	36,128	149,040	13.1	43,025	167,643
2030	337,464	10.8	36,446	146,963	11.0	37,121	149,288	13.1	44,208	167,922
2031	346,744	10.8	37,448	146,949	11.0	38,142	149,274	13.1	45,423	167,906
2032	356,279	10.8	38,478	146,651	11.0	39,191	148,971	13.1	46,673	167,565

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	9.8%	\$27,352	\$ 79,010	12.0%	\$33,492	\$ 98,765	11.1%	\$30,980	\$ 88,899
2024	286,772	9.8	28,104	79,768	12.0	34,413	99,712	11.1	31,832	89,752
2025	294,658	9.8	28,876	80,448	12.0	35,359	100,562	11.1	32,707	90,517
2026	302,761	9.8	29,671	81,040	12.0	36,331	101,303	11.1	33,606	91,184
2027	311,087	9.8	30,487	81,535	12.0	37,330	101,922	11.1	34,531	91,741
2028	319,642	9.8	31,325	81,923	12.0	38,357	102,407	11.1	35,480	92,177
2029	328,432	9.8	32,186	82,191	12.0	39,412	102,743	11.1	36,456	92,479
2030	337,464	9.8	33,071	82,328	12.0	40,496	102,914	11.1	37,459	92,633
2031	346,744	9.8	33,981	82,320	12.0	41,609	102,904	11.1	38,489	92,624
2032	356,279	9.8	34,915	82,153	12.0	42,753	102,695	11.1	39,547	92,436

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	12.9%	\$36,004	\$ 106,195	14.2%	\$39,632	\$ 118,512	14.8%	\$41,306	\$ 123,465
2024	286,772	12.9	36,994	107,214	14.2	40,722	119,649	14.8	42,442	124,649
2025	294,658	12.9	38,011	108,128	14.2	41,841	120,669	14.8	43,609	125,711
2026	302,761	12.9	39,056	108,924	14.2	42,992	121,558	14.8	44,809	126,637
2027	311,087	12.9	40,130	109,590	14.2	44,174	122,301	14.8	46,041	127,411
2028	319,642	12.9	41,234	110,111	14.2	45,389	122,882	14.8	47,307	128,017
2029	328,432	12.9	42,368	110,472	14.2	46,637	123,285	14.8	48,608	128,437
2030	337,464	12.9	43,533	110,656	14.2	47,920	123,490	14.8	49,945	128,651
2031	346,744	12.9	44,730	110,645	14.2	49,238	123,478	14.8	51,318	128,639
2032	356,279	12.9	45,960	110,420	14.2	50,592	123,227	14.8	52,729	128,378

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	16.4%	\$45,772	\$ 138,292	16.7%	\$46,609	\$ 140,746	18.7%	\$52,191	\$ 158,015
2024	286,772	16.4	47,031	139,619	16.7	47,891	142,096	18.7	53,626	159,531
2025	294,658	16.4	48,324	140,809	16.7	49,208	143,307	18.7	55,101	160,890
2026	302,761	16.4	49,653	141,846	16.7	50,561	144,362	18.7	56,616	162,075
2027	311,087	16.4	51,018	142,713	16.7	51,952	145,244	18.7	58,173	163,066
2028	319,642	16.4	52,421	143,391	16.7	53,380	145,935	18.7	59,773	163,841
2029	328,432	16.4	53,863	143,861	16.7	54,848	146,413	18.7	61,417	164,378
2030	337,464	16.4	55,344	144,101	16.7	56,356	146,657	18.7	63,106	164,652
2031	346,744	16.4	56,866	144,087	16.7	57,906	146,643	18.7	64,841	164,636
2032	356,279	16.4	58,430	143,794	16.7	59,499	146,345	18.7	66,624	164,302

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	7.9%	\$22,049	\$ 79,010	10.1%	\$28,189	\$ 98,765	9.2%	\$25,677	\$ 88,899
2024	286,772	7.9	22,655	79,768	10.1	28,964	99,712	9.2	26,383	89,752
2025	294,658	7.9	23,278	80,448	10.1	29,760	100,562	9.2	27,109	90,517
2026	302,761	7.9	23,918	81,040	10.1	30,579	101,303	9.2	27,854	91,184
2027	311,087	7.9	24,576	81,535	10.1	31,420	101,922	9.2	28,620	91,741
2028	319,642	7.9	25,252	81,923	10.1	32,284	102,407	9.2	29,407	92,177
2029	328,432	7.9	25,946	82,191	10.1	33,172	102,743	9.2	30,216	92,479
2030	337,464	7.9	26,660	82,328	10.1	34,084	102,914	9.2	31,047	92,633
2031	346,744	7.9	27,393	82,320	10.1	35,021	102,904	9.2	31,900	92,624
2032	356,279	7.9	28,146	82,153	10.1	35,984	102,695	9.2	32,778	92,436

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	11.0%	\$30,701	\$ 106,195	12.3%	\$34,329	\$ 118,512	12.9%	\$36,004	\$ 123,465
2024	286,772	11.0	31,545	107,214	12.3	35,273	119,649	12.9	36,994	124,649
2025	294,658	11.0	32,412	108,128	12.3	36,243	120,669	12.9	38,011	125,711
2026	302,761	11.0	33,304	108,924	12.3	37,240	121,558	12.9	39,056	126,637
2027	311,087	11.0	34,220	109,590	12.3	38,264	122,301	12.9	40,130	127,411
2028	319,642	11.0	35,161	110,111	12.3	39,316	122,882	12.9	41,234	128,017
2029	328,432	11.0	36,128	110,472	12.3	40,397	123,285	12.9	42,368	128,437
2030	337,464	11.0	37,121	110,656	12.3	41,508	123,490	12.9	43,533	128,651
2031	346,744	11.0	38,142	110,645	12.3	42,650	123,478	12.9	44,730	128,639
2032	356,279	11.0	39,191	110,420	12.3	43,822	123,227	12.9	45,960	128,378

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	14.5%	\$40,469	\$ 138,292	14.8%	\$41,306	\$ 140,746	16.8%	\$46,888	\$ 158,015
2024	286,772	14.5	41,582	139,619	14.8	42,442	142,096	16.8	48,178	159,531
2025	294,658	14.5	42,725	140,809	14.8	43,609	143,307	16.8	49,503	160,890
2026	302,761	14.5	43,900	141,846	14.8	44,809	144,362	16.8	50,864	162,075
2027	311,087	14.5	45,108	142,713	14.8	46,041	145,244	16.8	52,263	163,066
2028	319,642	14.5	46,348	143,391	14.8	47,307	145,935	16.8	53,700	163,841
2029	328,432	14.5	47,623	143,861	14.8	48,608	146,413	16.8	55,177	164,378
2030	337,464	14.5	48,932	144,101	14.8	49,945	146,657	16.8	56,694	164,652
2031	346,744	14.5	50,278	144,087	14.8	51,318	146,643	16.8	58,253	164,636
2032	356,279	14.5	51,660	143,794	14.8	52,729	146,345	16.8	59,855	164,302

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	6.0%	\$16,746	\$ 79,010	8.2%	\$22,886	\$ 98,765	7.3%	\$20,374	\$ 88,899
2024	286,772	6.0	17,206	79,768	8.2	23,515	99,712	7.3	20,934	89,752
2025	294,658	6.0	17,679	80,448	8.2	24,162	100,562	7.3	21,510	90,517
2026	302,761	6.0	18,166	81,040	8.2	24,826	101,303	7.3	22,102	91,184
2027	311,087	6.0	18,665	81,535	8.2	25,509	101,922	7.3	22,709	91,741
2028	319,642	6.0	19,179	81,923	8.2	26,211	102,407	7.3	23,334	92,177
2029	328,432	6.0	19,706	82,191	8.2	26,931	102,743	7.3	23,976	92,479
2030	337,464	6.0	20,248	82,328	8.2	27,672	102,914	7.3	24,635	92,633
2031	346,744	6.0	20,805	82,320	8.2	28,433	102,904	7.3	25,312	92,624
2032	356,279	6.0	21,377	82,153	8.2	29,215	102,695	7.3	26,008	92,436

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	9.1%	\$25,398	\$ 106,195	10.4%	\$29,026	\$ 118,512	11.0%	\$30,701	\$ 123,465
2024	286,772	9.1	26,096	107,214	10.4	29,824	119,649	11.0	31,545	124,649
2025	294,658	9.1	26,814	108,128	10.4	30,644	120,669	11.0	32,412	125,711
2026	302,761	9.1	27,551	108,924	10.4	31,487	121,558	11.0	33,304	126,637
2027	311,087	9.1	28,309	109,590	10.4	32,353	122,301	11.0	34,220	127,411
2028	319,642	9.1	29,087	110,111	10.4	33,243	122,882	11.0	35,161	128,017
2029	328,432	9.1	29,887	110,472	10.4	34,157	123,285	11.0	36,128	128,437
2030	337,464	9.1	30,709	110,656	10.4	35,096	123,490	11.0	37,121	128,651
2031	346,744	9.1	31,554	110,645	10.4	36,061	123,478	11.0	38,142	128,639
2032	356,279	9.1	32,421	110,420	10.4	37,053	123,227	11.0	39,191	128,378

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	12.6%	\$35,166	\$ 138,292	12.9%	\$36,004	\$ 140,746	14.9%	\$41,585	\$ 158,015
2024	286,772	12.6	36,133	139,619	12.9	36,994	142,096	14.9	42,729	159,531
2025	294,658	12.6	37,127	140,809	12.9	38,011	143,307	14.9	43,904	160,890
2026	302,761	12.6	38,148	141,846	12.9	39,056	144,362	14.9	45,111	162,075
2027	311,087	12.6	39,197	142,713	12.9	40,130	145,244	14.9	46,352	163,066
2028	319,642	12.6	40,275	143,391	12.9	41,234	145,935	14.9	47,627	163,841
2029	328,432	12.6	41,382	143,861	12.9	42,368	146,413	14.9	48,936	164,378
2030	337,464	12.6	42,520	144,101	12.9	43,533	146,657	14.9	50,282	164,652
2031	346,744	12.6	43,690	144,087	12.9	44,730	146,643	14.9	51,665	164,636
2032	356,279	12.6	44,891	143,794	12.9	45,960	146,345	14.9	53,086	164,302

