



The Initial Valuation For
City of Byrnes Mill
as of August 31, 2022



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October 25, 2022

City of Byrnes Mill
Byrnes Mill, 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, 2022.

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

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

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

In accordance with LAGERS Board policy, the employer contribution rates established by this valuation report are valid for purposes of joining the System for a two year period from the date of this valuation which was August 31, 2022. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

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

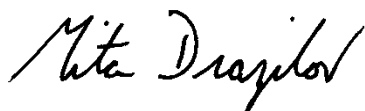
If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,
Gabriel, Roeder, Smith & Company



Mita D. Drazilov, ASA, FCA, MAAA



Alternate Plan Provisions Affecting Employer Contribution Rates

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

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

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

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

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

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

City of Byrnes Mill

Employer Contribution Rates 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.00%	0.20%	3.40%	10.60%	8.70%	6.80%	4.90%
	Police	7.30	0.40	0.90	8.60	6.70	4.80	2.90
L-3	General	8.60	0.30	4.20	13.10	11.20	9.30	7.40
	Police	8.90	0.50	1.10	10.50	8.60	6.70	4.80
LT-4(65)	General	7.70	0.20	3.60	11.50	9.60	7.70	5.80
	Police	8.60	0.40	1.00	10.00	8.10	6.20	4.30
LT-5(65)	General	9.10	0.30	4.40	13.80	11.90	10.00	8.10
	Police	9.90	0.50	1.20	11.60	9.70	7.80	5.90
L-7	General	10.10	0.30	5.00	15.40	13.50	11.60	9.70
	Police	10.50	0.60	1.40	12.50	10.60	8.70	6.80
LT-8(65)	General	10.40	0.30	5.20	15.90	14.00	12.10	10.20
	Police	11.20	0.60	1.40	13.20	11.30	9.40	7.50
L-12	General	11.60	0.40	5.90	17.90	16.00	14.10	12.20
	Police	12.10	0.70	1.60	14.40	12.50	10.60	8.70
LT-14(65)	General	11.80	0.40	5.90	18.10	16.20	14.30	12.40
	Police	12.40	0.70	1.60	14.70	12.80	10.90	9.00
L-6	General	13.20	0.50	6.70	20.40	18.50	16.60	14.70
	Police	13.70	0.80	1.80	16.30	14.40	12.50	10.60

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

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

City of Byrnes Mill

Employer Contribution Rates 3 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.20%	0.20%	3.50%	10.90%	9.00%	7.10%	5.20%
	Police	7.60	0.40	0.90	8.90	7.00	5.10	3.20
L-3	General	8.80	0.30	4.30	13.40	11.50	9.60	7.70
	Police	9.20	0.50	1.20	10.90	9.00	7.10	5.20
LT-4(65)	General	7.90	0.20	3.80	11.90	10.00	8.10	6.20
	Police	8.90	0.40	1.10	10.40	8.50	6.60	4.70
LT-5(65)	General	9.30	0.30	4.60	14.20	12.30	10.40	8.50
	Police	10.20	0.50	1.30	12.00	10.10	8.20	6.30
L-7	General	10.40	0.30	5.20	15.90	14.00	12.10	10.20
	Police	10.90	0.60	1.40	12.90	11.00	9.10	7.20
LT-8(65)	General	10.70	0.30	5.30	16.30	14.40	12.50	10.60
	Police	11.50	0.60	1.50	13.60	11.70	9.80	7.90
L-12	General	12.00	0.40	6.10	18.50	16.60	14.70	12.80
	Police	12.50	0.70	1.70	14.90	13.00	11.10	9.20
LT-14(65)	General	12.20	0.40	6.10	18.70	16.80	14.90	13.00
	Police	12.90	0.70	1.70	15.30	13.40	11.50	9.60
L-6	General	13.60	0.50	6.90	21.00	19.10	17.20	15.30
	Police	14.20	0.80	1.90	16.90	15.00	13.10	11.20

* 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 Byrnes Mill

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.20%	0.20%	3.50%	10.90%	9.00%	7.10%	5.20%
	Police	7.40	0.40	0.90	8.70	6.80	4.90	3.00
L-3	General	8.80	0.30	4.40	13.50	11.60	9.70	7.80
	Police	9.10	0.50	1.20	10.80	8.90	7.00	5.10
LT-4(65)	General	8.10	0.20	3.90	12.20	10.30	8.40	6.50
	Police	8.90	0.40	1.10	10.40	8.50	6.60	4.70
LT-5(65)	General	9.50	0.30	4.70	14.50	12.60	10.70	8.80
	Police	10.20	0.50	1.30	12.00	10.10	8.20	6.30
L-7	General	10.40	0.30	5.20	15.90	14.00	12.10	10.20
	Police	10.70	0.60	1.40	12.70	10.80	8.90	7.00
LT-8(65)	General	10.80	0.30	5.40	16.50	14.60	12.70	10.80
	Police	11.40	0.60	1.50	13.50	11.60	9.70	7.80
L-12	General	11.90	0.40	6.10	18.40	16.50	14.60	12.70
	Police	12.30	0.70	1.60	14.60	12.70	10.80	8.90
LT-14(65)	General	12.20	0.40	6.20	18.80	16.90	15.00	13.10
	Police	12.70	0.70	1.60	15.00	13.10	11.20	9.30
L-6	General	13.50	0.50	7.00	21.00	19.10	17.20	15.30
	Police	14.00	0.80	1.80	16.60	14.70	12.80	10.90

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

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

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

City of Byrnes Mill

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.40%	0.20%	3.60%	11.20%	9.30%	7.40%	5.50%
	Police	7.70	0.40	1.00	9.10	7.20	5.30	3.40
L-3	General	9.00	0.30	4.50	13.80	11.90	10.00	8.10
	Police	9.40	0.50	1.20	11.10	9.20	7.30	5.40
LT-4(65)	General	8.30	0.20	4.10	12.60	10.70	8.80	6.90
	Police	9.20	0.40	1.10	10.70	8.80	6.90	5.00
LT-5(65)	General	9.70	0.30	4.80	14.80	12.90	11.00	9.10
	Police	10.50	0.50	1.30	12.30	10.40	8.50	6.60
L-7	General	10.70	0.30	5.40	16.40	14.50	12.60	10.70
	Police	11.10	0.60	1.40	13.10	11.20	9.30	7.40
LT-8(65)	General	11.10	0.30	5.60	17.00	15.10	13.20	11.30
	Police	11.80	0.60	1.50	13.90	12.00	10.10	8.20
L-12	General	12.30	0.40	6.30	19.00	17.10	15.20	13.30
	Police	12.80	0.70	1.70	15.20	13.30	11.40	9.50
LT-14(65)	General	12.50	0.40	6.40	19.30	17.40	15.50	13.60
	Police	13.10	0.70	1.70	15.50	13.60	11.70	9.80
L-6	General	13.90	0.50	7.20	21.60	19.70	17.80	15.90
	Police	14.50	0.80	1.90	17.20	15.30	13.40	11.50

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

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

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

City of Byrnes Mill

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	\$ 27,776	\$ 22,797	\$ 17,819	\$ 12,840
L-3	34,327	29,348	24,370	19,391
LT-4(65)	30,135	25,156	20,177	15,198
LT-5(65)	36,162	31,183	26,204	21,225
L-7	40,354	35,375	30,397	25,418
LT-8(65)	41,664	36,686	31,707	26,728
L-12	46,905	41,926	36,948	31,969
LT-14(65)	47,429	42,450	37,472	32,493
L-6	53,456	48,477	43,499	38,520

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 28,562	\$ 23,584	\$ 18,605	\$ 13,626
L-3	35,113	30,135	25,156	20,177
LT-4(65)	31,183	26,204	21,225	16,246
LT-5(65)	37,210	32,231	27,252	22,273
L-7	41,664	36,686	31,707	26,728
LT-8(65)	42,713	37,734	32,755	27,776
L-12	48,477	43,499	38,520	33,541
LT-14(65)	49,001	44,023	39,044	34,065
L-6	55,028	50,050	45,071	40,092

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 28,562	\$ 23,584	\$ 18,605	\$ 13,626
L-3	35,375	30,397	25,418	20,439
LT-4(65)	31,969	26,990	22,011	17,033
LT-5(65)	37,996	33,017	28,038	23,060
L-7	41,664	36,686	31,707	26,728
LT-8(65)	43,237	38,258	33,279	28,300
L-12	48,215	43,237	38,258	33,279
LT-14(65)	49,264	44,285	39,306	34,327
L-6	55,028	50,050	45,071	40,092

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 29,348	\$ 24,370	\$ 19,391	\$ 14,412
L-3	36,162	31,183	26,204	21,225
LT-4(65)	33,017	28,038	23,060	18,081
LT-5(65)	38,782	33,803	28,824	23,846
L-7	42,975	37,996	33,017	28,038
LT-8(65)	44,547	39,568	34,589	29,611
L-12	49,788	44,809	39,830	34,851
LT-14(65)	50,574	45,595	40,616	35,637
L-6	56,601	51,622	46,643	41,664

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 Byrnes Mill

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	\$ 43,890	\$ 34,194	\$ 24,497	\$ 14,800
L-3	53,587	43,890	34,194	24,497
LT-4(65)	51,035	41,339	31,642	21,945
LT-5(65)	59,201	49,504	39,808	30,111
L-7	63,794	54,098	44,401	34,704
LT-8(65)	67,367	57,670	47,973	38,277
L-12	73,491	63,794	54,098	44,401
LT-14(65)	75,022	65,325	55,629	45,932
L-6	83,188	73,491	63,794	54,098

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 45,422	\$ 35,725	\$ 26,028	\$ 16,331
L-3	55,629	45,932	36,235	26,538
LT-4(65)	53,077	43,380	33,683	23,987
LT-5(65)	61,242	51,546	41,849	32,152
L-7	65,836	56,139	46,442	36,745
LT-8(65)	69,408	59,711	50,015	40,318
L-12	76,043	66,346	56,649	46,953
LT-14(65)	78,084	68,387	58,691	48,994
L-6	86,250	76,553	66,856	57,160

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 44,401	\$ 34,704	\$ 25,007	\$ 15,311
L-3	55,118	45,422	35,725	26,028
LT-4(65)	53,077	43,380	33,683	23,987
LT-5(65)	61,242	51,546	41,849	32,152
L-7	64,815	55,118	45,422	35,725
LT-8(65)	68,898	59,201	49,504	39,808
L-12	74,512	64,815	55,118	45,422
LT-14(65)	76,553	66,856	57,160	47,463
L-6	84,719	75,022	65,325	55,629

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 46,442	\$ 36,745	\$ 27,049	\$ 17,352
L-3	56,649	46,953	37,256	27,559
LT-4(65)	54,608	44,911	35,214	25,518
LT-5(65)	62,774	53,077	43,380	33,683
L-7	66,856	57,160	47,463	37,766
LT-8(65)	70,939	61,242	51,546	41,849
L-12	77,574	67,877	58,180	48,484
LT-14(65)	79,105	69,408	59,711	50,015
L-6	87,781	78,084	68,387	58,691

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 Byrnes Mill

Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	7	10
Annual Payroll	\$ 262,040	\$ 510,354

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 Byrnes Mill

Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 150,666	\$ 155,697
	Police	79,750	82,550
L-3	General	188,340	194,620
	Police	99,691	103,210
LT-4(65)	General	163,388	168,816
	Police	90,780	93,942
LT-5(65)	General	197,860	204,453
	Police	107,950	111,783
L-7	General	225,999	233,497
	Police	119,629	123,828
LT-8(65)	General	232,363	240,071
	Police	125,163	129,545
L-12	General	263,696	272,430
	Police	139,577	144,455
LT-14(65)	General	266,868	275,730
	Police	142,333	147,334
L-6	General	301,337	311,316
	Police	159,510	165,138

City of Byrnes Mill

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	\$ 156,198	\$ 161,461
	Police	80,484	83,332
L-3	General	195,250	201,809
	Police	100,602	104,143
LT-4(65)	General	176,598	182,560
	Police	92,653	95,911
LT-5(65)	General	210,536	217,652
	Police	109,726	113,599
L-7	General	234,299	242,188
	Police	120,698	124,947
LT-8(65)	General	244,503	252,739
	Police	126,801	131,275
L-12	General	273,351	282,561
	Police	140,846	145,777
LT-14(65)	General	278,446	287,847
	Police	143,894	148,948
L-6	General	312,408	322,912
	Police	160,940	166,661

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, 2022

(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	\$ 936	\$1,461	97%
2,000	700	1,073	1,773	89%
2,500	875	1,208	2,083	83%
3,000	1,050	1,343	2,393	80%
3,500	1,225	1,480	2,705	77%
4,000	1,400	1,614	3,014	75%
25 Years of Service:				
\$1,500	\$ 375	\$ 936	\$1,311	87%
2,000	500	1,073	1,573	79%
2,500	625	1,208	1,833	73%
3,000	750	1,343	2,093	70%
3,500	875	1,480	2,355	67%
4,000	1,000	1,614	2,614	65%
15 Years of Service:				
\$1,500	\$225	\$ 936	\$1,161	77%
2,000	300	1,073	1,373	69%
2,500	375	1,208	1,583	63%
3,000	450	1,343	1,793	60%
3,500	525	1,480	2,005	57%
4,000	600	1,614	2,214	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 2022 - 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	\$ 936	\$1,592	106%
2,000	875	1,073	1,948	97%
2,500	1,094	1,208	2,302	92%
3,000	1,313	1,343	2,656	89%
3,500	1,531	1,480	3,011	86%
4,000	1,750	1,614	3,364	84%
25 Years of Service:				
\$1,500	\$ 469	\$ 936	\$1,405	94%
2,000	625	1,073	1,698	85%
2,500	781	1,208	1,989	80%
3,000	938	1,343	2,281	76%
3,500	1,094	1,480	2,574	74%
4,000	1,250	1,614	2,864	72%
15 Years of Service:				
\$1,500	\$281	\$ 936	\$1,217	81%
2,000	375	1,073	1,448	72%
2,500	469	1,208	1,677	67%
3,000	563	1,343	1,906	64%
3,500	656	1,480	2,136	61%
4,000	750	1,614	2,364	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 2022 - 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	\$ 936	\$1,724	115%
2,000	1,050	1,073	2,123	106%
2,500	1,313	1,208	2,521	101%
3,000	1,575	1,343	2,918	97%
3,500	1,838	1,480	3,318	95%
4,000	2,100	1,614	3,714	93%
25 Years of Service:				
\$1,500	\$ 563	\$ 936	\$1,499	100%
2,000	750	1,073	1,823	91%
2,500	938	1,208	2,146	86%
3,000	1,125	1,343	2,468	82%
3,500	1,313	1,480	2,793	80%
4,000	1,500	1,614	3,114	78%
15 Years of Service:				
\$1,500	\$338	\$ 936	\$1,274	85%
2,000	450	1,073	1,523	76%
2,500	563	1,208	1,771	71%
3,000	675	1,343	2,018	67%
3,500	788	1,480	2,268	65%
4,000	900	1,614	2,514	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 2022 - 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	\$ 936	\$1,855	124%
2,000	1,225	1,073	2,298	115%
2,500	1,531	1,208	2,739	110%
3,000	1,838	1,343	3,181	106%
3,500	2,144	1,480	3,624	104%
4,000	2,450	1,614	4,064	102%
25 Years of Service:				
\$1,500	\$ 656	\$ 936	\$1,592	106%
2,000	875	1,073	1,948	97%
2,500	1,094	1,208	2,302	92%
3,000	1,313	1,343	2,656	89%
3,500	1,531	1,480	3,011	86%
4,000	1,750	1,614	3,364	84%
15 Years of Service:				
\$1,500	\$ 394	\$ 936	\$1,330	89%
2,000	525	1,073	1,598	80%
2,500	656	1,208	1,864	75%
3,000	788	1,343	2,131	71%
3,500	919	1,480	2,399	69%
4,000	1,050	1,614	2,664	67%

