



The Initial Valuation For
City of Rich Hill
as of November 30, 2021



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December 21, 2021

City of Rich Hill
Rich Hill, 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, 2021.

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 November 30, 2021. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

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


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

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA



Alternate Plan Provisions Affecting Employer Contribution Rates

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

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

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

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

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

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

City of Rich Hill

Employer Contribution Rates 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.70%	0.20%	1.80%	8.70%	6.80%	4.90%	3.00%
	Police	7.60	0.40	0.00	8.00	6.10	4.20	2.30
L-3	General	8.20	0.30	2.30	10.80	8.90	7.00	5.10
	Police	9.30	0.50	0.00	9.80	7.90	6.00	4.10
LT-4(65)	General	7.40	0.20	2.00	9.60	7.70	5.80	3.90
	Police	7.60	0.40	0.00	8.00	6.10	4.20	2.30
LT-5(65)	General	8.70	0.30	2.40	11.40	9.50	7.60	5.70
	Police	9.30	0.50	0.00	9.80	7.90	6.00	4.10
L-7	General	9.60	0.30	2.70	12.60	10.70	8.80	6.90
	Police	11.00	0.60	0.00	11.60	9.70	7.80	5.90
LT-8(65)	General	10.00	0.30	2.80	13.10	11.20	9.30	7.40
	Police	11.00	0.60	0.00	11.60	9.70	7.80	5.90
L-12	General	11.10	0.40	3.20	14.70	12.80	10.90	9.00
	Police	12.70	0.70	0.00	13.40	11.50	9.60	7.70
LT-14(65)	General	11.30	0.40	3.20	14.90	13.00	11.10	9.20
	Police	12.70	0.70	0.00	13.40	11.50	9.60	7.70
L-6	General	12.60	0.50	3.60	16.70	14.80	12.90	11.00
	Police	14.30	0.80	0.00	15.10	13.20	11.30	9.40

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost 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 Rich Hill

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	6.90%	0.20%	1.90%	9.00%	7.10%	5.20%	3.30%
	Police	7.80	0.40	0.00	8.20	6.30	4.40	2.50
L-3	General	8.40	0.30	2.30	11.00	9.10	7.20	5.30
	Police	9.50	0.50	0.00	10.00	8.10	6.20	4.30
LT-4(65)	General	7.60	0.20	2.10	9.90	8.00	6.10	4.20
	Police	7.80	0.40	0.00	8.20	6.30	4.40	2.50
LT-5(65)	General	8.90	0.30	2.50	11.70	9.80	7.90	6.00
	Police	9.50	0.50	0.00	10.00	8.10	6.20	4.30
L-7	General	10.00	0.30	2.80	13.10	11.20	9.30	7.40
	Police	11.20	0.60	0.00	11.80	9.90	8.00	6.10
LT-8(65)	General	10.30	0.30	2.90	13.50	11.60	9.70	7.80
	Police	11.20	0.60	0.00	11.80	9.90	8.00	6.10
L-12	General	11.50	0.40	3.30	15.20	13.30	11.40	9.50
	Police	12.90	0.70	0.00	13.60	11.70	9.80	7.90
LT-14(65)	General	11.60	0.40	3.30	15.30	13.40	11.50	9.60
	Police	12.90	0.70	0.00	13.60	11.70	9.80	7.90
L-6	General	13.00	0.50	3.70	17.20	15.30	13.40	11.50
	Police	14.60	0.80	0.00	15.40	13.50	11.60	9.70

* Assumes that credit is granted for 100% of service rendered prior to the membership date for employees working in a covered position on the membership date and employed continuously in a covered position for one year with this employer. If the governing body wishes to elect one of the lesser percents allowed by law -- 75%, 50%, or 25% -- the prior service cost 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 Rich Hill

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	7.00%	0.20%	1.90%	9.10%	7.20%	5.30%	3.40%
	Police	7.60	0.40	0.00	8.00	6.10	4.20	2.30
L-3	General	8.60	0.30	2.40	11.30	9.40	7.50	5.60
	Police	9.30	0.50	0.00	9.80	7.90	6.00	4.10
LT-4(65)	General	8.10	0.20	2.30	10.60	8.70	6.80	4.90
	Police	7.60	0.40	0.00	8.00	6.10	4.20	2.30
LT-5(65)	General	9.40	0.30	2.60	12.30	10.40	8.50	6.60
	Police	9.30	0.50	0.00	9.80	7.90	6.00	4.10
L-7	General	10.10	0.30	2.90	13.30	11.40	9.50	7.60
	Police	11.00	0.60	0.00	11.60	9.70	7.80	5.90
LT-8(65)	General	10.60	0.30	3.00	13.90	12.00	10.10	8.20
	Police	11.00	0.60	0.00	11.60	9.70	7.80	5.90
L-12	General	11.60	0.40	3.40	15.40	13.50	11.60	9.70
	Police	12.70	0.70	0.00	13.40	11.50	9.60	7.70
LT-14(65)	General	11.90	0.40	3.40	15.70	13.80	11.90	10.00
	Police	12.70	0.70	0.00	13.40	11.50	9.60	7.70
L-6	General	13.20	0.50	3.80	17.50	15.60	13.70	11.80
	Police	14.30	0.80	0.00	15.10	13.20	11.30	9.40

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 Rich Hill

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.30%	0.20%	2.00%	9.50%	7.60%	5.70%	3.80%
	Police	7.80	0.40	0.00	8.20	6.30	4.40	2.50
L-3	General	8.80	0.30	2.50	11.60	9.70	7.80	5.90
	Police	9.50	0.50	0.00	10.00	8.10	6.20	4.30
LT-4(65)	General	8.30	0.20	2.30	10.80	8.90	7.00	5.10
	Police	7.80	0.40	0.00	8.20	6.30	4.40	2.50
LT-5(65)	General	9.70	0.30	2.70	12.70	10.80	8.90	7.00
	Police	9.50	0.50	0.00	10.00	8.10	6.20	4.30
L-7	General	10.40	0.30	3.00	13.70	11.80	9.90	8.00
	Police	11.20	0.60	0.00	11.80	9.90	8.00	6.10
LT-8(65)	General	11.00	0.30	3.10	14.40	12.50	10.60	8.70
	Police	11.20	0.60	0.00	11.80	9.90	8.00	6.10
L-12	General	12.00	0.40	3.50	15.90	14.00	12.10	10.20
	Police	12.90	0.70	0.00	13.60	11.70	9.80	7.90
LT-14(65)	General	12.30	0.40	3.60	16.30	14.40	12.50	10.60
	Police	12.90	0.70	0.00	13.60	11.70	9.80	7.90
L-6	General	13.60	0.50	4.00	18.10	16.20	14.30	12.40
	Police	14.60	0.80	0.00	15.40	13.50	11.60	9.70

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 Rich Hill

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	\$ 6,378	\$ 4,985	\$ 3,592	\$ 2,199
L-3	7,917	6,524	5,131	3,739
LT-4(65)	7,037	5,644	4,252	2,859
LT-5(65)	8,357	6,964	5,571	4,178
L-7	9,236	7,844	6,451	5,058
LT-8(65)	9,603	8,210	6,817	5,425
L-12	10,776	9,383	7,990	6,597
LT-14(65)	10,922	9,530	8,137	6,744
L-6	12,242	10,849	9,456	8,064

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 6,597	\$ 5,205	\$ 3,812	\$ 2,419
L-3	8,064	6,671	5,278	3,885
LT-4(65)	7,257	5,864	4,472	3,079
LT-5(65)	8,577	7,184	5,791	4,398
L-7	9,603	8,210	6,817	5,425
LT-8(65)	9,896	8,503	7,111	5,718
L-12	11,142	9,750	8,357	6,964
LT-14(65)	11,216	9,823	8,430	7,037
L-6	12,608	11,216	9,823	8,430

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 6,671	\$ 5,278	\$ 3,885	\$ 2,492
L-3	8,283	6,891	5,498	4,105
LT-4(65)	7,770	6,378	4,985	3,592
LT-5(65)	9,017	7,624	6,231	4,838
L-7	9,750	8,357	6,964	5,571
LT-8(65)	10,189	8,797	7,404	6,011
L-12	11,289	9,896	8,503	7,111
LT-14(65)	11,509	10,116	8,723	7,331
L-6	12,828	11,436	10,043	8,650

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 6,964	\$ 5,571	\$ 4,178	\$ 2,786
L-3	8,503	7,111	5,718	4,325
LT-4(65)	7,917	6,524	5,131	3,739
LT-5(65)	9,310	7,917	6,524	5,131
L-7	10,043	8,650	7,257	5,864
LT-8(65)	10,556	9,163	7,770	6,378
L-12	11,655	10,263	8,870	7,477
LT-14(65)	11,949	10,556	9,163	7,770
L-6	13,268	11,875	10,483	9,090

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 Rich Hill

Employer Contribution Dollars Police

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

Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 3,410	\$ 2,600	\$ 1,790	\$ 980
L-3	4,177	3,367	2,558	1,748
LT-4(65)	3,410	2,600	1,790	980
LT-5(65)	4,177	3,367	2,558	1,748
L-7	4,945	4,135	3,325	2,515
LT-8(65)	4,945	4,135	3,325	2,515
L-12	5,712	4,902	4,092	3,282
LT-14(65)	5,712	4,902	4,092	3,282
L-6	6,436	5,627	4,817	4,007

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 3,495	\$ 2,685	\$ 1,876	\$ 1,066
L-3	4,263	3,453	2,643	1,833
LT-4(65)	3,495	2,685	1,876	1,066
LT-5(65)	4,263	3,453	2,643	1,833
L-7	5,030	4,220	3,410	2,600
LT-8(65)	5,030	4,220	3,410	2,600
L-12	5,797	4,987	4,177	3,367
LT-14(65)	5,797	4,987	4,177	3,367
L-6	6,564	5,754	4,945	4,135

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 3,410	\$ 2,600	\$ 1,790	\$ 980
L-3	4,177	3,367	2,558	1,748
LT-4(65)	3,410	2,600	1,790	980
LT-5(65)	4,177	3,367	2,558	1,748
L-7	4,945	4,135	3,325	2,515
LT-8(65)	4,945	4,135	3,325	2,515
L-12	5,712	4,902	4,092	3,282
LT-14(65)	5,712	4,902	4,092	3,282
L-6	6,436	5,627	4,817	4,007

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 3,495	\$ 2,685	\$ 1,876	\$ 1,066
L-3	4,263	3,453	2,643	1,833
LT-4(65)	3,495	2,685	1,876	1,066
LT-5(65)	4,263	3,453	2,643	1,833
L-7	5,030	4,220	3,410	2,600
LT-8(65)	5,030	4,220	3,410	2,600
L-12	5,797	4,987	4,177	3,367
LT-14(65)	5,797	4,987	4,177	3,367
L-6	6,564	5,754	4,945	4,135

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 Rich Hill

Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	2	1
Annual Payroll	\$ 73,305	\$ 42,625

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

APPENDIX I

UNFUNDED ACTUARIAL ACCRUED LIABILITY

Unfunded Actuarial Accrued Liability (UAAL)

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

The policy of the LAGERS Board of Trustees provides that unfunded liabilities are to be paid for by level percent of payroll contributions over a period of 30 years. The contribution rates shown on pages 4 through 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 Rich Hill

Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 22,713	\$ 23,504
	Police	-	-
L-3	General	28,390	29,388
	Police	1	-
LT-4(65)	General	25,178	26,052
	Police	-	-
LT-5(65)	General	30,243	31,294
	Police	1	-
L-7	General	34,066	35,248
	Police	-	1
LT-8(65)	General	35,309	36,536
	Police	-	1
L-12	General	39,748	41,150
	Police	1	-
LT-14(65)	General	40,348	41,771
	Police	1	-
L-6	General	45,422	47,020
	Police	-	-

City of Rich Hill

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	\$ 24,032	\$ 24,888
	Police	-	-
L-3	General	30,036	31,121
	Police	1	-
LT-4(65)	General	28,274	29,273
	Police	-	-
LT-5(65)	General	33,215	34,396
	Police	1	-
L-7	General	36,065	37,335
	Police	-	1
LT-8(65)	General	38,170	39,537
	Police	-	1
L-12	General	42,067	43,561
	Police	1	-
LT-14(65)	General	43,120	44,658
	Police	1	-
L-6	General	48,095	49,765
	Police	-	-

APPENDIX II

SUMMARY OF FINANCIAL ASSUMPTIONS

Summary of Assumptions Used in Actuarial Valuations

Assumptions Adopted by Board of Trustees After Consulting With Actuary

1. The investment return rate used in making the valuations was 7.00% 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

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, 2021

(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

BENEFIT ILLUSTRATIONS

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary

(L-1 Benefit Program is Years of Credited Service
times: 1.00% of FAS ¹)

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) ¹	BENEFIT ³	Security ²	\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 916	\$1,441	96%
2,000	700	1,055	1,755	88%
2,500	875	1,192	2,067	83%
3,000	1,050	1,330	2,380	79%
3,500	1,225	1,469	2,694	77%
4,000	1,400	1,605	3,005	75%
25 Years of Service:				
\$1,500	\$ 375	\$ 916	\$1,291	86%
2,000	500	1,055	1,555	78%
2,500	625	1,192	1,817	73%
3,000	750	1,330	2,080	69%
3,500	875	1,469	2,344	67%
4,000	1,000	1,605	2,605	65%
15 Years of Service:				
\$1,500	\$225	\$ 916	\$1,141	76%
2,000	300	1,055	1,355	68%
2,500	375	1,192	1,567	63%
3,000	450	1,330	1,780	59%
3,500	525	1,469	1,994	57%
4,000	600	1,605	2,205	55%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

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

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) ¹	BENEFIT ³	Security ²	\$	% of FAS

35 Years of Service:

\$1,500	\$ 656	\$ 916	\$1,572	105%
2,000	875	1,055	1,930	97%
2,500	1,094	1,192	2,286	91%
3,000	1,313	1,330	2,643	88%
3,500	1,531	1,469	3,000	86%
4,000	1,750	1,605	3,355	84%

25 Years of Service:

\$1,500	\$ 469	\$ 916	\$1,385	92%
2,000	625	1,055	1,680	84%
2,500	781	1,192	1,973	79%
3,000	938	1,330	2,268	76%
3,500	1,094	1,469	2,563	73%
4,000	1,250	1,605	2,855	71%

15 Years of Service:

\$1,500	\$281	\$ 916	\$1,197	80%
2,000	375	1,055	1,430	72%
2,500	469	1,192	1,661	66%
3,000	563	1,330	1,893	63%
3,500	656	1,469	2,125	61%
4,000	750	1,605	2,355	59%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

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

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) ¹	BENEFIT ³	Security ²	\$	% of FAS

35 Years of Service:

\$1,500	\$ 788	\$ 916	\$1,704	114%
2,000	1,050	1,055	2,105	105%
2,500	1,313	1,192	2,505	100%
3,000	1,575	1,330	2,905	97%
3,500	1,838	1,469	3,307	94%
4,000	2,100	1,605	3,705	93%

25 Years of Service:

\$1,500	\$ 563	\$ 916	\$1,479	99%
2,000	750	1,055	1,805	90%
2,500	938	1,192	2,130	85%
3,000	1,125	1,330	2,455	82%
3,500	1,313	1,469	2,782	79%
4,000	1,500	1,605	3,105	78%

15 Years of Service:

\$1,500	\$338	\$ 916	\$1,254	84%
2,000	450	1,055	1,505	75%
2,500	563	1,192	1,755	70%
3,000	675	1,330	2,005	67%
3,500	788	1,469	2,257	64%
4,000	900	1,605	2,505	63%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