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	4.1%	\$11,443	\$ 79,010	6.3%	\$17,583	\$ 98,765	5.4%	\$15,071	\$ 88,899
2024	286,772	4.1	11,758	79,768	6.3	18,067	99,712	5.4	15,486	89,752
2025	294,658	4.1	12,081	80,448	6.3	18,563	100,562	5.4	15,912	90,517
2026	302,761	4.1	12,413	81,040	6.3	19,074	101,303	5.4	16,349	91,184
2027	311,087	4.1	12,755	81,535	6.3	19,598	101,922	5.4	16,799	91,741
2028	319,642	4.1	13,105	81,923	6.3	20,137	102,407	5.4	17,261	92,177
2029	328,432	4.1	13,466	82,191	6.3	20,691	102,743	5.4	17,735	92,479
2030	337,464	4.1	13,836	82,328	6.3	21,260	102,914	5.4	18,223	92,633
2031	346,744	4.1	14,217	82,320	6.3	21,845	102,904	5.4	18,724	92,624
2032	356,279	4.1	14,607	82,153	6.3	22,446	102,695	5.4	19,239	92,436

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	7.2%	\$20,095	\$ 106,195	8.5%	\$23,723	\$ 118,512	9.1%	\$25,398	\$ 123,465
2024	286,772	7.2	20,648	107,214	8.5	24,376	119,649	9.1	26,096	124,649
2025	294,658	7.2	21,215	108,128	8.5	25,046	120,669	9.1	26,814	125,711
2026	302,761	7.2	21,799	108,924	8.5	25,735	121,558	9.1	27,551	126,637
2027	311,087	7.2	22,398	109,590	8.5	26,442	122,301	9.1	28,309	127,411
2028	319,642	7.2	23,014	110,111	8.5	27,170	122,882	9.1	29,087	128,017
2029	328,432	7.2	23,647	110,472	8.5	27,917	123,285	9.1	29,887	128,437
2030	337,464	7.2	24,297	110,656	8.5	28,684	123,490	9.1	30,709	128,651
2031	346,744	7.2	24,966	110,645	8.5	29,473	123,478	9.1	31,554	128,639
2032	356,279	7.2	25,652	110,420	8.5	30,284	123,227	9.1	32,421	128,378

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	10.7%	\$29,863	\$ 138,292	11.0%	\$30,701	\$ 140,746	13.0%	\$36,283	\$ 158,015
2024	286,772	10.7	30,685	139,619	11.0	31,545	142,096	13.0	37,280	159,531
2025	294,658	10.7	31,528	140,809	11.0	32,412	143,307	13.0	38,306	160,890
2026	302,761	10.7	32,395	141,846	11.0	33,304	144,362	13.0	39,359	162,075
2027	311,087	10.7	33,286	142,713	11.0	34,220	145,244	13.0	40,441	163,066
2028	319,642	10.7	34,202	143,391	11.0	35,161	145,935	13.0	41,553	163,841
2029	328,432	10.7	35,142	143,861	11.0	36,128	146,413	13.0	42,696	164,378
2030	337,464	10.7	36,109	144,101	11.0	37,121	146,657	13.0	43,870	164,652
2031	346,744	10.7	37,102	144,087	11.0	38,142	146,643	13.0	45,077	164,636
2032	356,279	10.7	38,122	143,794	11.0	39,191	146,345	13.0	46,316	164,302

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	10.0%	\$27,910	\$ 81,643	12.3%	\$34,329	\$ 102,051	11.3%	\$31,538	\$ 91,885
2024	286,772	10.0	28,677	82,426	12.3	35,273	103,030	11.3	32,405	92,766
2025	294,658	10.0	29,466	83,128	12.3	36,243	103,908	11.3	33,296	93,556
2026	302,761	10.0	30,276	83,740	12.3	37,240	104,673	11.3	34,212	94,245
2027	311,087	10.0	31,109	84,252	12.3	38,264	105,313	11.3	35,153	94,821
2028	319,642	10.0	31,964	84,653	12.3	39,316	105,814	11.3	36,120	95,272
2029	328,432	10.0	32,843	84,930	12.3	40,397	106,161	11.3	37,113	95,584
2030	337,464	10.0	33,746	85,072	12.3	41,508	106,338	11.3	38,133	95,743
2031	346,744	10.0	34,674	85,064	12.3	42,650	106,328	11.3	39,182	95,734
2032	356,279	10.0	35,628	84,891	12.3	43,822	106,112	11.3	40,260	95,540

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	13.4%	\$37,399	\$ 109,720	14.7%	\$41,027	\$ 122,461	15.3%	\$42,702	\$ 127,583
2024	286,772	13.4	38,427	110,773	14.7	42,155	123,636	15.3	43,876	128,807
2025	294,658	13.4	39,484	111,717	14.7	43,315	124,690	15.3	45,083	129,905
2026	302,761	13.4	40,570	112,540	14.7	44,506	125,608	15.3	46,322	130,862
2027	311,087	13.4	41,686	113,228	14.7	45,730	126,376	15.3	47,596	131,662
2028	319,642	13.4	42,832	113,766	14.7	46,987	126,977	15.3	48,905	132,288
2029	328,432	13.4	44,010	114,139	14.7	48,280	127,393	15.3	50,250	132,722
2030	337,464	13.4	45,220	114,329	14.7	49,607	127,605	15.3	51,632	132,943
2031	346,744	13.4	46,464	114,318	14.7	50,971	127,593	15.3	53,052	132,930
2032	356,279	13.4	47,741	114,086	14.7	52,373	127,334	15.3	54,511	132,660

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	17.0%	\$47,446	\$ 142,873	17.2%	\$48,005	\$ 145,418	19.3%	\$53,866	\$ 163,239
2024	286,772	17.0	48,751	144,244	17.2	49,325	146,813	19.3	55,347	164,805
2025	294,658	17.0	50,092	145,473	17.2	50,681	148,064	19.3	56,869	166,209
2026	302,761	17.0	51,469	146,544	17.2	52,075	149,154	19.3	58,433	167,433
2027	311,087	17.0	52,885	147,440	17.2	53,507	150,066	19.3	60,040	168,456
2028	319,642	17.0	54,339	148,141	17.2	54,978	150,779	19.3	61,691	169,257
2029	328,432	17.0	55,833	148,626	17.2	56,490	151,273	19.3	63,387	169,812
2030	337,464	17.0	57,369	148,874	17.2	58,044	151,525	19.3	65,131	170,095
2031	346,744	17.0	58,946	148,860	17.2	59,640	151,510	19.3	66,922	170,079
2032	356,279	17.0	60,567	148,558	17.2	61,280	151,202	19.3	68,762	169,734

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	8.1%	\$22,607	\$ 81,643	10.4%	\$29,026	\$ 102,051	9.4%	\$26,235	\$ 91,885
2024	286,772	8.1	23,229	82,426	10.4	29,824	103,030	9.4	26,957	92,766
2025	294,658	8.1	23,867	83,128	10.4	30,644	103,908	9.4	27,698	93,556
2026	302,761	8.1	24,524	83,740	10.4	31,487	104,673	9.4	28,460	94,245
2027	311,087	8.1	25,198	84,252	10.4	32,353	105,313	9.4	29,242	94,821
2028	319,642	8.1	25,891	84,653	10.4	33,243	105,814	9.4	30,046	95,272
2029	328,432	8.1	26,603	84,930	10.4	34,157	106,161	9.4	30,873	95,584
2030	337,464	8.1	27,335	85,072	10.4	35,096	106,338	9.4	31,722	95,743
2031	346,744	8.1	28,086	85,064	10.4	36,061	106,328	9.4	32,594	95,734
2032	356,279	8.1	28,859	84,891	10.4	37,053	106,112	9.4	33,490	95,540

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	11.5%	\$32,096	\$ 109,720	12.8%	\$35,724	\$ 122,461	13.4%	\$37,399	\$ 127,583
2024	286,772	11.5	32,979	110,773	12.8	36,707	123,636	13.4	38,427	128,807
2025	294,658	11.5	33,886	111,717	12.8	37,716	124,690	13.4	39,484	129,905
2026	302,761	11.5	34,818	112,540	12.8	38,753	125,608	13.4	40,570	130,862
2027	311,087	11.5	35,775	113,228	12.8	39,819	126,376	13.4	41,686	131,662
2028	319,642	11.5	36,759	113,766	12.8	40,914	126,977	13.4	42,832	132,288
2029	328,432	11.5	37,770	114,139	12.8	42,039	127,393	13.4	44,010	132,722
2030	337,464	11.5	38,808	114,329	12.8	43,195	127,605	13.4	45,220	132,943
2031	346,744	11.5	39,876	114,318	12.8	44,383	127,593	13.4	46,464	132,930
2032	356,279	11.5	40,972	114,086	12.8	45,604	127,334	13.4	47,741	132,660

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	15.1%	\$42,144	\$ 142,873	15.3%	\$42,702	\$ 145,418	17.4%	\$48,563	\$ 163,239
2024	286,772	15.1	43,303	144,244	15.3	43,876	146,813	17.4	49,898	164,805
2025	294,658	15.1	44,493	145,473	15.3	45,083	148,064	17.4	51,270	166,209
2026	302,761	15.1	45,717	146,544	15.3	46,322	149,154	17.4	52,680	167,433
2027	311,087	15.1	46,974	147,440	15.3	47,596	150,066	17.4	54,129	168,456
2028	319,642	15.1	48,266	148,141	15.3	48,905	150,779	17.4	55,618	169,257
2029	328,432	15.1	49,593	148,626	15.3	50,250	151,273	17.4	57,147	169,812
2030	337,464	15.1	50,957	148,874	15.3	51,632	151,525	17.4	58,719	170,095
2031	346,744	15.1	52,358	148,860	15.3	53,052	151,510	17.4	60,333	170,079
2032	356,279	15.1	53,798	148,558	15.3	54,511	151,202	17.4	61,993	169,734