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 2022 - 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	\$ 936	\$1,986	132%
2,000	1,400	1,073	2,473	124%
2,500	1,750	1,208	2,958	118%
3,000	2,100	1,343	3,443	115%
3,500	2,450	1,480	3,930	112%
4,000	2,800	1,614	4,414	110%
25 Years of Service:				
\$1,500	\$ 750	\$ 936	\$1,686	112%
2,000	1,000	1,073	2,073	104%
2,500	1,250	1,208	2,458	98%
3,000	1,500	1,343	2,843	95%
3,500	1,750	1,480	3,230	92%
4,000	2,000	1,614	3,614	90%
15 Years of Service:				
\$1,500	\$ 450	\$ 936	\$1,386	92%
2,000	600	1,073	1,673	84%
2,500	750	1,208	1,958	78%
3,000	900	1,343	2,243	75%
3,500	1,050	1,480	2,530	72%
4,000	1,200	1,614	2,814	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 2022 - 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	\$ 936	\$1,050	\$1,461	70%	97%
2,000	1,400	700	1,073	1,400	1,773	70%	89%
2,500	1,750	875	1,208	1,750	2,083	70%	83%
3,000	2,100	1,050	1,343	2,100	2,393	70%	80%
3,500	2,450	1,225	1,480	2,450	2,705	70%	77%
4,000	2,800	1,400	1,614	2,800	3,014	70%	75%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 936	\$ 750	\$1,311	50%	87%
2,000	1,000	500	1,073	1,000	1,573	50%	79%
2,500	1,250	625	1,208	1,250	1,833	50%	73%
3,000	1,500	750	1,343	1,500	2,093	50%	70%
3,500	1,750	875	1,480	1,750	2,355	50%	67%
4,000	2,000	1,000	1,614	2,000	2,614	50%	65%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 936	\$ 450	\$1,161	30%	77%
2,000	600	300	1,073	600	1,373	30%	69%
2,500	750	375	1,208	750	1,583	30%	63%
3,000	900	450	1,343	900	1,793	30%	60%
3,500	1,050	525	1,480	1,050	2,005	30%	57%
4,000	1,200	600	1,614	1,200	2,214	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 2022 - 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 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	\$ 656	\$ 936	\$1,050	\$1,592	70%	106%
2,000	1,400	875	1,073	1,400	1,948	70%	97%
2,500	1,750	1,094	1,208	1,750	2,302	70%	92%
3,000	2,100	1,313	1,343	2,100	2,656	70%	89%
3,500	2,450	1,531	1,480	2,450	3,011	70%	86%
4,000	2,800	1,750	1,614	2,800	3,364	70%	84%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 936	\$ 750	\$1,405	50%	94%
2,000	1,000	625	1,073	1,000	1,698	50%	85%
2,500	1,250	781	1,208	1,250	1,989	50%	80%
3,000	1,500	938	1,343	1,500	2,281	50%	76%
3,500	1,750	1,094	1,480	1,750	2,574	50%	74%
4,000	2,000	1,250	1,614	2,000	2,864	50%	72%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 936	\$ 450	\$1,217	30%	81%
2,000	600	375	1,073	600	1,448	30%	72%
2,500	750	469	1,208	750	1,677	30%	67%
3,000	900	563	1,343	900	1,906	30%	64%
3,500	1,050	656	1,480	1,050	2,136	30%	61%
4,000	1,200	750	1,614	1,200	2,364	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 2022 - 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	\$ 936	\$1,050	\$1,724	70%	115%
2,000	1,400	1,050	1,073	1,400	2,123	70%	106%
2,500	1,750	1,313	1,208	1,750	2,521	70%	101%
3,000	2,100	1,575	1,343	2,100	2,918	70%	97%
3,500	2,450	1,838	1,480	2,450	3,318	70%	95%
4,000	2,800	2,100	1,614	2,800	3,714	70%	93%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 936	\$ 750	\$1,499	50%	100%
2,000	1,000	750	1,073	1,000	1,823	50%	91%
2,500	1,250	938	1,208	1,250	2,146	50%	86%
3,000	1,500	1,125	1,343	1,500	2,468	50%	82%
3,500	1,750	1,313	1,480	1,750	2,793	50%	80%
4,000	2,000	1,500	1,614	2,000	3,114	50%	78%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 936	\$ 450	\$1,274	30%	85%
2,000	600	450	1,073	600	1,523	30%	76%
2,500	750	563	1,208	750	1,771	30%	71%
3,000	900	675	1,343	900	2,018	30%	67%
3,500	1,050	788	1,480	1,050	2,268	30%	65%
4,000	1,200	900	1,614	1,200	2,514	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 2022 - 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	LAGERS		Estimated	Estimated		Percent	
Average	BENEFIT ³		Social	Monthly Total		of FAS	
Salary (FAS) ¹	To 65	At 65	Security ²	To 65	At 65	To 65	At 65
35 Years of Service:							
\$1,500	\$1,050	\$ 919	\$ 936	\$1,050	\$1,855	70%	124%
2,000	1,400	1,225	1,073	1,400	2,298	70%	115%
2,500	1,750	1,531	1,208	1,750	2,739	70%	110%
3,000	2,100	1,838	1,343	2,100	3,181	70%	106%
3,500	2,450	2,144	1,480	2,450	3,624	70%	104%
4,000	2,800	2,450	1,614	2,800	4,064	70%	102%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 936	\$ 750	\$1,592	50%	106%
2,000	1,000	875	1,073	1,000	1,948	50%	97%
2,500	1,250	1,094	1,208	1,250	2,302	50%	92%
3,000	1,500	1,313	1,343	1,500	2,656	50%	89%
3,500	1,750	1,531	1,480	1,750	3,011	50%	86%
4,000	2,000	1,750	1,614	2,000	3,364	50%	84%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 936	\$ 450	\$1,330	30%	89%
2,000	600	525	1,073	600	1,598	30%	80%
2,500	750	656	1,208	750	1,864	30%	75%
3,000	900	788	1,343	900	2,131	30%	71%
3,500	1,050	919	1,480	1,050	2,399	30%	69%
4,000	1,200	1,050	1,614	1,200	2,664	30%	67%

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 2022 - 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 Byrnes Mill - General

August 31, 2022

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		1						1	\$ 30,000
30-34		1						1	\$ 30,000
35-39									
40-44	1							1	\$ 39,000
45-49									
50-54	1							1	\$ 56,000
55-59		1						1	\$ 28,000
60-64			1					1	\$ 41,600
65-69	1							1	\$ 37,440
70 & Over									
Totals	3	3	1					7	\$ 262,040

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

Age: 47.9 years.

Benefit Service: 5.7 years.

Annual Pay: \$37,434.

City of Byrnes Mill - Police

August 31, 2022

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	1							1	\$ 46,009
25-29	3							3	\$ 130,789
30-34	3							3	\$ 152,958
35-39	1							1	\$ 49,489
40-44	1							1	\$ 49,109
45-49									
50-54									
55-59									
60-64	1							1	\$ 82,000
65-69									
70 & Over									
Totals	10							10	\$ 510,354

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

Age: 34.6 years.

Benefit Service: 1.5 years.

Annual Pay: \$51,035.

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.



October 25, 2022 E-mail

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

Dear Bob:

Enclosed is the report of the August 31, 2022 Initial Actuarial Valuation of LAGERS benefits for the employees of

City of Byrnes Mill

Sincerely,

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

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp



October 25, 2022

City of Byrnes Mill
Byrnes Mill, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the August 31, 2022 Initial Valuation for the City of Byrnes Mill dated October 25, 2022.

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, 2022. The unfunded actuarial accrued liability shown for each member contribution rate option is based on the 0% member contribution rate plan.

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

Respectfully submitted,
Gabriel, Roeder, Smith & Company

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

Mita D. Drazilov, ASA, FCA, MAAA

City of Byrnes Mill - 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
2022	\$ 262,040	10.6%	\$27,776	\$ 150,666	13.1%	\$34,327	\$ 188,340	11.5%	\$30,135	\$ 163,388
2023	269,246	10.6	28,540	152,111	13.1	35,271	190,147	11.5	30,963	164,955
2024	276,650	10.6	29,325	153,407	13.1	36,241	191,767	11.5	31,815	166,361
2025	284,258	10.6	30,131	154,537	13.1	37,238	193,179	11.5	32,690	167,586
2026	292,075	10.6	30,960	155,482	13.1	38,262	194,360	11.5	33,589	168,610
2027	300,107	10.6	31,811	156,221	13.1	39,314	195,284	11.5	34,512	169,412
2028	308,360	10.6	32,686	156,733	13.1	40,395	195,924	11.5	35,461	169,967
2029	316,840	10.6	33,585	156,994	13.1	41,506	196,250	11.5	36,437	170,250
2030	325,553	10.6	34,509	156,979	13.1	42,647	196,231	11.5	37,439	170,234
2031	334,506	10.6	35,458	156,660	13.1	43,820	195,832	11.5	38,468	169,888

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
2022	\$ 262,040	13.8%	\$36,162	\$ 197,860	15.4%	\$40,354	\$ 225,999	15.9%	\$41,664	\$ 232,363
2023	269,246	13.8	37,156	199,758	15.4	41,464	228,167	15.9	42,810	234,592
2024	276,650	13.8	38,178	201,460	15.4	42,604	230,111	15.9	43,987	236,591
2025	284,258	13.8	39,228	202,944	15.4	43,776	231,806	15.9	45,197	238,333
2026	292,075	13.8	40,306	204,184	15.4	44,980	233,223	15.9	46,440	239,790
2027	300,107	13.8	41,415	205,155	15.4	46,216	234,332	15.9	47,717	240,930
2028	308,360	13.8	42,554	205,827	15.4	47,487	235,100	15.9	49,029	241,720
2029	316,840	13.8	43,724	206,170	15.4	48,793	235,492	15.9	50,378	242,123
2030	325,553	13.8	44,926	206,150	15.4	50,135	235,469	15.9	51,763	242,100
2031	334,506	13.8	46,162	205,731	15.4	51,514	234,991	15.9	53,186	241,608

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
2022	\$ 262,040	17.9%	\$46,905	\$ 263,696	18.1%	\$47,429	\$ 266,868	20.4%	\$53,456	\$ 301,337
2023	269,246	17.9	48,195	266,226	18.1	48,734	269,428	20.4	54,926	304,228
2024	276,650	17.9	49,520	268,495	18.1	50,074	271,724	20.4	56,437	306,820
2025	284,258	17.9	50,882	270,472	18.1	51,451	273,725	20.4	57,989	309,079
2026	292,075	17.9	52,281	272,125	18.1	52,866	275,398	20.4	59,583	310,968
2027	300,107	17.9	53,719	273,419	18.1	54,319	276,707	20.4	61,222	312,446
2028	308,360	17.9	55,196	274,315	18.1	55,813	277,614	20.4	62,905	313,470
2029	316,840	17.9	56,714	274,772	18.1	57,348	278,077	20.4	64,635	313,992
2030	325,553	17.9	58,274	274,746	18.1	58,925	278,050	20.4	66,413	313,962
2031	334,506	17.9	59,877	274,188	18.1	60,546	277,485	20.4	68,239	313,324

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 Byrnes Mill - General

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

Regular 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	
2022	\$ 262,040	8.7%	\$22,797	\$ 150,666	11.2%	\$29,348	\$ 188,340	9.6%	\$25,156	\$ 163,388
2023	269,246	8.7	23,424	152,111	11.2	30,156	190,147	9.6	25,848	164,955
2024	276,650	8.7	24,069	153,407	11.2	30,985	191,767	9.6	26,558	166,361
2025	284,258	8.7	24,730	154,537	11.2	31,837	193,179	9.6	27,289	167,586
2026	292,075	8.7	25,411	155,482	11.2	32,712	194,360	9.6	28,039	168,610
2027	300,107	8.7	26,109	156,221	11.2	33,612	195,284	9.6	28,810	169,412
2028	308,360	8.7	26,827	156,733	11.2	34,536	195,924	9.6	29,603	169,967
2029	316,840	8.7	27,565	156,994	11.2	35,486	196,250	9.6	30,417	170,250
2030	325,553	8.7	28,323	156,979	11.2	36,462	196,231	9.6	31,253	170,234
2031	334,506	8.7	29,102	156,660	11.2	37,465	195,832	9.6	32,113	169,888

		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	
2022	\$ 262,040	11.9%	\$31,183	\$ 197,860	13.5%	\$35,375	\$ 225,999	14.0%	\$36,686	\$ 232,363
2023	269,246	11.9	32,040	199,758	13.5	36,348	228,167	14.0	37,694	234,592
2024	276,650	11.9	32,921	201,460	13.5	37,348	230,111	14.0	38,731	236,591
2025	284,258	11.9	33,827	202,944	13.5	38,375	231,806	14.0	39,796	238,333
2026	292,075	11.9	34,757	204,184	13.5	39,430	233,223	14.0	40,891	239,790
2027	300,107	11.9	35,713	205,155	13.5	40,514	234,332	14.0	42,015	240,930
2028	308,360	11.9	36,695	205,827	13.5	41,629	235,100	14.0	43,170	241,720
2029	316,840	11.9	37,704	206,170	13.5	42,773	235,492	14.0	44,358	242,123
2030	325,553	11.9	38,741	206,150	13.5	43,950	235,469	14.0	45,577	242,100
2031	334,506	11.9	39,806	205,731	13.5	45,158	234,991	14.0	46,831	241,608

		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	
2022	\$ 262,040	16.0%	\$41,926	\$ 263,696	16.2%	\$42,450	\$ 266,868	18.5%	\$48,477	\$ 301,337
2023	269,246	16.0	43,079	266,226	16.2	43,618	269,428	18.5	49,811	304,228
2024	276,650	16.0	44,264	268,495	16.2	44,817	271,724	18.5	51,180	306,820
2025	284,258	16.0	45,481	270,472	16.2	46,050	273,725	18.5	52,588	309,079
2026	292,075	16.0	46,732	272,125	16.2	47,316	275,398	18.5	54,034	310,968
2027	300,107	16.0	48,017	273,419	16.2	48,617	276,707	18.5	55,520	312,446
2028	308,360	16.0	49,338	274,315	16.2	49,954	277,614	18.5	57,047	313,470
2029	316,840	16.0	50,694	274,772	16.2	51,328	278,077	18.5	58,615	313,992
2030	325,553	16.0	52,088	274,746	16.2	52,740	278,050	18.5	60,227	313,962
2031	334,506	16.0	53,521	274,188	16.2	54,190	277,485	18.5	61,884	313,324

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 Byrnes Mill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2022	\$ 262,040	6.8%	\$17,819	\$ 150,666	9.3%	\$24,370	\$ 188,340	7.7%	\$20,177	\$ 163,388
2023	269,246	6.8	18,309	152,111	9.3	25,040	190,147	7.7	20,732	164,955
2024	276,650	6.8	18,812	153,407	9.3	25,728	191,767	7.7	21,302	166,361
2025	284,258	6.8	19,330	154,537	9.3	26,436	193,179	7.7	21,888	167,586
2026	292,075	6.8	19,861	155,482	9.3	27,163	194,360	7.7	22,490	168,610
2027	300,107	6.8	20,407	156,221	9.3	27,910	195,284	7.7	23,108	169,412
2028	308,360	6.8	20,968	156,733	9.3	28,677	195,924	7.7	23,744	169,967
2029	316,840	6.8	21,545	156,994	9.3	29,466	196,250	7.7	24,397	170,250
2030	325,553	6.8	22,138	156,979	9.3	30,276	196,231	7.7	25,068	170,234
2031	334,506	6.8	22,746	156,660	9.3	31,109	195,832	7.7	25,757	169,888

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	
2022	\$ 262,040	10.0%	\$26,204	\$ 197,860	11.6%	\$30,397	\$ 225,999	12.1%	\$31,707	\$ 232,363
2023	269,246	10.0	26,925	199,758	11.6	31,233	228,167	12.1	32,579	234,592
2024	276,650	10.0	27,665	201,460	11.6	32,091	230,111	12.1	33,475	236,591
2025	284,258	10.0	28,426	202,944	11.6	32,974	231,806	12.1	34,395	238,333
2026	292,075	10.0	29,208	204,184	11.6	33,881	233,223	12.1	35,341	239,790
2027	300,107	10.0	30,011	205,155	11.6	34,812	234,332	12.1	36,313	240,930
2028	308,360	10.0	30,836	205,827	11.6	35,770	235,100	12.1	37,312	241,720
2029	316,840	10.0	31,684	206,170	11.6	36,753	235,492	12.1	38,338	242,123
2030	325,553	10.0	32,555	206,150	11.6	37,764	235,469	12.1	39,392	242,100
2031	334,506	10.0	33,451	205,731	11.6	38,803	234,991	12.1	40,475	241,608

