



The Initial Valuation For

High Ridge Fire Protection District

as of December 31, 2020



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March 15, 2021

High Ridge Fire Protection District
High Ridge, Missouri

Ladies and Gentlemen:

Submitted in this report are the results of the actuarial valuation prepared to determine the employer contribution rates required to support, for your employees, the benefits provided by the Missouri Local Government Employees Retirement System (LAGERS). This report contains the information needed to comply with Missouri State disclosure requirements regarding the adoption of LAGERS benefits by a political subdivision (Sections 105.660 - 106.685 RSMo). This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA



Alternate Plan Provisions Affecting Employer Contribution Rates

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

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

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

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

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

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

High Ridge Fire Protection District

Employer Contribution Rates 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.70%	0.20%	7.90%	15.80%	13.90%	12.00%	10.10%
	Fire	7.70	0.60	8.70	17.00	15.10	13.20	11.30
L-3	General	9.40	0.30	9.90	19.60	17.70	15.80	13.90
	Fire	9.40	0.70	10.90	21.00	19.10	17.20	15.30
LT-4(65)	General	8.60	0.20	8.60	17.40	15.50	13.60	11.70
	Fire	9.50	0.60	10.90	21.00	19.10	17.20	15.30
LT-5(65)	General	10.10	0.30	10.50	20.90	19.00	17.10	15.20
	Fire	10.80	0.70	12.50	24.00	22.10	20.20	18.30
L-7	General	11.10	0.30	11.90	23.30	21.40	19.50	17.60
	Fire	11.10	0.80	13.10	25.00	23.10	21.20	19.30
LT-8(65)	General	11.60	0.30	12.30	24.20	22.30	20.40	18.50
	Fire	12.00	0.80	14.20	27.00	25.10	23.20	21.30
L-12	General	12.80	0.40	13.90	27.10	25.20	23.30	21.40
	Fire	12.80	0.90	15.30	29.00	27.10	25.20	23.30
LT-14(65)	General	13.10	0.40	14.10	27.60	25.70	23.80	21.90
	Fire	13.30	0.90	15.80	30.00	28.10	26.20	24.30
L-6	General	14.60	0.50	15.90	31.00	29.10	27.20	25.30
	Fire	14.50	1.00	17.40	32.90	31.00	29.10	27.20

* 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.

High Ridge Fire Protection District

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	8.00%	0.20%	8.20%	16.40%	14.50%	12.60%	10.70%
	Fire	8.00	0.60	9.00	17.60	15.70	13.80	11.90
L-3	General	9.70	0.30	10.20	20.20	18.30	16.40	14.50
	Fire	9.70	0.70	11.30	21.70	19.80	17.90	16.00
LT-4(65)	General	8.90	0.20	8.90	18.00	16.10	14.20	12.30
	Fire	9.80	0.60	11.30	21.70	19.80	17.90	16.00
LT-5(65)	General	10.40	0.30	10.80	21.50	19.60	17.70	15.80
	Fire	11.10	0.70	13.00	24.80	22.90	21.00	19.10
L-7	General	11.50	0.30	12.30	24.10	22.20	20.30	18.40
	Fire	11.50	0.80	13.50	25.80	23.90	22.00	20.10
LT-8(65)	General	12.00	0.30	12.70	25.00	23.10	21.20	19.30
	Fire	12.40	0.80	14.60	27.80	25.90	24.00	22.10
L-12	General	13.30	0.40	14.30	28.00	26.10	24.20	22.30
	Fire	13.30	0.90	15.80	30.00	28.10	26.20	24.30
LT-14(65)	General	13.50	0.40	14.50	28.40	26.50	24.60	22.70
	Fire	13.70	0.90	16.30	30.90	29.00	27.10	25.20
L-6	General	15.00	0.50	16.40	31.90	30.00	28.10	26.20
	Fire	15.00	1.00	18.00	34.00	32.10	30.20	28.30