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	6.2%	\$17,304	\$ 81,643	8.5%	\$23,723	\$ 102,051	7.5%	\$20,932	\$ 91,885
2024	286,772	6.2	17,780	82,426	8.5	24,376	103,030	7.5	21,508	92,766
2025	294,658	6.2	18,269	83,128	8.5	25,046	103,908	7.5	22,099	93,556
2026	302,761	6.2	18,771	83,740	8.5	25,735	104,673	7.5	22,707	94,245
2027	311,087	6.2	19,287	84,252	8.5	26,442	105,313	7.5	23,332	94,821
2028	319,642	6.2	19,818	84,653	8.5	27,170	105,814	7.5	23,973	95,272
2029	328,432	6.2	20,363	84,930	8.5	27,917	106,161	7.5	24,632	95,584
2030	337,464	6.2	20,923	85,072	8.5	28,684	106,338	7.5	25,310	95,743
2031	346,744	6.2	21,498	85,064	8.5	29,473	106,328	7.5	26,006	95,734
2032	356,279	6.2	22,089	84,891	8.5	30,284	106,112	7.5	26,721	95,540

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	9.6%	\$26,793	\$ 109,720	10.9%	\$30,422	\$ 122,461	11.5%	\$32,096	\$ 127,583
2024	286,772	9.6	27,530	110,773	10.9	31,258	123,636	11.5	32,979	128,807
2025	294,658	9.6	28,287	111,717	10.9	32,118	124,690	11.5	33,886	129,905
2026	302,761	9.6	29,065	112,540	10.9	33,001	125,608	11.5	34,818	130,862
2027	311,087	9.6	29,864	113,228	10.9	33,908	126,376	11.5	35,775	131,662
2028	319,642	9.6	30,686	113,766	10.9	34,841	126,977	11.5	36,759	132,288
2029	328,432	9.6	31,529	114,139	10.9	35,799	127,393	11.5	37,770	132,722
2030	337,464	9.6	32,397	114,329	10.9	36,784	127,605	11.5	38,808	132,943
2031	346,744	9.6	33,287	114,318	10.9	37,795	127,593	11.5	39,876	132,930
2032	356,279	9.6	34,203	114,086	10.9	38,834	127,334	11.5	40,972	132,660

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	13.2%	\$36,841	\$ 142,873	13.4%	\$37,399	\$ 145,418	15.5%	\$43,260	\$ 163,239
2024	286,772	13.2	37,854	144,244	13.4	38,427	146,813	15.5	44,450	164,805
2025	294,658	13.2	38,895	145,473	13.4	39,484	148,064	15.5	45,672	166,209
2026	302,761	13.2	39,964	146,544	13.4	40,570	149,154	15.5	46,928	167,433
2027	311,087	13.2	41,063	147,440	13.4	41,686	150,066	15.5	48,218	168,456
2028	319,642	13.2	42,193	148,141	13.4	42,832	150,779	15.5	49,545	169,257
2029	328,432	13.2	43,353	148,626	13.4	44,010	151,273	15.5	50,907	169,812
2030	337,464	13.2	44,545	148,874	13.4	45,220	151,525	15.5	52,307	170,095
2031	346,744	13.2	45,770	148,860	13.4	46,464	151,510	15.5	53,745	170,079
2032	356,279	13.2	47,029	148,558	13.4	47,741	151,202	15.5	55,223	169,734

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - General

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

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	4.3%	\$12,001	\$ 81,643	6.6%	\$18,420	\$ 102,051	5.6%	\$15,629	\$ 91,885
2024	286,772	4.3	12,331	82,426	6.6	18,927	103,030	5.6	16,059	92,766
2025	294,658	4.3	12,670	83,128	6.6	19,447	103,908	5.6	16,501	93,556
2026	302,761	4.3	13,019	83,740	6.6	19,982	104,673	5.6	16,955	94,245
2027	311,087	4.3	13,377	84,252	6.6	20,532	105,313	5.6	17,421	94,821
2028	319,642	4.3	13,745	84,653	6.6	21,096	105,814	5.6	17,900	95,272
2029	328,432	4.3	14,123	84,930	6.6	21,677	106,161	5.6	18,392	95,584
2030	337,464	4.3	14,511	85,072	6.6	22,273	106,338	5.6	18,898	95,743
2031	346,744	4.3	14,910	85,064	6.6	22,885	106,328	5.6	19,418	95,734
2032	356,279	4.3	15,320	84,891	6.6	23,514	106,112	5.6	19,952	95,540

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	7.7%	\$21,490	\$ 109,720	9.0%	\$25,119	\$ 122,461	9.6%	\$26,793	\$ 127,583
2024	286,772	7.7	22,081	110,773	9.0	25,809	123,636	9.6	27,530	128,807
2025	294,658	7.7	22,689	111,717	9.0	26,519	124,690	9.6	28,287	129,905
2026	302,761	7.7	23,313	112,540	9.0	27,248	125,608	9.6	29,065	130,862
2027	311,087	7.7	23,954	113,228	9.0	27,998	126,376	9.6	29,864	131,662
2028	319,642	7.7	24,612	113,766	9.0	28,768	126,977	9.6	30,686	132,288
2029	328,432	7.7	25,289	114,139	9.0	29,559	127,393	9.6	31,529	132,722
2030	337,464	7.7	25,985	114,329	9.0	30,372	127,605	9.6	32,397	132,943
2031	346,744	7.7	26,699	114,318	9.0	31,207	127,593	9.6	33,287	132,930
2032	356,279	7.7	27,433	114,086	9.0	32,065	127,334	9.6	34,203	132,660

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 279,097	11.3%	\$31,538	\$ 142,873	11.5%	\$32,096	\$ 145,418	13.6%	\$37,957	\$ 163,239
2024	286,772	11.3	32,405	144,244	11.5	32,979	146,813	13.6	39,001	164,805
2025	294,658	11.3	33,296	145,473	11.5	33,886	148,064	13.6	40,073	166,209
2026	302,761	11.3	34,212	146,544	11.5	34,818	149,154	13.6	41,175	167,433
2027	311,087	11.3	35,153	147,440	11.5	35,775	150,066	13.6	42,308	168,456
2028	319,642	11.3	36,120	148,141	11.5	36,759	150,779	13.6	43,471	169,257
2029	328,432	11.3	37,113	148,626	11.5	37,770	151,273	13.6	44,667	169,812
2030	337,464	11.3	38,133	148,874	11.5	38,808	151,525	13.6	45,895	170,095
2031	346,744	11.3	39,182	148,860	11.5	39,876	151,510	13.6	47,157	170,079
2032	356,279	11.3	40,260	148,558	11.5	40,972	151,202	13.6	48,454	169,734

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	10.3%	\$9,427	\$ 13,942	12.6%	\$11,532	\$ 17,424	12.4%	\$11,348	\$ 17,396
2024	94,037	10.3	9,686	14,076	12.6	11,849	17,591	12.4	11,661	17,563
2025	96,623	10.3	9,952	14,196	12.6	12,174	17,741	12.4	11,981	17,713
2026	99,280	10.3	10,226	14,301	12.6	12,509	17,872	12.4	12,311	17,843
2027	102,010	10.3	10,507	14,388	12.6	12,853	17,981	12.4	12,649	17,952
2028	104,815	10.3	10,796	14,456	12.6	13,207	18,066	12.4	12,997	18,037
2029	107,697	10.3	11,093	14,503	12.6	13,570	18,125	12.4	13,354	18,096
2030	110,659	10.3	11,398	14,527	12.6	13,943	18,155	12.4	13,722	18,126
2031	113,702	10.3	11,711	14,526	12.6	14,326	18,153	12.4	14,099	18,124
2032	116,829	10.3	12,033	14,497	12.6	14,720	18,116	12.4	14,487	18,087

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	14.3%	\$13,087	\$ 20,012	14.9%	\$13,636	\$ 20,896	16.0%	\$14,643	\$ 22,618
2024	94,037	14.3	13,447	20,204	14.9	14,012	21,096	16.0	15,046	22,835
2025	96,623	14.3	13,817	20,376	14.9	14,397	21,276	16.0	15,460	23,030
2026	99,280	14.3	14,197	20,526	14.9	14,793	21,433	16.0	15,885	23,200
2027	102,010	14.3	14,587	20,651	14.9	15,199	21,564	16.0	16,322	23,342
2028	104,815	14.3	14,989	20,749	14.9	15,617	21,667	16.0	16,770	23,453
2029	107,697	14.3	15,401	20,817	14.9	16,047	21,738	16.0	17,232	23,530
2030	110,659	14.3	15,824	20,852	14.9	16,488	21,774	16.0	17,705	23,569
2031	113,702	14.3	16,259	20,850	14.9	16,942	21,772	16.0	18,192	23,567
2032	116,829	14.3	16,707	20,808	14.9	17,408	21,728	16.0	18,693	23,519