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	
2022	\$ 262,040	14.1%	\$36,948	\$ 263,696	14.3%	\$37,472	\$ 266,868	16.6%	\$43,499	\$ 301,337
2023	269,246	14.1	37,964	266,226	14.3	38,502	269,428	16.6	44,695	304,228
2024	276,650	14.1	39,008	268,495	14.3	39,561	271,724	16.6	45,924	306,820
2025	284,258	14.1	40,080	270,472	14.3	40,649	273,725	16.6	47,187	309,079
2026	292,075	14.1	41,183	272,125	14.3	41,767	275,398	16.6	48,484	310,968
2027	300,107	14.1	42,315	273,419	14.3	42,915	276,707	16.6	49,818	312,446
2028	308,360	14.1	43,479	274,315	14.3	44,095	277,614	16.6	51,188	313,470
2029	316,840	14.1	44,674	274,772	14.3	45,308	278,077	16.6	52,595	313,992
2030	325,553	14.1	45,903	274,746	14.3	46,554	278,050	16.6	54,042	313,962
2031	334,506	14.1	47,165	274,188	14.3	47,834	277,485	16.6	55,528	313,324

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 Byrnes Mill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 262,040	4.9%	\$12,840	\$ 150,666	7.4%	\$19,391	\$ 188,340	5.8%	\$15,198	\$ 163,388
2023	269,246	4.9	13,193	152,111	7.4	19,924	190,147	5.8	15,616	164,955
2024	276,650	4.9	13,556	153,407	7.4	20,472	191,767	5.8	16,046	166,361
2025	284,258	4.9	13,929	154,537	7.4	21,035	193,179	5.8	16,487	167,586
2026	292,075	4.9	14,312	155,482	7.4	21,614	194,360	5.8	16,940	168,610
2027	300,107	4.9	14,705	156,221	7.4	22,208	195,284	5.8	17,406	169,412
2028	308,360	4.9	15,110	156,733	7.4	22,819	195,924	5.8	17,885	169,967
2029	316,840	4.9	15,525	156,994	7.4	23,446	196,250	5.8	18,377	170,250
2030	325,553	4.9	15,952	156,979	7.4	24,091	196,231	5.8	18,882	170,234
2031	334,506	4.9	16,391	156,660	7.4	24,753	195,832	5.8	19,401	169,888

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
2022	\$ 262,040	8.1%	\$21,225	\$ 197,860	9.7%	\$25,418	\$ 225,999	10.2%	\$26,728	\$ 232,363
2023	269,246	8.1	21,809	199,758	9.7	26,117	228,167	10.2	27,463	234,592
2024	276,650	8.1	22,409	201,460	9.7	26,835	230,111	10.2	28,218	236,591
2025	284,258	8.1	23,025	202,944	9.7	27,573	231,806	10.2	28,994	238,333
2026	292,075	8.1	23,658	204,184	9.7	28,331	233,223	10.2	29,792	239,790
2027	300,107	8.1	24,309	205,155	9.7	29,110	234,332	10.2	30,611	240,930
2028	308,360	8.1	24,977	205,827	9.7	29,911	235,100	10.2	31,453	241,720
2029	316,840	8.1	25,664	206,170	9.7	30,733	235,492	10.2	32,318	242,123
2030	325,553	8.1	26,370	206,150	9.7	31,579	235,469	10.2	33,206	242,100
2031	334,506	8.1	27,095	205,731	9.7	32,447	234,991	10.2	34,120	241,608

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
2022	\$ 262,040	12.2%	\$31,969	\$ 263,696	12.4%	\$32,493	\$ 266,868	14.7%	\$38,520	\$ 301,337
2023	269,246	12.2	32,848	266,226	12.4	33,387	269,428	14.7	39,579	304,228
2024	276,650	12.2	33,751	268,495	12.4	34,305	271,724	14.7	40,668	306,820
2025	284,258	12.2	34,679	270,472	12.4	35,248	273,725	14.7	41,786	309,079
2026	292,075	12.2	35,633	272,125	12.4	36,217	275,398	14.7	42,935	310,968
2027	300,107	12.2	36,613	273,419	12.4	37,213	276,707	14.7	44,116	312,446
2028	308,360	12.2	37,620	274,315	12.4	38,237	277,614	14.7	45,329	313,470
2029	316,840	12.2	38,654	274,772	12.4	39,288	278,077	14.7	46,575	313,992
2030	325,553	12.2	39,717	274,746	12.4	40,369	278,050	14.7	47,856	313,962
2031	334,506	12.2	40,810	274,188	12.4	41,479	277,485	14.7	49,172	313,324

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 Byrnes Mill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 262,040	10.9%	\$28,562	\$ 155,697	13.4%	\$35,113	\$ 194,620	11.9%	\$31,183	\$ 168,816
2023	269,246	10.9	29,348	157,191	13.4	36,079	196,487	11.9	32,040	170,435
2024	276,650	10.9	30,155	158,530	13.4	37,071	198,161	11.9	32,921	171,887
2025	284,258	10.9	30,984	159,697	13.4	38,091	199,620	11.9	33,827	173,153
2026	292,075	10.9	31,836	160,673	13.4	39,138	200,840	11.9	34,757	174,211
2027	300,107	10.9	32,712	161,437	13.4	40,214	201,795	11.9	35,713	175,039
2028	308,360	10.9	33,611	161,966	13.4	41,320	202,456	11.9	36,695	175,613
2029	316,840	10.9	34,536	162,236	13.4	42,457	202,793	11.9	37,704	175,906
2030	325,553	10.9	35,485	162,220	13.4	43,624	202,773	11.9	38,741	175,889
2031	334,506	10.9	36,461	161,891	13.4	44,824	202,361	11.9	39,806	175,532

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
2022	\$ 262,040	14.2%	\$37,210	\$ 204,453	15.9%	\$41,664	\$ 233,497	16.3%	\$42,713	\$ 240,071
2023	269,246	14.2	38,233	206,414	15.9	42,810	235,737	16.3	43,887	242,374
2024	276,650	14.2	39,284	208,173	15.9	43,987	237,746	16.3	45,094	244,439
2025	284,258	14.2	40,365	209,706	15.9	45,197	239,497	16.3	46,334	246,239
2026	292,075	14.2	41,475	210,988	15.9	46,440	240,961	16.3	47,608	247,744
2027	300,107	14.2	42,615	211,991	15.9	47,717	242,107	16.3	48,917	248,922
2028	308,360	14.2	43,787	212,686	15.9	49,029	242,900	16.3	50,263	249,738
2029	316,840	14.2	44,991	213,040	15.9	50,378	243,305	16.3	51,645	250,154
2030	325,553	14.2	46,229	213,019	15.9	51,763	243,282	16.3	53,065	250,130
2031	334,506	14.2	47,500	212,586	15.9	53,186	242,788	16.3	54,524	249,622

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
2022	\$ 262,040	18.5%	\$48,477	\$ 272,430	18.7%	\$49,001	\$ 275,730	21.0%	\$55,028	\$ 311,316
2023	269,246	18.5	49,811	275,043	18.7	50,349	278,375	21.0	56,542	314,302
2024	276,650	18.5	51,180	277,387	18.7	51,734	280,747	21.0	58,097	316,980
2025	284,258	18.5	52,588	279,430	18.7	53,156	282,814	21.0	59,694	319,314
2026	292,075	18.5	54,034	281,138	18.7	54,618	284,543	21.0	61,336	321,266
2027	300,107	18.5	55,520	282,475	18.7	56,120	285,896	21.0	63,022	322,793
2028	308,360	18.5	57,047	283,401	18.7	57,663	286,833	21.0	64,756	323,851
2029	316,840	18.5	58,615	283,873	18.7	59,249	287,311	21.0	66,536	324,391
2030	325,553	18.5	60,227	283,846	18.7	60,878	287,283	21.0	68,366	324,360
2031	334,506	18.5	61,884	283,270	18.7	62,553	286,700	21.0	70,246	323,701

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 Byrnes Mill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 262,040	9.0%	\$23,584	\$ 155,697	11.5%	\$30,135	\$ 194,620	10.0%	\$26,204	\$ 168,816
2023	269,246	9.0	24,232	157,191	11.5	30,963	196,487	10.0	26,925	170,435
2024	276,650	9.0	24,899	158,530	11.5	31,815	198,161	10.0	27,665	171,887
2025	284,258	9.0	25,583	159,697	11.5	32,690	199,620	10.0	28,426	173,153
2026	292,075	9.0	26,287	160,673	11.5	33,589	200,840	10.0	29,208	174,211
2027	300,107	9.0	27,010	161,437	11.5	34,512	201,795	10.0	30,011	175,039
2028	308,360	9.0	27,752	161,966	11.5	35,461	202,456	10.0	30,836	175,613
2029	316,840	9.0	28,516	162,236	11.5	36,437	202,793	10.0	31,684	175,906
2030	325,553	9.0	29,300	162,220	11.5	37,439	202,773	10.0	32,555	175,889
2031	334,506	9.0	30,106	161,891	11.5	38,468	202,361	10.0	33,451	175,532

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
2022	\$ 262,040	12.3%	\$32,231	\$ 204,453	14.0%	\$36,686	\$ 233,497	14.4%	\$37,734	\$ 240,071
2023	269,246	12.3	33,117	206,414	14.0	37,694	235,737	14.4	38,771	242,374
2024	276,650	12.3	34,028	208,173	14.0	38,731	237,746	14.4	39,838	244,439
2025	284,258	12.3	34,964	209,706	14.0	39,796	239,497	14.4	40,933	246,239
2026	292,075	12.3	35,925	210,988	14.0	40,891	240,961	14.4	42,059	247,744
2027	300,107	12.3	36,913	211,991	14.0	42,015	242,107	14.4	43,215	248,922
2028	308,360	12.3	37,928	212,686	14.0	43,170	242,900	14.4	44,404	249,738
2029	316,840	12.3	38,971	213,040	14.0	44,358	243,305	14.4	45,625	250,154
2030	325,553	12.3	40,043	213,019	14.0	45,577	243,282	14.4	46,880	250,130
2031	334,506	12.3	41,144	212,586	14.0	46,831	242,788	14.4	48,169	249,622

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
2022	\$ 262,040	16.6%	\$43,499	\$ 272,430	16.8%	\$44,023	\$ 275,730	19.1%	\$50,050	\$ 311,316
2023	269,246	16.6	44,695	275,043	16.8	45,233	278,375	19.1	51,426	314,302
2024	276,650	16.6	45,924	277,387	16.8	46,477	280,747	19.1	52,840	316,980
2025	284,258	16.6	47,187	279,430	16.8	47,755	282,814	19.1	54,293	319,314
2026	292,075	16.6	48,484	281,138	16.8	49,069	284,543	19.1	55,786	321,266
2027	300,107	16.6	49,818	282,475	16.8	50,418	285,896	19.1	57,320	322,793
2028	308,360	16.6	51,188	283,401	16.8	51,804	286,833	19.1	58,897	323,851
2029	316,840	16.6	52,595	283,873	16.8	53,229	287,311	19.1	60,516	324,391
2030	325,553	16.6	54,042	283,846	16.8	54,693	287,283	19.1	62,181	324,360
2031	334,506	16.6	55,528	283,270	16.8	56,197	286,700	19.1	63,891	323,701

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 Byrnes Mill - 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	
2022	\$ 262,040	7.1%	\$18,605	\$ 155,697	9.6%	\$25,156	\$ 194,620	8.1%	\$21,225	\$ 168,816
2023	269,246	7.1	19,116	157,191	9.6	25,848	196,487	8.1	21,809	170,435
2024	276,650	7.1	19,642	158,530	9.6	26,558	198,161	8.1	22,409	171,887
2025	284,258	7.1	20,182	159,697	9.6	27,289	199,620	8.1	23,025	173,153
2026	292,075	7.1	20,737	160,673	9.6	28,039	200,840	8.1	23,658	174,211
2027	300,107	7.1	21,308	161,437	9.6	28,810	201,795	8.1	24,309	175,039
2028	308,360	7.1	21,894	161,966	9.6	29,603	202,456	8.1	24,977	175,613
2029	316,840	7.1	22,496	162,236	9.6	30,417	202,793	8.1	25,664	175,906
2030	325,553	7.1	23,114	162,220	9.6	31,253	202,773	8.1	26,370	175,889
2031	334,506	7.1	23,750	161,891	9.6	32,113	202,361	8.1	27,095	175,532

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	
2022	\$ 262,040	10.4%	\$27,252	\$ 204,453	12.1%	\$31,707	\$ 233,497	12.5%	\$32,755	\$ 240,071
2023	269,246	10.4	28,002	206,414	12.1	32,579	235,737	12.5	33,656	242,374
2024	276,650	10.4	28,772	208,173	12.1	33,475	237,746	12.5	34,581	244,439
2025	284,258	10.4	29,563	209,706	12.1	34,395	239,497	12.5	35,532	246,239
2026	292,075	10.4	30,376	210,988	12.1	35,341	240,961	12.5	36,509	247,744
2027	300,107	10.4	31,211	211,991	12.1	36,313	242,107	12.5	37,513	248,922
2028	308,360	10.4	32,069	212,686	12.1	37,312	242,900	12.5	38,545	249,738
2029	316,840	10.4	32,951	213,040	12.1	38,338	243,305	12.5	39,605	250,154
2030	325,553	10.4	33,858	213,019	12.1	39,392	243,282	12.5	40,694	250,130
2031	334,506	10.4	34,789	212,586	12.1	40,475	242,788	12.5	41,813	249,622

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	
2022	\$ 262,040	14.7%	\$38,520	\$ 272,430	14.9%	\$39,044	\$ 275,730	17.2%	\$45,071	\$ 311,316
2023	269,246	14.7	39,579	275,043	14.9	40,118	278,375	17.2	46,310	314,302
2024	276,650	14.7	40,668	277,387	14.9	41,221	280,747	17.2	47,584	316,980
2025	284,258	14.7	41,786	279,430	14.9	42,354	282,814	17.2	48,892	319,314
2026	292,075	14.7	42,935	281,138	14.9	43,519	284,543	17.2	50,237	321,266
2027	300,107	14.7	44,116	282,475	14.9	44,716	285,896	17.2	51,618	322,793
2028	308,360	14.7	45,329	283,401	14.9	45,946	286,833	17.2	53,038	323,851
2029	316,840	14.7	46,575	283,873	14.9	47,209	287,311	17.2	54,496	324,391
2030	325,553	14.7	47,856	283,846	14.9	48,507	287,283	17.2	55,995	324,360
2031	334,506	14.7	49,172	283,270	14.9	49,841	286,700	17.2	57,535	323,701

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 Byrnes Mill - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 262,040	5.2%	\$13,626	\$ 155,697	7.7%	\$20,177	\$ 194,620	6.2%	\$16,246	\$ 168,816
2023	269,246	5.2	14,001	157,191	7.7	20,732	196,487	6.2	16,693	170,435
2024	276,650	5.2	14,386	158,530	7.7	21,302	198,161	6.2	17,152	171,887
2025	284,258	5.2	14,781	159,697	7.7	21,888	199,620	6.2	17,624	173,153
2026	292,075	5.2	15,188	160,673	7.7	22,490	200,840	6.2	18,109	174,211
2027	300,107	5.2	15,606	161,437	7.7	23,108	201,795	6.2	18,607	175,039
2028	308,360	5.2	16,035	161,966	7.7	23,744	202,456	6.2	19,118	175,613
2029	316,840	5.2	16,476	162,236	7.7	24,397	202,793	6.2	19,644	175,906
2030	325,553	5.2	16,929	162,220	7.7	25,068	202,773	6.2	20,184	175,889
2031	334,506	5.2	17,394	161,891	7.7	25,757	202,361	6.2	20,739	175,532

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
2022	\$ 262,040	8.5%	\$22,273	\$ 204,453	10.2%	\$26,728	\$ 233,497	10.6%	\$27,776	\$ 240,071
2023	269,246	8.5	22,886	206,414	10.2	27,463	235,737	10.6	28,540	242,374
2024	276,650	8.5	23,515	208,173	10.2	28,218	237,746	10.6	29,325	244,439
2025	284,258	8.5	24,162	209,706	10.2	28,994	239,497	10.6	30,131	246,239
2026	292,075	8.5	24,826	210,988	10.2	29,792	240,961	10.6	30,960	247,744
2027	300,107	8.5	25,509	211,991	10.2	30,611	242,107	10.6	31,811	248,922
2028	308,360	8.5	26,211	212,686	10.2	31,453	242,900	10.6	32,686	249,738
2029	316,840	8.5	26,931	213,040	10.2	32,318	243,305	10.6	33,585	250,154
2030	325,553	8.5	27,672	213,019	10.2	33,206	243,282	10.6	34,509	250,130
2031	334,506	8.5	28,433	212,586	10.2	34,120	242,788	10.6	35,458	249,622