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

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) ¹	BENEFIT ³	Security ²	\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 916	\$1,835	122%
2,000	1,225	1,055	2,280	114%
2,500	1,531	1,192	2,723	109%
3,000	1,838	1,330	3,168	106%
3,500	2,144	1,469	3,613	103%
4,000	2,450	1,605	4,055	101%
25 Years of Service:				
\$1,500	\$ 656	\$ 916	\$1,572	105%
2,000	875	1,055	1,930	97%
2,500	1,094	1,192	2,286	91%
3,000	1,313	1,330	2,643	88%
3,500	1,531	1,469	3,000	86%
4,000	1,750	1,605	3,355	84%
15 Years of Service:				
\$1,500	\$ 394	\$ 916	\$1,310	87%
2,000	525	1,055	1,580	79%
2,500	656	1,192	1,848	74%
3,000	788	1,330	2,118	71%
3,500	919	1,469	2,388	68%
4,000	1,050	1,605	2,655	66%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

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

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) ¹	BENEFIT ³	Security ²	\$	% of FAS

35 Years of Service:

\$1,500	\$1,050	\$ 916	\$1,966	131%
2,000	1,400	1,055	2,455	123%
2,500	1,750	1,192	2,942	118%
3,000	2,100	1,330	3,430	114%
3,500	2,450	1,469	3,919	112%
4,000	2,800	1,605	4,405	110%

25 Years of Service:

\$1,500	\$ 750	\$ 916	\$1,666	111%
2,000	1,000	1,055	2,055	103%
2,500	1,250	1,192	2,442	98%
3,000	1,500	1,330	2,830	94%
3,500	1,750	1,469	3,219	92%
4,000	2,000	1,605	3,605	90%

15 Years of Service:

\$1,500	\$ 450	\$ 916	\$1,366	91%
2,000	600	1,055	1,655	83%
2,500	750	1,192	1,942	78%
3,000	900	1,330	2,230	74%
3,500	1,050	1,469	2,519	72%
4,000	1,200	1,605	2,805	70%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts

For Sample Combinations of Service & Salary

(LT-4(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.00% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	\$ 916	\$1,050	\$1,441	70%	96%
2,000	1,400	700	1,055	1,400	1,755	70%	88%
2,500	1,750	875	1,192	1,750	2,067	70%	83%
3,000	2,100	1,050	1,330	2,100	2,380	70%	79%
3,500	2,450	1,225	1,469	2,450	2,694	70%	77%
4,000	2,800	1,400	1,605	2,800	3,005	70%	75%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 916	\$ 750	\$1,291	50%	86%
2,000	1,000	500	1,055	1,000	1,555	50%	78%
2,500	1,250	625	1,192	1,250	1,817	50%	73%
3,000	1,500	750	1,330	1,500	2,080	50%	69%
3,500	1,750	875	1,469	1,750	2,344	50%	67%
4,000	2,000	1,000	1,605	2,000	2,605	50%	65%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 916	\$ 450	\$1,141	30%	76%
2,000	600	300	1,055	600	1,355	30%	68%
2,500	750	375	1,192	750	1,567	30%	63%
3,000	900	450	1,330	900	1,780	30%	59%
3,500	1,050	525	1,469	1,050	1,994	30%	57%
4,000	1,200	600	1,605	1,200	2,205	30%	55%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts

For Sample Combinations of Service & Salary

(LT-5(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.25% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS		Estimated Social Security ²	Estimated		Percent	
	BENEFIT ³			Monthly Total		of FAS	
	To 65	At 65		To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 656	\$ 916	\$1,050	\$1,572	70%	105%
2,000	1,400	875	1,055	1,400	1,930	70%	97%
2,500	1,750	1,094	1,192	1,750	2,286	70%	91%
3,000	2,100	1,313	1,330	2,100	2,643	70%	88%
3,500	2,450	1,531	1,469	2,450	3,000	70%	86%
4,000	2,800	1,750	1,605	2,800	3,355	70%	84%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 916	\$ 750	\$1,385	50%	92%
2,000	1,000	625	1,055	1,000	1,680	50%	84%
2,500	1,250	781	1,192	1,250	1,973	50%	79%
3,000	1,500	938	1,330	1,500	2,268	50%	76%
3,500	1,750	1,094	1,469	1,750	2,563	50%	73%
4,000	2,000	1,250	1,605	2,000	2,855	50%	71%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 916	\$ 450	\$1,197	30%	80%
2,000	600	375	1,055	600	1,430	30%	72%
2,500	750	469	1,192	750	1,661	30%	66%
3,000	900	563	1,330	900	1,893	30%	63%
3,500	1,050	656	1,469	1,050	2,125	30%	61%
4,000	1,200	750	1,605	1,200	2,355	30%	59%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	\$ 916	\$1,050	\$1,704	70%	114%
2,000	1,400	1,050	1,055	1,400	2,105	70%	105%
2,500	1,750	1,313	1,192	1,750	2,505	70%	100%
3,000	2,100	1,575	1,330	2,100	2,905	70%	97%
3,500	2,450	1,838	1,469	2,450	3,307	70%	94%
4,000	2,800	2,100	1,605	2,800	3,705	70%	93%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 916	\$ 750	\$1,479	50%	99%
2,000	1,000	750	1,055	1,000	1,805	50%	90%
2,500	1,250	938	1,192	1,250	2,130	50%	85%
3,000	1,500	1,125	1,330	1,500	2,455	50%	82%
3,500	1,750	1,313	1,469	1,750	2,782	50%	79%
4,000	2,000	1,500	1,605	2,000	3,105	50%	78%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 916	\$ 450	\$1,254	30%	84%
2,000	600	450	1,055	600	1,505	30%	75%
2,500	750	563	1,192	750	1,755	30%	70%
3,000	900	675	1,330	900	2,005	30%	67%
3,500	1,050	788	1,469	1,050	2,257	30%	64%
4,000	1,200	900	1,605	1,200	2,505	30%	63%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts

For Sample Combinations of Service & Salary

(LT-14(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.75% of FAS ¹ at age 65)

Final Average Salary (FAS) ¹	LAGERS BENEFIT ³		Estimated Social Security ²	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	\$ 916	\$1,050	\$1,835	70%	122%
2,000	1,400	1,225	1,055	1,400	2,280	70%	114%
2,500	1,750	1,531	1,192	1,750	2,723	70%	109%
3,000	2,100	1,838	1,330	2,100	3,168	70%	106%
3,500	2,450	2,144	1,469	2,450	3,613	70%	103%
4,000	2,800	2,450	1,605	2,800	4,055	70%	101%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 916	\$ 750	\$1,572	50%	105%
2,000	1,000	875	1,055	1,000	1,930	50%	97%
2,500	1,250	1,094	1,192	1,250	2,286	50%	91%
3,000	1,500	1,313	1,330	1,500	2,643	50%	88%
3,500	1,750	1,531	1,469	1,750	3,000	50%	86%
4,000	2,000	1,750	1,605	2,000	3,355	50%	84%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 916	\$ 450	\$1,310	30%	87%
2,000	600	525	1,055	600	1,580	30%	79%
2,500	750	656	1,192	750	1,848	30%	74%
3,000	900	788	1,330	900	2,118	30%	71%
3,500	1,050	919	1,469	1,050	2,388	30%	68%
4,000	1,200	1,050	1,605	1,200	2,655	30%	66%

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

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit and is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

APPENDIX V

AGE AND SERVICE CHARACTERISTICS OF EMPLOYEES

City of Rich Hill - General

November 30, 2021

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39	1							1	\$ 30,790
40-44	1							1	\$ 42,515
45-49									
50-54									
55-59									
60-64									
65-69									
70 & Over									
Totals	2							2	\$ 73,305

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

Age: 38.5 years.

Benefit Service: 3.5 years.

Annual Pay: \$36,653.

City of Rich Hill - Police

November 30, 2021

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39									
40-44									
45-49									
50-54									
55-59									
60-64									
65-69	1							1	\$ 42,625
70 & Over									
Totals	1							1	\$ 42,625

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

Age: 65.9 years.

Benefit Service: 0.2 years.

Annual Pay: \$42,625.

APPENDIX VI

RISK COMMENTARY

Risk Commentary

The determination of the accrued liability and the actuarially determined contribution (i.e., total employer contribution rate) requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

1. **Investment Risk** – actual investment returns may differ from the expected returns;
2. **Asset/Liability Mismatch Risk** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
3. **Contribution Risk** – actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll, or other relevant contribution base;
4. **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability, contributions and contribution rates differing from expected;
5. **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
6. **Other Demographic Risks** – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rates shown on pages 4 thru 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.



December 21, 2021 E-mail

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

Dear Bob:

Enclosed is the report of the November 30, 2021 Initial Actuarial Valuation of LAGERS benefits for the employees of

City of Rich Hill

Sincerely,

A handwritten signature in black ink, reading "Mita Drazilov". The signature is fluid and cursive, with the first name "Mita" and last name "Drazilov" clearly distinguishable.

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp



December 21, 2021

City of Rich Hill
Rich Hill, 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 November 30, 2021 Initial Valuation for the City of Rich Hill dated December 21, 2021.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix II of the Initial Valuation Report. In our opinion, they do produce results which, in the aggregate, are reasonable. Additional miscellaneous and technical assumptions as well as disclosures required by the actuarial standards of practice may be found in the LAGERS Compiled Annual Actuarial Valuation report as of February 28, 2021. The unfunded actuarial accrued liability shown for each member contribution rate option is based on the 0% member contribution rate plan.

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

Respectfully submitted,

A handwritten signature in black ink that reads "Mita Drazilov". The signature is fluid and cursive, with the first name "Mita" and last name "Drazilov" clearly distinguishable.

Mita D. Drazilov, ASA, FCA, MAAA

City of Rich Hill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	8.7%	\$6,378	\$ 22,713	10.8%	\$7,917	\$ 28,390	9.6%	\$7,037	\$ 25,178
2022	75,321	8.7	6,553	22,931	10.8	8,135	28,662	9.6	7,231	25,420
2023	77,392	8.7	6,733	23,126	10.8	8,358	28,906	9.6	7,430	25,637
2024	79,520	8.7	6,918	23,296	10.8	8,588	29,119	9.6	7,634	25,826
2025	81,707	8.7	7,109	23,438	10.8	8,824	29,297	9.6	7,844	25,984
2026	83,954	8.7	7,304	23,549	10.8	9,067	29,436	9.6	8,060	26,108
2027	86,263	8.7	7,505	23,626	10.8	9,316	29,532	9.6	8,281	26,194
2028	88,635	8.7	7,711	23,665	10.8	9,573	29,581	9.6	8,509	26,238
2029	91,072	8.7	7,923	23,663	10.8	9,836	29,578	9.6	8,743	26,235
2030	93,576	8.7	8,141	23,615	10.8	10,106	29,518	9.6	8,983	26,182

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	11.4%	\$8,357	\$ 30,243	12.6%	\$9,236	\$ 34,066	13.1%	\$9,603	\$ 35,309
2022	75,321	11.4	8,587	30,533	12.6	9,490	34,393	13.1	9,867	35,648
2023	77,392	11.4	8,823	30,793	12.6	9,751	34,686	13.1	10,138	35,952
2024	79,520	11.4	9,065	31,020	12.6	10,020	34,941	13.1	10,417	36,217
2025	81,707	11.4	9,315	31,210	12.6	10,295	35,155	13.1	10,704	36,438
2026	83,954	11.4	9,571	31,358	12.6	10,578	35,322	13.1	10,998	36,611
2027	86,263	11.4	9,834	31,461	12.6	10,869	35,438	13.1	11,300	36,731
2028	88,635	11.4	10,104	31,513	12.6	11,168	35,497	13.1	11,611	36,792
2029	91,072	11.4	10,382	31,510	12.6	11,475	35,494	13.1	11,930	36,788
2030	93,576	11.4	10,668	31,446	12.6	11,791	35,422	13.1	12,258	36,713

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	14.7%	\$10,776	\$ 39,748	14.9%	\$10,922	\$ 40,348	16.7%	\$12,242	\$ 45,422
2022	75,321	14.7	11,072	40,129	14.9	11,223	40,735	16.7	12,579	45,858
2023	77,392	14.7	11,377	40,471	14.9	11,531	41,082	16.7	12,924	46,249
2024	79,520	14.7	11,689	40,769	14.9	11,848	41,385	16.7	13,280	46,590
2025	81,707	14.7	12,011	41,018	14.9	12,174	41,638	16.7	13,645	46,875
2026	83,954	14.7	12,341	41,213	14.9	12,509	41,836	16.7	14,020	47,098
2027	86,263	14.7	12,681	41,348	14.9	12,853	41,973	16.7	14,406	47,252
2028	88,635	14.7	13,029	41,417	14.9	13,207	42,043	16.7	14,802	47,331
2029	91,072	14.7	13,388	41,413	14.9	13,570	42,039	16.7	15,209	47,326
2030	93,576	14.7	13,756	41,329	14.9	13,943	41,954	16.7	15,627	47,230

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

City of Rich Hill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2021	\$ 73,305	6.8%	\$4,985	\$ 22,713	8.9%	\$6,524	\$ 28,390	7.7%	\$5,644	\$ 25,178
2022	75,321	6.8	5,122	22,931	8.9	6,704	28,662	7.7	5,800	25,420
2023	77,392	6.8	5,263	23,126	8.9	6,888	28,906	7.7	5,959	25,637
2024	79,520	6.8	5,407	23,296	8.9	7,077	29,119	7.7	6,123	25,826
2025	81,707	6.8	5,556	23,438	8.9	7,272	29,297	7.7	6,291	25,984
2026	83,954	6.8	5,709	23,549	8.9	7,472	29,436	7.7	6,464	26,108
2027	86,263	6.8	5,866	23,626	8.9	7,677	29,532	7.7	6,642	26,194
2028	88,635	6.8	6,027	23,665	8.9	7,889	29,581	7.7	6,825	26,238
2029	91,072	6.8	6,193	23,663	8.9	8,105	29,578	7.7	7,013	26,235
2030	93,576	6.8	6,363	23,615	8.9	8,328	29,518	7.7	7,205	26,182

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 73,305	9.5%	\$6,964	\$ 30,243	10.7%	\$7,844	\$ 34,066	11.2%	\$8,210	\$ 35,309
2022	75,321	9.5	7,155	30,533	10.7	8,059	34,393	11.2	8,436	35,648
2023	77,392	9.5	7,352	30,793	10.7	8,281	34,686	11.2	8,668	35,952
2024	79,520	9.5	7,554	31,020	10.7	8,509	34,941	11.2	8,906	36,217
2025	81,707	9.5	7,762	31,210	10.7	8,743	35,155	11.2	9,151	36,438
2026	83,954	9.5	7,976	31,358	10.7	8,983	35,322	11.2	9,403	36,611
2027	86,263	9.5	8,195	31,461	10.7	9,230	35,438	11.2	9,661	36,731
2028	88,635	9.5	8,420	31,513	10.7	9,484	35,497	11.2	9,927	36,792
2029	91,072	9.5	8,652	31,510	10.7	9,745	35,494	11.2	10,200	36,788
2030	93,576	9.5	8,890	31,446	10.7	10,013	35,422	11.2	10,481	36,713