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	17.3%	\$15,833	\$ 24,387	17.8%	\$16,291	\$ 25,254	19.6%	\$17,938	\$ 27,872
2024	94,037	17.3	16,268	24,621	17.8	16,739	25,496	19.6	18,431	28,139
2025	96,623	17.3	16,716	24,831	17.8	17,199	25,713	19.6	18,938	28,379
2026	99,280	17.3	17,175	25,014	17.8	17,672	25,902	19.6	19,459	28,588
2027	102,010	17.3	17,648	25,167	17.8	18,158	26,060	19.6	19,994	28,763
2028	104,815	17.3	18,133	25,287	17.8	18,657	26,184	19.6	20,544	28,900
2029	107,697	17.3	18,632	25,370	17.8	19,170	26,270	19.6	21,109	28,995
2030	110,659	17.3	19,144	25,412	17.8	19,697	26,314	19.6	21,689	29,043
2031	113,702	17.3	19,670	25,410	17.8	20,239	26,311	19.6	22,286	29,040
2032	116,829	17.3	20,211	25,358	17.8	20,796	26,258	19.6	22,898	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	8.4%	\$7,688	\$ 13,942	10.7%	\$9,793	\$ 17,424	10.5%	\$9,610	\$ 17,396
2024	94,037	8.4	7,899	14,076	10.7	10,062	17,591	10.5	9,874	17,563
2025	96,623	8.4	8,116	14,196	10.7	10,339	17,741	10.5	10,145	17,713
2026	99,280	8.4	8,340	14,301	10.7	10,623	17,872	10.5	10,424	17,843
2027	102,010	8.4	8,569	14,388	10.7	10,915	17,981	10.5	10,711	17,952
2028	104,815	8.4	8,804	14,456	10.7	11,215	18,066	10.5	11,006	18,037
2029	107,697	8.4	9,047	14,503	10.7	11,524	18,125	10.5	11,308	18,096
2030	110,659	8.4	9,295	14,527	10.7	11,841	18,155	10.5	11,619	18,126
2031	113,702	8.4	9,551	14,526	10.7	12,166	18,153	10.5	11,939	18,124
2032	116,829	8.4	9,814	14,497	10.7	12,501	18,116	10.5	12,267	18,087

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	12.4%	\$11,348	\$ 20,012	13.0%	\$11,898	\$ 20,896	14.1%	\$12,904	\$ 22,618
2024	94,037	12.4	11,661	20,204	13.0	12,225	21,096	14.1	13,259	22,835
2025	96,623	12.4	11,981	20,376	13.0	12,561	21,276	14.1	13,624	23,030
2026	99,280	12.4	12,311	20,526	13.0	12,906	21,433	14.1	13,998	23,200
2027	102,010	12.4	12,649	20,651	13.0	13,261	21,564	14.1	14,383	23,342
2028	104,815	12.4	12,997	20,749	13.0	13,626	21,667	14.1	14,779	23,453
2029	107,697	12.4	13,354	20,817	13.0	14,001	21,738	14.1	15,185	23,530
2030	110,659	12.4	13,722	20,852	13.0	14,386	21,774	14.1	15,603	23,569
2031	113,702	12.4	14,099	20,850	13.0	14,781	21,772	14.1	16,032	23,567
2032	116,829	12.4	14,487	20,808	13.0	15,188	21,728	14.1	16,473	23,519

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	15.4%	\$14,094	\$ 24,387	15.9%	\$14,552	\$ 25,254	17.7%	\$16,199	\$ 27,872
2024	94,037	15.4	14,482	24,621	15.9	14,952	25,496	17.7	16,645	28,139
2025	96,623	15.4	14,880	24,831	15.9	15,363	25,713	17.7	17,102	28,379
2026	99,280	15.4	15,289	25,014	15.9	15,786	25,902	17.7	17,573	28,588
2027	102,010	15.4	15,710	25,167	15.9	16,220	26,060	17.7	18,056	28,763
2028	104,815	15.4	16,142	25,287	15.9	16,666	26,184	17.7	18,552	28,900
2029	107,697	15.4	16,585	25,370	15.9	17,124	26,270	17.7	19,062	28,995
2030	110,659	15.4	17,041	25,412	15.9	17,595	26,314	17.7	19,587	29,043
2031	113,702	15.4	17,510	25,410	15.9	18,079	26,311	17.7	20,125	29,040
2032	116,829	15.4	17,992	25,358	15.9	18,576	26,258	17.7	20,679	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	6.5%	\$5,949	\$ 13,942	8.8%	\$8,054	\$ 17,424	8.6%	\$7,871	\$ 17,396
2024	94,037	6.5	6,112	14,076	8.8	8,275	17,591	8.6	8,087	17,563
2025	96,623	6.5	6,280	14,196	8.8	8,503	17,741	8.6	8,310	17,713
2026	99,280	6.5	6,453	14,301	8.8	8,737	17,872	8.6	8,538	17,843
2027	102,010	6.5	6,631	14,388	8.8	8,977	17,981	8.6	8,773	17,952
2028	104,815	6.5	6,813	14,456	8.8	9,224	18,066	8.6	9,014	18,037
2029	107,697	6.5	7,000	14,503	8.8	9,477	18,125	8.6	9,262	18,096
2030	110,659	6.5	7,193	14,527	8.8	9,738	18,155	8.6	9,517	18,126
2031	113,702	6.5	7,391	14,526	8.8	10,006	18,153	8.6	9,778	18,124
2032	116,829	6.5	7,594	14,497	8.8	10,281	18,116	8.6	10,047	18,087

  

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	10.5%	\$9,610	\$ 20,012	11.1%	\$10,159	\$ 20,896	12.2%	\$11,165	\$ 22,618
2024	94,037	10.5	9,874	20,204	11.1	10,438	21,096	12.2	11,473	22,835
2025	96,623	10.5	10,145	20,376	11.1	10,725	21,276	12.2	11,788	23,030
2026	99,280	10.5	10,424	20,526	11.1	11,020	21,433	12.2	12,112	23,200
2027	102,010	10.5	10,711	20,651	11.1	11,323	21,564	12.2	12,445	23,342
2028	104,815	10.5	11,006	20,749	11.1	11,634	21,667	12.2	12,787	23,453
2029	107,697	10.5	11,308	20,817	11.1	11,954	21,738	12.2	13,139	23,530
2030	110,659	10.5	11,619	20,852	11.1	12,283	21,774	12.2	13,500	23,569
2031	113,702	10.5	11,939	20,850	11.1	12,621	21,772	12.2	13,872	23,567
2032	116,829	10.5	12,267	20,808	11.1	12,968	21,728	12.2	14,253	23,519

  

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	13.5%	\$12,355	\$ 24,387	14.0%	\$12,813	\$ 25,254	15.8%	\$14,460	\$ 27,872
2024	94,037	13.5	12,695	24,621	14.0	13,165	25,496	15.8	14,858	28,139
2025	96,623	13.5	13,044	24,831	14.0	13,527	25,713	15.8	15,266	28,379
2026	99,280	13.5	13,403	25,014	14.0	13,899	25,902	15.8	15,686	28,588
2027	102,010	13.5	13,771	25,167	14.0	14,281	26,060	15.8	16,118	28,763
2028	104,815	13.5	14,150	25,287	14.0	14,674	26,184	15.8	16,561	28,900
2029	107,697	13.5	14,539	25,370	14.0	15,078	26,270	15.8	17,016	28,995
2030	110,659	13.5	14,939	25,412	14.0	15,492	26,314	15.8	17,484	29,043
2031	113,702	13.5	15,350	25,410	14.0	15,918	26,311	15.8	17,965	29,040
2032	116,829	13.5	15,772	25,358	14.0	16,356	26,258	15.8	18,459	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	4.6%	\$4,210	\$ 13,942	6.9%	\$6,315	\$ 17,424	6.7%	\$6,132	\$ 17,396
2024	94,037	4.6	4,326	14,076	6.9	6,489	17,591	6.7	6,300	17,563
2025	96,623	4.6	4,445	14,196	6.9	6,667	17,741	6.7	6,474	17,713
2026	99,280	4.6	4,567	14,301	6.9	6,850	17,872	6.7	6,652	17,843
2027	102,010	4.6	4,692	14,388	6.9	7,039	17,981	6.7	6,835	17,952
2028	104,815	4.6	4,821	14,456	6.9	7,232	18,066	6.7	7,023	18,037
2029	107,697	4.6	4,954	14,503	6.9	7,431	18,125	6.7	7,216	18,096
2030	110,659	4.6	5,090	14,527	6.9	7,635	18,155	6.7	7,414	18,126
2031	113,702	4.6	5,230	14,526	6.9	7,845	18,153	6.7	7,618	18,124
2032	116,829	4.6	5,374	14,497	6.9	8,061	18,116	6.7	7,828	18,087

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	8.6%	\$7,871	\$ 20,012	9.2%	\$8,420	\$ 20,896	10.3%	\$9,427	\$ 22,618
2024	94,037	8.6	8,087	20,204	9.2	8,651	21,096	10.3	9,686	22,835
2025	96,623	8.6	8,310	20,376	9.2	8,889	21,276	10.3	9,952	23,030
2026	99,280	8.6	8,538	20,526	9.2	9,134	21,433	10.3	10,226	23,200
2027	102,010	8.6	8,773	20,651	9.2	9,385	21,564	10.3	10,507	23,342
2028	104,815	8.6	9,014	20,749	9.2	9,643	21,667	10.3	10,796	23,453
2029	107,697	8.6	9,262	20,817	9.2	9,908	21,738	10.3	11,093	23,530
2030	110,659	8.6	9,517	20,852	9.2	10,181	21,774	10.3	11,398	23,569
2031	113,702	8.6	9,778	20,850	9.2	10,461	21,772	10.3	11,711	23,567
2032	116,829	8.6	10,047	20,808	9.2	10,748	21,728	10.3	12,033	23,519

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	11.6%	\$10,616	\$ 24,387	12.1%	\$11,074	\$ 25,254	13.9%	\$12,721	\$ 27,872
2024	94,037	11.6	10,908	24,621	12.1	11,378	25,496	13.9	13,071	28,139
2025	96,623	11.6	11,208	24,831	12.1	11,691	25,713	13.9	13,431	28,379
2026	99,280	11.6	11,516	25,014	12.1	12,013	25,902	13.9	13,800	28,588
2027	102,010	11.6	11,833	25,167	12.1	12,343	26,060	13.9	14,179	28,763
2028	104,815	11.6	12,159	25,287	12.1	12,683	26,184	13.9	14,569	28,900
2029	107,697	11.6	12,493	25,370	12.1	13,031	26,270	13.9	14,970	28,995
2030	110,659	11.6	12,836	25,412	12.1	13,390	26,314	13.9	15,382	29,043
2031	113,702	11.6	13,189	25,410	12.1	13,758	26,311	13.9	15,805	29,040
2032	116,829	11.6	13,552	25,358	12.1	14,136	26,258	13.9	16,239	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	10.5%	\$9,610	\$ 14,419	12.9%	\$11,806	\$ 18,017	12.8%	\$11,715	\$ 17,992
2024	94,037	10.5	9,874	14,557	12.9	12,131	18,190	12.8	12,037	18,165
2025	96,623	10.5	10,145	14,681	12.9	12,464	18,345	12.8	12,368	18,320
2026	99,280	10.5	10,424	14,789	12.9	12,807	18,480	12.8	12,708	18,455
2027	102,010	10.5	10,711	14,879	12.9	13,159	18,593	12.8	13,057	18,568
2028	104,815	10.5	11,006	14,950	12.9	13,521	18,681	12.8	13,416	18,656
2029	107,697	10.5	11,308	14,999	12.9	13,893	18,742	12.8	13,785	18,717
2030	110,659	10.5	11,619	15,024	12.9	14,275	18,773	12.8	14,164	18,748
2031	113,702	10.5	11,939	15,023	12.9	14,668	18,771	12.8	14,554	18,746
2032	116,829	10.5	12,267	14,992	12.9	15,071	18,733	12.8	14,954	18,708