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
2022	\$ 262,040	12.8%	\$33,541	\$ 272,430	13.0%	\$34,065	\$ 275,730	15.3%	\$40,092	\$ 311,316
2023	269,246	12.8	34,463	275,043	13.0	35,002	278,375	15.3	41,195	314,302
2024	276,650	12.8	35,411	277,387	13.0	35,965	280,747	15.3	42,327	316,980
2025	284,258	12.8	36,385	279,430	13.0	36,954	282,814	15.3	43,491	319,314
2026	292,075	12.8	37,386	281,138	13.0	37,970	284,543	15.3	44,687	321,266
2027	300,107	12.8	38,414	282,475	13.0	39,014	285,896	15.3	45,916	322,793
2028	308,360	12.8	39,470	283,401	13.0	40,087	286,833	15.3	47,179	323,851
2029	316,840	12.8	40,556	283,873	13.0	41,189	287,311	15.3	48,477	324,391
2030	325,553	12.8	41,671	283,846	13.0	42,322	287,283	15.3	49,810	324,360
2031	334,506	12.8	42,817	283,270	13.0	43,486	286,700	15.3	51,179	323,701

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 Byrnes Mill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2022	\$ 262,040	10.9%	\$28,562	\$ 156,198	13.5%	\$35,375	\$ 195,250	12.2%	\$31,969	\$ 176,598
2023	269,246	10.9	29,348	157,696	13.5	36,348	197,123	12.2	32,848	178,292
2024	276,650	10.9	30,155	159,040	13.5	37,348	198,803	12.2	33,751	179,811
2025	284,258	10.9	30,984	160,211	13.5	38,375	200,267	12.2	34,679	181,135
2026	292,075	10.9	31,836	161,190	13.5	39,430	201,491	12.2	35,633	182,242
2027	300,107	10.9	32,712	161,956	13.5	40,514	202,449	12.2	36,613	183,108
2028	308,360	10.9	33,611	162,487	13.5	41,629	203,112	12.2	37,620	183,708
2029	316,840	10.9	34,536	162,758	13.5	42,773	203,450	12.2	38,654	184,014
2030	325,553	10.9	35,485	162,742	13.5	43,950	203,430	12.2	39,717	183,996
2031	334,506	10.9	36,461	162,411	13.5	45,158	203,017	12.2	40,810	183,622

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	
2022	\$ 262,040	14.5%	\$37,996	\$ 210,536	15.9%	\$41,664	\$ 234,299	16.5%	\$43,237	\$ 244,503
2023	269,246	14.5	39,041	212,556	15.9	42,810	236,547	16.5	44,426	246,848
2024	276,650	14.5	40,114	214,367	15.9	43,987	238,563	16.5	45,647	248,951
2025	284,258	14.5	41,217	215,946	15.9	45,197	240,320	16.5	46,903	250,784
2026	292,075	14.5	42,351	217,266	15.9	46,440	241,789	16.5	48,192	252,317
2027	300,107	14.5	43,516	218,299	15.9	47,717	242,939	16.5	49,518	253,517
2028	308,360	14.5	44,712	219,014	15.9	49,029	243,735	16.5	50,879	254,348
2029	316,840	14.5	45,942	219,379	15.9	50,378	244,141	16.5	52,279	254,772
2030	325,553	14.5	47,205	219,358	15.9	51,763	244,118	16.5	53,716	254,747
2031	334,506	14.5	48,503	218,913	15.9	53,186	243,622	16.5	55,193	254,230

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	
2022	\$ 262,040	18.4%	\$48,215	\$ 273,351	18.8%	\$49,264	\$ 278,446	21.0%	\$55,028	\$ 312,408
2023	269,246	18.4	49,541	275,973	18.8	50,618	281,117	21.0	56,542	315,405
2024	276,650	18.4	50,904	278,325	18.8	52,010	283,512	21.0	58,097	318,093
2025	284,258	18.4	52,303	280,375	18.8	53,441	285,600	21.0	59,694	320,436
2026	292,075	18.4	53,742	282,089	18.8	54,910	287,346	21.0	61,336	322,395
2027	300,107	18.4	55,220	283,430	18.8	56,420	288,712	21.0	63,022	323,928
2028	308,360	18.4	56,738	284,359	18.8	57,972	289,658	21.0	64,756	324,990
2029	316,840	18.4	58,299	284,833	18.8	59,566	290,141	21.0	66,536	325,531
2030	325,553	18.4	59,902	284,806	18.8	61,204	290,113	21.0	68,366	325,500
2031	334,506	18.4	61,549	284,228	18.8	62,887	289,524	21.0	70,246	324,839

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 Byrnes Mill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 262,040	9.0%	\$23,584	\$ 156,198	11.6%	\$30,397	\$ 195,250	10.3%	\$26,990	\$ 176,598
2023	269,246	9.0	24,232	157,696	11.6	31,233	197,123	10.3	27,732	178,292
2024	276,650	9.0	24,899	159,040	11.6	32,091	198,803	10.3	28,495	179,811
2025	284,258	9.0	25,583	160,211	11.6	32,974	200,267	10.3	29,279	181,135
2026	292,075	9.0	26,287	161,190	11.6	33,881	201,491	10.3	30,084	182,242
2027	300,107	9.0	27,010	161,956	11.6	34,812	202,449	10.3	30,911	183,108
2028	308,360	9.0	27,752	162,487	11.6	35,770	203,112	10.3	31,761	183,708
2029	316,840	9.0	28,516	162,758	11.6	36,753	203,450	10.3	32,635	184,014
2030	325,553	9.0	29,300	162,742	11.6	37,764	203,430	10.3	33,532	183,996
2031	334,506	9.0	30,106	162,411	11.6	38,803	203,017	10.3	34,454	183,622

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
2022	\$ 262,040	12.6%	\$33,017	\$ 210,536	14.0%	\$36,686	\$ 234,299	14.6%	\$38,258	\$ 244,503
2023	269,246	12.6	33,925	212,556	14.0	37,694	236,547	14.6	39,310	246,848
2024	276,650	12.6	34,858	214,367	14.0	38,731	238,563	14.6	40,391	248,951
2025	284,258	12.6	35,817	215,946	14.0	39,796	240,320	14.6	41,502	250,784
2026	292,075	12.6	36,801	217,266	14.0	40,891	241,789	14.6	42,643	252,317
2027	300,107	12.6	37,813	218,299	14.0	42,015	242,939	14.6	43,816	253,517
2028	308,360	12.6	38,853	219,014	14.0	43,170	243,735	14.6	45,021	254,348
2029	316,840	12.6	39,922	219,379	14.0	44,358	244,141	14.6	46,259	254,772
2030	325,553	12.6	41,020	219,358	14.0	45,577	244,118	14.6	47,531	254,747
2031	334,506	12.6	42,148	218,913	14.0	46,831	243,622	14.6	48,838	254,230

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
2022	\$ 262,040	16.5%	\$43,237	\$ 273,351	16.9%	\$44,285	\$ 278,446	19.1%	\$50,050	\$ 312,408
2023	269,246	16.5	44,426	275,973	16.9	45,503	281,117	19.1	51,426	315,405
2024	276,650	16.5	45,647	278,325	16.9	46,754	283,512	19.1	52,840	318,093
2025	284,258	16.5	46,903	280,375	16.9	48,040	285,600	19.1	54,293	320,436
2026	292,075	16.5	48,192	282,089	16.9	49,361	287,346	19.1	55,786	322,395
2027	300,107	16.5	49,518	283,430	16.9	50,718	288,712	19.1	57,320	323,928
2028	308,360	16.5	50,879	284,359	16.9	52,113	289,658	19.1	58,897	324,990
2029	316,840	16.5	52,279	284,833	16.9	53,546	290,141	19.1	60,516	325,531
2030	325,553	16.5	53,716	284,806	16.9	55,018	290,113	19.1	62,181	325,500
2031	334,506	16.5	55,193	284,228	16.9	56,532	289,524	19.1	63,891	324,839

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 Byrnes Mill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 262,040	7.1%	\$18,605	\$ 156,198	9.7%	\$25,418	\$ 195,250	8.4%	\$22,011	\$ 176,598
2023	269,246	7.1	19,116	157,696	9.7	26,117	197,123	8.4	22,617	178,292
2024	276,650	7.1	19,642	159,040	9.7	26,835	198,803	8.4	23,239	179,811
2025	284,258	7.1	20,182	160,211	9.7	27,573	200,267	8.4	23,878	181,135
2026	292,075	7.1	20,737	161,190	9.7	28,331	201,491	8.4	24,534	182,242
2027	300,107	7.1	21,308	161,956	9.7	29,110	202,449	8.4	25,209	183,108
2028	308,360	7.1	21,894	162,487	9.7	29,911	203,112	8.4	25,902	183,708
2029	316,840	7.1	22,496	162,758	9.7	30,733	203,450	8.4	26,615	184,014
2030	325,553	7.1	23,114	162,742	9.7	31,579	203,430	8.4	27,346	183,996
2031	334,506	7.1	23,750	162,411	9.7	32,447	203,017	8.4	28,099	183,622

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
2022	\$ 262,040	10.7%	\$28,038	\$ 210,536	12.1%	\$31,707	\$ 234,299	12.7%	\$33,279	\$ 244,503
2023	269,246	10.7	28,809	212,556	12.1	32,579	236,547	12.7	34,194	246,848
2024	276,650	10.7	29,602	214,367	12.1	33,475	238,563	12.7	35,135	248,951
2025	284,258	10.7	30,416	215,946	12.1	34,395	240,320	12.7	36,101	250,784
2026	292,075	10.7	31,252	217,266	12.1	35,341	241,789	12.7	37,094	252,317
2027	300,107	10.7	32,111	218,299	12.1	36,313	242,939	12.7	38,114	253,517
2028	308,360	10.7	32,995	219,014	12.1	37,312	243,735	12.7	39,162	254,348
2029	316,840	10.7	33,902	219,379	12.1	38,338	244,141	12.7	40,239	254,772
2030	325,553	10.7	34,834	219,358	12.1	39,392	244,118	12.7	41,345	254,747
2031	334,506	10.7	35,792	218,913	12.1	40,475	243,622	12.7	42,482	254,230

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
2022	\$ 262,040	14.6%	\$38,258	\$ 273,351	15.0%	\$39,306	\$ 278,446	17.2%	\$45,071	\$ 312,408
2023	269,246	14.6	39,310	275,973	15.0	40,387	281,117	17.2	46,310	315,405
2024	276,650	14.6	40,391	278,325	15.0	41,498	283,512	17.2	47,584	318,093
2025	284,258	14.6	41,502	280,375	15.0	42,639	285,600	17.2	48,892	320,436
2026	292,075	14.6	42,643	282,089	15.0	43,811	287,346	17.2	50,237	322,395
2027	300,107	14.6	43,816	283,430	15.0	45,016	288,712	17.2	51,618	323,928
2028	308,360	14.6	45,021	284,359	15.0	46,254	289,658	17.2	53,038	324,990
2029	316,840	14.6	46,259	284,833	15.0	47,526	290,141	17.2	54,496	325,531
2030	325,553	14.6	47,531	284,806	15.0	48,833	290,113	17.2	55,995	325,500
2031	334,506	14.6	48,838	284,228	15.0	50,176	289,524	17.2	57,535	324,839

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 Byrnes Mill - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2022	\$ 262,040	5.2%	\$13,626	\$ 156,198	7.8%	\$20,439	\$ 195,250	6.5%	\$17,033	\$ 176,598
2023	269,246	5.2	14,001	157,696	7.8	21,001	197,123	6.5	17,501	178,292
2024	276,650	5.2	14,386	159,040	7.8	21,579	198,803	6.5	17,982	179,811
2025	284,258	5.2	14,781	160,211	7.8	22,172	200,267	6.5	18,477	181,135
2026	292,075	5.2	15,188	161,190	7.8	22,782	201,491	6.5	18,985	182,242
2027	300,107	5.2	15,606	161,956	7.8	23,408	202,449	6.5	19,507	183,108
2028	308,360	5.2	16,035	162,487	7.8	24,052	203,112	6.5	20,043	183,708
2029	316,840	5.2	16,476	162,758	7.8	24,714	203,450	6.5	20,595	184,014
2030	325,553	5.2	16,929	162,742	7.8	25,393	203,430	6.5	21,161	183,996
2031	334,506	5.2	17,394	162,411	7.8	26,091	203,017	6.5	21,743	183,622

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	
2022	\$ 262,040	8.8%	\$23,060	\$ 210,536	10.2%	\$26,728	\$ 234,299	10.8%	\$28,300	\$ 244,503
2023	269,246	8.8	23,694	212,556	10.2	27,463	236,547	10.8	29,079	246,848
2024	276,650	8.8	24,345	214,367	10.2	28,218	238,563	10.8	29,878	248,951
2025	284,258	8.8	25,015	215,946	10.2	28,994	240,320	10.8	30,700	250,784
2026	292,075	8.8	25,703	217,266	10.2	29,792	241,789	10.8	31,544	252,317
2027	300,107	8.8	26,409	218,299	10.2	30,611	242,939	10.8	32,412	253,517
2028	308,360	8.8	27,136	219,014	10.2	31,453	243,735	10.8	33,303	254,348
2029	316,840	8.8	27,882	219,379	10.2	32,318	244,141	10.8	34,219	254,772
2030	325,553	8.8	28,649	219,358	10.2	33,206	244,118	10.8	35,160	254,747
2031	334,506	8.8	29,437	218,913	10.2	34,120	243,622	10.8	36,127	254,230

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	
2022	\$ 262,040	12.7%	\$33,279	\$ 273,351	13.1%	\$34,327	\$ 278,446	15.3%	\$40,092	\$ 312,408
2023	269,246	12.7	34,194	275,973	13.1	35,271	281,117	15.3	41,195	315,405
2024	276,650	12.7	35,135	278,325	13.1	36,241	283,512	15.3	42,327	318,093
2025	284,258	12.7	36,101	280,375	13.1	37,238	285,600	15.3	43,491	320,436
2026	292,075	12.7	37,094	282,089	13.1	38,262	287,346	15.3	44,687	322,395
2027	300,107	12.7	38,114	283,430	13.1	39,314	288,712	15.3	45,916	323,928
2028	308,360	12.7	39,162	284,359	13.1	40,395	289,658	15.3	47,179	324,990
2029	316,840	12.7	40,239	284,833	13.1	41,506	290,141	15.3	48,477	325,531
2030	325,553	12.7	41,345	284,806	13.1	42,647	290,113	15.3	49,810	325,500
2031	334,506	12.7	42,482	284,228	13.1	43,820	289,524	15.3	51,179	324,839

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 Byrnes Mill - 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
2022	\$ 262,040	11.2%	\$29,348	\$ 161,461	13.8%	\$36,162	\$ 201,809	12.6%	\$33,017	\$ 182,560
2023	269,246	11.2	30,156	163,010	13.8	37,156	203,745	12.6	33,925	184,311
2024	276,650	11.2	30,985	164,399	13.8	38,178	205,481	12.6	34,858	185,882
2025	284,258	11.2	31,837	165,610	13.8	39,228	206,994	12.6	35,817	187,251
2026	292,075	11.2	32,712	166,622	13.8	40,306	208,259	12.6	36,801	188,396
2027	300,107	11.2	33,612	167,414	13.8	41,415	209,249	12.6	37,813	189,292
2028	308,360	11.2	34,536	167,963	13.8	42,554	209,935	12.6	38,853	189,912
2029	316,840	11.2	35,486	168,243	13.8	43,724	210,285	12.6	39,922	190,228
2030	325,553	11.2	36,462	168,227	13.8	44,926	210,265	12.6	41,020	190,210
2031	334,506	11.2	37,465	167,885	13.8	46,162	209,838	12.6	42,148	189,824