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

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

High Ridge Fire Protection District

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	7.80%	0.20%	7.90%	15.90%	14.00%	12.10%	10.20%
	Fire	8.20	0.60	9.40	18.20	16.30	14.40	12.50
L-3	General	9.50	0.30	9.90	19.70	17.80	15.90	14.00
	Fire	10.00	0.70	11.70	22.40	20.50	18.60	16.70
LT-4(65)	General	8.80	0.20	8.70	17.70	15.80	13.90	12.00
	Fire	10.60	0.60	12.50	23.70	21.80	19.90	18.00
LT-5(65)	General	10.30	0.30	10.50	21.10	19.20	17.30	15.40
	Fire	11.80	0.70	14.00	26.50	24.60	22.70	20.80
L-7	General	11.20	0.30	11.90	23.40	21.50	19.60	17.70
	Fire	11.80	0.80	14.00	26.60	24.70	22.80	20.90
LT-8(65)	General	11.70	0.30	12.30	24.30	22.40	20.50	18.60
	Fire	13.10	0.80	15.60	29.50	27.60	25.70	23.80
L-12	General	13.00	0.40	13.90	27.30	25.40	23.50	21.60
	Fire	13.70	0.90	16.40	31.00	29.10	27.20	25.30
LT-14(65)	General	13.20	0.40	14.10	27.70	25.80	23.90	22.00
	Fire	14.30	0.90	17.20	32.40	30.50	28.60	26.70
L-6	General	14.70	0.50	15.90	31.10	29.20	27.30	25.40
	Fire	15.50	1.00	18.70	35.20	33.30	31.40	29.50

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.

High Ridge Fire Protection District

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	8.00%	0.20%	8.20%	16.40%	14.50%	12.60%	10.70%
	Fire	8.50	0.60	9.70	18.80	16.90	15.00	13.10
L-3	General	9.80	0.30	10.30	20.40	18.50	16.60	14.70
	Fire	10.40	0.70	12.10	23.20	21.30	19.40	17.50
LT-4(65)	General	9.10	0.20	9.00	18.30	16.40	14.50	12.60
	Fire	11.00	0.60	12.90	24.50	22.60	20.70	18.80
LT-5(65)	General	10.60	0.30	10.80	21.70	19.80	17.90	16.00
	Fire	12.30	0.70	14.50	27.50	25.60	23.70	21.80
L-7	General	11.60	0.30	12.30	24.20	22.30	20.40	18.50
	Fire	12.20	0.80	14.50	27.50	25.60	23.70	21.80
LT-8(65)	General	12.10	0.30	12.70	25.10	23.20	21.30	19.40
	Fire	13.50	0.80	16.10	30.40	28.50	26.60	24.70
L-12	General	13.40	0.40	14.40	28.20	26.30	24.40	22.50
	Fire	14.10	0.90	17.00	32.00	30.10	28.20	26.30
LT-14(65)	General	13.60	0.40	14.60	28.60	26.70	24.80	22.90
	Fire	14.80	0.90	17.80	33.50	31.60	29.70	27.80
L-6	General	15.20	0.50	16.40	32.10	30.20	28.30	26.40
	Fire	16.00	1.00	19.40	36.40	34.50	32.60	30.70

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

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

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

High Ridge Fire Protection District

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	\$ 28,841	\$ 25,373	\$ 21,904	\$ 18,436
L-3	35,777	32,309	28,841	25,373
LT-4(65)	31,761	28,293	24,825	21,357
LT-5(65)	38,150	34,682	31,214	27,745
L-7	42,531	39,063	35,595	32,126
LT-8(65)	44,174	40,706	37,237	33,769
L-12	49,467	45,999	42,531	39,063
LT-14(65)	50,380	46,912	43,444	39,975
L-6	56,586	53,118	49,650	46,182

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 29,936	\$ 26,468	\$ 23,000	\$ 19,531
L-3	36,872	33,404	29,936	26,468
LT-4(65)	32,856	29,388	25,920	22,452
LT-5(65)	39,245	35,777	32,309	28,841
L-7	43,991	40,523	37,055	33,587
LT-8(65)	45,634	42,166	38,698	35,229
L-12	51,110	47,642	44,174	40,706
LT-14(65)	51,840	48,372	44,904	41,436
L-6	58,229	54,761	51,293	47,824

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 29,023	\$ 25,555	\$ 22,087	\$ 18,619
L-3	35,960	32,491	29,023	25,555
LT-4(65)	32,309	28,841	25,373	21,904
LT-5(65)	38,515	35,047	31,579	28,111
L-7	42,713	39,245	35,777	32,309
LT-8(65)	44,356	40,888	37,420	33,952
L-12	49,832	46,364	42,896	39,428
LT-14(65)	50,562	47,094	43,626	40,158
L-6	56,769	53,301	49,832	46,364

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 29,936	\$ 26,468	\$ 23,000	\$ 19,531
L-3	37,237	33,769	30,301	26,833
LT-4(65)	33,404	29,936	26,468	23,000
LT-5(65)	39,610	36,142	32,674	29,206
L-7	44,174	40,706	37,237	33,769
LT-8(65)	45,817	42,348	38,880	35,412
L-12	51,475	48,007	44,539	41,071
LT-14(65)	52,205	48,737	45,269	41,801
L-6	58,594	55,126	51,658	48,190

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.