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 73,305	12.8%	\$9,383	\$ 39,748	13.0%	\$9,530	\$ 40,348	14.8%	\$10,849	\$ 45,422
2022	75,321	12.8	9,641	40,129	13.0	9,792	40,735	14.8	11,148	45,858
2023	77,392	12.8	9,906	40,471	13.0	10,061	41,082	14.8	11,454	46,249
2024	79,520	12.8	10,179	40,769	13.0	10,338	41,385	14.8	11,769	46,590
2025	81,707	12.8	10,458	41,018	13.0	10,622	41,638	14.8	12,093	46,875
2026	83,954	12.8	10,746	41,213	13.0	10,914	41,836	14.8	12,425	47,098
2027	86,263	12.8	11,042	41,348	13.0	11,214	41,973	14.8	12,767	47,252
2028	88,635	12.8	11,345	41,417	13.0	11,523	42,043	14.8	13,118	47,331
2029	91,072	12.8	11,657	41,413	13.0	11,839	42,039	14.8	13,479	47,326
2030	93,576	12.8	11,978	41,329	13.0	12,165	41,954	14.8	13,849	47,230

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

City of Rich Hill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	4.9%	\$3,592	\$ 22,713	7.0%	\$5,131	\$ 28,390	5.8%	\$4,252	\$ 25,178
2022	75,321	4.9	3,691	22,931	7.0	5,272	28,662	5.8	4,369	25,420
2023	77,392	4.9	3,792	23,126	7.0	5,417	28,906	5.8	4,489	25,637
2024	79,520	4.9	3,896	23,296	7.0	5,566	29,119	5.8	4,612	25,826
2025	81,707	4.9	4,004	23,438	7.0	5,719	29,297	5.8	4,739	25,984
2026	83,954	4.9	4,114	23,549	7.0	5,877	29,436	5.8	4,869	26,108
2027	86,263	4.9	4,227	23,626	7.0	6,038	29,532	5.8	5,003	26,194
2028	88,635	4.9	4,343	23,665	7.0	6,204	29,581	5.8	5,141	26,238
2029	91,072	4.9	4,463	23,663	7.0	6,375	29,578	5.8	5,282	26,235
2030	93,576	4.9	4,585	23,615	7.0	6,550	29,518	5.8	5,427	26,182

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	7.6%	\$5,571	\$ 30,243	8.8%	\$6,451	\$ 34,066	9.3%	\$6,817	\$ 35,309
2022	75,321	7.6	5,724	30,533	8.8	6,628	34,393	9.3	7,005	35,648
2023	77,392	7.6	5,882	30,793	8.8	6,810	34,686	9.3	7,197	35,952
2024	79,520	7.6	6,044	31,020	8.8	6,998	34,941	9.3	7,395	36,217
2025	81,707	7.6	6,210	31,210	8.8	7,190	35,155	9.3	7,599	36,438
2026	83,954	7.6	6,381	31,358	8.8	7,388	35,322	9.3	7,808	36,611
2027	86,263	7.6	6,556	31,461	8.8	7,591	35,438	9.3	8,022	36,731
2028	88,635	7.6	6,736	31,513	8.8	7,800	35,497	9.3	8,243	36,792
2029	91,072	7.6	6,921	31,510	8.8	8,014	35,494	9.3	8,470	36,788
2030	93,576	7.6	7,112	31,446	8.8	8,235	35,422	9.3	8,703	36,713

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	10.9%	\$7,990	\$ 39,748	11.1%	\$8,137	\$ 40,348	12.9%	\$9,456	\$ 45,422
2022	75,321	10.9	8,210	40,129	11.1	8,361	40,735	12.9	9,716	45,858
2023	77,392	10.9	8,436	40,471	11.1	8,591	41,082	12.9	9,984	46,249
2024	79,520	10.9	8,668	40,769	11.1	8,827	41,385	12.9	10,258	46,590
2025	81,707	10.9	8,906	41,018	11.1	9,069	41,638	12.9	10,540	46,875
2026	83,954	10.9	9,151	41,213	11.1	9,319	41,836	12.9	10,830	47,098
2027	86,263	10.9	9,403	41,348	11.1	9,575	41,973	12.9	11,128	47,252
2028	88,635	10.9	9,661	41,417	11.1	9,838	42,043	12.9	11,434	47,331
2029	91,072	10.9	9,927	41,413	11.1	10,109	42,039	12.9	11,748	47,326
2030	93,576	10.9	10,200	41,329	11.1	10,387	41,954	12.9	12,071	47,230

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

City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 73,305	3.0%	\$2,199	\$ 22,713	5.1%	\$3,739	\$ 28,390	3.9%	\$2,859	\$ 25,178
2022	75,321	3.0	2,260	22,931	5.1	3,841	28,662	3.9	2,938	25,420
2023	77,392	3.0	2,322	23,126	5.1	3,947	28,906	3.9	3,018	25,637
2024	79,520	3.0	2,386	23,296	5.1	4,056	29,119	3.9	3,101	25,826
2025	81,707	3.0	2,451	23,438	5.1	4,167	29,297	3.9	3,187	25,984
2026	83,954	3.0	2,519	23,549	5.1	4,282	29,436	3.9	3,274	26,108
2027	86,263	3.0	2,588	23,626	5.1	4,399	29,532	3.9	3,364	26,194
2028	88,635	3.0	2,659	23,665	5.1	4,520	29,581	3.9	3,457	26,238
2029	91,072	3.0	2,732	23,663	5.1	4,645	29,578	3.9	3,552	26,235
2030	93,576	3.0	2,807	23,615	5.1	4,772	29,518	3.9	3,649	26,182

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	5.7%	\$4,178	\$ 30,243	6.9%	\$5,058	\$ 34,066	7.4%	\$5,425	\$ 35,309
2022	75,321	5.7	4,293	30,533	6.9	5,197	34,393	7.4	5,574	35,648
2023	77,392	5.7	4,411	30,793	6.9	5,340	34,686	7.4	5,727	35,952
2024	79,520	5.7	4,533	31,020	6.9	5,487	34,941	7.4	5,884	36,217
2025	81,707	5.7	4,657	31,210	6.9	5,638	35,155	7.4	6,046	36,438
2026	83,954	5.7	4,785	31,358	6.9	5,793	35,322	7.4	6,213	36,611
2027	86,263	5.7	4,917	31,461	6.9	5,952	35,438	7.4	6,383	36,731
2028	88,635	5.7	5,052	31,513	6.9	6,116	35,497	7.4	6,559	36,792
2029	91,072	5.7	5,191	31,510	6.9	6,284	35,494	7.4	6,739	36,788
2030	93,576	5.7	5,334	31,446	6.9	6,457	35,422	7.4	6,925	36,713

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	9.0%	\$6,597	\$ 39,748	9.2%	\$6,744	\$ 40,348	11.0%	\$8,064	\$ 45,422
2022	75,321	9.0	6,779	40,129	9.2	6,930	40,735	11.0	8,285	45,858
2023	77,392	9.0	6,965	40,471	9.2	7,120	41,082	11.0	8,513	46,249
2024	79,520	9.0	7,157	40,769	9.2	7,316	41,385	11.0	8,747	46,590
2025	81,707	9.0	7,354	41,018	9.2	7,517	41,638	11.0	8,988	46,875
2026	83,954	9.0	7,556	41,213	9.2	7,724	41,836	11.0	9,235	47,098
2027	86,263	9.0	7,764	41,348	9.2	7,936	41,973	11.0	9,489	47,252
2028	88,635	9.0	7,977	41,417	9.2	8,154	42,043	11.0	9,750	47,331
2029	91,072	9.0	8,196	41,413	9.2	8,379	42,039	11.0	10,018	47,326
2030	93,576	9.0	8,422	41,329	9.2	8,609	41,954	11.0	10,293	47,230

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



City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 73,305	9.0%	\$6,597	\$ 23,504	11.0%	\$8,064	\$ 29,388	9.9%	\$7,257	\$ 26,052
2022	75,321	9.0	6,779	23,729	11.0	8,285	29,670	9.9	7,457	26,302
2023	77,392	9.0	6,965	23,931	11.0	8,513	29,923	9.9	7,662	26,526
2024	79,520	9.0	7,157	24,107	11.0	8,747	30,143	9.9	7,872	26,721
2025	81,707	9.0	7,354	24,254	11.0	8,988	30,327	9.9	8,089	26,884
2026	83,954	9.0	7,556	24,369	11.0	9,235	30,471	9.9	8,311	27,012
2027	86,263	9.0	7,764	24,449	11.0	9,489	30,571	9.9	8,540	27,101
2028	88,635	9.0	7,977	24,490	11.0	9,750	30,622	9.9	8,775	27,146
2029	91,072	9.0	8,196	24,488	11.0	10,018	30,619	9.9	9,016	27,143
2030	93,576	9.0	8,422	24,438	11.0	10,293	30,557	9.9	9,264	27,088

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	11.7%	\$8,577	\$ 31,294	13.1%	\$9,603	\$ 35,248	13.5%	\$9,896	\$ 36,536
2022	75,321	11.7	8,813	31,594	13.1	9,867	35,586	13.5	10,168	36,886
2023	77,392	11.7	9,055	31,863	13.1	10,138	35,889	13.5	10,448	37,200
2024	79,520	11.7	9,304	32,098	13.1	10,417	36,153	13.5	10,735	37,474
2025	81,707	11.7	9,560	32,294	13.1	10,704	36,374	13.5	11,030	37,703
2026	83,954	11.7	9,823	32,448	13.1	10,998	36,547	13.5	11,334	37,882
2027	86,263	11.7	10,093	32,554	13.1	11,300	36,667	13.5	11,646	38,006
2028	88,635	11.7	10,370	32,608	13.1	11,611	36,728	13.5	11,966	38,069
2029	91,072	11.7	10,655	32,605	13.1	11,930	36,724	13.5	12,295	38,065
2030	93,576	11.7	10,948	32,539	13.1	12,258	36,649	13.5	12,633	37,988

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	15.2%	\$11,142	\$ 41,150	15.3%	\$11,216	\$ 41,771	17.2%	\$12,608	\$ 47,020
2022	75,321	15.2	11,449	41,545	15.3	11,524	42,172	17.2	12,955	47,471
2023	77,392	15.2	11,764	41,899	15.3	11,841	42,531	17.2	13,311	47,876
2024	79,520	15.2	12,087	42,208	15.3	12,167	42,844	17.2	13,677	48,229
2025	81,707	15.2	12,419	42,466	15.3	12,501	43,106	17.2	14,054	48,524
2026	83,954	15.2	12,761	42,668	15.3	12,845	43,311	17.2	14,440	48,755
2027	86,263	15.2	13,112	42,808	15.3	13,198	43,453	17.2	14,837	48,915
2028	88,635	15.2	13,473	42,879	15.3	13,561	43,525	17.2	15,245	48,996
2029	91,072	15.2	13,843	42,875	15.3	13,934	43,521	17.2	15,664	48,991
2030	93,576	15.2	14,224	42,788	15.3	14,317	43,433	17.2	16,095	48,892

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

City of Rich Hill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2021	\$ 73,305	7.1%	\$5,205	\$ 23,504	9.1%	\$6,671	\$ 29,388	8.0%	\$5,864	\$ 26,052
2022	75,321	7.1	5,348	23,729	9.1	6,854	29,670	8.0	6,026	26,302
2023	77,392	7.1	5,495	23,931	9.1	7,043	29,923	8.0	6,191	26,526
2024	79,520	7.1	5,646	24,107	9.1	7,236	30,143	8.0	6,362	26,721
2025	81,707	7.1	5,801	24,254	9.1	7,435	30,327	8.0	6,537	26,884
2026	83,954	7.1	5,961	24,369	9.1	7,640	30,471	8.0	6,716	27,012
2027	86,263	7.1	6,125	24,449	9.1	7,850	30,571	8.0	6,901	27,101
2028	88,635	7.1	6,293	24,490	9.1	8,066	30,622	8.0	7,091	27,146
2029	91,072	7.1	6,466	24,488	9.1	8,288	30,619	8.0	7,286	27,143
2030	93,576	7.1	6,644	24,438	9.1	8,515	30,557	8.0	7,486	27,088

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 73,305	9.8%	\$7,184	\$ 31,294	11.2%	\$8,210	\$ 35,248	11.6%	\$8,503	\$ 36,536
2022	75,321	9.8	7,381	31,594	11.2	8,436	35,586	11.6	8,737	36,886
2023	77,392	9.8	7,584	31,863	11.2	8,668	35,889	11.6	8,977	37,200
2024	79,520	9.8	7,793	32,098	11.2	8,906	36,153	11.6	9,224	37,474
2025	81,707	9.8	8,007	32,294	11.2	9,151	36,374	11.6	9,478	37,703
2026	83,954	9.8	8,227	32,448	11.2	9,403	36,547	11.6	9,739	37,882
2027	86,263	9.8	8,454	32,554	11.2	9,661	36,667	11.6	10,007	38,006
2028	88,635	9.8	8,686	32,608	11.2	9,927	36,728	11.6	10,282	38,069
2029	91,072	9.8	8,925	32,605	11.2	10,200	36,724	11.6	10,564	38,065
2030	93,576	9.8	9,170	32,539	11.2	10,481	36,649	11.6	10,855	37,988

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 73,305	13.3%	\$9,750	\$ 41,150	13.4%	\$9,823	\$ 41,771	15.3%	\$11,216	\$ 47,020
2022	75,321	13.3	10,018	41,545	13.4	10,093	42,172	15.3	11,524	47,471
2023	77,392	13.3	10,293	41,899	13.4	10,371	42,531	15.3	11,841	47,876
2024	79,520	13.3	10,576	42,208	13.4	10,656	42,844	15.3	12,167	48,229
2025	81,707	13.3	10,867	42,466	13.4	10,949	43,106	15.3	12,501	48,524
2026	83,954	13.3	11,166	42,668	13.4	11,250	43,311	15.3	12,845	48,755
2027	86,263	13.3	11,473	42,808	13.4	11,559	43,453	15.3	13,198	48,915
2028	88,635	13.3	11,788	42,879	13.4	11,877	43,525	15.3	13,561	48,996
2029	91,072	13.3	12,113	42,875	13.4	12,204	43,521	15.3	13,934	48,991
2030	93,576	13.3	12,446	42,788	13.4	12,539	43,433	15.3	14,317	48,892

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

City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 73,305	5.2%	\$3,812	\$ 23,504	7.2%	\$5,278	\$ 29,388	6.1%	\$4,472	\$ 26,052
2022	75,321	5.2	3,917	23,729	7.2	5,423	29,670	6.1	4,595	26,302
2023	77,392	5.2	4,024	23,931	7.2	5,572	29,923	6.1	4,721	26,526
2024	79,520	5.2	4,135	24,107	7.2	5,725	30,143	6.1	4,851	26,721
2025	81,707	5.2	4,249	24,254	7.2	5,883	30,327	6.1	4,984	26,884
2026	83,954	5.2	4,366	24,369	7.2	6,045	30,471	6.1	5,121	27,012
2027	86,263	5.2	4,486	24,449	7.2	6,211	30,571	6.1	5,262	27,101
2028	88,635	5.2	4,609	24,490	7.2	6,382	30,622	6.1	5,407	27,146
2029	91,072	5.2	4,736	24,488	7.2	6,557	30,619	6.1	5,555	27,143
2030	93,576	5.2	4,866	24,438	7.2	6,737	30,557	6.1	5,708	27,088