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
2022	\$ 262,040	14.8%	\$38,782	\$ 217,652	16.4%	\$42,975	\$ 242,188	17.0%	\$44,547	\$ 252,739
2023	269,246	14.8	39,848	219,740	16.4	44,156	244,511	17.0	45,772	255,163
2024	276,650	14.8	40,944	221,612	16.4	45,371	246,595	17.0	47,031	257,337
2025	284,258	14.8	42,070	223,244	16.4	46,618	248,411	17.0	48,324	259,232
2026	292,075	14.8	43,227	224,609	16.4	47,900	249,929	17.0	49,653	260,816
2027	300,107	14.8	44,416	225,677	16.4	49,218	251,117	17.0	51,018	262,056
2028	308,360	14.8	45,637	226,417	16.4	50,571	251,940	17.0	52,421	262,915
2029	316,840	14.8	46,892	226,794	16.4	51,962	252,360	17.0	53,863	263,353
2030	325,553	14.8	48,182	226,772	16.4	53,391	252,336	17.0	55,344	263,328
2031	334,506	14.8	49,507	226,311	16.4	54,859	251,824	17.0	56,866	262,793

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
2022	\$ 262,040	19.0%	\$49,788	\$ 282,561	19.3%	\$50,574	\$ 287,847	21.6%	\$56,601	\$ 322,912
2023	269,246	19.0	51,157	285,272	19.3	51,964	290,608	21.6	58,157	326,010
2024	276,650	19.0	52,564	287,703	19.3	53,393	293,084	21.6	59,756	328,788
2025	284,258	19.0	54,009	289,822	19.3	54,862	295,242	21.6	61,400	331,209
2026	292,075	19.0	55,494	291,593	19.3	56,370	297,047	21.6	63,088	333,233
2027	300,107	19.0	57,020	292,979	19.3	57,921	298,459	21.6	64,823	334,817
2028	308,360	19.0	58,588	293,939	19.3	59,513	299,437	21.6	66,606	335,914
2029	316,840	19.0	60,200	294,429	19.3	61,150	299,936	21.6	68,437	336,474
2030	325,553	19.0	61,855	294,401	19.3	62,832	299,907	21.6	70,319	336,442
2031	334,506	19.0	63,556	293,803	19.3	64,560	299,298	21.6	72,253	335,759

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 Byrnes Mill - 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
2022	\$ 262,040	9.3%	\$24,370	\$ 161,461	11.9%	\$31,183	\$ 201,809	10.7%	\$28,038	\$ 182,560
2023	269,246	9.3	25,040	163,010	11.9	32,040	203,745	10.7	28,809	184,311
2024	276,650	9.3	25,728	164,399	11.9	32,921	205,481	10.7	29,602	185,882
2025	284,258	9.3	26,436	165,610	11.9	33,827	206,994	10.7	30,416	187,251
2026	292,075	9.3	27,163	166,622	11.9	34,757	208,259	10.7	31,252	188,396
2027	300,107	9.3	27,910	167,414	11.9	35,713	209,249	10.7	32,111	189,292
2028	308,360	9.3	28,677	167,963	11.9	36,695	209,935	10.7	32,995	189,912
2029	316,840	9.3	29,466	168,243	11.9	37,704	210,285	10.7	33,902	190,228
2030	325,553	9.3	30,276	168,227	11.9	38,741	210,265	10.7	34,834	190,210
2031	334,506	9.3	31,109	167,885	11.9	39,806	209,838	10.7	35,792	189,824

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
2022	\$ 262,040	12.9%	\$33,803	\$ 217,652	14.5%	\$37,996	\$ 242,188	15.1%	\$39,568	\$ 252,739
2023	269,246	12.9	34,733	219,740	14.5	39,041	244,511	15.1	40,656	255,163
2024	276,650	12.9	35,688	221,612	14.5	40,114	246,595	15.1	41,774	257,337
2025	284,258	12.9	36,669	223,244	14.5	41,217	248,411	15.1	42,923	259,232
2026	292,075	12.9	37,678	224,609	14.5	42,351	249,929	15.1	44,103	260,816
2027	300,107	12.9	38,714	225,677	14.5	43,516	251,117	15.1	45,316	262,056
2028	308,360	12.9	39,778	226,417	14.5	44,712	251,940	15.1	46,562	262,915
2029	316,840	12.9	40,872	226,794	14.5	45,942	252,360	15.1	47,843	263,353
2030	325,553	12.9	41,996	226,772	14.5	47,205	252,336	15.1	49,159	263,328
2031	334,506	12.9	43,151	226,311	14.5	48,503	251,824	15.1	50,510	262,793

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
2022	\$ 262,040	17.1%	\$44,809	\$ 282,561	17.4%	\$45,595	\$ 287,847	19.7%	\$51,622	\$ 322,912
2023	269,246	17.1	46,041	285,272	17.4	46,849	290,608	19.7	53,041	326,010
2024	276,650	17.1	47,307	287,703	17.4	48,137	293,084	19.7	54,500	328,788
2025	284,258	17.1	48,608	289,822	17.4	49,461	295,242	19.7	55,999	331,209
2026	292,075	17.1	49,945	291,593	17.4	50,821	297,047	19.7	57,539	333,233
2027	300,107	17.1	51,318	292,979	17.4	52,219	298,459	19.7	59,121	334,817
2028	308,360	17.1	52,730	293,939	17.4	53,655	299,437	19.7	60,747	335,914
2029	316,840	17.1	54,180	294,429	17.4	55,130	299,936	19.7	62,417	336,474
2030	325,553	17.1	55,670	294,401	17.4	56,646	299,907	19.7	64,134	336,442
2031	334,506	17.1	57,201	293,803	17.4	58,204	299,298	19.7	65,898	335,759

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 Byrnes Mill - 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
2022	\$ 262,040	7.4%	\$19,391	\$ 161,461	10.0%	\$26,204	\$ 201,809	8.8%	\$23,060	\$ 182,560
2023	269,246	7.4	19,924	163,010	10.0	26,925	203,745	8.8	23,694	184,311
2024	276,650	7.4	20,472	164,399	10.0	27,665	205,481	8.8	24,345	185,882
2025	284,258	7.4	21,035	165,610	10.0	28,426	206,994	8.8	25,015	187,251
2026	292,075	7.4	21,614	166,622	10.0	29,208	208,259	8.8	25,703	188,396
2027	300,107	7.4	22,208	167,414	10.0	30,011	209,249	8.8	26,409	189,292
2028	308,360	7.4	22,819	167,963	10.0	30,836	209,935	8.8	27,136	189,912
2029	316,840	7.4	23,446	168,243	10.0	31,684	210,285	8.8	27,882	190,228
2030	325,553	7.4	24,091	168,227	10.0	32,555	210,265	8.8	28,649	190,210
2031	334,506	7.4	24,753	167,885	10.0	33,451	209,838	8.8	29,437	189,824

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
2022	\$ 262,040	11.0%	\$28,824	\$ 217,652	12.6%	\$33,017	\$ 242,188	13.2%	\$34,589	\$ 252,739
2023	269,246	11.0	29,617	219,740	12.6	33,925	244,511	13.2	35,540	255,163
2024	276,650	11.0	30,432	221,612	12.6	34,858	246,595	13.2	36,518	257,337
2025	284,258	11.0	31,268	223,244	12.6	35,817	248,411	13.2	37,522	259,232
2026	292,075	11.0	32,128	224,609	12.6	36,801	249,929	13.2	38,554	260,816
2027	300,107	11.0	33,012	225,677	12.6	37,813	251,117	13.2	39,614	262,056
2028	308,360	11.0	33,920	226,417	12.6	38,853	251,940	13.2	40,704	262,915
2029	316,840	11.0	34,852	226,794	12.6	39,922	252,360	13.2	41,823	263,353
2030	325,553	11.0	35,811	226,772	12.6	41,020	252,336	13.2	42,973	263,328
2031	334,506	11.0	36,796	226,311	12.6	42,148	251,824	13.2	44,155	262,793

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
2022	\$ 262,040	15.2%	\$39,830	\$ 282,561	15.5%	\$40,616	\$ 287,847	17.8%	\$46,643	\$ 322,912
2023	269,246	15.2	40,925	285,272	15.5	41,733	290,608	17.8	47,926	326,010
2024	276,650	15.2	42,051	287,703	15.5	42,881	293,084	17.8	49,244	328,788
2025	284,258	15.2	43,207	289,822	15.5	44,060	295,242	17.8	50,598	331,209
2026	292,075	15.2	44,395	291,593	15.5	45,272	297,047	17.8	51,989	333,233
2027	300,107	15.2	45,616	292,979	15.5	46,517	298,459	17.8	53,419	334,817
2028	308,360	15.2	46,871	293,939	15.5	47,796	299,437	17.8	54,888	335,914
2029	316,840	15.2	48,160	294,429	15.5	49,110	299,936	17.8	56,398	336,474
2030	325,553	15.2	49,484	294,401	15.5	50,461	299,907	17.8	57,948	336,442
2031	334,506	15.2	50,845	293,803	15.5	51,848	299,298	17.8	59,542	335,759

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 Byrnes Mill - 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
2022	\$ 262,040	5.5%	\$14,412	\$ 161,461	8.1%	\$21,225	\$ 201,809	6.9%	\$18,081	\$ 182,560
2023	269,246	5.5	14,809	163,010	8.1	21,809	203,745	6.9	18,578	184,311
2024	276,650	5.5	15,216	164,399	8.1	22,409	205,481	6.9	19,089	185,882
2025	284,258	5.5	15,634	165,610	8.1	23,025	206,994	6.9	19,614	187,251
2026	292,075	5.5	16,064	166,622	8.1	23,658	208,259	6.9	20,153	188,396
2027	300,107	5.5	16,506	167,414	8.1	24,309	209,249	6.9	20,707	189,292
2028	308,360	5.5	16,960	167,963	8.1	24,977	209,935	6.9	21,277	189,912
2029	316,840	5.5	17,426	168,243	8.1	25,664	210,285	6.9	21,862	190,228
2030	325,553	5.5	17,905	168,227	8.1	26,370	210,265	6.9	22,463	190,210
2031	334,506	5.5	18,398	167,885	8.1	27,095	209,838	6.9	23,081	189,824

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
2022	\$ 262,040	9.1%	\$23,846	\$ 217,652	10.7%	\$28,038	\$ 242,188	11.3%	\$29,611	\$ 252,739
2023	269,246	9.1	24,501	219,740	10.7	28,809	244,511	11.3	30,425	255,163
2024	276,650	9.1	25,175	221,612	10.7	29,602	246,595	11.3	31,261	257,337
2025	284,258	9.1	25,867	223,244	10.7	30,416	248,411	11.3	32,121	259,232
2026	292,075	9.1	26,579	224,609	10.7	31,252	249,929	11.3	33,004	260,816
2027	300,107	9.1	27,310	225,677	10.7	32,111	251,117	11.3	33,912	262,056
2028	308,360	9.1	28,061	226,417	10.7	32,995	251,940	11.3	34,845	262,915
2029	316,840	9.1	28,832	226,794	10.7	33,902	252,360	11.3	35,803	263,353
2030	325,553	9.1	29,625	226,772	10.7	34,834	252,336	11.3	36,787	263,328
2031	334,506	9.1	30,440	226,311	10.7	35,792	251,824	11.3	37,799	262,793

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
2022	\$ 262,040	13.3%	\$34,851	\$ 282,561	13.6%	\$35,637	\$ 287,847	15.9%	\$41,664	\$ 322,912
2023	269,246	13.3	35,810	285,272	13.6	36,617	290,608	15.9	42,810	326,010
2024	276,650	13.3	36,794	287,703	13.6	37,624	293,084	15.9	43,987	328,788
2025	284,258	13.3	37,806	289,822	13.6	38,659	295,242	15.9	45,197	331,209
2026	292,075	13.3	38,846	291,593	13.6	39,722	297,047	15.9	46,440	333,233
2027	300,107	13.3	39,914	292,979	13.6	40,815	298,459	15.9	47,717	334,817
2028	308,360	13.3	41,012	293,939	13.6	41,937	299,437	15.9	49,029	335,914
2029	316,840	13.3	42,140	294,429	13.6	43,090	299,936	15.9	50,378	336,474
2030	325,553	13.3	43,299	294,401	13.6	44,275	299,907	15.9	51,763	336,442
2031	334,506	13.3	44,489	293,803	13.6	45,493	299,298	15.9	53,186	335,759

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 Byrnes Mill - 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
2022	\$ 510,354	8.6%	\$43,890	\$ 79,750	10.5%	\$53,587	\$ 99,691	10.0%	\$51,035	\$ 90,780
2023	524,389	8.6	45,097	80,515	10.5	55,061	100,647	10.0	52,439	91,651
2024	538,810	8.6	46,338	81,201	10.5	56,575	101,505	10.0	53,881	92,432
2025	553,627	8.6	47,612	81,799	10.5	58,131	102,253	10.0	55,363	93,113
2026	568,852	8.6	48,921	82,299	10.5	59,729	102,878	10.0	56,885	93,682
2027	584,495	8.6	50,267	82,690	10.5	61,372	103,367	10.0	58,450	94,127
2028	600,569	8.6	51,649	82,961	10.5	63,060	103,706	10.0	60,057	94,435
2029	617,085	8.6	53,069	83,099	10.5	64,794	103,879	10.0	61,709	94,592
2030	634,055	8.6	54,529	83,091	10.5	66,576	103,869	10.0	63,406	94,583
2031	651,492	8.6	56,028	82,922	10.5	68,407	103,658	10.0	65,149	94,391

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
2022	\$ 510,354	11.6%	\$59,201	\$ 107,950	12.5%	\$63,794	\$ 119,629	13.2%	\$67,367	\$ 125,163
2023	524,389	11.6	60,829	108,986	12.5	65,549	120,777	13.2	69,219	126,364
2024	538,810	11.6	62,502	109,915	12.5	67,351	121,806	13.2	71,123	127,441
2025	553,627	11.6	64,221	110,724	12.5	69,203	122,703	13.2	73,079	128,380
2026	568,852	11.6	65,987	111,401	12.5	71,107	123,453	13.2	75,088	129,165
2027	584,495	11.6	67,801	111,931	12.5	73,062	124,040	13.2	77,153	129,779
2028	600,569	11.6	69,666	112,298	12.5	75,071	124,446	13.2	79,275	130,204
2029	617,085	11.6	71,582	112,485	12.5	77,136	124,653	13.2	81,455	130,421
2030	634,055	11.6	73,550	112,474	12.5	79,257	124,641	13.2	83,695	130,408
2031	651,492	11.6	75,573	112,246	12.5	81,437	124,388	13.2	85,997	130,143

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
2022	\$ 510,354	14.4%	\$73,491	\$ 139,577	14.7%	\$75,022	\$ 142,333	16.3%	\$83,188	\$ 159,510
2023	524,389	14.4	75,512	140,916	14.7	77,085	143,698	16.3	85,475	161,040
2024	538,810	14.4	77,589	142,117	14.7	79,205	144,922	16.3	87,826	162,412
2025	553,627	14.4	79,722	143,164	14.7	81,383	145,989	16.3	90,241	163,608
2026	568,852	14.4	81,915	144,039	14.7	83,621	146,881	16.3	92,723	164,608
2027	584,495	14.4	84,167	144,724	14.7	85,921	147,579	16.3	95,273	165,391
2028	600,569	14.4	86,482	145,198	14.7	88,284	148,063	16.3	97,893	165,933
2029	617,085	14.4	88,860	145,440	14.7	90,711	148,310	16.3	100,585	166,209
2030	634,055	14.4	91,304	145,426	14.7	93,206	148,296	16.3	103,351	166,193
2031	651,492	14.4	93,815	145,131	14.7	95,769	147,995	16.3	106,193	165,855

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 Byrnes Mill - 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
2022	\$ 510,354	6.7%	\$34,194	\$ 79,750	8.6%	\$43,890	\$ 99,691	8.1%	\$41,339	\$ 90,780
2023	524,389	6.7	35,134	80,515	8.6	45,097	100,647	8.1	42,476	91,651
2024	538,810	6.7	36,100	81,201	8.6	46,338	101,505	8.1	43,644	92,432
2025	553,627	6.7	37,093	81,799	8.6	47,612	102,253	8.1	44,844	93,113
2026	568,852	6.7	38,113	82,299	8.6	48,921	102,878	8.1	46,077	93,682
2027	584,495	6.7	39,161	82,690	8.6	50,267	103,367	8.1	47,344	94,127
2028	600,569	6.7	40,238	82,961	8.6	51,649	103,706	8.1	48,646	94,435
2029	617,085	6.7	41,345	83,099	8.6	53,069	103,879	8.1	49,984	94,592
2030	634,055	6.7	42,482	83,091	8.6	54,529	103,869	8.1	51,358	94,583
2031	651,492	6.7	43,650	82,922	8.6	56,028	103,658	8.1	52,771	94,391