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	14.7%	\$13,453	\$ 20,702	15.4%	\$14,094	\$ 21,613	16.5%	\$15,101	\$ 23,406
2024	94,037	14.7	13,823	20,901	15.4	14,482	21,820	16.5	15,516	23,631
2025	96,623	14.7	14,204	21,079	15.4	14,880	22,006	16.5	15,943	23,832
2026	99,280	14.7	14,594	21,234	15.4	15,289	22,168	16.5	16,381	24,008
2027	102,010	14.7	14,995	21,364	15.4	15,710	22,303	16.5	16,832	24,155
2028	104,815	14.7	15,408	21,466	15.4	16,142	22,409	16.5	17,294	24,270
2029	107,697	14.7	15,831	21,536	15.4	16,585	22,482	16.5	17,770	24,350
2030	110,659	14.7	16,267	21,572	15.4	17,041	22,519	16.5	18,259	24,391
2031	113,702	14.7	16,714	21,570	15.4	17,510	22,517	16.5	18,761	24,389
2032	116,829	14.7	17,174	21,526	15.4	17,992	22,471	16.5	19,277	24,339

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	17.8%	\$16,291	\$ 25,231	18.4%	\$16,840	\$ 26,119	20.2%	\$18,487	\$ 28,819
2024	94,037	17.8	16,739	25,473	18.4	17,303	26,370	20.2	18,995	29,095
2025	96,623	17.8	17,199	25,690	18.4	17,779	26,595	20.2	19,518	29,343
2026	99,280	17.8	17,672	25,879	18.4	18,268	26,791	20.2	20,055	29,559
2027	102,010	17.8	18,158	26,037	18.4	18,770	26,955	20.2	20,606	29,740
2028	104,815	17.8	18,657	26,161	18.4	19,286	27,083	20.2	21,173	29,881
2029	107,697	17.8	19,170	26,247	18.4	19,816	27,172	20.2	21,755	29,979
2030	110,659	17.8	19,697	26,291	18.4	20,361	27,217	20.2	22,353	30,029
2031	113,702	17.8	20,239	26,288	18.4	20,921	27,214	20.2	22,968	30,026
2032	116,829	17.8	20,796	26,235	18.4	21,497	27,159	20.2	23,599	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	8.6%	\$7,871	\$ 14,419	11.0%	\$10,067	\$ 18,017	10.9%	\$9,976	\$ 17,992
2024	94,037	8.6	8,087	14,557	11.0	10,344	18,190	10.9	10,250	18,165
2025	96,623	8.6	8,310	14,681	11.0	10,629	18,345	10.9	10,532	18,320
2026	99,280	8.6	8,538	14,789	11.0	10,921	18,480	10.9	10,822	18,455
2027	102,010	8.6	8,773	14,879	11.0	11,221	18,593	10.9	11,119	18,568
2028	104,815	8.6	9,014	14,950	11.0	11,530	18,681	10.9	11,425	18,656
2029	107,697	8.6	9,262	14,999	11.0	11,847	18,742	10.9	11,739	18,717
2030	110,659	8.6	9,517	15,024	11.0	12,172	18,773	10.9	12,062	18,748
2031	113,702	8.6	9,778	15,023	11.0	12,507	18,771	10.9	12,394	18,746
2032	116,829	8.6	10,047	14,992	11.0	12,851	18,733	10.9	12,734	18,708

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	12.8%	\$11,715	\$ 20,702	13.5%	\$12,355	\$ 21,613	14.6%	\$13,362	\$ 23,406
2024	94,037	12.8	12,037	20,901	13.5	12,695	21,820	14.6	13,729	23,631
2025	96,623	12.8	12,368	21,079	13.5	13,044	22,006	14.6	14,107	23,832
2026	99,280	12.8	12,708	21,234	13.5	13,403	22,168	14.6	14,495	24,008
2027	102,010	12.8	13,057	21,364	13.5	13,771	22,303	14.6	14,893	24,155
2028	104,815	12.8	13,416	21,466	13.5	14,150	22,409	14.6	15,303	24,270
2029	107,697	12.8	13,785	21,536	13.5	14,539	22,482	14.6	15,724	24,350
2030	110,659	12.8	14,164	21,572	13.5	14,939	22,519	14.6	16,156	24,391
2031	113,702	12.8	14,554	21,570	13.5	15,350	22,517	14.6	16,600	24,389
2032	116,829	12.8	14,954	21,526	13.5	15,772	22,471	14.6	17,057	24,339

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	15.9%	\$14,552	\$ 25,231	16.5%	\$15,101	\$ 26,119	18.3%	\$16,748	\$ 28,819
2024	94,037	15.9	14,952	25,473	16.5	15,516	26,370	18.3	17,209	29,095
2025	96,623	15.9	15,363	25,690	16.5	15,943	26,595	18.3	17,682	29,343
2026	99,280	15.9	15,786	25,879	16.5	16,381	26,791	18.3	18,168	29,559
2027	102,010	15.9	16,220	26,037	16.5	16,832	26,955	18.3	18,668	29,740
2028	104,815	15.9	16,666	26,161	16.5	17,294	27,083	18.3	19,181	29,881
2029	107,697	15.9	17,124	26,247	16.5	17,770	27,172	18.3	19,709	29,979
2030	110,659	15.9	17,595	26,291	16.5	18,259	27,217	18.3	20,251	30,029
2031	113,702	15.9	18,079	26,288	16.5	18,761	27,214	18.3	20,807	30,026
2032	116,829	15.9	18,576	26,235	16.5	19,277	27,159	18.3	21,380	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# City of Archie - 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
2023	\$ 91,520	6.7%	\$6,132	\$ 14,419	9.1%	\$8,328	\$ 18,017	9.0%	\$8,237	\$ 17,992
2024	94,037	6.7	6,300	14,557	9.1	8,557	18,190	9.0	8,463	18,165
2025	96,623	6.7	6,474	14,681	9.1	8,793	18,345	9.0	8,696	18,320
2026	99,280	6.7	6,652	14,789	9.1	9,034	18,480	9.0	8,935	18,455
2027	102,010	6.7	6,835	14,879	9.1	9,283	18,593	9.0	9,181	18,568
2028	104,815	6.7	7,023	14,950	9.1	9,538	18,681	9.0	9,433	18,656
2029	107,697	6.7	7,216	14,999	9.1	9,800	18,742	9.0	9,693	18,717
2030	110,659	6.7	7,414	15,024	9.1	10,070	18,773	9.0	9,959	18,748
2031	113,702	6.7	7,618	15,023	9.1	10,347	18,771	9.0	10,233	18,746
2032	116,829	6.7	7,828	14,992	9.1	10,631	18,733	9.0	10,515	18,708

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
2023	\$ 91,520	10.9%	\$9,976	\$ 20,702	11.6%	\$10,616	\$ 21,613	12.7%	\$11,623	\$ 23,406
2024	94,037	10.9	10,250	20,901	11.6	10,908	21,820	12.7	11,943	23,631
2025	96,623	10.9	10,532	21,079	11.6	11,208	22,006	12.7	12,271	23,832
2026	99,280	10.9	10,822	21,234	11.6	11,516	22,168	12.7	12,609	24,008
2027	102,010	10.9	11,119	21,364	11.6	11,833	22,303	12.7	12,955	24,155
2028	104,815	10.9	11,425	21,466	11.6	12,159	22,409	12.7	13,312	24,270
2029	107,697	10.9	11,739	21,536	11.6	12,493	22,482	12.7	13,678	24,350
2030	110,659	10.9	12,062	21,572	11.6	12,836	22,519	12.7	14,054	24,391
2031	113,702	10.9	12,394	21,570	11.6	13,189	22,517	12.7	14,440	24,389
2032	116,829	10.9	12,734	21,526	11.6	13,552	22,471	12.7	14,837	24,339

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
2023	\$ 91,520	14.0%	\$12,813	\$ 25,231	14.6%	\$13,362	\$ 26,119	16.4%	\$15,009	\$ 28,819
2024	94,037	14.0	13,165	25,473	14.6	13,729	26,370	16.4	15,422	29,095
2025	96,623	14.0	13,527	25,690	14.6	14,107	26,595	16.4	15,846	29,343
2026	99,280	14.0	13,899	25,879	14.6	14,495	26,791	16.4	16,282	29,559
2027	102,010	14.0	14,281	26,037	14.6	14,893	26,955	16.4	16,730	29,740
2028	104,815	14.0	14,674	26,161	14.6	15,303	27,083	16.4	17,190	29,881
2029	107,697	14.0	15,078	26,247	14.6	15,724	27,172	16.4	17,662	29,979
2030	110,659	14.0	15,492	26,291	14.6	16,156	27,217	16.4	18,148	30,029
2031	113,702	14.0	15,918	26,288	14.6	16,600	27,214	16.4	18,647	30,026
2032	116,829	14.0	16,356	26,235	14.6	17,057	27,159	16.4	19,160	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	4.8%	\$4,393	\$ 14,419	7.2%	\$6,589	\$ 18,017	7.1%	\$6,498	\$ 17,992
2024	94,037	4.8	4,514	14,557	7.2	6,771	18,190	7.1	6,677	18,165
2025	96,623	4.8	4,638	14,681	7.2	6,957	18,345	7.1	6,860	18,320
2026	99,280	4.8	4,765	14,789	7.2	7,148	18,480	7.1	7,049	18,455
2027	102,010	4.8	4,896	14,879	7.2	7,345	18,593	7.1	7,243	18,568
2028	104,815	4.8	5,031	14,950	7.2	7,547	18,681	7.1	7,442	18,656
2029	107,697	4.8	5,169	14,999	7.2	7,754	18,742	7.1	7,646	18,717
2030	110,659	4.8	5,312	15,024	7.2	7,967	18,773	7.1	7,857	18,748
2031	113,702	4.8	5,458	15,023	7.2	8,187	18,771	7.1	8,073	18,746
2032	116,829	4.8	5,608	14,992	7.2	8,412	18,733	7.1	8,295	18,708