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	7.9%	\$5,791	\$ 31,294	9.3%	\$6,817	\$ 35,248	9.7%	\$7,111	\$ 36,536
2022	75,321	7.9	5,950	31,594	9.3	7,005	35,586	9.7	7,306	36,886
2023	77,392	7.9	6,114	31,863	9.3	7,197	35,889	9.7	7,507	37,200
2024	79,520	7.9	6,282	32,098	9.3	7,395	36,153	9.7	7,713	37,474
2025	81,707	7.9	6,455	32,294	9.3	7,599	36,374	9.7	7,926	37,703
2026	83,954	7.9	6,632	32,448	9.3	7,808	36,547	9.7	8,144	37,882
2027	86,263	7.9	6,815	32,554	9.3	8,022	36,667	9.7	8,368	38,006
2028	88,635	7.9	7,002	32,608	9.3	8,243	36,728	9.7	8,598	38,069
2029	91,072	7.9	7,195	32,605	9.3	8,470	36,724	9.7	8,834	38,065
2030	93,576	7.9	7,393	32,539	9.3	8,703	36,649	9.7	9,077	37,988

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	11.4%	\$8,357	\$ 41,150	11.5%	\$8,430	\$ 41,771	13.4%	\$9,823	\$ 47,020
2022	75,321	11.4	8,587	41,545	11.5	8,662	42,172	13.4	10,093	47,471
2023	77,392	11.4	8,823	41,899	11.5	8,900	42,531	13.4	10,371	47,876
2024	79,520	11.4	9,065	42,208	11.5	9,145	42,844	13.4	10,656	48,229
2025	81,707	11.4	9,315	42,466	11.5	9,396	43,106	13.4	10,949	48,524
2026	83,954	11.4	9,571	42,668	11.5	9,655	43,311	13.4	11,250	48,755
2027	86,263	11.4	9,834	42,808	11.5	9,920	43,453	13.4	11,559	48,915
2028	88,635	11.4	10,104	42,879	11.5	10,193	43,525	13.4	11,877	48,996
2029	91,072	11.4	10,382	42,875	11.5	10,473	43,521	13.4	12,204	48,991
2030	93,576	11.4	10,668	42,788	11.5	10,761	43,433	13.4	12,539	48,892

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

City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 73,305	3.3%	\$2,419	\$ 23,504	5.3%	\$3,885	\$ 29,388	4.2%	\$3,079	\$ 26,052
2022	75,321	3.3	2,486	23,729	5.3	3,992	29,670	4.2	3,163	26,302
2023	77,392	3.3	2,554	23,931	5.3	4,102	29,923	4.2	3,250	26,526
2024	79,520	3.3	2,624	24,107	5.3	4,215	30,143	4.2	3,340	26,721
2025	81,707	3.3	2,696	24,254	5.3	4,330	30,327	4.2	3,432	26,884
2026	83,954	3.3	2,770	24,369	5.3	4,450	30,471	4.2	3,526	27,012
2027	86,263	3.3	2,847	24,449	5.3	4,572	30,571	4.2	3,623	27,101
2028	88,635	3.3	2,925	24,490	5.3	4,698	30,622	4.2	3,723	27,146
2029	91,072	3.3	3,005	24,488	5.3	4,827	30,619	4.2	3,825	27,143
2030	93,576	3.3	3,088	24,438	5.3	4,960	30,557	4.2	3,930	27,088

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	6.0%	\$4,398	\$ 31,294	7.4%	\$5,425	\$ 35,248	7.8%	\$5,718	\$ 36,536
2022	75,321	6.0	4,519	31,594	7.4	5,574	35,586	7.8	5,875	36,886
2023	77,392	6.0	4,644	31,863	7.4	5,727	35,889	7.8	6,037	37,200
2024	79,520	6.0	4,771	32,098	7.4	5,884	36,153	7.8	6,203	37,474
2025	81,707	6.0	4,902	32,294	7.4	6,046	36,374	7.8	6,373	37,703
2026	83,954	6.0	5,037	32,448	7.4	6,213	36,547	7.8	6,548	37,882
2027	86,263	6.0	5,176	32,554	7.4	6,383	36,667	7.8	6,729	38,006
2028	88,635	6.0	5,318	32,608	7.4	6,559	36,728	7.8	6,914	38,069
2029	91,072	6.0	5,464	32,605	7.4	6,739	36,724	7.8	7,104	38,065
2030	93,576	6.0	5,615	32,539	7.4	6,925	36,649	7.8	7,299	37,988

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	9.5%	\$6,964	\$ 41,150	9.6%	\$7,037	\$ 41,771	11.5%	\$8,430	\$ 47,020
2022	75,321	9.5	7,155	41,545	9.6	7,231	42,172	11.5	8,662	47,471
2023	77,392	9.5	7,352	41,899	9.6	7,430	42,531	11.5	8,900	47,876
2024	79,520	9.5	7,554	42,208	9.6	7,634	42,844	11.5	9,145	48,229
2025	81,707	9.5	7,762	42,466	9.6	7,844	43,106	11.5	9,396	48,524
2026	83,954	9.5	7,976	42,668	9.6	8,060	43,311	11.5	9,655	48,755
2027	86,263	9.5	8,195	42,808	9.6	8,281	43,453	11.5	9,920	48,915
2028	88,635	9.5	8,420	42,879	9.6	8,509	43,525	11.5	10,193	48,996
2029	91,072	9.5	8,652	42,875	9.6	8,743	43,521	11.5	10,473	48,991
2030	93,576	9.5	8,890	42,788	9.6	8,983	43,433	11.5	10,761	48,892

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

City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 73,305	9.1%	\$6,671	\$ 24,032	11.3%	\$8,283	\$ 30,036	10.6%	\$7,770	\$ 28,274
2022	75,321	9.1	6,854	24,263	11.3	8,511	30,324	10.6	7,984	28,545
2023	77,392	9.1	7,043	24,470	11.3	8,745	30,582	10.6	8,204	28,788
2024	79,520	9.1	7,236	24,650	11.3	8,986	30,807	10.6	8,429	29,000
2025	81,707	9.1	7,435	24,801	11.3	9,233	30,995	10.6	8,661	29,177
2026	83,954	9.1	7,640	24,919	11.3	9,487	31,142	10.6	8,899	29,316
2027	86,263	9.1	7,850	25,001	11.3	9,748	31,244	10.6	9,144	29,412
2028	88,635	9.1	8,066	25,043	11.3	10,016	31,296	10.6	9,395	29,461
2029	91,072	9.1	8,288	25,041	11.3	10,291	31,293	10.6	9,654	29,458
2030	93,576	9.1	8,515	24,990	11.3	10,574	31,229	10.6	9,919	29,398

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	12.3%	\$9,017	\$ 33,215	13.3%	\$9,750	\$ 36,065	13.9%	\$10,189	\$ 38,170
2022	75,321	12.3	9,264	33,534	13.3	10,018	36,411	13.9	10,470	38,536
2023	77,392	12.3	9,519	33,820	13.3	10,293	36,721	13.9	10,757	38,864
2024	79,520	12.3	9,781	34,069	13.3	10,576	36,991	13.9	11,053	39,150
2025	81,707	12.3	10,050	34,277	13.3	10,867	37,217	13.9	11,357	39,389
2026	83,954	12.3	10,326	34,440	13.3	11,166	37,394	13.9	11,670	39,576
2027	86,263	12.3	10,610	34,553	13.3	11,473	37,517	13.9	11,991	39,706
2028	88,635	12.3	10,902	34,611	13.3	11,788	37,580	13.9	12,320	39,772
2029	91,072	12.3	11,202	34,608	13.3	12,113	37,576	13.9	12,659	39,768
2030	93,576	12.3	11,510	34,538	13.3	12,446	37,500	13.9	13,007	39,687

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	15.4%	\$11,289	\$ 42,067	15.7%	\$11,509	\$ 43,120	17.5%	\$12,828	\$ 48,095
2022	75,321	15.4	11,599	42,471	15.7	11,825	43,534	17.5	13,181	48,556
2023	77,392	15.4	11,918	42,833	15.7	12,151	43,905	17.5	13,544	48,970
2024	79,520	15.4	12,246	43,148	15.7	12,485	44,228	17.5	13,916	49,331
2025	81,707	15.4	12,583	43,412	15.7	12,828	44,498	17.5	14,299	49,633
2026	83,954	15.4	12,929	43,618	15.7	13,181	44,710	17.5	14,692	49,869
2027	86,263	15.4	13,285	43,761	15.7	13,543	44,857	17.5	15,096	50,032
2028	88,635	15.4	13,650	43,834	15.7	13,916	44,932	17.5	15,511	50,115
2029	91,072	15.4	14,025	43,830	15.7	14,298	44,928	17.5	15,938	50,110
2030	93,576	15.4	14,411	43,741	15.7	14,691	44,837	17.5	16,376	50,008

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

City of Rich Hill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 73,305	7.2%	\$5,278	\$ 24,032	9.4%	\$6,891	\$ 30,036	8.7%	\$6,378	\$ 28,274
2022	75,321	7.2	5,423	24,263	9.4	7,080	30,324	8.7	6,553	28,545
2023	77,392	7.2	5,572	24,470	9.4	7,275	30,582	8.7	6,733	28,788
2024	79,520	7.2	5,725	24,650	9.4	7,475	30,807	8.7	6,918	29,000
2025	81,707	7.2	5,883	24,801	9.4	7,680	30,995	8.7	7,109	29,177
2026	83,954	7.2	6,045	24,919	9.4	7,892	31,142	8.7	7,304	29,316
2027	86,263	7.2	6,211	25,001	9.4	8,109	31,244	8.7	7,505	29,412
2028	88,635	7.2	6,382	25,043	9.4	8,332	31,296	8.7	7,711	29,461
2029	91,072	7.2	6,557	25,041	9.4	8,561	31,293	8.7	7,923	29,458
2030	93,576	7.2	6,737	24,990	9.4	8,796	31,229	8.7	8,141	29,398

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 73,305	10.4%	\$7,624	\$ 33,215	11.4%	\$8,357	\$ 36,065	12.0%	\$8,797	\$ 38,170
2022	75,321	10.4	7,833	33,534	11.4	8,587	36,411	12.0	9,039	38,536
2023	77,392	10.4	8,049	33,820	11.4	8,823	36,721	12.0	9,287	38,864
2024	79,520	10.4	8,270	34,069	11.4	9,065	36,991	12.0	9,542	39,150
2025	81,707	10.4	8,498	34,277	11.4	9,315	37,217	12.0	9,805	39,389
2026	83,954	10.4	8,731	34,440	11.4	9,571	37,394	12.0	10,074	39,576
2027	86,263	10.4	8,971	34,553	11.4	9,834	37,517	12.0	10,352	39,706
2028	88,635	10.4	9,218	34,611	11.4	10,104	37,580	12.0	10,636	39,772
2029	91,072	10.4	9,471	34,608	11.4	10,382	37,576	12.0	10,929	39,768
2030	93,576	10.4	9,732	34,538	11.4	10,668	37,500	12.0	11,229	39,687

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 73,305	13.5%	\$9,896	\$ 42,067	13.8%	\$10,116	\$ 43,120	15.6%	\$11,436	\$ 48,095
2022	75,321	13.5	10,168	42,471	13.8	10,394	43,534	15.6	11,750	48,556
2023	77,392	13.5	10,448	42,833	13.8	10,680	43,905	15.6	12,073	48,970
2024	79,520	13.5	10,735	43,148	13.8	10,974	44,228	15.6	12,405	49,331
2025	81,707	13.5	11,030	43,412	13.8	11,276	44,498	15.6	12,746	49,633
2026	83,954	13.5	11,334	43,618	13.8	11,586	44,710	15.6	13,097	49,869
2027	86,263	13.5	11,646	43,761	13.8	11,904	44,857	15.6	13,457	50,032
2028	88,635	13.5	11,966	43,834	13.8	12,232	44,932	15.6	13,827	50,115
2029	91,072	13.5	12,295	43,830	13.8	12,568	44,928	15.6	14,207	50,110
2030	93,576	13.5	12,633	43,741	13.8	12,913	44,837	15.6	14,598	50,008

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

City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 73,305	5.3%	\$3,885	\$ 24,032	7.5%	\$5,498	\$ 30,036	6.8%	\$4,985	\$ 28,274
2022	75,321	5.3	3,992	24,263	7.5	5,649	30,324	6.8	5,122	28,545
2023	77,392	5.3	4,102	24,470	7.5	5,804	30,582	6.8	5,263	28,788
2024	79,520	5.3	4,215	24,650	7.5	5,964	30,807	6.8	5,407	29,000
2025	81,707	5.3	4,330	24,801	7.5	6,128	30,995	6.8	5,556	29,177
2026	83,954	5.3	4,450	24,919	7.5	6,297	31,142	6.8	5,709	29,316
2027	86,263	5.3	4,572	25,001	7.5	6,470	31,244	6.8	5,866	29,412
2028	88,635	5.3	4,698	25,043	7.5	6,648	31,296	6.8	6,027	29,461
2029	91,072	5.3	4,827	25,041	7.5	6,830	31,293	6.8	6,193	29,458
2030	93,576	5.3	4,960	24,990	7.5	7,018	31,229	6.8	6,363	29,398

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	8.5%	\$6,231	\$ 33,215	9.5%	\$6,964	\$ 36,065	10.1%	\$7,404	\$ 38,170
2022	75,321	8.5	6,402	33,534	9.5	7,155	36,411	10.1	7,607	38,536
2023	77,392	8.5	6,578	33,820	9.5	7,352	36,721	10.1	7,817	38,864
2024	79,520	8.5	6,759	34,069	9.5	7,554	36,991	10.1	8,032	39,150
2025	81,707	8.5	6,945	34,277	9.5	7,762	37,217	10.1	8,252	39,389
2026	83,954	8.5	7,136	34,440	9.5	7,976	37,394	10.1	8,479	39,576
2027	86,263	8.5	7,332	34,553	9.5	8,195	37,517	10.1	8,713	39,706
2028	88,635	8.5	7,534	34,611	9.5	8,420	37,580	10.1	8,952	39,772
2029	91,072	8.5	7,741	34,608	9.5	8,652	37,576	10.1	9,198	39,768
2030	93,576	8.5	7,954	34,538	9.5	8,890	37,500	10.1	9,451	39,687

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 73,305	11.6%	\$8,503	\$ 42,067	11.9%	\$8,723	\$ 43,120	13.7%	\$10,043	\$ 48,095
2022	75,321	11.6	8,737	42,471	11.9	8,963	43,534	13.7	10,319	48,556
2023	77,392	11.6	8,977	42,833	11.9	9,210	43,905	13.7	10,603	48,970
2024	79,520	11.6	9,224	43,148	11.9	9,463	44,228	13.7	10,894	49,331
2025	81,707	11.6	9,478	43,412	11.9	9,723	44,498	13.7	11,194	49,633
2026	83,954	11.6	9,739	43,618	11.9	9,991	44,710	13.7	11,502	49,869
2027	86,263	11.6	10,007	43,761	11.9	10,265	44,857	13.7	11,818	50,032
2028	88,635	11.6	10,282	43,834	11.9	10,548	44,932	13.7	12,143	50,115
2029	91,072	11.6	10,564	43,830	11.9	10,838	44,928	13.7	12,477	50,110
2030	93,576	11.6	10,855	43,741	11.9	11,136	44,837	13.7	12,820	50,008

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

City of Rich Hill - General

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

Rule of 80 Retirement Eligibility

Valuation		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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
Year	Projected Payroll									
2021	\$ 73,305	3.4%	\$2,492	\$ 24,032	5.6%	\$4,105	\$ 30,036	4.9%	\$3,592	\$ 28,274
2022	75,321	3.4	2,561	24,263	5.6	4,218	30,324	4.9	3,691	28,545
2023	77,392	3.4	2,631	24,470	5.6	4,334	30,582	4.9	3,792	28,788
2024	79,520	3.4	2,704	24,650	5.6	4,453	30,807	4.9	3,896	29,000
2025	81,707	3.4	2,778	24,801	5.6	4,576	30,995	4.9	4,004	29,177
2026	83,954	3.4	2,854	24,919	5.6	4,701	31,142	4.9	4,114	29,316
2027	86,263	3.4	2,933	25,001	5.6	4,831	31,244	4.9	4,227	29,412
2028	88,635	3.4	3,014	25,043	5.6	4,964	31,296	4.9	4,343	29,461
2029	91,072	3.4	3,096	25,041	5.6	5,100	31,293	4.9	4,463	29,458
2030	93,576	3.4	3,182	24,990	5.6	5,240	31,229	4.9	4,585	29,398