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
2022	\$ 510,354	9.7%	\$49,504	\$ 107,950	10.6%	\$54,098	\$ 119,629	11.3%	\$57,670	\$ 125,163
2023	524,389	9.7	50,866	108,986	10.6	55,585	120,777	11.3	59,256	126,364
2024	538,810	9.7	52,265	109,915	10.6	57,114	121,806	11.3	60,886	127,441
2025	553,627	9.7	53,702	110,724	10.6	58,684	122,703	11.3	62,560	128,380
2026	568,852	9.7	55,179	111,401	10.6	60,298	123,453	11.3	64,280	129,165
2027	584,495	9.7	56,696	111,931	10.6	61,956	124,040	11.3	66,048	129,779
2028	600,569	9.7	58,255	112,298	10.6	63,660	124,446	11.3	67,864	130,204
2029	617,085	9.7	59,857	112,485	10.6	65,411	124,653	11.3	69,731	130,421
2030	634,055	9.7	61,503	112,474	10.6	67,210	124,641	11.3	71,648	130,408
2031	651,492	9.7	63,195	112,246	10.6	69,058	124,388	11.3	73,619	130,143

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
2022	\$ 510,354	12.5%	\$63,794	\$ 139,577	12.8%	\$65,325	\$ 142,333	14.4%	\$73,491	\$ 159,510
2023	524,389	12.5	65,549	140,916	12.8	67,122	143,698	14.4	75,512	161,040
2024	538,810	12.5	67,351	142,117	12.8	68,968	144,922	14.4	77,589	162,412
2025	553,627	12.5	69,203	143,164	12.8	70,864	145,989	14.4	79,722	163,608
2026	568,852	12.5	71,107	144,039	12.8	72,813	146,881	14.4	81,915	164,608
2027	584,495	12.5	73,062	144,724	12.8	74,815	147,579	14.4	84,167	165,391
2028	600,569	12.5	75,071	145,198	12.8	76,873	148,063	14.4	86,482	165,933
2029	617,085	12.5	77,136	145,440	12.8	78,987	148,310	14.4	88,860	166,209
2030	634,055	12.5	79,257	145,426	12.8	81,159	148,296	14.4	91,304	166,193
2031	651,492	12.5	81,437	145,131	12.8	83,391	147,995	14.4	93,815	165,855

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 Byrnes Mill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	4.8%	\$24,497	\$ 79,750	6.7%	\$34,194	\$ 99,691	6.2%	\$31,642	\$ 90,780
2023	524,389	4.8	25,171	80,515	6.7	35,134	100,647	6.2	32,512	91,651
2024	538,810	4.8	25,863	81,201	6.7	36,100	101,505	6.2	33,406	92,432
2025	553,627	4.8	26,574	81,799	6.7	37,093	102,253	6.2	34,325	93,113
2026	568,852	4.8	27,305	82,299	6.7	38,113	102,878	6.2	35,269	93,682
2027	584,495	4.8	28,056	82,690	6.7	39,161	103,367	6.2	36,239	94,127
2028	600,569	4.8	28,827	82,961	6.7	40,238	103,706	6.2	37,235	94,435
2029	617,085	4.8	29,620	83,099	6.7	41,345	103,879	6.2	38,259	94,592
2030	634,055	4.8	30,435	83,091	6.7	42,482	103,869	6.2	39,311	94,583
2031	651,492	4.8	31,272	82,922	6.7	43,650	103,658	6.2	40,393	94,391

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
2022	\$ 510,354	7.8%	\$39,808	\$ 107,950	8.7%	\$44,401	\$ 119,629	9.4%	\$47,973	\$ 125,163
2023	524,389	7.8	40,902	108,986	8.7	45,622	120,777	9.4	49,293	126,364
2024	538,810	7.8	42,027	109,915	8.7	46,876	121,806	9.4	50,648	127,441
2025	553,627	7.8	43,183	110,724	8.7	48,166	122,703	9.4	52,041	128,380
2026	568,852	7.8	44,370	111,401	8.7	49,490	123,453	9.4	53,472	129,165
2027	584,495	7.8	45,591	111,931	8.7	50,851	124,040	9.4	54,943	129,779
2028	600,569	7.8	46,844	112,298	8.7	52,250	124,446	9.4	56,453	130,204
2029	617,085	7.8	48,133	112,485	8.7	53,686	124,653	9.4	58,006	130,421
2030	634,055	7.8	49,456	112,474	8.7	55,163	124,641	9.4	59,601	130,408
2031	651,492	7.8	50,816	112,246	8.7	56,680	124,388	9.4	61,240	130,143

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
2022	\$ 510,354	10.6%	\$54,098	\$ 139,577	10.9%	\$55,629	\$ 142,333	12.5%	\$63,794	\$ 159,510
2023	524,389	10.6	55,585	140,916	10.9	57,158	143,698	12.5	65,549	161,040
2024	538,810	10.6	57,114	142,117	10.9	58,730	144,922	12.5	67,351	162,412
2025	553,627	10.6	58,684	143,164	10.9	60,345	145,989	12.5	69,203	163,608
2026	568,852	10.6	60,298	144,039	10.9	62,005	146,881	12.5	71,107	164,608
2027	584,495	10.6	61,956	144,724	10.9	63,710	147,579	12.5	73,062	165,391
2028	600,569	10.6	63,660	145,198	10.9	65,462	148,063	12.5	75,071	165,933
2029	617,085	10.6	65,411	145,440	10.9	67,262	148,310	12.5	77,136	166,209
2030	634,055	10.6	67,210	145,426	10.9	69,112	148,296	12.5	79,257	166,193
2031	651,492	10.6	69,058	145,131	10.9	71,013	147,995	12.5	81,437	165,855

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 Byrnes Mill - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	2.9%	\$14,800	\$ 79,750	4.8%	\$24,497	\$ 99,691	4.3%	\$21,945	\$ 90,780
2023	524,389	2.9	15,207	80,515	4.8	25,171	100,647	4.3	22,549	91,651
2024	538,810	2.9	15,625	81,201	4.8	25,863	101,505	4.3	23,169	92,432
2025	553,627	2.9	16,055	81,799	4.8	26,574	102,253	4.3	23,806	93,113
2026	568,852	2.9	16,497	82,299	4.8	27,305	102,878	4.3	24,461	93,682
2027	584,495	2.9	16,950	82,690	4.8	28,056	103,367	4.3	25,133	94,127
2028	600,569	2.9	17,417	82,961	4.8	28,827	103,706	4.3	25,824	94,435
2029	617,085	2.9	17,895	83,099	4.8	29,620	103,879	4.3	26,535	94,592
2030	634,055	2.9	18,388	83,091	4.8	30,435	103,869	4.3	27,264	94,583
2031	651,492	2.9	18,893	82,922	4.8	31,272	103,658	4.3	28,014	94,391

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
2022	\$ 510,354	5.9%	\$30,111	\$ 107,950	6.8%	\$34,704	\$ 119,629	7.5%	\$38,277	\$ 125,163
2023	524,389	5.9	30,939	108,986	6.8	35,658	120,777	7.5	39,329	126,364
2024	538,810	5.9	31,790	109,915	6.8	36,639	121,806	7.5	40,411	127,441
2025	553,627	5.9	32,664	110,724	6.8	37,647	122,703	7.5	41,522	128,380
2026	568,852	5.9	33,562	111,401	6.8	38,682	123,453	7.5	42,664	129,165
2027	584,495	5.9	34,485	111,931	6.8	39,746	124,040	7.5	43,837	129,779
2028	600,569	5.9	35,434	112,298	6.8	40,839	124,446	7.5	45,043	130,204
2029	617,085	5.9	36,408	112,485	6.8	41,962	124,653	7.5	46,281	130,421
2030	634,055	5.9	37,409	112,474	6.8	43,116	124,641	7.5	47,554	130,408
2031	651,492	5.9	38,438	112,246	6.8	44,301	124,388	7.5	48,862	130,143

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
2022	\$ 510,354	8.7%	\$44,401	\$ 139,577	9.0%	\$45,932	\$ 142,333	10.6%	\$54,098	\$ 159,510
2023	524,389	8.7	45,622	140,916	9.0	47,195	143,698	10.6	55,585	161,040
2024	538,810	8.7	46,876	142,117	9.0	48,493	144,922	10.6	57,114	162,412
2025	553,627	8.7	48,166	143,164	9.0	49,826	145,989	10.6	58,684	163,608
2026	568,852	8.7	49,490	144,039	9.0	51,197	146,881	10.6	60,298	164,608
2027	584,495	8.7	50,851	144,724	9.0	52,605	147,579	10.6	61,956	165,391
2028	600,569	8.7	52,250	145,198	9.0	54,051	148,063	10.6	63,660	165,933
2029	617,085	8.7	53,686	145,440	9.0	55,538	148,310	10.6	65,411	166,209
2030	634,055	8.7	55,163	145,426	9.0	57,065	148,296	10.6	67,210	166,193
2031	651,492	8.7	56,680	145,131	9.0	58,634	147,995	10.6	69,058	165,855

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 Byrnes Mill - 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
2022	\$ 510,354	8.9%	\$45,422	\$ 82,550	10.9%	\$55,629	\$ 103,210	10.4%	\$53,077	\$ 93,942
2023	524,389	8.9	46,671	83,342	10.9	57,158	104,200	10.4	54,536	94,843
2024	538,810	8.9	47,954	84,052	10.9	58,730	105,088	10.4	56,036	95,651
2025	553,627	8.9	49,273	84,671	10.9	60,345	105,862	10.4	57,577	96,355
2026	568,852	8.9	50,628	85,189	10.9	62,005	106,509	10.4	59,161	96,944
2027	584,495	8.9	52,020	85,594	10.9	63,710	107,015	10.4	60,787	97,405
2028	600,569	8.9	53,451	85,874	10.9	65,462	107,366	10.4	62,459	97,724
2029	617,085	8.9	54,921	86,017	10.9	67,262	107,545	10.4	64,177	97,887
2030	634,055	8.9	56,431	86,009	10.9	69,112	107,535	10.4	65,942	97,878
2031	651,492	8.9	57,983	85,834	10.9	71,013	107,317	10.4	67,755	97,679

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
2022	\$ 510,354	12.0%	\$61,242	\$ 111,783	12.9%	\$65,836	\$ 123,828	13.6%	\$69,408	\$ 129,545
2023	524,389	12.0	62,927	112,855	12.9	67,646	125,016	13.6	71,317	130,788
2024	538,810	12.0	64,657	113,817	12.9	69,506	126,081	13.6	73,278	131,902
2025	553,627	12.0	66,435	114,655	12.9	71,418	127,009	13.6	75,293	132,873
2026	568,852	12.0	68,262	115,356	12.9	73,382	127,785	13.6	77,364	133,685
2027	584,495	12.0	70,139	115,904	12.9	75,400	128,393	13.6	79,491	134,321
2028	600,569	12.0	72,068	116,284	12.9	77,473	128,814	13.6	81,677	134,761
2029	617,085	12.0	74,050	116,478	12.9	79,604	129,029	13.6	83,924	134,986
2030	634,055	12.0	76,087	116,467	12.9	81,793	129,017	13.6	86,231	134,973
2031	651,492	12.0	78,179	116,230	12.9	84,042	128,755	13.6	88,603	134,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	14.9%	\$76,043	\$ 144,455	15.3%	\$78,084	\$ 147,334	16.9%	\$86,250	\$ 165,138
2023	524,389	14.9	78,134	145,841	15.3	80,232	148,747	16.9	88,622	166,722
2024	538,810	14.9	80,283	147,084	15.3	82,438	150,014	16.9	91,059	168,143
2025	553,627	14.9	82,490	148,167	15.3	84,705	151,119	16.9	93,563	169,381
2026	568,852	14.9	84,759	149,073	15.3	87,034	152,043	16.9	96,136	170,416
2027	584,495	14.9	87,090	149,782	15.3	89,428	152,766	16.9	98,780	171,226
2028	600,569	14.9	89,485	150,273	15.3	91,887	153,267	16.9	101,496	171,787
2029	617,085	14.9	91,946	150,523	15.3	94,414	153,522	16.9	104,287	172,073
2030	634,055	14.9	94,474	150,509	15.3	97,010	153,507	16.9	107,155	172,056
2031	651,492	14.9	97,072	150,203	15.3	99,678	153,195	16.9	110,102	171,707

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 Byrnes Mill - 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
2022	\$ 510,354	7.0%	\$35,725	\$ 82,550	9.0%	\$45,932	\$ 103,210	8.5%	\$43,380	\$ 93,942
2023	524,389	7.0	36,707	83,342	9.0	47,195	104,200	8.5	44,573	94,843
2024	538,810	7.0	37,717	84,052	9.0	48,493	105,088	8.5	45,799	95,651
2025	553,627	7.0	38,754	84,671	9.0	49,826	105,862	8.5	47,058	96,355
2026	568,852	7.0	39,820	85,189	9.0	51,197	106,509	8.5	48,352	96,944
2027	584,495	7.0	40,915	85,594	9.0	52,605	107,015	8.5	49,682	97,405
2028	600,569	7.0	42,040	85,874	9.0	54,051	107,366	8.5	51,048	97,724
2029	617,085	7.0	43,196	86,017	9.0	55,538	107,545	8.5	52,452	97,887
2030	634,055	7.0	44,384	86,009	9.0	57,065	107,535	8.5	53,895	97,878
2031	651,492	7.0	45,604	85,834	9.0	58,634	107,317	8.5	55,377	97,679

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
2022	\$ 510,354	10.1%	\$51,546	\$ 111,783	11.0%	\$56,139	\$ 123,828	11.7%	\$59,711	\$ 129,545
2023	524,389	10.1	52,963	112,855	11.0	57,683	125,016	11.7	61,354	130,788
2024	538,810	10.1	54,420	113,817	11.0	59,269	126,081	11.7	63,041	131,902
2025	553,627	10.1	55,916	114,655	11.0	60,899	127,009	11.7	64,774	132,873
2026	568,852	10.1	57,454	115,356	11.0	62,574	127,785	11.7	66,556	133,685
2027	584,495	10.1	59,034	115,904	11.0	64,294	128,393	11.7	68,386	134,321
2028	600,569	10.1	60,657	116,284	11.0	66,063	128,814	11.7	70,267	134,761
2029	617,085	10.1	62,326	116,478	11.0	67,879	129,029	11.7	72,199	134,986
2030	634,055	10.1	64,040	116,467	11.0	69,746	129,017	11.7	74,184	134,973
2031	651,492	10.1	65,801	116,230	11.0	71,664	128,755	11.7	76,225	134,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	13.0%	\$66,346	\$ 144,455	13.4%	\$68,387	\$ 147,334	15.0%	\$76,553	\$ 165,138
2023	524,389	13.0	68,171	145,841	13.4	70,268	148,747	15.0	78,658	166,722
2024	538,810	13.0	70,045	147,084	13.4	72,201	150,014	15.0	80,822	168,143
2025	553,627	13.0	71,972	148,167	13.4	74,186	151,119	15.0	83,044	169,381
2026	568,852	13.0	73,951	149,073	13.4	76,226	152,043	15.0	85,328	170,416
2027	584,495	13.0	75,984	149,782	13.4	78,322	152,766	15.0	87,674	171,226
2028	600,569	13.0	78,074	150,273	13.4	80,476	153,267	15.0	90,085	171,787
2029	617,085	13.0	80,221	150,523	13.4	82,689	153,522	15.0	92,563	172,073
2030	634,055	13.0	82,427	150,509	13.4	84,963	153,507	15.0	95,108	172,056
2031	651,492	13.0	84,694	150,203	13.4	87,300	153,195	15.0	97,724	171,707

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 Byrnes Mill - 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
2022	\$ 510,354	5.1%	\$26,028	\$ 82,550	7.1%	\$36,235	\$ 103,210	6.6%	\$33,683	\$ 93,942
2023	524,389	5.1	26,744	83,342	7.1	37,232	104,200	6.6	34,610	94,843
2024	538,810	5.1	27,479	84,052	7.1	38,256	105,088	6.6	35,561	95,651
2025	553,627	5.1	28,235	84,671	7.1	39,308	105,862	6.6	36,539	96,355
2026	568,852	5.1	29,011	85,189	7.1	40,388	106,509	6.6	37,544	96,944
2027	584,495	5.1	29,809	85,594	7.1	41,499	107,015	6.6	38,577	97,405
2028	600,569	5.1	30,629	85,874	7.1	42,640	107,366	6.6	39,638	97,724
2029	617,085	5.1	31,471	86,017	7.1	43,813	107,545	6.6	40,728	97,887
2030	634,055	5.1	32,337	86,009	7.1	45,018	107,535	6.6	41,848	97,878
2031	651,492	5.1	33,226	85,834	7.1	46,256	107,317	6.6	42,998	97,679