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	9.0%	\$8,237	\$ 20,702	9.7%	\$8,877	\$ 21,613	10.8%	\$9,884	\$ 23,406
2024	94,037	9.0	8,463	20,901	9.7	9,122	21,820	10.8	10,156	23,631
2025	96,623	9.0	8,696	21,079	9.7	9,372	22,006	10.8	10,435	23,832
2026	99,280	9.0	8,935	21,234	9.7	9,630	22,168	10.8	10,722	24,008
2027	102,010	9.0	9,181	21,364	9.7	9,895	22,303	10.8	11,017	24,155
2028	104,815	9.0	9,433	21,466	9.7	10,167	22,409	10.8	11,320	24,270
2029	107,697	9.0	9,693	21,536	9.7	10,447	22,482	10.8	11,631	24,350
2030	110,659	9.0	9,959	21,572	9.7	10,734	22,519	10.8	11,951	24,391
2031	113,702	9.0	10,233	21,570	9.7	11,029	22,517	10.8	12,280	24,389
2032	116,829	9.0	10,515	21,526	9.7	11,332	22,471	10.8	12,618	24,339

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	12.1%	\$11,074	\$ 25,231	12.7%	\$11,623	\$ 26,119	14.5%	\$13,270	\$ 28,819
2024	94,037	12.1	11,378	25,473	12.7	11,943	26,370	14.5	13,635	29,095
2025	96,623	12.1	11,691	25,690	12.7	12,271	26,595	14.5	14,010	29,343
2026	99,280	12.1	12,013	25,879	12.7	12,609	26,791	14.5	14,396	29,559
2027	102,010	12.1	12,343	26,037	12.7	12,955	26,955	14.5	14,791	29,740
2028	104,815	12.1	12,683	26,161	12.7	13,312	27,083	14.5	15,198	29,881
2029	107,697	12.1	13,031	26,247	12.7	13,678	27,172	14.5	15,616	29,979
2030	110,659	12.1	13,390	26,291	12.7	14,054	27,217	14.5	16,046	30,029
2031	113,702	12.1	13,758	26,288	12.7	14,440	27,214	14.5	16,487	30,026
2032	116,829	12.1	14,136	26,235	12.7	14,837	27,159	14.5	16,940	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	10.3%	\$9,427	\$ 13,942	12.6%	\$11,532	\$ 17,424	12.4%	\$11,348	\$ 17,396
2024	94,037	10.3	9,686	14,076	12.6	11,849	17,591	12.4	11,661	17,563
2025	96,623	10.3	9,952	14,196	12.6	12,174	17,741	12.4	11,981	17,713
2026	99,280	10.3	10,226	14,301	12.6	12,509	17,872	12.4	12,311	17,843
2027	102,010	10.3	10,507	14,388	12.6	12,853	17,981	12.4	12,649	17,952
2028	104,815	10.3	10,796	14,456	12.6	13,207	18,066	12.4	12,997	18,037
2029	107,697	10.3	11,093	14,503	12.6	13,570	18,125	12.4	13,354	18,096
2030	110,659	10.3	11,398	14,527	12.6	13,943	18,155	12.4	13,722	18,126
2031	113,702	10.3	11,711	14,526	12.6	14,326	18,153	12.4	14,099	18,124
2032	116,829	10.3	12,033	14,497	12.6	14,720	18,116	12.4	14,487	18,087

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	14.3%	\$13,087	\$ 20,012	14.9%	\$13,636	\$ 20,896	16.0%	\$14,643	\$ 22,618
2024	94,037	14.3	13,447	20,204	14.9	14,012	21,096	16.0	15,046	22,835
2025	96,623	14.3	13,817	20,376	14.9	14,397	21,276	16.0	15,460	23,030
2026	99,280	14.3	14,197	20,526	14.9	14,793	21,433	16.0	15,885	23,200
2027	102,010	14.3	14,587	20,651	14.9	15,199	21,564	16.0	16,322	23,342
2028	104,815	14.3	14,989	20,749	14.9	15,617	21,667	16.0	16,770	23,453
2029	107,697	14.3	15,401	20,817	14.9	16,047	21,738	16.0	17,232	23,530
2030	110,659	14.3	15,824	20,852	14.9	16,488	21,774	16.0	17,705	23,569
2031	113,702	14.3	16,259	20,850	14.9	16,942	21,772	16.0	18,192	23,567
2032	116,829	14.3	16,707	20,808	14.9	17,408	21,728	16.0	18,693	23,519

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	17.3%	\$15,833	\$ 24,387	17.8%	\$16,291	\$ 25,254	19.6%	\$17,938	\$ 27,872
2024	94,037	17.3	16,268	24,621	17.8	16,739	25,496	19.6	18,431	28,139
2025	96,623	17.3	16,716	24,831	17.8	17,199	25,713	19.6	18,938	28,379
2026	99,280	17.3	17,175	25,014	17.8	17,672	25,902	19.6	19,459	28,588
2027	102,010	17.3	17,648	25,167	17.8	18,158	26,060	19.6	19,994	28,763
2028	104,815	17.3	18,133	25,287	17.8	18,657	26,184	19.6	20,544	28,900
2029	107,697	17.3	18,632	25,370	17.8	19,170	26,270	19.6	21,109	28,995
2030	110,659	17.3	19,144	25,412	17.8	19,697	26,314	19.6	21,689	29,043
2031	113,702	17.3	19,670	25,410	17.8	20,239	26,311	19.6	22,286	29,040
2032	116,829	17.3	20,211	25,358	17.8	20,796	26,258	19.6	22,898	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2023	\$ 91,520	8.4%	\$7,688	\$ 13,942	10.7%	\$9,793	\$ 17,424	10.5%	\$9,610	\$ 17,396
2024	94,037	8.4	7,899	14,076	10.7	10,062	17,591	10.5	9,874	17,563
2025	96,623	8.4	8,116	14,196	10.7	10,339	17,741	10.5	10,145	17,713
2026	99,280	8.4	8,340	14,301	10.7	10,623	17,872	10.5	10,424	17,843
2027	102,010	8.4	8,569	14,388	10.7	10,915	17,981	10.5	10,711	17,952
2028	104,815	8.4	8,804	14,456	10.7	11,215	18,066	10.5	11,006	18,037
2029	107,697	8.4	9,047	14,503	10.7	11,524	18,125	10.5	11,308	18,096
2030	110,659	8.4	9,295	14,527	10.7	11,841	18,155	10.5	11,619	18,126
2031	113,702	8.4	9,551	14,526	10.7	12,166	18,153	10.5	11,939	18,124
2032	116,829	8.4	9,814	14,497	10.7	12,501	18,116	10.5	12,267	18,087

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	12.4%	\$11,348	\$ 20,012	13.0%	\$11,898	\$ 20,896	14.1%	\$12,904	\$ 22,618
2024	94,037	12.4	11,661	20,204	13.0	12,225	21,096	14.1	13,259	22,835
2025	96,623	12.4	11,981	20,376	13.0	12,561	21,276	14.1	13,624	23,030
2026	99,280	12.4	12,311	20,526	13.0	12,906	21,433	14.1	13,998	23,200
2027	102,010	12.4	12,649	20,651	13.0	13,261	21,564	14.1	14,383	23,342
2028	104,815	12.4	12,997	20,749	13.0	13,626	21,667	14.1	14,779	23,453
2029	107,697	12.4	13,354	20,817	13.0	14,001	21,738	14.1	15,185	23,530
2030	110,659	12.4	13,722	20,852	13.0	14,386	21,774	14.1	15,603	23,569
2031	113,702	12.4	14,099	20,850	13.0	14,781	21,772	14.1	16,032	23,567
2032	116,829	12.4	14,487	20,808	13.0	15,188	21,728	14.1	16,473	23,519

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	15.4%	\$14,094	\$ 24,387	15.9%	\$14,552	\$ 25,254	17.7%	\$16,199	\$ 27,872
2024	94,037	15.4	14,482	24,621	15.9	14,952	25,496	17.7	16,645	28,139
2025	96,623	15.4	14,880	24,831	15.9	15,363	25,713	17.7	17,102	28,379
2026	99,280	15.4	15,289	25,014	15.9	15,786	25,902	17.7	17,573	28,588
2027	102,010	15.4	15,710	25,167	15.9	16,220	26,060	17.7	18,056	28,763
2028	104,815	15.4	16,142	25,287	15.9	16,666	26,184	17.7	18,552	28,900
2029	107,697	15.4	16,585	25,370	15.9	17,124	26,270	17.7	19,062	28,995
2030	110,659	15.4	17,041	25,412	15.9	17,595	26,314	17.7	19,587	29,043
2031	113,702	15.4	17,510	25,410	15.9	18,079	26,311	17.7	20,125	29,040
2032	116,829	15.4	17,992	25,358	15.9	18,576	26,258	17.7	20,679	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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
2023	\$ 91,520	6.5%	\$5,949	\$ 13,942	8.8%	\$8,054	\$ 17,424	8.6%	\$7,871	\$ 17,396
2024	94,037	6.5	6,112	14,076	8.8	8,275	17,591	8.6	8,087	17,563
2025	96,623	6.5	6,280	14,196	8.8	8,503	17,741	8.6	8,310	17,713
2026	99,280	6.5	6,453	14,301	8.8	8,737	17,872	8.6	8,538	17,843
2027	102,010	6.5	6,631	14,388	8.8	8,977	17,981	8.6	8,773	17,952
2028	104,815	6.5	6,813	14,456	8.8	9,224	18,066	8.6	9,014	18,037
2029	107,697	6.5	7,000	14,503	8.8	9,477	18,125	8.6	9,262	18,096
2030	110,659	6.5	7,193	14,527	8.8	9,738	18,155	8.6	9,517	18,126
2031	113,702	6.5	7,391	14,526	8.8	10,006	18,153	8.6	9,778	18,124
2032	116,829	6.5	7,594	14,497	8.8	10,281	18,116	8.6	10,047	18,087