Valuation		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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
Year	Projected Payroll									
2021	\$ 73,305	6.6%	\$4,838	\$ 33,215	7.6%	\$5,571	\$ 36,065	8.2%	\$6,011	\$ 38,170
2022	75,321	6.6	4,971	33,534	7.6	5,724	36,411	8.2	6,176	38,536
2023	77,392	6.6	5,108	33,820	7.6	5,882	36,721	8.2	6,346	38,864
2024	79,520	6.6	5,248	34,069	7.6	6,044	36,991	8.2	6,521	39,150
2025	81,707	6.6	5,393	34,277	7.6	6,210	37,217	8.2	6,700	39,389
2026	83,954	6.6	5,541	34,440	7.6	6,381	37,394	8.2	6,884	39,576
2027	86,263	6.6	5,693	34,553	7.6	6,556	37,517	8.2	7,074	39,706
2028	88,635	6.6	5,850	34,611	7.6	6,736	37,580	8.2	7,268	39,772
2029	91,072	6.6	6,011	34,608	7.6	6,921	37,576	8.2	7,468	39,768
2030	93,576	6.6	6,176	34,538	7.6	7,112	37,500	8.2	7,673	39,687

Valuation		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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
Year	Projected Payroll									
2021	\$ 73,305	9.7%	\$7,111	\$ 42,067	10.0%	\$7,331	\$ 43,120	11.8%	\$8,650	\$ 48,095
2022	75,321	9.7	7,306	42,471	10.0	7,532	43,534	11.8	8,888	48,556
2023	77,392	9.7	7,507	42,833	10.0	7,739	43,905	11.8	9,132	48,970
2024	79,520	9.7	7,713	43,148	10.0	7,952	44,228	11.8	9,383	49,331
2025	81,707	9.7	7,926	43,412	10.0	8,171	44,498	11.8	9,641	49,633
2026	83,954	9.7	8,144	43,618	10.0	8,395	44,710	11.8	9,907	49,869
2027	86,263	9.7	8,368	43,761	10.0	8,626	44,857	11.8	10,179	50,032
2028	88,635	9.7	8,598	43,834	10.0	8,864	44,932	11.8	10,459	50,115
2029	91,072	9.7	8,834	43,830	10.0	9,107	44,928	11.8	10,746	50,110
2030	93,576	9.7	9,077	43,741	10.0	9,358	44,837	11.8	11,042	50,008

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

City of Rich Hill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	9.5%	\$6,964	\$ 24,888	11.6%	\$8,503	\$ 31,121	10.8%	\$7,917	\$ 29,273
2022	75,321	9.5	7,155	25,127	11.6	8,737	31,420	10.8	8,135	29,554
2023	77,392	9.5	7,352	25,341	11.6	8,977	31,688	10.8	8,358	29,806
2024	79,520	9.5	7,554	25,528	11.6	9,224	31,921	10.8	8,588	30,025
2025	81,707	9.5	7,762	25,684	11.6	9,478	32,116	10.8	8,824	30,209
2026	83,954	9.5	7,976	25,806	11.6	9,739	32,269	10.8	9,067	30,353
2027	86,263	9.5	8,195	25,891	11.6	10,007	32,375	10.8	9,316	30,452
2028	88,635	9.5	8,420	25,934	11.6	10,282	32,429	10.8	9,573	30,503
2029	91,072	9.5	8,652	25,932	11.6	10,564	32,426	10.8	9,836	30,500
2030	93,576	9.5	8,890	25,879	11.6	10,855	32,360	10.8	10,106	30,438

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	12.7%	\$9,310	\$ 34,396	13.7%	\$10,043	\$ 37,335	14.4%	\$10,556	\$ 39,537
2022	75,321	12.7	9,566	34,726	13.7	10,319	37,693	14.4	10,846	39,916
2023	77,392	12.7	9,829	35,022	13.7	10,603	38,014	14.4	11,144	40,256
2024	79,520	12.7	10,099	35,280	13.7	10,894	38,294	14.4	11,451	40,552
2025	81,707	12.7	10,377	35,496	13.7	11,194	38,528	14.4	11,766	40,800
2026	83,954	12.7	10,662	35,665	13.7	11,502	38,711	14.4	12,089	40,994
2027	86,263	12.7	10,955	35,782	13.7	11,818	38,838	14.4	12,422	41,128
2028	88,635	12.7	11,257	35,842	13.7	12,143	38,903	14.4	12,763	41,197
2029	91,072	12.7	11,566	35,839	13.7	12,477	38,899	14.4	13,114	41,193
2030	93,576	12.7	11,884	35,766	13.7	12,820	38,820	14.4	13,475	41,109

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	15.9%	\$11,655	\$ 43,561	16.3%	\$11,949	\$ 44,658	18.1%	\$13,268	\$ 49,765
2022	75,321	15.9	11,976	43,979	16.3	12,277	45,086	18.1	13,633	50,242
2023	77,392	15.9	12,305	44,354	16.3	12,615	45,470	18.1	14,008	50,670
2024	79,520	15.9	12,644	44,681	16.3	12,962	45,805	18.1	14,393	51,043
2025	81,707	15.9	12,991	44,954	16.3	13,318	46,085	18.1	14,789	51,355
2026	83,954	15.9	13,349	45,168	16.3	13,685	46,304	18.1	15,196	51,599
2027	86,263	15.9	13,716	45,316	16.3	14,061	46,456	18.1	15,614	51,768
2028	88,635	15.9	14,093	45,392	16.3	14,448	46,533	18.1	16,043	51,854
2029	91,072	15.9	14,480	45,388	16.3	14,845	46,529	18.1	16,484	51,849
2030	93,576	15.9	14,879	45,296	16.3	15,253	46,435	18.1	16,937	51,744

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

City of Rich Hill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	7.6%	\$5,571	\$ 24,888	9.7%	\$7,111	\$ 31,121	8.9%	\$6,524	\$ 29,273
2022	75,321	7.6	5,724	25,127	9.7	7,306	31,420	8.9	6,704	29,554
2023	77,392	7.6	5,882	25,341	9.7	7,507	31,688	8.9	6,888	29,806
2024	79,520	7.6	6,044	25,528	9.7	7,713	31,921	8.9	7,077	30,025
2025	81,707	7.6	6,210	25,684	9.7	7,926	32,116	8.9	7,272	30,209
2026	83,954	7.6	6,381	25,806	9.7	8,144	32,269	8.9	7,472	30,353
2027	86,263	7.6	6,556	25,891	9.7	8,368	32,375	8.9	7,677	30,452
2028	88,635	7.6	6,736	25,934	9.7	8,598	32,429	8.9	7,889	30,503
2029	91,072	7.6	6,921	25,932	9.7	8,834	32,426	8.9	8,105	30,500
2030	93,576	7.6	7,112	25,879	9.7	9,077	32,360	8.9	8,328	30,438

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	10.8%	\$7,917	\$ 34,396	11.8%	\$8,650	\$ 37,335	12.5%	\$9,163	\$ 39,537
2022	75,321	10.8	8,135	34,726	11.8	8,888	37,693	12.5	9,415	39,916
2023	77,392	10.8	8,358	35,022	11.8	9,132	38,014	12.5	9,674	40,256
2024	79,520	10.8	8,588	35,280	11.8	9,383	38,294	12.5	9,940	40,552
2025	81,707	10.8	8,824	35,496	11.8	9,641	38,528	12.5	10,213	40,800
2026	83,954	10.8	9,067	35,665	11.8	9,907	38,711	12.5	10,494	40,994
2027	86,263	10.8	9,316	35,782	11.8	10,179	38,838	12.5	10,783	41,128
2028	88,635	10.8	9,573	35,842	11.8	10,459	38,903	12.5	11,079	41,197
2029	91,072	10.8	9,836	35,839	11.8	10,746	38,899	12.5	11,384	41,193
2030	93,576	10.8	10,106	35,766	11.8	11,042	38,820	12.5	11,697	41,109

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	14.0%	\$10,263	\$ 43,561	14.4%	\$10,556	\$ 44,658	16.2%	\$11,875	\$ 49,765
2022	75,321	14.0	10,545	43,979	14.4	10,846	45,086	16.2	12,202	50,242
2023	77,392	14.0	10,835	44,354	14.4	11,144	45,470	16.2	12,538	50,670
2024	79,520	14.0	11,133	44,681	14.4	11,451	45,805	16.2	12,882	51,043
2025	81,707	14.0	11,439	44,954	14.4	11,766	46,085	16.2	13,237	51,355
2026	83,954	14.0	11,754	45,168	14.4	12,089	46,304	16.2	13,601	51,599
2027	86,263	14.0	12,077	45,316	14.4	12,422	46,456	16.2	13,975	51,768
2028	88,635	14.0	12,409	45,392	14.4	12,763	46,533	16.2	14,359	51,854
2029	91,072	14.0	12,750	45,388	14.4	13,114	46,529	16.2	14,754	51,849
2030	93,576	14.0	13,101	45,296	14.4	13,475	46,435	16.2	15,159	51,744

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

City of Rich Hill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	5.7%	\$4,178	\$ 24,888	7.8%	\$5,718	\$ 31,121	7.0%	\$5,131	\$ 29,273
2022	75,321	5.7	4,293	25,127	7.8	5,875	31,420	7.0	5,272	29,554
2023	77,392	5.7	4,411	25,341	7.8	6,037	31,688	7.0	5,417	29,806
2024	79,520	5.7	4,533	25,528	7.8	6,203	31,921	7.0	5,566	30,025
2025	81,707	5.7	4,657	25,684	7.8	6,373	32,116	7.0	5,719	30,209
2026	83,954	5.7	4,785	25,806	7.8	6,548	32,269	7.0	5,877	30,353
2027	86,263	5.7	4,917	25,891	7.8	6,729	32,375	7.0	6,038	30,452
2028	88,635	5.7	5,052	25,934	7.8	6,914	32,429	7.0	6,204	30,503
2029	91,072	5.7	5,191	25,932	7.8	7,104	32,426	7.0	6,375	30,500
2030	93,576	5.7	5,334	25,879	7.8	7,299	32,360	7.0	6,550	30,438

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	8.9%	\$6,524	\$ 34,396	9.9%	\$7,257	\$ 37,335	10.6%	\$7,770	\$ 39,537
2022	75,321	8.9	6,704	34,726	9.9	7,457	37,693	10.6	7,984	39,916
2023	77,392	8.9	6,888	35,022	9.9	7,662	38,014	10.6	8,204	40,256
2024	79,520	8.9	7,077	35,280	9.9	7,872	38,294	10.6	8,429	40,552
2025	81,707	8.9	7,272	35,496	9.9	8,089	38,528	10.6	8,661	40,800
2026	83,954	8.9	7,472	35,665	9.9	8,311	38,711	10.6	8,899	40,994
2027	86,263	8.9	7,677	35,782	9.9	8,540	38,838	10.6	9,144	41,128
2028	88,635	8.9	7,889	35,842	9.9	8,775	38,903	10.6	9,395	41,197
2029	91,072	8.9	8,105	35,839	9.9	9,016	38,899	10.6	9,654	41,193
2030	93,576	8.9	8,328	35,766	9.9	9,264	38,820	10.6	9,919	41,109

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	12.1%	\$8,870	\$ 43,561	12.5%	\$9,163	\$ 44,658	14.3%	\$10,483	\$ 49,765
2022	75,321	12.1	9,114	43,979	12.5	9,415	45,086	14.3	10,771	50,242
2023	77,392	12.1	9,364	44,354	12.5	9,674	45,470	14.3	11,067	50,670
2024	79,520	12.1	9,622	44,681	12.5	9,940	45,805	14.3	11,371	51,043
2025	81,707	12.1	9,887	44,954	12.5	10,213	46,085	14.3	11,684	51,355
2026	83,954	12.1	10,158	45,168	12.5	10,494	46,304	14.3	12,005	51,599
2027	86,263	12.1	10,438	45,316	12.5	10,783	46,456	14.3	12,336	51,768
2028	88,635	12.1	10,725	45,392	12.5	11,079	46,533	14.3	12,675	51,854
2029	91,072	12.1	11,020	45,388	12.5	11,384	46,529	14.3	13,023	51,849
2030	93,576	12.1	11,323	45,296	12.5	11,697	46,435	14.3	13,381	51,744

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

City of Rich Hill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	3.8%	\$2,786	\$ 24,888	5.9%	\$4,325	\$ 31,121	5.1%	\$3,739	\$ 29,273
2022	75,321	3.8	2,862	25,127	5.9	4,444	31,420	5.1	3,841	29,554
2023	77,392	3.8	2,941	25,341	5.9	4,566	31,688	5.1	3,947	29,806
2024	79,520	3.8	3,022	25,528	5.9	4,692	31,921	5.1	4,056	30,025
2025	81,707	3.8	3,105	25,684	5.9	4,821	32,116	5.1	4,167	30,209
2026	83,954	3.8	3,190	25,806	5.9	4,953	32,269	5.1	4,282	30,353
2027	86,263	3.8	3,278	25,891	5.9	5,090	32,375	5.1	4,399	30,452
2028	88,635	3.8	3,368	25,934	5.9	5,229	32,429	5.1	4,520	30,503
2029	91,072	3.8	3,461	25,932	5.9	5,373	32,426	5.1	4,645	30,500
2030	93,576	3.8	3,556	25,879	5.9	5,521	32,360	5.1	4,772	30,438

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	7.0%	\$5,131	\$ 34,396	8.0%	\$5,864	\$ 37,335	8.7%	\$6,378	\$ 39,537
2022	75,321	7.0	5,272	34,726	8.0	6,026	37,693	8.7	6,553	39,916
2023	77,392	7.0	5,417	35,022	8.0	6,191	38,014	8.7	6,733	40,256
2024	79,520	7.0	5,566	35,280	8.0	6,362	38,294	8.7	6,918	40,552
2025	81,707	7.0	5,719	35,496	8.0	6,537	38,528	8.7	7,109	40,800
2026	83,954	7.0	5,877	35,665	8.0	6,716	38,711	8.7	7,304	40,994
2027	86,263	7.0	6,038	35,782	8.0	6,901	38,838	8.7	7,505	41,128
2028	88,635	7.0	6,204	35,842	8.0	7,091	38,903	8.7	7,711	41,197
2029	91,072	7.0	6,375	35,839	8.0	7,286	38,899	8.7	7,923	41,193
2030	93,576	7.0	6,550	35,766	8.0	7,486	38,820	8.7	8,141	41,109

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 73,305	10.2%	\$7,477	\$ 43,561	10.6%	\$7,770	\$ 44,658	12.4%	\$9,090	\$ 49,765
2022	75,321	10.2	7,683	43,979	10.6	7,984	45,086	12.4	9,340	50,242
2023	77,392	10.2	7,894	44,354	10.6	8,204	45,470	12.4	9,597	50,670
2024	79,520	10.2	8,111	44,681	10.6	8,429	45,805	12.4	9,860	51,043
2025	81,707	10.2	8,334	44,954	10.6	8,661	46,085	12.4	10,132	51,355
2026	83,954	10.2	8,563	45,168	10.6	8,899	46,304	12.4	10,410	51,599
2027	86,263	10.2	8,799	45,316	10.6	9,144	46,456	12.4	10,697	51,768
2028	88,635	10.2	9,041	45,392	10.6	9,395	46,533	12.4	10,991	51,854
2029	91,072	10.2	9,289	45,388	10.6	9,654	46,529	12.4	11,293	51,849
2030	93,576	10.2	9,545	45,296	10.6	9,919	46,435	12.4	11,603	51,744