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
2022	\$ 510,354	8.2%	\$41,849	\$ 111,783	9.1%	\$46,442	\$ 123,828	9.8%	\$50,015	\$ 129,545
2023	524,389	8.2	43,000	112,855	9.1	47,719	125,016	9.8	51,390	130,788
2024	538,810	8.2	44,182	113,817	9.1	49,032	126,081	9.8	52,803	131,902
2025	553,627	8.2	45,397	114,655	9.1	50,380	127,009	9.8	54,255	132,873
2026	568,852	8.2	46,646	115,356	9.1	51,766	127,785	9.8	55,747	133,685
2027	584,495	8.2	47,929	115,904	9.1	53,189	128,393	9.8	57,281	134,321
2028	600,569	8.2	49,247	116,284	9.1	54,652	128,814	9.8	58,856	134,761
2029	617,085	8.2	50,601	116,478	9.1	56,155	129,029	9.8	60,474	134,986
2030	634,055	8.2	51,993	116,467	9.1	57,699	129,017	9.8	62,137	134,973
2031	651,492	8.2	53,422	116,230	9.1	59,286	128,755	9.8	63,846	134,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	11.1%	\$56,649	\$ 144,455	11.5%	\$58,691	\$ 147,334	13.1%	\$66,856	\$ 165,138
2023	524,389	11.1	58,207	145,841	11.5	60,305	148,747	13.1	68,695	166,722
2024	538,810	11.1	59,808	147,084	11.5	61,963	150,014	13.1	70,584	168,143
2025	553,627	11.1	61,453	148,167	11.5	63,667	151,119	13.1	72,525	169,381
2026	568,852	11.1	63,143	149,073	11.5	65,418	152,043	13.1	74,520	170,416
2027	584,495	11.1	64,879	149,782	11.5	67,217	152,766	13.1	76,569	171,226
2028	600,569	11.1	66,663	150,273	11.5	69,065	153,267	13.1	78,675	171,787
2029	617,085	11.1	68,496	150,523	11.5	70,965	153,522	13.1	80,838	172,073
2030	634,055	11.1	70,380	150,509	11.5	72,916	153,507	13.1	83,061	172,056
2031	651,492	11.1	72,316	150,203	11.5	74,922	153,195	13.1	85,345	171,707

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 Byrnes Mill - 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
2022	\$ 510,354	3.2%	\$16,331	\$ 82,550	5.2%	\$26,538	\$ 103,210	4.7%	\$23,987	\$ 93,942
2023	524,389	3.2	16,780	83,342	5.2	27,268	104,200	4.7	24,646	94,843
2024	538,810	3.2	17,242	84,052	5.2	28,018	105,088	4.7	25,324	95,651
2025	553,627	3.2	17,716	84,671	5.2	28,789	105,862	4.7	26,020	96,355
2026	568,852	3.2	18,203	85,189	5.2	29,580	106,509	4.7	26,736	96,944
2027	584,495	3.2	18,704	85,594	5.2	30,394	107,015	4.7	27,471	97,405
2028	600,569	3.2	19,218	85,874	5.2	31,230	107,366	4.7	28,227	97,724
2029	617,085	3.2	19,747	86,017	5.2	32,088	107,545	4.7	29,003	97,887
2030	634,055	3.2	20,290	86,009	5.2	32,971	107,535	4.7	29,801	97,878
2031	651,492	3.2	20,848	85,834	5.2	33,878	107,317	4.7	30,620	97,679

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
2022	\$ 510,354	6.3%	\$32,152	\$ 111,783	7.2%	\$36,745	\$ 123,828	7.9%	\$40,318	\$ 129,545
2023	524,389	6.3	33,037	112,855	7.2	37,756	125,016	7.9	41,427	130,788
2024	538,810	6.3	33,945	113,817	7.2	38,794	126,081	7.9	42,566	131,902
2025	553,627	6.3	34,879	114,655	7.2	39,861	127,009	7.9	43,737	132,873
2026	568,852	6.3	35,838	115,356	7.2	40,957	127,785	7.9	44,939	133,685
2027	584,495	6.3	36,823	115,904	7.2	42,084	128,393	7.9	46,175	134,321
2028	600,569	6.3	37,836	116,284	7.2	43,241	128,814	7.9	47,445	134,761
2029	617,085	6.3	38,876	116,478	7.2	44,430	129,029	7.9	48,750	134,986
2030	634,055	6.3	39,945	116,467	7.2	45,652	129,017	7.9	50,090	134,973
2031	651,492	6.3	41,044	116,230	7.2	46,907	128,755	7.9	51,468	134,699

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	9.2%	\$46,953	\$ 144,455	9.6%	\$48,994	\$ 147,334	11.2%	\$57,160	\$ 165,138
2023	524,389	9.2	48,244	145,841	9.6	50,341	148,747	11.2	58,732	166,722
2024	538,810	9.2	49,571	147,084	9.6	51,726	150,014	11.2	60,347	168,143
2025	553,627	9.2	50,934	148,167	9.6	53,148	151,119	11.2	62,006	169,381
2026	568,852	9.2	52,334	149,073	9.6	54,610	152,043	11.2	63,711	170,416
2027	584,495	9.2	53,774	149,782	9.6	56,112	152,766	11.2	65,463	171,226
2028	600,569	9.2	55,252	150,273	9.6	57,655	153,267	11.2	67,264	171,787
2029	617,085	9.2	56,772	150,523	9.6	59,240	153,522	11.2	69,114	172,073
2030	634,055	9.2	58,333	150,509	9.6	60,869	153,507	11.2	71,014	172,056
2031	651,492	9.2	59,937	150,203	9.6	62,543	153,195	11.2	72,967	171,707

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 Byrnes Mill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	8.7%	\$44,401	\$ 80,484	10.8%	\$55,118	\$ 100,602	10.4%	\$53,077	\$ 92,653
2023	524,389	8.7	45,622	81,256	10.8	56,634	101,567	10.4	54,536	93,542
2024	538,810	8.7	46,876	81,948	10.8	58,191	102,432	10.4	56,036	94,339
2025	553,627	8.7	48,166	82,551	10.8	59,792	103,186	10.4	57,577	95,034
2026	568,852	8.7	49,490	83,056	10.8	61,436	103,817	10.4	59,161	95,615
2027	584,495	8.7	50,851	83,451	10.8	63,125	104,311	10.4	60,787	96,070
2028	600,569	8.7	52,250	83,724	10.8	64,861	104,653	10.4	62,459	96,385
2029	617,085	8.7	53,686	83,863	10.8	66,645	104,827	10.4	64,177	96,546
2030	634,055	8.7	55,163	83,855	10.8	68,478	104,817	10.4	65,942	96,537
2031	651,492	8.7	56,680	83,685	10.8	70,361	104,604	10.4	67,755	96,341

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
2022	\$ 510,354	12.0%	\$61,242	\$ 109,726	12.7%	\$64,815	\$ 120,698	13.5%	\$68,898	\$ 126,801
2023	524,389	12.0	62,927	110,779	12.7	66,597	121,856	13.5	70,793	128,017
2024	538,810	12.0	64,657	111,723	12.7	68,429	122,894	13.5	72,739	129,108
2025	553,627	12.0	66,435	112,546	12.7	70,311	123,799	13.5	74,740	130,059
2026	568,852	12.0	68,262	113,234	12.7	72,244	124,556	13.5	76,795	130,854
2027	584,495	12.0	70,139	113,772	12.7	74,231	125,148	13.5	78,907	131,476
2028	600,569	12.0	72,068	114,145	12.7	76,272	125,558	13.5	81,077	131,907
2029	617,085	12.0	74,050	114,335	12.7	78,370	125,767	13.5	83,306	132,127
2030	634,055	12.0	76,087	114,324	12.7	80,525	125,755	13.5	85,597	132,114
2031	651,492	12.0	78,179	114,092	12.7	82,739	125,500	13.5	87,951	131,846

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
2022	\$ 510,354	14.6%	\$74,512	\$ 140,846	15.0%	\$76,553	\$ 143,894	16.6%	\$84,719	\$ 160,940
2023	524,389	14.6	76,561	142,197	15.0	78,658	145,274	16.6	87,049	162,484
2024	538,810	14.6	78,666	143,409	15.0	80,822	146,512	16.6	89,442	163,869
2025	553,627	14.6	80,830	144,465	15.0	83,044	147,591	16.6	91,902	165,076
2026	568,852	14.6	83,052	145,348	15.0	85,328	148,493	16.6	94,429	166,085
2027	584,495	14.6	85,336	146,039	15.0	87,674	149,199	16.6	97,026	166,875
2028	600,569	14.6	87,683	146,518	15.0	90,085	149,688	16.6	99,694	167,422
2029	617,085	14.6	90,094	146,762	15.0	92,563	149,937	16.6	102,436	167,701
2030	634,055	14.6	92,572	146,748	15.0	95,108	149,923	16.6	105,253	167,685
2031	651,492	14.6	95,118	146,450	15.0	97,724	149,619	16.6	108,148	167,344

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 Byrnes Mill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2022	\$ 510,354	6.8%	\$34,704	\$ 80,484	8.9%	\$45,422	\$ 100,602	8.5%	\$43,380	\$ 92,653
2023	524,389	6.8	35,658	81,256	8.9	46,671	101,567	8.5	44,573	93,542
2024	538,810	6.8	36,639	81,948	8.9	47,954	102,432	8.5	45,799	94,339
2025	553,627	6.8	37,647	82,551	8.9	49,273	103,186	8.5	47,058	95,034
2026	568,852	6.8	38,682	83,056	8.9	50,628	103,817	8.5	48,352	95,615
2027	584,495	6.8	39,746	83,451	8.9	52,020	104,311	8.5	49,682	96,070
2028	600,569	6.8	40,839	83,724	8.9	53,451	104,653	8.5	51,048	96,385
2029	617,085	6.8	41,962	83,863	8.9	54,921	104,827	8.5	52,452	96,546
2030	634,055	6.8	43,116	83,855	8.9	56,431	104,817	8.5	53,895	96,537
2031	651,492	6.8	44,301	83,685	8.9	57,983	104,604	8.5	55,377	96,341

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
2022	\$ 510,354	10.1%	\$51,546	\$ 109,726	10.8%	\$55,118	\$ 120,698	11.6%	\$59,201	\$ 126,801
2023	524,389	10.1	52,963	110,779	10.8	56,634	121,856	11.6	60,829	128,017
2024	538,810	10.1	54,420	111,723	10.8	58,191	122,894	11.6	62,502	129,108
2025	553,627	10.1	55,916	112,546	10.8	59,792	123,799	11.6	64,221	130,059
2026	568,852	10.1	57,454	113,234	10.8	61,436	124,556	11.6	65,987	130,854
2027	584,495	10.1	59,034	113,772	10.8	63,125	125,148	11.6	67,801	131,476
2028	600,569	10.1	60,657	114,145	10.8	64,861	125,558	11.6	69,666	131,907
2029	617,085	10.1	62,326	114,335	10.8	66,645	125,767	11.6	71,582	132,127
2030	634,055	10.1	64,040	114,324	10.8	68,478	125,755	11.6	73,550	132,114
2031	651,492	10.1	65,801	114,092	10.8	70,361	125,500	11.6	75,573	131,846

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
2022	\$ 510,354	12.7%	\$64,815	\$ 140,846	13.1%	\$66,856	\$ 143,894	14.7%	\$75,022	\$ 160,940
2023	524,389	12.7	66,597	142,197	13.1	68,695	145,274	14.7	77,085	162,484
2024	538,810	12.7	68,429	143,409	13.1	70,584	146,512	14.7	79,205	163,869
2025	553,627	12.7	70,311	144,465	13.1	72,525	147,591	14.7	81,383	165,076
2026	568,852	12.7	72,244	145,348	13.1	74,520	148,493	14.7	83,621	166,085
2027	584,495	12.7	74,231	146,039	13.1	76,569	149,199	14.7	85,921	166,875
2028	600,569	12.7	76,272	146,518	13.1	78,675	149,688	14.7	88,284	167,422
2029	617,085	12.7	78,370	146,762	13.1	80,838	149,937	14.7	90,711	167,701
2030	634,055	12.7	80,525	146,748	13.1	83,061	149,923	14.7	93,206	167,685
2031	651,492	12.7	82,739	146,450	13.1	85,345	149,619	14.7	95,769	167,344

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 Byrnes Mill - Police

Employer Contribution Rates (4% 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	
2022	\$ 510,354	4.9%	\$25,007	\$ 80,484	7.0%	\$35,725	\$ 100,602	6.6%	\$33,683	\$ 92,653
2023	524,389	4.9	25,695	81,256	7.0	36,707	101,567	6.6	34,610	93,542
2024	538,810	4.9	26,402	81,948	7.0	37,717	102,432	6.6	35,561	94,339
2025	553,627	4.9	27,128	82,551	7.0	38,754	103,186	6.6	36,539	95,034
2026	568,852	4.9	27,874	83,056	7.0	39,820	103,817	6.6	37,544	95,615
2027	584,495	4.9	28,640	83,451	7.0	40,915	104,311	6.6	38,577	96,070
2028	600,569	4.9	29,428	83,724	7.0	42,040	104,653	6.6	39,638	96,385
2029	617,085	4.9	30,237	83,863	7.0	43,196	104,827	6.6	40,728	96,546
2030	634,055	4.9	31,069	83,855	7.0	44,384	104,817	6.6	41,848	96,537
2031	651,492	4.9	31,923	83,685	7.0	45,604	104,604	6.6	42,998	96,341

		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	
2022	\$ 510,354	8.2%	\$41,849	\$ 109,726	8.9%	\$45,422	\$ 120,698	9.7%	\$49,504	\$ 126,801
2023	524,389	8.2	43,000	110,779	8.9	46,671	121,856	9.7	50,866	128,017
2024	538,810	8.2	44,182	111,723	8.9	47,954	122,894	9.7	52,265	129,108
2025	553,627	8.2	45,397	112,546	8.9	49,273	123,799	9.7	53,702	130,059
2026	568,852	8.2	46,646	113,234	8.9	50,628	124,556	9.7	55,179	130,854
2027	584,495	8.2	47,929	113,772	8.9	52,020	125,148	9.7	56,696	131,476
2028	600,569	8.2	49,247	114,145	8.9	53,451	125,558	9.7	58,255	131,907
2029	617,085	8.2	50,601	114,335	8.9	54,921	125,767	9.7	59,857	132,127
2030	634,055	8.2	51,993	114,324	8.9	56,431	125,755	9.7	61,503	132,114
2031	651,492	8.2	53,422	114,092	8.9	57,983	125,500	9.7	63,195	131,846

		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	
2022	\$ 510,354	10.8%	\$55,118	\$ 140,846	11.2%	\$57,160	\$ 143,894	12.8%	\$65,325	\$ 160,940
2023	524,389	10.8	56,634	142,197	11.2	58,732	145,274	12.8	67,122	162,484
2024	538,810	10.8	58,191	143,409	11.2	60,347	146,512	12.8	68,968	163,869
2025	553,627	10.8	59,792	144,465	11.2	62,006	147,591	12.8	70,864	165,076
2026	568,852	10.8	61,436	145,348	11.2	63,711	148,493	12.8	72,813	166,085
2027	584,495	10.8	63,125	146,039	11.2	65,463	149,199	12.8	74,815	166,875
2028	600,569	10.8	64,861	146,518	11.2	67,264	149,688	12.8	76,873	167,422
2029	617,085	10.8	66,645	146,762	11.2	69,114	149,937	12.8	78,987	167,701
2030	634,055	10.8	68,478	146,748	11.2	71,014	149,923	12.8	81,159	167,685
2031	651,492	10.8	70,361	146,450	11.2	72,967	149,619	12.8	83,391	167,344