  

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
2023	\$ 91,520	10.5%	\$9,610	\$ 20,012	11.1%	\$10,159	\$ 20,896	12.2%	\$11,165	\$ 22,618
2024	94,037	10.5	9,874	20,204	11.1	10,438	21,096	12.2	11,473	22,835
2025	96,623	10.5	10,145	20,376	11.1	10,725	21,276	12.2	11,788	23,030
2026	99,280	10.5	10,424	20,526	11.1	11,020	21,433	12.2	12,112	23,200
2027	102,010	10.5	10,711	20,651	11.1	11,323	21,564	12.2	12,445	23,342
2028	104,815	10.5	11,006	20,749	11.1	11,634	21,667	12.2	12,787	23,453
2029	107,697	10.5	11,308	20,817	11.1	11,954	21,738	12.2	13,139	23,530
2030	110,659	10.5	11,619	20,852	11.1	12,283	21,774	12.2	13,500	23,569
2031	113,702	10.5	11,939	20,850	11.1	12,621	21,772	12.2	13,872	23,567
2032	116,829	10.5	12,267	20,808	11.1	12,968	21,728	12.2	14,253	23,519

  

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
2023	\$ 91,520	13.5%	\$12,355	\$ 24,387	14.0%	\$12,813	\$ 25,254	15.8%	\$14,460	\$ 27,872
2024	94,037	13.5	12,695	24,621	14.0	13,165	25,496	15.8	14,858	28,139
2025	96,623	13.5	13,044	24,831	14.0	13,527	25,713	15.8	15,266	28,379
2026	99,280	13.5	13,403	25,014	14.0	13,899	25,902	15.8	15,686	28,588
2027	102,010	13.5	13,771	25,167	14.0	14,281	26,060	15.8	16,118	28,763
2028	104,815	13.5	14,150	25,287	14.0	14,674	26,184	15.8	16,561	28,900
2029	107,697	13.5	14,539	25,370	14.0	15,078	26,270	15.8	17,016	28,995
2030	110,659	13.5	14,939	25,412	14.0	15,492	26,314	15.8	17,484	29,043
2031	113,702	13.5	15,350	25,410	14.0	15,918	26,311	15.8	17,965	29,040
2032	116,829	13.5	15,772	25,358	14.0	16,356	26,258	15.8	18,459	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2023	\$ 91,520	4.6%	\$4,210	\$ 13,942	6.9%	\$6,315	\$ 17,424	6.7%	\$6,132	\$ 17,396
2024	94,037	4.6	4,326	14,076	6.9	6,489	17,591	6.7	6,300	17,563
2025	96,623	4.6	4,445	14,196	6.9	6,667	17,741	6.7	6,474	17,713
2026	99,280	4.6	4,567	14,301	6.9	6,850	17,872	6.7	6,652	17,843
2027	102,010	4.6	4,692	14,388	6.9	7,039	17,981	6.7	6,835	17,952
2028	104,815	4.6	4,821	14,456	6.9	7,232	18,066	6.7	7,023	18,037
2029	107,697	4.6	4,954	14,503	6.9	7,431	18,125	6.7	7,216	18,096
2030	110,659	4.6	5,090	14,527	6.9	7,635	18,155	6.7	7,414	18,126
2031	113,702	4.6	5,230	14,526	6.9	7,845	18,153	6.7	7,618	18,124
2032	116,829	4.6	5,374	14,497	6.9	8,061	18,116	6.7	7,828	18,087

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	8.6%	\$7,871	\$ 20,012	9.2%	\$8,420	\$ 20,896	10.3%	\$9,427	\$ 22,618
2024	94,037	8.6	8,087	20,204	9.2	8,651	21,096	10.3	9,686	22,835
2025	96,623	8.6	8,310	20,376	9.2	8,889	21,276	10.3	9,952	23,030
2026	99,280	8.6	8,538	20,526	9.2	9,134	21,433	10.3	10,226	23,200
2027	102,010	8.6	8,773	20,651	9.2	9,385	21,564	10.3	10,507	23,342
2028	104,815	8.6	9,014	20,749	9.2	9,643	21,667	10.3	10,796	23,453
2029	107,697	8.6	9,262	20,817	9.2	9,908	21,738	10.3	11,093	23,530
2030	110,659	8.6	9,517	20,852	9.2	10,181	21,774	10.3	11,398	23,569
2031	113,702	8.6	9,778	20,850	9.2	10,461	21,772	10.3	11,711	23,567
2032	116,829	8.6	10,047	20,808	9.2	10,748	21,728	10.3	12,033	23,519

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	11.6%	\$10,616	\$ 24,387	12.1%	\$11,074	\$ 25,254	13.9%	\$12,721	\$ 27,872
2024	94,037	11.6	10,908	24,621	12.1	11,378	25,496	13.9	13,071	28,139
2025	96,623	11.6	11,208	24,831	12.1	11,691	25,713	13.9	13,431	28,379
2026	99,280	11.6	11,516	25,014	12.1	12,013	25,902	13.9	13,800	28,588
2027	102,010	11.6	11,833	25,167	12.1	12,343	26,060	13.9	14,179	28,763
2028	104,815	11.6	12,159	25,287	12.1	12,683	26,184	13.9	14,569	28,900
2029	107,697	11.6	12,493	25,370	12.1	13,031	26,270	13.9	14,970	28,995
2030	110,659	11.6	12,836	25,412	12.1	13,390	26,314	13.9	15,382	29,043
2031	113,702	11.6	13,189	25,410	12.1	13,758	26,311	13.9	15,805	29,040
2032	116,829	11.6	13,552	25,358	12.1	14,136	26,258	13.9	16,239	28,981

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	10.5%	\$9,610	\$ 14,419	12.9%	\$11,806	\$ 18,017	12.8%	\$11,715	\$ 17,992
2024	94,037	10.5	9,874	14,557	12.9	12,131	18,190	12.8	12,037	18,165
2025	96,623	10.5	10,145	14,681	12.9	12,464	18,345	12.8	12,368	18,320
2026	99,280	10.5	10,424	14,789	12.9	12,807	18,480	12.8	12,708	18,455
2027	102,010	10.5	10,711	14,879	12.9	13,159	18,593	12.8	13,057	18,568
2028	104,815	10.5	11,006	14,950	12.9	13,521	18,681	12.8	13,416	18,656
2029	107,697	10.5	11,308	14,999	12.9	13,893	18,742	12.8	13,785	18,717
2030	110,659	10.5	11,619	15,024	12.9	14,275	18,773	12.8	14,164	18,748
2031	113,702	10.5	11,939	15,023	12.9	14,668	18,771	12.8	14,554	18,746
2032	116,829	10.5	12,267	14,992	12.9	15,071	18,733	12.8	14,954	18,708

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	14.7%	\$13,453	\$ 20,702	15.4%	\$14,094	\$ 21,613	16.5%	\$15,101	\$ 23,406
2024	94,037	14.7	13,823	20,901	15.4	14,482	21,820	16.5	15,516	23,631
2025	96,623	14.7	14,204	21,079	15.4	14,880	22,006	16.5	15,943	23,832
2026	99,280	14.7	14,594	21,234	15.4	15,289	22,168	16.5	16,381	24,008
2027	102,010	14.7	14,995	21,364	15.4	15,710	22,303	16.5	16,832	24,155
2028	104,815	14.7	15,408	21,466	15.4	16,142	22,409	16.5	17,294	24,270
2029	107,697	14.7	15,831	21,536	15.4	16,585	22,482	16.5	17,770	24,350
2030	110,659	14.7	16,267	21,572	15.4	17,041	22,519	16.5	18,259	24,391
2031	113,702	14.7	16,714	21,570	15.4	17,510	22,517	16.5	18,761	24,389
2032	116,829	14.7	17,174	21,526	15.4	17,992	22,471	16.5	19,277	24,339

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 91,520	17.8%	\$16,291	\$ 25,231	18.4%	\$16,840	\$ 26,119	20.2%	\$18,487	\$ 28,819
2024	94,037	17.8	16,739	25,473	18.4	17,303	26,370	20.2	18,995	29,095
2025	96,623	17.8	17,199	25,690	18.4	17,779	26,595	20.2	19,518	29,343
2026	99,280	17.8	17,672	25,879	18.4	18,268	26,791	20.2	20,055	29,559
2027	102,010	17.8	18,158	26,037	18.4	18,770	26,955	20.2	20,606	29,740
2028	104,815	17.8	18,657	26,161	18.4	19,286	27,083	20.2	21,173	29,881
2029	107,697	17.8	19,170	26,247	18.4	19,816	27,172	20.2	21,755	29,979
2030	110,659	17.8	19,697	26,291	18.4	20,361	27,217	20.2	22,353	30,029
2031	113,702	17.8	20,239	26,288	18.4	20,921	27,214	20.2	22,968	30,026
2032	116,829	17.8	20,796	26,235	18.4	21,497	27,159	20.2	23,599	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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 %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2023	\$ 91,520	8.6%	\$7,871	\$ 14,419	11.0%	\$10,067	\$ 18,017	10.9%	\$9,976	\$ 17,992
2024	94,037	8.6	8,087	14,557	11.0	10,344	18,190	10.9	10,250	18,165
2025	96,623	8.6	8,310	14,681	11.0	10,629	18,345	10.9	10,532	18,320
2026	99,280	8.6	8,538	14,789	11.0	10,921	18,480	10.9	10,822	18,455
2027	102,010	8.6	8,773	14,879	11.0	11,221	18,593	10.9	11,119	18,568
2028	104,815	8.6	9,014	14,950	11.0	11,530	18,681	10.9	11,425	18,656
2029	107,697	8.6	9,262	14,999	11.0	11,847	18,742	10.9	11,739	18,717
2030	110,659	8.6	9,517	15,024	11.0	12,172	18,773	10.9	12,062	18,748
2031	113,702	8.6	9,778	15,023	11.0	12,507	18,771	10.9	12,394	18,746
2032	116,829	8.6	10,047	14,992	11.0	12,851	18,733	10.9	12,734	18,708