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

City of Rich Hill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2021	\$ 42,625	8.0%	\$3,410	\$ -	9.8%	\$4,177	\$ 1	8.0%	\$3,410	\$ -
2022	43,797	8.0	3,504	-	9.8	4,292	1	8.0	3,504	-
2023	45,001	8.0	3,600	-	9.8	4,410	1	8.0	3,600	-
2024	46,239	8.0	3,699	-	9.8	4,531	1	8.0	3,699	-
2025	47,511	8.0	3,801	-	9.8	4,656	1	8.0	3,801	-
2026	48,818	8.0	3,905	-	9.8	4,784	1	8.0	3,905	-
2027	50,160	8.0	4,013	-	9.8	4,916	1	8.0	4,013	-
2028	51,539	8.0	4,123	-	9.8	5,051	1	8.0	4,123	-
2029	52,956	8.0	4,236	-	9.8	5,190	1	8.0	4,236	-
2030	54,412	8.0	4,353	-	9.8	5,332	1	8.0	4,353	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 42,625	9.8%	\$4,177	\$ 1	11.6%	\$4,945	\$ -	11.6%	\$4,945	\$ -
2022	43,797	9.8	4,292	1	11.6	5,080	-	11.6	5,080	-
2023	45,001	9.8	4,410	1	11.6	5,220	-	11.6	5,220	-
2024	46,239	9.8	4,531	1	11.6	5,364	-	11.6	5,364	-
2025	47,511	9.8	4,656	1	11.6	5,511	-	11.6	5,511	-
2026	48,818	9.8	4,784	1	11.6	5,663	-	11.6	5,663	-
2027	50,160	9.8	4,916	1	11.6	5,819	-	11.6	5,819	-
2028	51,539	9.8	5,051	1	11.6	5,979	-	11.6	5,979	-
2029	52,956	9.8	5,190	1	11.6	6,143	-	11.6	6,143	-
2030	54,412	9.8	5,332	1	11.6	6,312	-	11.6	6,312	-

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 42,625	13.4%	\$5,712	\$ 1	13.4%	\$5,712	\$ 1	15.1%	\$6,436	\$ -
2022	43,797	13.4	5,869	1	13.4	5,869	1	15.1	6,613	-
2023	45,001	13.4	6,030	1	13.4	6,030	1	15.1	6,795	-
2024	46,239	13.4	6,196	1	13.4	6,196	1	15.1	6,982	-
2025	47,511	13.4	6,366	1	13.4	6,366	1	15.1	7,174	-
2026	48,818	13.4	6,542	1	13.4	6,542	1	15.1	7,372	-
2027	50,160	13.4	6,721	1	13.4	6,721	1	15.1	7,574	-
2028	51,539	13.4	6,906	1	13.4	6,906	1	15.1	7,782	-
2029	52,956	13.4	7,096	1	13.4	7,096	1	15.1	7,996	-
2030	54,412	13.4	7,291	1	13.4	7,291	1	15.1	8,216	-

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

City of Rich Hill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.1%	\$2,600	\$ -	7.9%	\$3,367	\$ 1	6.1%	\$2,600	\$ -
2022	43,797	6.1	2,672	-	7.9	3,460	1	6.1	2,672	-
2023	45,001	6.1	2,745	-	7.9	3,555	1	6.1	2,745	-
2024	46,239	6.1	2,821	-	7.9	3,653	1	6.1	2,821	-
2025	47,511	6.1	2,898	-	7.9	3,753	1	6.1	2,898	-
2026	48,818	6.1	2,978	-	7.9	3,857	1	6.1	2,978	-
2027	50,160	6.1	3,060	-	7.9	3,963	1	6.1	3,060	-
2028	51,539	6.1	3,144	-	7.9	4,072	1	6.1	3,144	-
2029	52,956	6.1	3,230	-	7.9	4,184	1	6.1	3,230	-
2030	54,412	6.1	3,319	-	7.9	4,299	1	6.1	3,319	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	7.9%	\$3,367	\$ 1	9.7%	\$4,135	\$ -	9.7%	\$4,135	\$ -
2022	43,797	7.9	3,460	1	9.7	4,248	-	9.7	4,248	-
2023	45,001	7.9	3,555	1	9.7	4,365	-	9.7	4,365	-
2024	46,239	7.9	3,653	1	9.7	4,485	-	9.7	4,485	-
2025	47,511	7.9	3,753	1	9.7	4,609	-	9.7	4,609	-
2026	48,818	7.9	3,857	1	9.7	4,735	-	9.7	4,735	-
2027	50,160	7.9	3,963	1	9.7	4,866	-	9.7	4,866	-
2028	51,539	7.9	4,072	1	9.7	4,999	-	9.7	4,999	-
2029	52,956	7.9	4,184	1	9.7	5,137	-	9.7	5,137	-
2030	54,412	7.9	4,299	1	9.7	5,278	-	9.7	5,278	-

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	11.5%	\$4,902	\$ 1	11.5%	\$4,902	\$ 1	13.2%	\$5,627	\$ -
2022	43,797	11.5	5,037	1	11.5	5,037	1	13.2	5,781	-
2023	45,001	11.5	5,175	1	11.5	5,175	1	13.2	5,940	-
2024	46,239	11.5	5,317	1	11.5	5,317	1	13.2	6,104	-
2025	47,511	11.5	5,464	1	11.5	5,464	1	13.2	6,271	-
2026	48,818	11.5	5,614	1	11.5	5,614	1	13.2	6,444	-
2027	50,160	11.5	5,768	1	11.5	5,768	1	13.2	6,621	-
2028	51,539	11.5	5,927	1	11.5	5,927	1	13.2	6,803	-
2029	52,956	11.5	6,090	1	11.5	6,090	1	13.2	6,990	-
2030	54,412	11.5	6,257	1	11.5	6,257	1	13.2	7,182	-

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

City of Rich Hill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2021	\$ 42,625	4.2%	\$1,790	\$ -	6.0%	\$2,558	\$ 1	4.2%	\$1,790	\$ -
2022	43,797	4.2	1,839	-	6.0	2,628	1	4.2	1,839	-
2023	45,001	4.2	1,890	-	6.0	2,700	1	4.2	1,890	-
2024	46,239	4.2	1,942	-	6.0	2,774	1	4.2	1,942	-
2025	47,511	4.2	1,995	-	6.0	2,851	1	4.2	1,995	-
2026	48,818	4.2	2,050	-	6.0	2,929	1	4.2	2,050	-
2027	50,160	4.2	2,107	-	6.0	3,010	1	4.2	2,107	-
2028	51,539	4.2	2,165	-	6.0	3,092	1	4.2	2,165	-
2029	52,956	4.2	2,224	-	6.0	3,177	1	4.2	2,224	-
2030	54,412	4.2	2,285	-	6.0	3,265	1	4.2	2,285	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 42,625	6.0%	\$2,558	\$ 1	7.8%	\$3,325	\$ -	7.8%	\$3,325	\$ -
2022	43,797	6.0	2,628	1	7.8	3,416	-	7.8	3,416	-
2023	45,001	6.0	2,700	1	7.8	3,510	-	7.8	3,510	-
2024	46,239	6.0	2,774	1	7.8	3,607	-	7.8	3,607	-
2025	47,511	6.0	2,851	1	7.8	3,706	-	7.8	3,706	-
2026	48,818	6.0	2,929	1	7.8	3,808	-	7.8	3,808	-
2027	50,160	6.0	3,010	1	7.8	3,912	-	7.8	3,912	-
2028	51,539	6.0	3,092	1	7.8	4,020	-	7.8	4,020	-
2029	52,956	6.0	3,177	1	7.8	4,131	-	7.8	4,131	-
2030	54,412	6.0	3,265	1	7.8	4,244	-	7.8	4,244	-

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2021	\$ 42,625	9.6%	\$4,092	\$ 1	9.6%	\$4,092	\$ 1	11.3%	\$4,817	\$ -
2022	43,797	9.6	4,205	1	9.6	4,205	1	11.3	4,949	-
2023	45,001	9.6	4,320	1	9.6	4,320	1	11.3	5,085	-
2024	46,239	9.6	4,439	1	9.6	4,439	1	11.3	5,225	-
2025	47,511	9.6	4,561	1	9.6	4,561	1	11.3	5,369	-
2026	48,818	9.6	4,687	1	9.6	4,687	1	11.3	5,516	-
2027	50,160	9.6	4,815	1	9.6	4,815	1	11.3	5,668	-
2028	51,539	9.6	4,948	1	9.6	4,948	1	11.3	5,824	-
2029	52,956	9.6	5,084	1	9.6	5,084	1	11.3	5,984	-
2030	54,412	9.6	5,224	1	9.6	5,224	1	11.3	6,149	-

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

City of Rich Hill - 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	
2021	\$ 42,625	2.3%	\$980	\$ -	4.1%	\$1,748	\$ 1	2.3%	\$980	\$ -
2022	43,797	2.3	1,007	-	4.1	1,796	1	2.3	1,007	-
2023	45,001	2.3	1,035	-	4.1	1,845	1	2.3	1,035	-
2024	46,239	2.3	1,063	-	4.1	1,896	1	2.3	1,063	-
2025	47,511	2.3	1,093	-	4.1	1,948	1	2.3	1,093	-
2026	48,818	2.3	1,123	-	4.1	2,002	1	2.3	1,123	-
2027	50,160	2.3	1,154	-	4.1	2,057	1	2.3	1,154	-
2028	51,539	2.3	1,185	-	4.1	2,113	1	2.3	1,185	-
2029	52,956	2.3	1,218	-	4.1	2,171	1	2.3	1,218	-
2030	54,412	2.3	1,251	-	4.1	2,231	1	2.3	1,251	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	4.1%	\$1,748	\$ 1	5.9%	\$2,515	\$ -	5.9%	\$2,515	\$ -
2022	43,797	4.1	1,796	1	5.9	2,584	-	5.9	2,584	-
2023	45,001	4.1	1,845	1	5.9	2,655	-	5.9	2,655	-
2024	46,239	4.1	1,896	1	5.9	2,728	-	5.9	2,728	-
2025	47,511	4.1	1,948	1	5.9	2,803	-	5.9	2,803	-
2026	48,818	4.1	2,002	1	5.9	2,880	-	5.9	2,880	-
2027	50,160	4.1	2,057	1	5.9	2,959	-	5.9	2,959	-
2028	51,539	4.1	2,113	1	5.9	3,041	-	5.9	3,041	-
2029	52,956	4.1	2,171	1	5.9	3,124	-	5.9	3,124	-
2030	54,412	4.1	2,231	1	5.9	3,210	-	5.9	3,210	-

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	7.7%	\$3,282	\$ 1	7.7%	\$3,282	\$ 1	9.4%	\$4,007	\$ -
2022	43,797	7.7	3,372	1	7.7	3,372	1	9.4	4,117	-
2023	45,001	7.7	3,465	1	7.7	3,465	1	9.4	4,230	-
2024	46,239	7.7	3,560	1	7.7	3,560	1	9.4	4,346	-
2025	47,511	7.7	3,658	1	7.7	3,658	1	9.4	4,466	-
2026	48,818	7.7	3,759	1	7.7	3,759	1	9.4	4,589	-
2027	50,160	7.7	3,862	1	7.7	3,862	1	9.4	4,715	-
2028	51,539	7.7	3,969	1	7.7	3,969	1	9.4	4,845	-
2029	52,956	7.7	4,078	1	7.7	4,078	1	9.4	4,978	-
2030	54,412	7.7	4,190	1	7.7	4,190	1	9.4	5,115	-

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

City of Rich Hill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	8.2%	\$3,495	\$ -	10.0%	\$4,263	\$ -	8.2%	\$3,495	\$ -
2022	43,797	8.2	3,591	-	10.0	4,380	-	8.2	3,591	-
2023	45,001	8.2	3,690	-	10.0	4,500	-	8.2	3,690	-
2024	46,239	8.2	3,792	-	10.0	4,624	-	8.2	3,792	-
2025	47,511	8.2	3,896	-	10.0	4,751	-	8.2	3,896	-
2026	48,818	8.2	4,003	-	10.0	4,882	-	8.2	4,003	-
2027	50,160	8.2	4,113	-	10.0	5,016	-	8.2	4,113	-
2028	51,539	8.2	4,226	-	10.0	5,154	-	8.2	4,226	-
2029	52,956	8.2	4,342	-	10.0	5,296	-	8.2	4,342	-
2030	54,412	8.2	4,462	-	10.0	5,441	-	8.2	4,462	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	10.0%	\$4,263	\$ -	11.8%	\$5,030	\$ 1	11.8%	\$5,030	\$ 1
2022	43,797	10.0	4,380	-	11.8	5,168	1	11.8	5,168	1
2023	45,001	10.0	4,500	-	11.8	5,310	1	11.8	5,310	1
2024	46,239	10.0	4,624	-	11.8	5,456	1	11.8	5,456	1
2025	47,511	10.0	4,751	-	11.8	5,606	1	11.8	5,606	1
2026	48,818	10.0	4,882	-	11.8	5,761	1	11.8	5,761	1
2027	50,160	10.0	5,016	-	11.8	5,919	1	11.8	5,919	1
2028	51,539	10.0	5,154	-	11.8	6,082	1	11.8	6,082	1
2029	52,956	10.0	5,296	-	11.8	6,249	1	11.8	6,249	1
2030	54,412	10.0	5,441	-	11.8	6,421	1	11.8	6,421	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	13.6%	\$5,797	\$ -	13.6%	\$5,797	\$ -	15.4%	\$6,564	\$ -
2022	43,797	13.6	5,956	-	13.6	5,956	-	15.4	6,745	-
2023	45,001	13.6	6,120	-	13.6	6,120	-	15.4	6,930	-
2024	46,239	13.6	6,289	-	13.6	6,289	-	15.4	7,121	-
2025	47,511	13.6	6,461	-	13.6	6,461	-	15.4	7,317	-
2026	48,818	13.6	6,639	-	13.6	6,639	-	15.4	7,518	-
2027	50,160	13.6	6,822	-	13.6	6,822	-	15.4	7,725	-
2028	51,539	13.6	7,009	-	13.6	7,009	-	15.4	7,937	-
2029	52,956	13.6	7,202	-	13.6	7,202	-	15.4	8,155	-
2030	54,412	13.6	7,400	-	13.6	7,400	-	15.4	8,379	-