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 Byrnes Mill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	3.0%	\$15,311	\$ 80,484	5.1%	\$26,028	\$ 100,602	4.7%	\$23,987	\$ 92,653
2023	524,389	3.0	15,732	81,256	5.1	26,744	101,567	4.7	24,646	93,542
2024	538,810	3.0	16,164	81,948	5.1	27,479	102,432	4.7	25,324	94,339
2025	553,627	3.0	16,609	82,551	5.1	28,235	103,186	4.7	26,020	95,034
2026	568,852	3.0	17,066	83,056	5.1	29,011	103,817	4.7	26,736	95,615
2027	584,495	3.0	17,535	83,451	5.1	29,809	104,311	4.7	27,471	96,070
2028	600,569	3.0	18,017	83,724	5.1	30,629	104,653	4.7	28,227	96,385
2029	617,085	3.0	18,513	83,863	5.1	31,471	104,827	4.7	29,003	96,546
2030	634,055	3.0	19,022	83,855	5.1	32,337	104,817	4.7	29,801	96,537
2031	651,492	3.0	19,545	83,685	5.1	33,226	104,604	4.7	30,620	96,341

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
2022	\$ 510,354	6.3%	\$32,152	\$ 109,726	7.0%	\$35,725	\$ 120,698	7.8%	\$39,808	\$ 126,801
2023	524,389	6.3	33,037	110,779	7.0	36,707	121,856	7.8	40,902	128,017
2024	538,810	6.3	33,945	111,723	7.0	37,717	122,894	7.8	42,027	129,108
2025	553,627	6.3	34,879	112,546	7.0	38,754	123,799	7.8	43,183	130,059
2026	568,852	6.3	35,838	113,234	7.0	39,820	124,556	7.8	44,370	130,854
2027	584,495	6.3	36,823	113,772	7.0	40,915	125,148	7.8	45,591	131,476
2028	600,569	6.3	37,836	114,145	7.0	42,040	125,558	7.8	46,844	131,907
2029	617,085	6.3	38,876	114,335	7.0	43,196	125,767	7.8	48,133	132,127
2030	634,055	6.3	39,945	114,324	7.0	44,384	125,755	7.8	49,456	132,114
2031	651,492	6.3	41,044	114,092	7.0	45,604	125,500	7.8	50,816	131,846

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
2022	\$ 510,354	8.9%	\$45,422	\$ 140,846	9.3%	\$47,463	\$ 143,894	10.9%	\$55,629	\$ 160,940
2023	524,389	8.9	46,671	142,197	9.3	48,768	145,274	10.9	57,158	162,484
2024	538,810	8.9	47,954	143,409	9.3	50,109	146,512	10.9	58,730	163,869
2025	553,627	8.9	49,273	144,465	9.3	51,487	147,591	10.9	60,345	165,076
2026	568,852	8.9	50,628	145,348	9.3	52,903	148,493	10.9	62,005	166,085
2027	584,495	8.9	52,020	146,039	9.3	54,358	149,199	10.9	63,710	166,875
2028	600,569	8.9	53,451	146,518	9.3	55,853	149,688	10.9	65,462	167,422
2029	617,085	8.9	54,921	146,762	9.3	57,389	149,937	10.9	67,262	167,701
2030	634,055	8.9	56,431	146,748	9.3	58,967	149,923	10.9	69,112	167,685
2031	651,492	8.9	57,983	146,450	9.3	60,589	149,619	10.9	71,013	167,344

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 Byrnes Mill - 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 %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2022	\$ 510,354	9.1%	\$46,442	\$ 83,332	11.1%	\$56,649	\$ 104,143	10.7%	\$54,608	\$ 95,911
2023	524,389	9.1	47,719	84,131	11.1	58,207	105,142	10.7	56,110	96,831
2024	538,810	9.1	49,032	84,848	11.1	59,808	106,038	10.7	57,653	97,656
2025	553,627	9.1	50,380	85,473	11.1	61,453	106,819	10.7	59,238	98,375
2026	568,852	9.1	51,766	85,995	11.1	63,143	107,472	10.7	60,867	98,976
2027	584,495	9.1	53,189	86,404	11.1	64,879	107,983	10.7	62,541	99,447
2028	600,569	9.1	54,652	86,687	11.1	66,663	108,337	10.7	64,261	99,773
2029	617,085	9.1	56,155	86,831	11.1	68,496	108,518	10.7	66,028	99,939
2030	634,055	9.1	57,699	86,823	11.1	70,380	108,508	10.7	67,844	99,929
2031	651,492	9.1	59,286	86,647	11.1	72,316	108,288	10.7	69,710	99,726

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	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
2022	\$ 510,354	12.3%	\$62,774	\$ 113,599	13.1%	\$66,856	\$ 124,947	13.9%	\$70,939	\$ 131,275
2023	524,389	12.3	64,500	114,689	13.1	68,695	126,146	13.9	72,890	132,534
2024	538,810	12.3	66,274	115,666	13.1	70,584	127,221	13.9	74,895	133,663
2025	553,627	12.3	68,096	116,518	13.1	72,525	128,158	13.9	76,954	134,647
2026	568,852	12.3	69,969	117,230	13.1	74,520	128,941	13.9	79,070	135,470
2027	584,495	12.3	71,893	117,787	13.1	76,569	129,554	13.9	81,245	136,114
2028	600,569	12.3	73,870	118,173	13.1	78,675	129,979	13.9	83,479	136,560
2029	617,085	12.3	75,901	118,370	13.1	80,838	130,196	13.9	85,775	136,788
2030	634,055	12.3	77,989	118,359	13.1	83,061	130,183	13.9	88,134	136,775
2031	651,492	12.3	80,134	118,119	13.1	85,345	129,919	13.9	90,557	136,497

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
2022	\$ 510,354	15.2%	\$77,574	\$ 145,777	15.5%	\$79,105	\$ 148,948	17.2%	\$87,781	\$ 166,661
2023	524,389	15.2	79,707	147,175	15.5	81,280	150,377	17.2	90,195	168,260
2024	538,810	15.2	81,899	148,429	15.5	83,516	151,658	17.2	92,675	169,694
2025	553,627	15.2	84,151	149,522	15.5	85,812	152,775	17.2	95,224	170,944
2026	568,852	15.2	86,466	150,436	15.5	88,172	153,709	17.2	97,843	171,989
2027	584,495	15.2	88,843	151,151	15.5	90,597	154,440	17.2	100,533	172,807
2028	600,569	15.2	91,286	151,646	15.5	93,088	154,946	17.2	103,298	173,373
2029	617,085	15.2	93,797	151,899	15.5	95,648	155,204	17.2	106,139	173,662
2030	634,055	15.2	96,376	151,884	15.5	98,279	155,189	17.2	109,057	173,645
2031	651,492	15.2	99,027	151,576	15.5	100,981	154,874	17.2	112,057	173,292

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 Byrnes Mill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2022	\$ 510,354	7.2%	\$36,745	\$ 83,332	9.2%	\$46,953	\$ 104,143	8.8%	\$44,911	\$ 95,911
2023	524,389	7.2	37,756	84,131	9.2	48,244	105,142	8.8	46,146	96,831
2024	538,810	7.2	38,794	84,848	9.2	49,571	106,038	8.8	47,415	97,656
2025	553,627	7.2	39,861	85,473	9.2	50,934	106,819	8.8	48,719	98,375
2026	568,852	7.2	40,957	85,995	9.2	52,334	107,472	8.8	50,059	98,976
2027	584,495	7.2	42,084	86,404	9.2	53,774	107,983	8.8	51,436	99,447
2028	600,569	7.2	43,241	86,687	9.2	55,252	108,337	8.8	52,850	99,773
2029	617,085	7.2	44,430	86,831	9.2	56,772	108,518	8.8	54,303	99,939
2030	634,055	7.2	45,652	86,823	9.2	58,333	108,508	8.8	55,797	99,929
2031	651,492	7.2	46,907	86,647	9.2	59,937	108,288	8.8	57,331	99,726

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	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
2022	\$ 510,354	10.4%	\$53,077	\$ 113,599	11.2%	\$57,160	\$ 124,947	12.0%	\$61,242	\$ 131,275
2023	524,389	10.4	54,536	114,689	11.2	58,732	126,146	12.0	62,927	132,534
2024	538,810	10.4	56,036	115,666	11.2	60,347	127,221	12.0	64,657	133,663
2025	553,627	10.4	57,577	116,518	11.2	62,006	128,158	12.0	66,435	134,647
2026	568,852	10.4	59,161	117,230	11.2	63,711	128,941	12.0	68,262	135,470
2027	584,495	10.4	60,787	117,787	11.2	65,463	129,554	12.0	70,139	136,114
2028	600,569	10.4	62,459	118,173	11.2	67,264	129,979	12.0	72,068	136,560
2029	617,085	10.4	64,177	118,370	11.2	69,114	130,196	12.0	74,050	136,788
2030	634,055	10.4	65,942	118,359	11.2	71,014	130,183	12.0	76,087	136,775
2031	651,492	10.4	67,755	118,119	11.2	72,967	129,919	12.0	78,179	136,497

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
2022	\$ 510,354	13.3%	\$67,877	\$ 145,777	13.6%	\$69,408	\$ 148,948	15.3%	\$78,084	\$ 166,661
2023	524,389	13.3	69,744	147,175	13.6	71,317	150,377	15.3	80,232	168,260
2024	538,810	13.3	71,662	148,429	13.6	73,278	151,658	15.3	82,438	169,694
2025	553,627	13.3	73,632	149,522	13.6	75,293	152,775	15.3	84,705	170,944
2026	568,852	13.3	75,657	150,436	13.6	77,364	153,709	15.3	87,034	171,989
2027	584,495	13.3	77,738	151,151	13.6	79,491	154,440	15.3	89,428	172,807
2028	600,569	13.3	79,876	151,646	13.6	81,677	154,946	15.3	91,887	173,373
2029	617,085	13.3	82,072	151,899	13.6	83,924	155,204	15.3	94,414	173,662
2030	634,055	13.3	84,329	151,884	13.6	86,231	155,189	15.3	97,010	173,645
2031	651,492	13.3	86,648	151,576	13.6	88,603	154,874	15.3	99,678	173,292

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 Byrnes Mill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2022	\$ 510,354	5.3%	\$27,049	\$ 83,332	7.3%	\$37,256	\$ 104,143	6.9%	\$35,214	\$ 95,911
2023	524,389	5.3	27,793	84,131	7.3	38,280	105,142	6.9	36,183	96,831
2024	538,810	5.3	28,557	84,848	7.3	39,333	106,038	6.9	37,178	97,656
2025	553,627	5.3	29,342	85,473	7.3	40,415	106,819	6.9	38,200	98,375
2026	568,852	5.3	30,149	85,995	7.3	41,526	107,472	6.9	39,251	98,976
2027	584,495	5.3	30,978	86,404	7.3	42,668	107,983	6.9	40,330	99,447
2028	600,569	5.3	31,830	86,687	7.3	43,842	108,337	6.9	41,439	99,773
2029	617,085	5.3	32,706	86,831	7.3	45,047	108,518	6.9	42,579	99,939
2030	634,055	5.3	33,605	86,823	7.3	46,286	108,508	6.9	43,750	99,929
2031	651,492	5.3	34,529	86,647	7.3	47,559	108,288	6.9	44,953	99,726

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	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
2022	\$ 510,354	8.5%	\$43,380	\$ 113,599	9.3%	\$47,463	\$ 124,947	10.1%	\$51,546	\$ 131,275
2023	524,389	8.5	44,573	114,689	9.3	48,768	126,146	10.1	52,963	132,534
2024	538,810	8.5	45,799	115,666	9.3	50,109	127,221	10.1	54,420	133,663
2025	553,627	8.5	47,058	116,518	9.3	51,487	128,158	10.1	55,916	134,647
2026	568,852	8.5	48,352	117,230	9.3	52,903	128,941	10.1	57,454	135,470
2027	584,495	8.5	49,682	117,787	9.3	54,358	129,554	10.1	59,034	136,114
2028	600,569	8.5	51,048	118,173	9.3	55,853	129,979	10.1	60,657	136,560
2029	617,085	8.5	52,452	118,370	9.3	57,389	130,196	10.1	62,326	136,788
2030	634,055	8.5	53,895	118,359	9.3	58,967	130,183	10.1	64,040	136,775
2031	651,492	8.5	55,377	118,119	9.3	60,589	129,919	10.1	65,801	136,497

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
2022	\$ 510,354	11.4%	\$58,180	\$ 145,777	11.7%	\$59,711	\$ 148,948	13.4%	\$68,387	\$ 166,661
2023	524,389	11.4	59,780	147,175	11.7	61,354	150,377	13.4	70,268	168,260
2024	538,810	11.4	61,424	148,429	11.7	63,041	151,658	13.4	72,201	169,694
2025	553,627	11.4	63,113	149,522	11.7	64,774	152,775	13.4	74,186	170,944
2026	568,852	11.4	64,849	150,436	11.7	66,556	153,709	13.4	76,226	171,989
2027	584,495	11.4	66,632	151,151	11.7	68,386	154,440	13.4	78,322	172,807
2028	600,569	11.4	68,465	151,646	11.7	70,267	154,946	13.4	80,476	173,373
2029	617,085	11.4	70,348	151,899	11.7	72,199	155,204	13.4	82,689	173,662
2030	634,055	11.4	72,282	151,884	11.7	74,184	155,189	13.4	84,963	173,645
2031	651,492	11.4	74,270	151,576	11.7	76,225	154,874	13.4	87,300	173,292

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 Byrnes Mill - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2022	\$ 510,354	3.4%	\$17,352	\$ 83,332	5.4%	\$27,559	\$ 104,143	5.0%	\$25,518	\$ 95,911
2023	524,389	3.4	17,829	84,131	5.4	28,317	105,142	5.0	26,219	96,831
2024	538,810	3.4	18,320	84,848	5.4	29,096	106,038	5.0	26,941	97,656
2025	553,627	3.4	18,823	85,473	5.4	29,896	106,819	5.0	27,681	98,375
2026	568,852	3.4	19,341	85,995	5.4	30,718	107,472	5.0	28,443	98,976
2027	584,495	3.4	19,873	86,404	5.4	31,563	107,983	5.0	29,225	99,447
2028	600,569	3.4	20,419	86,687	5.4	32,431	108,337	5.0	30,028	99,773
2029	617,085	3.4	20,981	86,831	5.4	33,323	108,518	5.0	30,854	99,939
2030	634,055	3.4	21,558	86,823	5.4	34,239	108,508	5.0	31,703	99,929
2031	651,492	3.4	22,151	86,647	5.4	35,181	108,288	5.0	32,575	99,726

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	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
2022	\$ 510,354	6.6%	\$33,683	\$ 113,599	7.4%	\$37,766	\$ 124,947	8.2%	\$41,849	\$ 131,275
2023	524,389	6.6	34,610	114,689	7.4	38,805	126,146	8.2	43,000	132,534
2024	538,810	6.6	35,561	115,666	7.4	39,872	127,221	8.2	44,182	133,663
2025	553,627	6.6	36,539	116,518	7.4	40,968	128,158	8.2	45,397	134,647
2026	568,852	6.6	37,544	117,230	7.4	42,095	128,941	8.2	46,646	135,470
2027	584,495	6.6	38,577	117,787	7.4	43,253	129,554	8.2	47,929	136,114
2028	600,569	6.6	39,638	118,173	7.4	44,442	129,979	8.2	49,247	136,560
2029	617,085	6.6	40,728	118,370	7.4	45,664	130,196	8.2	50,601	136,788
2030	634,055	6.6	41,848	118,359	7.4	46,920	130,183	8.2	51,993	136,775
2031	651,492	6.6	42,998	118,119	7.4	48,210	129,919	8.2	53,422	136,497

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
2022	\$ 510,354	9.5%	\$48,484	\$ 145,777	9.8%	\$50,015	\$ 148,948	11.5%	\$58,691	\$ 166,661
2023	524,389	9.5	49,817	147,175	9.8	51,390	150,377	11.5	60,305	168,260
2024	538,810	9.5	51,187	148,429	9.8	52,803	151,658	11.5	61,963	169,694
2025	553,627	9.5	52,595	149,522	9.8	54,255	152,775	11.5	63,667	170,944
2026	568,852	9.5	54,041	150,436	9.8	55,747	153,709	11.5	65,418	171,989
2027	584,495	9.5	55,527	151,151	9.8	57,281	154,440	11.5	67,217	172,807
2028	600,569	9.5	57,054	151,646	9.8	58,856	154,946	11.5	69,065	173,373
2029	617,085	9.5	58,623	151,899	9.8	60,474	155,204	11.5	70,965	173,662
2030	634,055	9.5	60,235	151,884	9.8	62,137	155,189	11.5	72,916	173,645
2031	651,492	9.5	61,892	151,576	9.8	63,846	154,874	11.5	74,922	173,292

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.