High Ridge Fire Protection District

Employer Contribution Dollars Fire

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	\$ 442,130	\$ 392,716	\$ 343,301	\$ 293,887
L-3	546,161	496,746	447,332	397,917
LT-4(65)	546,161	496,746	447,332	397,917
LT-5(65)	624,184	574,769	525,355	475,940
L-7	650,192	600,777	551,362	501,948
LT-8(65)	702,207	652,792	603,378	553,963
L-12	754,222	704,808	655,393	605,978
LT-14(65)	780,230	730,815	681,401	631,986
L-6	855,652	806,237	756,823	707,408

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 457,735	\$ 408,320	\$ 358,906	\$ 309,491
L-3	564,366	514,952	465,537	416,123
LT-4(65)	564,366	514,952	465,537	416,123
LT-5(65)	644,990	595,575	546,161	496,746
L-7	670,998	621,583	572,169	522,754
LT-8(65)	723,013	673,598	624,184	574,769
L-12	780,230	730,815	681,401	631,986
LT-14(65)	803,637	754,222	704,808	655,393
L-6	884,260	834,846	785,431	736,017

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 473,339	\$ 423,925	\$ 374,510	\$ 325,096
L-3	582,572	533,157	483,742	434,328
LT-4(65)	616,382	566,967	517,552	468,138
LT-5(65)	689,203	639,788	590,374	540,959
L-7	691,804	642,389	592,975	543,560
LT-8(65)	767,226	717,811	668,397	618,982
L-12	806,237	756,823	707,408	657,994
LT-14(65)	842,648	793,234	743,819	694,405
L-6	915,470	866,055	816,641	767,226

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 488,944	\$ 439,529	\$ 390,115	\$ 340,700
L-3	603,378	553,963	504,549	455,134
LT-4(65)	637,188	587,773	538,359	488,944
LT-5(65)	715,211	665,796	616,382	566,967
L-7	715,211	665,796	616,382	566,967
LT-8(65)	790,633	741,218	691,804	642,389
L-12	832,245	782,831	733,416	684,001
LT-14(65)	871,257	821,842	772,428	723,013
L-6	946,679	897,264	847,850	798,435

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.

High Ridge Fire Protection District

Employees and Payroll Included in the Valuation

	General	Fire
Number of Employees	3	35
Annual Payroll	\$ 182,536	\$ 2,600,766

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:

High Ridge Fire Protection District

Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 255,034	\$ 263,622
	Fire	3,993,943	4,129,761
L-3	General	318,812	329,514
	Fire	4,992,409	5,162,208
LT-4(65)	General	278,118	287,494
	Fire	4,988,774	5,159,686
LT-5(65)	General	336,116	347,439
	Fire	5,738,610	5,934,615
L-7	General	382,561	395,406
	Fire	5,990,916	6,194,713
LT-8(65)	General	394,107	407,352
	Fire	6,488,353	6,709,647
L-12	General	446,321	461,330
	Fire	6,989,362	7,227,229
LT-14(65)	General	452,093	467,304
	Fire	7,238,130	7,484,659
L-6	General	510,091	527,228
	Fire	7,987,775	8,259,624

High Ridge Fire Protection District

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	\$ 255,591	\$ 264,203
	Fire	4,289,205	4,438,864
L-3	General	319,507	330,240
	Fire	5,361,448	5,548,479
LT-4(65)	General	278,657	288,058
	Fire	5,712,157	5,912,779
LT-5(65)	General	336,795	348,149
	Fire	6,428,661	6,653,898
L-7	General	383,384	396,276
	Fire	6,433,784	6,658,325
LT-8(65)	General	394,923	408,216
	Fire	7,145,307	7,395,273
L-12	General	447,286	462,351
	Fire	7,506,116	7,767,999
LT-14(65)	General	453,053	468,319
	Fire	7,861,855	8,136,447
L-6	General	511,198	528,390
	Fire	8,578,315	8,877,630