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

City of Rich Hill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.3%	\$2,685	\$ -	8.1%	\$3,453	\$ -	6.3%	\$2,685	\$ -
2022	43,797	6.3	2,759	-	8.1	3,548	-	6.3	2,759	-
2023	45,001	6.3	2,835	-	8.1	3,645	-	6.3	2,835	-
2024	46,239	6.3	2,913	-	8.1	3,745	-	6.3	2,913	-
2025	47,511	6.3	2,993	-	8.1	3,848	-	6.3	2,993	-
2026	48,818	6.3	3,076	-	8.1	3,954	-	6.3	3,076	-
2027	50,160	6.3	3,160	-	8.1	4,063	-	6.3	3,160	-
2028	51,539	6.3	3,247	-	8.1	4,175	-	6.3	3,247	-
2029	52,956	6.3	3,336	-	8.1	4,289	-	6.3	3,336	-
2030	54,412	6.3	3,428	-	8.1	4,407	-	6.3	3,428	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	8.1%	\$3,453	\$ -	9.9%	\$4,220	\$ 1	9.9%	\$4,220	\$ 1
2022	43,797	8.1	3,548	-	9.9	4,336	1	9.9	4,336	1
2023	45,001	8.1	3,645	-	9.9	4,455	1	9.9	4,455	1
2024	46,239	8.1	3,745	-	9.9	4,578	1	9.9	4,578	1
2025	47,511	8.1	3,848	-	9.9	4,704	1	9.9	4,704	1
2026	48,818	8.1	3,954	-	9.9	4,833	1	9.9	4,833	1
2027	50,160	8.1	4,063	-	9.9	4,966	1	9.9	4,966	1
2028	51,539	8.1	4,175	-	9.9	5,102	1	9.9	5,102	1
2029	52,956	8.1	4,289	-	9.9	5,243	1	9.9	5,243	1
2030	54,412	8.1	4,407	-	9.9	5,387	1	9.9	5,387	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	11.7%	\$4,987	\$ -	11.7%	\$4,987	\$ -	13.5%	\$5,754	\$ -
2022	43,797	11.7	5,124	-	11.7	5,124	-	13.5	5,913	-
2023	45,001	11.7	5,265	-	11.7	5,265	-	13.5	6,075	-
2024	46,239	11.7	5,410	-	11.7	5,410	-	13.5	6,242	-
2025	47,511	11.7	5,559	-	11.7	5,559	-	13.5	6,414	-
2026	48,818	11.7	5,712	-	11.7	5,712	-	13.5	6,590	-
2027	50,160	11.7	5,869	-	11.7	5,869	-	13.5	6,772	-
2028	51,539	11.7	6,030	-	11.7	6,030	-	13.5	6,958	-
2029	52,956	11.7	6,196	-	11.7	6,196	-	13.5	7,149	-
2030	54,412	11.7	6,366	-	11.7	6,366	-	13.5	7,346	-

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

City of Rich Hill - 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
2021	\$ 42,625	4.4%	\$1,876	\$ -	6.2%	\$2,643	\$ -	4.4%	\$1,876	\$ -
2022	43,797	4.4	1,927	-	6.2	2,715	-	4.4	1,927	-
2023	45,001	4.4	1,980	-	6.2	2,790	-	4.4	1,980	-
2024	46,239	4.4	2,035	-	6.2	2,867	-	4.4	2,035	-
2025	47,511	4.4	2,090	-	6.2	2,946	-	4.4	2,090	-
2026	48,818	4.4	2,148	-	6.2	3,027	-	4.4	2,148	-
2027	50,160	4.4	2,207	-	6.2	3,110	-	4.4	2,207	-
2028	51,539	4.4	2,268	-	6.2	3,195	-	4.4	2,268	-
2029	52,956	4.4	2,330	-	6.2	3,283	-	4.4	2,330	-
2030	54,412	4.4	2,394	-	6.2	3,374	-	4.4	2,394	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.2%	\$2,643	\$ -	8.0%	\$3,410	\$ 1	8.0%	\$3,410	\$ 1
2022	43,797	6.2	2,715	-	8.0	3,504	1	8.0	3,504	1
2023	45,001	6.2	2,790	-	8.0	3,600	1	8.0	3,600	1
2024	46,239	6.2	2,867	-	8.0	3,699	1	8.0	3,699	1
2025	47,511	6.2	2,946	-	8.0	3,801	1	8.0	3,801	1
2026	48,818	6.2	3,027	-	8.0	3,905	1	8.0	3,905	1
2027	50,160	6.2	3,110	-	8.0	4,013	1	8.0	4,013	1
2028	51,539	6.2	3,195	-	8.0	4,123	1	8.0	4,123	1
2029	52,956	6.2	3,283	-	8.0	4,236	1	8.0	4,236	1
2030	54,412	6.2	3,374	-	8.0	4,353	1	8.0	4,353	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	9.8%	\$4,177	\$ -	9.8%	\$4,177	\$ -	11.6%	\$4,945	\$ -
2022	43,797	9.8	4,292	-	9.8	4,292	-	11.6	5,080	-
2023	45,001	9.8	4,410	-	9.8	4,410	-	11.6	5,220	-
2024	46,239	9.8	4,531	-	9.8	4,531	-	11.6	5,364	-
2025	47,511	9.8	4,656	-	9.8	4,656	-	11.6	5,511	-
2026	48,818	9.8	4,784	-	9.8	4,784	-	11.6	5,663	-
2027	50,160	9.8	4,916	-	9.8	4,916	-	11.6	5,819	-
2028	51,539	9.8	5,051	-	9.8	5,051	-	11.6	5,979	-
2029	52,956	9.8	5,190	-	9.8	5,190	-	11.6	6,143	-
2030	54,412	9.8	5,332	-	9.8	5,332	-	11.6	6,312	-

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

City of Rich Hill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	2.5%	\$1,066	\$ -	4.3%	\$1,833	\$ -	2.5%	\$1,066	\$ -
2022	43,797	2.5	1,095	-	4.3	1,883	-	2.5	1,095	-
2023	45,001	2.5	1,125	-	4.3	1,935	-	2.5	1,125	-
2024	46,239	2.5	1,156	-	4.3	1,988	-	2.5	1,156	-
2025	47,511	2.5	1,188	-	4.3	2,043	-	2.5	1,188	-
2026	48,818	2.5	1,220	-	4.3	2,099	-	2.5	1,220	-
2027	50,160	2.5	1,254	-	4.3	2,157	-	2.5	1,254	-
2028	51,539	2.5	1,288	-	4.3	2,216	-	2.5	1,288	-
2029	52,956	2.5	1,324	-	4.3	2,277	-	2.5	1,324	-
2030	54,412	2.5	1,360	-	4.3	2,340	-	2.5	1,360	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	4.3%	\$1,833	\$ -	6.1%	\$2,600	\$ 1	6.1%	\$2,600	\$ 1
2022	43,797	4.3	1,883	-	6.1	2,672	1	6.1	2,672	1
2023	45,001	4.3	1,935	-	6.1	2,745	1	6.1	2,745	1
2024	46,239	4.3	1,988	-	6.1	2,821	1	6.1	2,821	1
2025	47,511	4.3	2,043	-	6.1	2,898	1	6.1	2,898	1
2026	48,818	4.3	2,099	-	6.1	2,978	1	6.1	2,978	1
2027	50,160	4.3	2,157	-	6.1	3,060	1	6.1	3,060	1
2028	51,539	4.3	2,216	-	6.1	3,144	1	6.1	3,144	1
2029	52,956	4.3	2,277	-	6.1	3,230	1	6.1	3,230	1
2030	54,412	4.3	2,340	-	6.1	3,319	1	6.1	3,319	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	7.9%	\$3,367	\$ -	7.9%	\$3,367	\$ -	9.7%	\$4,135	\$ -
2022	43,797	7.9	3,460	-	7.9	3,460	-	9.7	4,248	-
2023	45,001	7.9	3,555	-	7.9	3,555	-	9.7	4,365	-
2024	46,239	7.9	3,653	-	7.9	3,653	-	9.7	4,485	-
2025	47,511	7.9	3,753	-	7.9	3,753	-	9.7	4,609	-
2026	48,818	7.9	3,857	-	7.9	3,857	-	9.7	4,735	-
2027	50,160	7.9	3,963	-	7.9	3,963	-	9.7	4,866	-
2028	51,539	7.9	4,072	-	7.9	4,072	-	9.7	4,999	-
2029	52,956	7.9	4,184	-	7.9	4,184	-	9.7	5,137	-
2030	54,412	7.9	4,299	-	7.9	4,299	-	9.7	5,278	-

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

City of Rich Hill - 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 %	Annual		As a %	Annual		As a %	Annual	
		of Payroll	Dollars		of Payroll	Dollars		of Payroll	Dollars	
2021	\$ 42,625	8.0%	\$3,410	\$ -	9.8%	\$4,177	\$ 1	8.0%	\$3,410	\$ -
2022	43,797	8.0	3,504	-	9.8	4,292	1	8.0	3,504	-
2023	45,001	8.0	3,600	-	9.8	4,410	1	8.0	3,600	-
2024	46,239	8.0	3,699	-	9.8	4,531	1	8.0	3,699	-
2025	47,511	8.0	3,801	-	9.8	4,656	1	8.0	3,801	-
2026	48,818	8.0	3,905	-	9.8	4,784	1	8.0	3,905	-
2027	50,160	8.0	4,013	-	9.8	4,916	1	8.0	4,013	-
2028	51,539	8.0	4,123	-	9.8	5,051	1	8.0	4,123	-
2029	52,956	8.0	4,236	-	9.8	5,190	1	8.0	4,236	-
2030	54,412	8.0	4,353	-	9.8	5,332	1	8.0	4,353	-

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 42,625	9.8%	\$4,177	\$ 1	11.6%	\$4,945	\$ -	11.6%	\$4,945	\$ -
2022	43,797	9.8	4,292	1	11.6	5,080	-	11.6	5,080	-
2023	45,001	9.8	4,410	1	11.6	5,220	-	11.6	5,220	-
2024	46,239	9.8	4,531	1	11.6	5,364	-	11.6	5,364	-
2025	47,511	9.8	4,656	1	11.6	5,511	-	11.6	5,511	-
2026	48,818	9.8	4,784	1	11.6	5,663	-	11.6	5,663	-
2027	50,160	9.8	4,916	1	11.6	5,819	-	11.6	5,819	-
2028	51,539	9.8	5,051	1	11.6	5,979	-	11.6	5,979	-
2029	52,956	9.8	5,190	1	11.6	6,143	-	11.6	6,143	-
2030	54,412	9.8	5,332	1	11.6	6,312	-	11.6	6,312	-

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	Annual		As a % of	Annual		As a % of	Annual	
		Payroll	Dollars		Payroll	Dollars		Payroll	Dollars	
2021	\$ 42,625	13.4%	\$5,712	\$ 1	13.4%	\$5,712	\$ 1	15.1%	\$6,436	\$ -
2022	43,797	13.4	5,869	1	13.4	5,869	1	15.1	6,613	-
2023	45,001	13.4	6,030	1	13.4	6,030	1	15.1	6,795	-
2024	46,239	13.4	6,196	1	13.4	6,196	1	15.1	6,982	-
2025	47,511	13.4	6,366	1	13.4	6,366	1	15.1	7,174	-
2026	48,818	13.4	6,542	1	13.4	6,542	1	15.1	7,372	-
2027	50,160	13.4	6,721	1	13.4	6,721	1	15.1	7,574	-
2028	51,539	13.4	6,906	1	13.4	6,906	1	15.1	7,782	-
2029	52,956	13.4	7,096	1	13.4	7,096	1	15.1	7,996	-
2030	54,412	13.4	7,291	1	13.4	7,291	1	15.1	8,216	-

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

City of Rich Hill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.1%	\$2,600	\$ -	7.9%	\$3,367	\$ 1	6.1%	\$2,600	\$ -
2022	43,797	6.1	2,672	-	7.9	3,460	1	6.1	2,672	-
2023	45,001	6.1	2,745	-	7.9	3,555	1	6.1	2,745	-
2024	46,239	6.1	2,821	-	7.9	3,653	1	6.1	2,821	-
2025	47,511	6.1	2,898	-	7.9	3,753	1	6.1	2,898	-
2026	48,818	6.1	2,978	-	7.9	3,857	1	6.1	2,978	-
2027	50,160	6.1	3,060	-	7.9	3,963	1	6.1	3,060	-
2028	51,539	6.1	3,144	-	7.9	4,072	1	6.1	3,144	-
2029	52,956	6.1	3,230	-	7.9	4,184	1	6.1	3,230	-
2030	54,412	6.1	3,319	-	7.9	4,299	1	6.1	3,319	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	7.9%	\$3,367	\$ 1	9.7%	\$4,135	\$ -	9.7%	\$4,135	\$ -
2022	43,797	7.9	3,460	1	9.7	4,248	-	9.7	4,248	-
2023	45,001	7.9	3,555	1	9.7	4,365	-	9.7	4,365	-
2024	46,239	7.9	3,653	1	9.7	4,485	-	9.7	4,485	-
2025	47,511	7.9	3,753	1	9.7	4,609	-	9.7	4,609	-
2026	48,818	7.9	3,857	1	9.7	4,735	-	9.7	4,735	-
2027	50,160	7.9	3,963	1	9.7	4,866	-	9.7	4,866	-
2028	51,539	7.9	4,072	1	9.7	4,999	-	9.7	4,999	-
2029	52,956	7.9	4,184	1	9.7	5,137	-	9.7	5,137	-
2030	54,412	7.9	4,299	1	9.7	5,278	-	9.7	5,278	-

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	11.5%	\$4,902	\$ 1	11.5%	\$4,902	\$ 1	13.2%	\$5,627	\$ -
2022	43,797	11.5	5,037	1	11.5	5,037	1	13.2	5,781	-
2023	45,001	11.5	5,175	1	11.5	5,175	1	13.2	5,940	-
2024	46,239	11.5	5,317	1	11.5	5,317	1	13.2	6,104	-
2025	47,511	11.5	5,464	1	11.5	5,464	1	13.2	6,271	-
2026	48,818	11.5	5,614	1	11.5	5,614	1	13.2	6,444	-
2027	50,160	11.5	5,768	1	11.5	5,768	1	13.2	6,621	-
2028	51,539	11.5	5,927	1	11.5	5,927	1	13.2	6,803	-
2029	52,956	11.5	6,090	1	11.5	6,090	1	13.2	6,990	-
2030	54,412	11.5	6,257	1	11.5	6,257	1	13.2	7,182	-

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

City of Rich Hill - 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
2021	\$ 42,625	4.2%	\$1,790	\$ -	6.0%	\$2,558	\$ 1	4.2%	\$1,790	\$ -
2022	43,797	4.2	1,839	-	6.0	2,628	1	4.2	1,839	-
2023	45,001	4.2	1,890	-	6.0	2,700	1	4.2	1,890	-
2024	46,239	4.2	1,942	-	6.0	2,774	1	4.2	1,942	-
2025	47,511	4.2	1,995	-	6.0	2,851	1	4.2	1,995	-
2026	48,818	4.2	2,050	-	6.0	2,929	1	4.2	2,050	-
2027	50,160	4.2	2,107	-	6.0	3,010	1	4.2	2,107	-
2028	51,539	4.2	2,165	-	6.0	3,092	1	4.2	2,165	-
2029	52,956	4.2	2,224	-	6.0	3,177	1	4.2	2,224	-
2030	54,412	4.2	2,285	-	6.0	3,265	1	4.2	2,285	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.0%	\$2,558	\$ 1	7.8%	\$3,325	\$ -	7.8%	\$3,325	\$ -
2022	43,797	6.0	2,628	1	7.8	3,416	-	7.8	3,416	-
2023	45,001	6.0	2,700	1	7.8	3,510	-	7.8	3,510	-
2024	46,239	6.0	2,774	1	7.8	3,607	-	7.8	3,607	-
2025	47,511	6.0	2,851	1	7.8	3,706	-	7.8	3,706	-
2026	48,818	6.0	2,929	1	7.8	3,808	-	7.8	3,808	-
2027	50,160	6.0	3,010	1	7.8	3,912	-	7.8	3,912	-
2028	51,539	6.0	3,092	1	7.8	4,020	-	7.8	4,020	-
2029	52,956	6.0	3,177	1	7.8	4,131	-	7.8	4,131	-
2030	54,412	6.0	3,265	1	7.8	4,244	-	7.8	4,244	-