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	12.8%	\$11,715	\$ 20,702	13.5%	\$12,355	\$ 21,613	14.6%	\$13,362	\$ 23,406
2024	94,037	12.8	12,037	20,901	13.5	12,695	21,820	14.6	13,729	23,631
2025	96,623	12.8	12,368	21,079	13.5	13,044	22,006	14.6	14,107	23,832
2026	99,280	12.8	12,708	21,234	13.5	13,403	22,168	14.6	14,495	24,008
2027	102,010	12.8	13,057	21,364	13.5	13,771	22,303	14.6	14,893	24,155
2028	104,815	12.8	13,416	21,466	13.5	14,150	22,409	14.6	15,303	24,270
2029	107,697	12.8	13,785	21,536	13.5	14,539	22,482	14.6	15,724	24,350
2030	110,659	12.8	14,164	21,572	13.5	14,939	22,519	14.6	16,156	24,391
2031	113,702	12.8	14,554	21,570	13.5	15,350	22,517	14.6	16,600	24,389
2032	116,829	12.8	14,954	21,526	13.5	15,772	22,471	14.6	17,057	24,339

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	15.9%	\$14,552	\$ 25,231	16.5%	\$15,101	\$ 26,119	18.3%	\$16,748	\$ 28,819
2024	94,037	15.9	14,952	25,473	16.5	15,516	26,370	18.3	17,209	29,095
2025	96,623	15.9	15,363	25,690	16.5	15,943	26,595	18.3	17,682	29,343
2026	99,280	15.9	15,786	25,879	16.5	16,381	26,791	18.3	18,168	29,559
2027	102,010	15.9	16,220	26,037	16.5	16,832	26,955	18.3	18,668	29,740
2028	104,815	15.9	16,666	26,161	16.5	17,294	27,083	18.3	19,181	29,881
2029	107,697	15.9	17,124	26,247	16.5	17,770	27,172	18.3	19,709	29,979
2030	110,659	15.9	17,595	26,291	16.5	18,259	27,217	18.3	20,251	30,029
2031	113,702	15.9	18,079	26,288	16.5	18,761	27,214	18.3	20,807	30,026
2032	116,829	15.9	18,576	26,235	16.5	19,277	27,159	18.3	21,380	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.





# City of Archie - 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 %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2023	\$ 91,520	6.7%	\$6,132	\$ 14,419	9.1%	\$8,328	\$ 18,017	9.0%	\$8,237	\$ 17,992
2024	94,037	6.7	6,300	14,557	9.1	8,557	18,190	9.0	8,463	18,165
2025	96,623	6.7	6,474	14,681	9.1	8,793	18,345	9.0	8,696	18,320
2026	99,280	6.7	6,652	14,789	9.1	9,034	18,480	9.0	8,935	18,455
2027	102,010	6.7	6,835	14,879	9.1	9,283	18,593	9.0	9,181	18,568
2028	104,815	6.7	7,023	14,950	9.1	9,538	18,681	9.0	9,433	18,656
2029	107,697	6.7	7,216	14,999	9.1	9,800	18,742	9.0	9,693	18,717
2030	110,659	6.7	7,414	15,024	9.1	10,070	18,773	9.0	9,959	18,748
2031	113,702	6.7	7,618	15,023	9.1	10,347	18,771	9.0	10,233	18,746
2032	116,829	6.7	7,828	14,992	9.1	10,631	18,733	9.0	10,515	18,708

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	10.9%	\$9,976	\$ 20,702	11.6%	\$10,616	\$ 21,613	12.7%	\$11,623	\$ 23,406
2024	94,037	10.9	10,250	20,901	11.6	10,908	21,820	12.7	11,943	23,631
2025	96,623	10.9	10,532	21,079	11.6	11,208	22,006	12.7	12,271	23,832
2026	99,280	10.9	10,822	21,234	11.6	11,516	22,168	12.7	12,609	24,008
2027	102,010	10.9	11,119	21,364	11.6	11,833	22,303	12.7	12,955	24,155
2028	104,815	10.9	11,425	21,466	11.6	12,159	22,409	12.7	13,312	24,270
2029	107,697	10.9	11,739	21,536	11.6	12,493	22,482	12.7	13,678	24,350
2030	110,659	10.9	12,062	21,572	11.6	12,836	22,519	12.7	14,054	24,391
2031	113,702	10.9	12,394	21,570	11.6	13,189	22,517	12.7	14,440	24,389
2032	116,829	10.9	12,734	21,526	11.6	13,552	22,471	12.7	14,837	24,339

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2023	\$ 91,520	14.0%	\$12,813	\$ 25,231	14.6%	\$13,362	\$ 26,119	16.4%	\$15,009	\$ 28,819
2024	94,037	14.0	13,165	25,473	14.6	13,729	26,370	16.4	15,422	29,095
2025	96,623	14.0	13,527	25,690	14.6	14,107	26,595	16.4	15,846	29,343
2026	99,280	14.0	13,899	25,879	14.6	14,495	26,791	16.4	16,282	29,559
2027	102,010	14.0	14,281	26,037	14.6	14,893	26,955	16.4	16,730	29,740
2028	104,815	14.0	14,674	26,161	14.6	15,303	27,083	16.4	17,190	29,881
2029	107,697	14.0	15,078	26,247	14.6	15,724	27,172	16.4	17,662	29,979
2030	110,659	14.0	15,492	26,291	14.6	16,156	27,217	16.4	18,148	30,029
2031	113,702	14.0	15,918	26,288	14.6	16,600	27,214	16.4	18,647	30,026
2032	116,829	14.0	16,356	26,235	14.6	17,057	27,159	16.4	19,160	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.



# City of Archie - 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
2023	\$ 91,520	4.8%	\$4,393	\$ 14,419	7.2%	\$6,589	\$ 18,017	7.1%	\$6,498	\$ 17,992
2024	94,037	4.8	4,514	14,557	7.2	6,771	18,190	7.1	6,677	18,165
2025	96,623	4.8	4,638	14,681	7.2	6,957	18,345	7.1	6,860	18,320
2026	99,280	4.8	4,765	14,789	7.2	7,148	18,480	7.1	7,049	18,455
2027	102,010	4.8	4,896	14,879	7.2	7,345	18,593	7.1	7,243	18,568
2028	104,815	4.8	5,031	14,950	7.2	7,547	18,681	7.1	7,442	18,656
2029	107,697	4.8	5,169	14,999	7.2	7,754	18,742	7.1	7,646	18,717
2030	110,659	4.8	5,312	15,024	7.2	7,967	18,773	7.1	7,857	18,748
2031	113,702	4.8	5,458	15,023	7.2	8,187	18,771	7.1	8,073	18,746
2032	116,829	4.8	5,608	14,992	7.2	8,412	18,733	7.1	8,295	18,708

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
2023	\$ 91,520	9.0%	\$8,237	\$ 20,702	9.7%	\$8,877	\$ 21,613	10.8%	\$9,884	\$ 23,406
2024	94,037	9.0	8,463	20,901	9.7	9,122	21,820	10.8	10,156	23,631
2025	96,623	9.0	8,696	21,079	9.7	9,372	22,006	10.8	10,435	23,832
2026	99,280	9.0	8,935	21,234	9.7	9,630	22,168	10.8	10,722	24,008
2027	102,010	9.0	9,181	21,364	9.7	9,895	22,303	10.8	11,017	24,155
2028	104,815	9.0	9,433	21,466	9.7	10,167	22,409	10.8	11,320	24,270
2029	107,697	9.0	9,693	21,536	9.7	10,447	22,482	10.8	11,631	24,350
2030	110,659	9.0	9,959	21,572	9.7	10,734	22,519	10.8	11,951	24,391
2031	113,702	9.0	10,233	21,570	9.7	11,029	22,517	10.8	12,280	24,389
2032	116,829	9.0	10,515	21,526	9.7	11,332	22,471	10.8	12,618	24,339

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
2023	\$ 91,520	12.1%	\$11,074	\$ 25,231	12.7%	\$11,623	\$ 26,119	14.5%	\$13,270	\$ 28,819
2024	94,037	12.1	11,378	25,473	12.7	11,943	26,370	14.5	13,635	29,095
2025	96,623	12.1	11,691	25,690	12.7	12,271	26,595	14.5	14,010	29,343
2026	99,280	12.1	12,013	25,879	12.7	12,609	26,791	14.5	14,396	29,559
2027	102,010	12.1	12,343	26,037	12.7	12,955	26,955	14.5	14,791	29,740
2028	104,815	12.1	12,683	26,161	12.7	13,312	27,083	14.5	15,198	29,881
2029	107,697	12.1	13,031	26,247	12.7	13,678	27,172	14.5	15,616	29,979
2030	110,659	12.1	13,390	26,291	12.7	14,054	27,217	14.5	16,046	30,029
2031	113,702	12.1	13,758	26,288	12.7	14,440	27,214	14.5	16,487	30,026
2032	116,829	12.1	14,136	26,235	12.7	14,837	27,159	14.5	16,940	29,965

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> have not been incorporated in the above results.
- 5) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