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	9.6%	\$4,092	\$ 1	9.6%	\$4,092	\$ 1	11.3%	\$4,817	\$ -
2022	43,797	9.6	4,205	1	9.6	4,205	1	11.3	4,949	-
2023	45,001	9.6	4,320	1	9.6	4,320	1	11.3	5,085	-
2024	46,239	9.6	4,439	1	9.6	4,439	1	11.3	5,225	-
2025	47,511	9.6	4,561	1	9.6	4,561	1	11.3	5,369	-
2026	48,818	9.6	4,687	1	9.6	4,687	1	11.3	5,516	-
2027	50,160	9.6	4,815	1	9.6	4,815	1	11.3	5,668	-
2028	51,539	9.6	4,948	1	9.6	4,948	1	11.3	5,824	-
2029	52,956	9.6	5,084	1	9.6	5,084	1	11.3	5,984	-
2030	54,412	9.6	5,224	1	9.6	5,224	1	11.3	6,149	-

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

City of Rich Hill - Police

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

Rule of 80 Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
Valuation Year	Estimated Projected Payroll	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	2.3%	\$980	\$ -	4.1%	\$1,748	\$ 1	2.3%	\$980	\$ -
2022	43,797	2.3	1,007	-	4.1	1,796	1	2.3	1,007	-
2023	45,001	2.3	1,035	-	4.1	1,845	1	2.3	1,035	-
2024	46,239	2.3	1,063	-	4.1	1,896	1	2.3	1,063	-
2025	47,511	2.3	1,093	-	4.1	1,948	1	2.3	1,093	-
2026	48,818	2.3	1,123	-	4.1	2,002	1	2.3	1,123	-
2027	50,160	2.3	1,154	-	4.1	2,057	1	2.3	1,154	-
2028	51,539	2.3	1,185	-	4.1	2,113	1	2.3	1,185	-
2029	52,956	2.3	1,218	-	4.1	2,171	1	2.3	1,218	-
2030	54,412	2.3	1,251	-	4.1	2,231	1	2.3	1,251	-

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
Valuation Year	Estimated Projected Payroll	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	4.1%	\$1,748	\$ 1	5.9%	\$2,515	\$ -	5.9%	\$2,515	\$ -
2022	43,797	4.1	1,796	1	5.9	2,584	-	5.9	2,584	-
2023	45,001	4.1	1,845	1	5.9	2,655	-	5.9	2,655	-
2024	46,239	4.1	1,896	1	5.9	2,728	-	5.9	2,728	-
2025	47,511	4.1	1,948	1	5.9	2,803	-	5.9	2,803	-
2026	48,818	4.1	2,002	1	5.9	2,880	-	5.9	2,880	-
2027	50,160	4.1	2,057	1	5.9	2,959	-	5.9	2,959	-
2028	51,539	4.1	2,113	1	5.9	3,041	-	5.9	3,041	-
2029	52,956	4.1	2,171	1	5.9	3,124	-	5.9	3,124	-
2030	54,412	4.1	2,231	1	5.9	3,210	-	5.9	3,210	-

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
Valuation Year	Estimated Projected Payroll	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	7.7%	\$3,282	\$ 1	7.7%	\$3,282	\$ 1	9.4%	\$4,007	\$ -
2022	43,797	7.7	3,372	1	7.7	3,372	1	9.4	4,117	-
2023	45,001	7.7	3,465	1	7.7	3,465	1	9.4	4,230	-
2024	46,239	7.7	3,560	1	7.7	3,560	1	9.4	4,346	-
2025	47,511	7.7	3,658	1	7.7	3,658	1	9.4	4,466	-
2026	48,818	7.7	3,759	1	7.7	3,759	1	9.4	4,589	-
2027	50,160	7.7	3,862	1	7.7	3,862	1	9.4	4,715	-
2028	51,539	7.7	3,969	1	7.7	3,969	1	9.4	4,845	-
2029	52,956	7.7	4,078	1	7.7	4,078	1	9.4	4,978	-
2030	54,412	7.7	4,190	1	7.7	4,190	1	9.4	5,115	-

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

City of Rich Hill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	8.2%	\$3,495	\$ -	10.0%	\$4,263	\$ -	8.2%	\$3,495	\$ -
2022	43,797	8.2	3,591	-	10.0	4,380	-	8.2	3,591	-
2023	45,001	8.2	3,690	-	10.0	4,500	-	8.2	3,690	-
2024	46,239	8.2	3,792	-	10.0	4,624	-	8.2	3,792	-
2025	47,511	8.2	3,896	-	10.0	4,751	-	8.2	3,896	-
2026	48,818	8.2	4,003	-	10.0	4,882	-	8.2	4,003	-
2027	50,160	8.2	4,113	-	10.0	5,016	-	8.2	4,113	-
2028	51,539	8.2	4,226	-	10.0	5,154	-	8.2	4,226	-
2029	52,956	8.2	4,342	-	10.0	5,296	-	8.2	4,342	-
2030	54,412	8.2	4,462	-	10.0	5,441	-	8.2	4,462	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	10.0%	\$4,263	\$ -	11.8%	\$5,030	\$ 1	11.8%	\$5,030	\$ 1
2022	43,797	10.0	4,380	-	11.8	5,168	1	11.8	5,168	1
2023	45,001	10.0	4,500	-	11.8	5,310	1	11.8	5,310	1
2024	46,239	10.0	4,624	-	11.8	5,456	1	11.8	5,456	1
2025	47,511	10.0	4,751	-	11.8	5,606	1	11.8	5,606	1
2026	48,818	10.0	4,882	-	11.8	5,761	1	11.8	5,761	1
2027	50,160	10.0	5,016	-	11.8	5,919	1	11.8	5,919	1
2028	51,539	10.0	5,154	-	11.8	6,082	1	11.8	6,082	1
2029	52,956	10.0	5,296	-	11.8	6,249	1	11.8	6,249	1
2030	54,412	10.0	5,441	-	11.8	6,421	1	11.8	6,421	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	13.6%	\$5,797	\$ -	13.6%	\$5,797	\$ -	15.4%	\$6,564	\$ -
2022	43,797	13.6	5,956	-	13.6	5,956	-	15.4	6,745	-
2023	45,001	13.6	6,120	-	13.6	6,120	-	15.4	6,930	-
2024	46,239	13.6	6,289	-	13.6	6,289	-	15.4	7,121	-
2025	47,511	13.6	6,461	-	13.6	6,461	-	15.4	7,317	-
2026	48,818	13.6	6,639	-	13.6	6,639	-	15.4	7,518	-
2027	50,160	13.6	6,822	-	13.6	6,822	-	15.4	7,725	-
2028	51,539	13.6	7,009	-	13.6	7,009	-	15.4	7,937	-
2029	52,956	13.6	7,202	-	13.6	7,202	-	15.4	8,155	-
2030	54,412	13.6	7,400	-	13.6	7,400	-	15.4	8,379	-

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

City of Rich Hill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.3%	\$2,685	\$ -	8.1%	\$3,453	\$ -	6.3%	\$2,685	\$ -
2022	43,797	6.3	2,759	-	8.1	3,548	-	6.3	2,759	-
2023	45,001	6.3	2,835	-	8.1	3,645	-	6.3	2,835	-
2024	46,239	6.3	2,913	-	8.1	3,745	-	6.3	2,913	-
2025	47,511	6.3	2,993	-	8.1	3,848	-	6.3	2,993	-
2026	48,818	6.3	3,076	-	8.1	3,954	-	6.3	3,076	-
2027	50,160	6.3	3,160	-	8.1	4,063	-	6.3	3,160	-
2028	51,539	6.3	3,247	-	8.1	4,175	-	6.3	3,247	-
2029	52,956	6.3	3,336	-	8.1	4,289	-	6.3	3,336	-
2030	54,412	6.3	3,428	-	8.1	4,407	-	6.3	3,428	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	8.1%	\$3,453	\$ -	9.9%	\$4,220	\$ 1	9.9%	\$4,220	\$ 1
2022	43,797	8.1	3,548	-	9.9	4,336	1	9.9	4,336	1
2023	45,001	8.1	3,645	-	9.9	4,455	1	9.9	4,455	1
2024	46,239	8.1	3,745	-	9.9	4,578	1	9.9	4,578	1
2025	47,511	8.1	3,848	-	9.9	4,704	1	9.9	4,704	1
2026	48,818	8.1	3,954	-	9.9	4,833	1	9.9	4,833	1
2027	50,160	8.1	4,063	-	9.9	4,966	1	9.9	4,966	1
2028	51,539	8.1	4,175	-	9.9	5,102	1	9.9	5,102	1
2029	52,956	8.1	4,289	-	9.9	5,243	1	9.9	5,243	1
2030	54,412	8.1	4,407	-	9.9	5,387	1	9.9	5,387	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	11.7%	\$4,987	\$ -	11.7%	\$4,987	\$ -	13.5%	\$5,754	\$ -
2022	43,797	11.7	5,124	-	11.7	5,124	-	13.5	5,913	-
2023	45,001	11.7	5,265	-	11.7	5,265	-	13.5	6,075	-
2024	46,239	11.7	5,410	-	11.7	5,410	-	13.5	6,242	-
2025	47,511	11.7	5,559	-	11.7	5,559	-	13.5	6,414	-
2026	48,818	11.7	5,712	-	11.7	5,712	-	13.5	6,590	-
2027	50,160	11.7	5,869	-	11.7	5,869	-	13.5	6,772	-
2028	51,539	11.7	6,030	-	11.7	6,030	-	13.5	6,958	-
2029	52,956	11.7	6,196	-	11.7	6,196	-	13.5	7,149	-
2030	54,412	11.7	6,366	-	11.7	6,366	-	13.5	7,346	-

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

City of Rich Hill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	4.4%	\$1,876	\$ -	6.2%	\$2,643	\$ -	4.4%	\$1,876	\$ -
2022	43,797	4.4	1,927	-	6.2	2,715	-	4.4	1,927	-
2023	45,001	4.4	1,980	-	6.2	2,790	-	4.4	1,980	-
2024	46,239	4.4	2,035	-	6.2	2,867	-	4.4	2,035	-
2025	47,511	4.4	2,090	-	6.2	2,946	-	4.4	2,090	-
2026	48,818	4.4	2,148	-	6.2	3,027	-	4.4	2,148	-
2027	50,160	4.4	2,207	-	6.2	3,110	-	4.4	2,207	-
2028	51,539	4.4	2,268	-	6.2	3,195	-	4.4	2,268	-
2029	52,956	4.4	2,330	-	6.2	3,283	-	4.4	2,330	-
2030	54,412	4.4	2,394	-	6.2	3,374	-	4.4	2,394	-

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	6.2%	\$2,643	\$ -	8.0%	\$3,410	\$ 1	8.0%	\$3,410	\$ 1
2022	43,797	6.2	2,715	-	8.0	3,504	1	8.0	3,504	1
2023	45,001	6.2	2,790	-	8.0	3,600	1	8.0	3,600	1
2024	46,239	6.2	2,867	-	8.0	3,699	1	8.0	3,699	1
2025	47,511	6.2	2,946	-	8.0	3,801	1	8.0	3,801	1
2026	48,818	6.2	3,027	-	8.0	3,905	1	8.0	3,905	1
2027	50,160	6.2	3,110	-	8.0	4,013	1	8.0	4,013	1
2028	51,539	6.2	3,195	-	8.0	4,123	1	8.0	4,123	1
2029	52,956	6.2	3,283	-	8.0	4,236	1	8.0	4,236	1
2030	54,412	6.2	3,374	-	8.0	4,353	1	8.0	4,353	1

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2021	\$ 42,625	9.8%	\$4,177	\$ -	9.8%	\$4,177	\$ -	11.6%	\$4,945	\$ -
2022	43,797	9.8	4,292	-	9.8	4,292	-	11.6	5,080	-
2023	45,001	9.8	4,410	-	9.8	4,410	-	11.6	5,220	-
2024	46,239	9.8	4,531	-	9.8	4,531	-	11.6	5,364	-
2025	47,511	9.8	4,656	-	9.8	4,656	-	11.6	5,511	-
2026	48,818	9.8	4,784	-	9.8	4,784	-	11.6	5,663	-
2027	50,160	9.8	4,916	-	9.8	4,916	-	11.6	5,819	-
2028	51,539	9.8	5,051	-	9.8	5,051	-	11.6	5,979	-
2029	52,956	9.8	5,190	-	9.8	5,190	-	11.6	6,143	-
2030	54,412	9.8	5,332	-	9.8	5,332	-	11.6	6,312	-

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

City of Rich Hill - Police

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

Rule of 80 Retirement Eligibility

		L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
Valuation Year	Estimated Projected Payroll	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	2.5%	\$1,066	\$ -	4.3%	\$1,833	\$ -	2.5%	\$1,066	\$ -
2022	43,797	2.5	1,095	-	4.3	1,883	-	2.5	1,095	-
2023	45,001	2.5	1,125	-	4.3	1,935	-	2.5	1,125	-
2024	46,239	2.5	1,156	-	4.3	1,988	-	2.5	1,156	-
2025	47,511	2.5	1,188	-	4.3	2,043	-	2.5	1,188	-
2026	48,818	2.5	1,220	-	4.3	2,099	-	2.5	1,220	-
2027	50,160	2.5	1,254	-	4.3	2,157	-	2.5	1,254	-
2028	51,539	2.5	1,288	-	4.3	2,216	-	2.5	1,288	-
2029	52,956	2.5	1,324	-	4.3	2,277	-	2.5	1,324	-
2030	54,412	2.5	1,360	-	4.3	2,340	-	2.5	1,360	-

		LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
Valuation Year	Estimated Projected Payroll	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	4.3%	\$1,833	\$ -	6.1%	\$2,600	\$ 1	6.1%	\$2,600	\$ 1
2022	43,797	4.3	1,883	-	6.1	2,672	1	6.1	2,672	1
2023	45,001	4.3	1,935	-	6.1	2,745	1	6.1	2,745	1
2024	46,239	4.3	1,988	-	6.1	2,821	1	6.1	2,821	1
2025	47,511	4.3	2,043	-	6.1	2,898	1	6.1	2,898	1
2026	48,818	4.3	2,099	-	6.1	2,978	1	6.1	2,978	1
2027	50,160	4.3	2,157	-	6.1	3,060	1	6.1	3,060	1
2028	51,539	4.3	2,216	-	6.1	3,144	1	6.1	3,144	1
2029	52,956	4.3	2,277	-	6.1	3,230	1	6.1	3,230	1
2030	54,412	4.3	2,340	-	6.1	3,319	1	6.1	3,319	1

		L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
Valuation Year	Estimated Projected Payroll	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2021	\$ 42,625	7.9%	\$3,367	\$ -	7.9%	\$3,367	\$ -	9.7%	\$4,135	\$ -
2022	43,797	7.9	3,460	-	7.9	3,460	-	9.7	4,248	-
2023	45,001	7.9	3,555	-	7.9	3,555	-	9.7	4,365	-
2024	46,239	7.9	3,653	-	7.9	3,653	-	9.7	4,485	-
2025	47,511	7.9	3,753	-	7.9	3,753	-	9.7	4,609	-
2026	48,818	7.9	3,857	-	7.9	3,857	-	9.7	4,735	-
2027	50,160	7.9	3,963	-	7.9	3,963	-	9.7	4,866	-
2028	51,539	7.9	4,072	-	7.9	4,072	-	9.7	4,999	-
2029	52,956	7.9	4,184	-	7.9	4,184	-	9.7	5,137	-
2030	54,412	7.9	4,299	-	7.9	4,299	-	9.7	5,278	-

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.
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- 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.
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