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 7.25% per year, net of investment expenses, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. The price inflation rate used in making the valuations was 2.50% and the wage inflation rate used in making the valuations was 3.25%. The 7.25% investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.00%. Adopted 2011 and 2016.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The pre-retirement mortality tables used were the RP-2014 employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. For both the post-retirement and pre-retirement tables, the base year for males was then established to be 2017. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to the above described tables. Adopted 2016.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2016.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2016.
5. Post-retirement cost of living allowances are assumed to be 2.50% per year. Adopted 2016.
6. Total active member payroll is assumed to increase 3.25% a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2016.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.
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. 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 Members				Police/Public Safety		Fire	
		Men		Women		Disability	Withdrawal	Disability	Withdrawal
		Disability	Withdrawal	Disability	Withdrawal				
All	0		19.00%		22.00%		18.00%		10.00%
	1		17.00		20.00		17.00		8.00
	2		15.00		17.00		16.00		7.00
	3		13.00		14.00		13.00		6.00
	4		11.00		13.00		12.00		6.00
25	5 & Over	0.09%	7.30	0.02%	10.80	0.10%	9.80	0.06%	5.00
30		0.12	6.50	0.03	8.90	0.11	7.80	0.10	4.00
35		0.15	5.00	0.06	7.40	0.16	6.10	0.23	2.80
40		0.21	3.70	0.10	5.70	0.22	4.40	0.35	2.20
45		0.30	3.00	0.16	4.20	0.34	3.20	0.56	1.80
50		0.44	2.40	0.24	3.30	0.53	1.80	0.85	1.00
55		0.68	1.80	0.34	2.50	0.88	1.00	1.31	0.50
60		1.02	1.00	0.48	1.20		0.00		0.00
65			0.00		0.00		0.00		0.00

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

Schedule 2.

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

Early Retirement

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

Normal Retirement

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

Schedule 2. (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	15%	15%	25%	25%
51	15	15	25	20
52	15	15	15	20
53	15	15	15	20
54	15	15	15	20
55	15	15	15	20
56	15	15	15	20
57	15	15	15	25
58	15	15	15	25
59	15	15	15	25
60	15	15	15	35
61	15	15	25	35
62	30	15	30	45
63	30	15	30	45
64	30	20	30	45
65	30	25	100	100
66	30	25		
67	30	25		
68	30	25		
69	30	25		
70	100	100		

APPENDIX III

SUMMARY OF LAGERS PROVISIONS

Missouri Local Government Employees Retirement System

Brief Summary of LAGERS

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

(Section references are to RSMo)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX IV

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

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 2020 - 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 Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 656	\$ 948	\$1,604	107%
2,000	875	1,095	1,970	99%
2,500	1,094	1,242	2,336	93%
3,000	1,313	1,388	2,701	90%
3,500	1,531	1,535	3,066	88%
4,000	1,750	1,682	3,432	86%
25 Years of Service:				
\$1,500	\$ 469	\$ 948	\$1,417	94%
2,000	625	1,095	1,720	86%
2,500	781	1,242	2,023	81%
3,000	938	1,388	2,326	78%
3,500	1,094	1,535	2,629	75%
4,000	1,250	1,682	2,932	73%
15 Years of Service:				
\$1,500	\$281	\$ 948	\$1,229	82%
2,000	375	1,095	1,470	74%
2,500	469	1,242	1,711	68%
3,000	563	1,388	1,951	65%
3,500	656	1,535	2,191	63%
4,000	750	1,682	2,432	61%

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 2020 - 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 Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 788	\$ 948	\$1,736	116%
2,000	1,050	1,095	2,145	107%
2,500	1,313	1,242	2,555	102%
3,000	1,575	1,388	2,963	99%
3,500	1,838	1,535	3,373	96%
4,000	2,100	1,682	3,782	95%
25 Years of Service:				
\$1,500	\$ 563	\$ 948	\$1,511	101%
2,000	750	1,095	1,845	92%
2,500	938	1,242	2,180	87%
3,000	1,125	1,388	2,513	84%
3,500	1,313	1,535	2,848	81%
4,000	1,500	1,682	3,182	80%
15 Years of Service:				
\$1,500	\$338	\$ 948	\$1,286	86%
2,000	450	1,095	1,545	77%
2,500	563	1,242	1,805	72%
3,000	675	1,388	2,063	69%
3,500	788	1,535	2,323	66%
4,000	900	1,682	2,582	65%

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 2020 - 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 Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 948	\$1,867	124%
2,000	1,225	1,095	2,320	116%
2,500	1,531	1,242	2,773	111%
3,000	1,838	1,388	3,226	108%
3,500	2,144	1,535	3,679	105%
4,000	2,450	1,682	4,132	103%
25 Years of Service:				
\$1,500	\$ 656	\$ 948	\$1,604	107%
2,000	875	1,095	1,970	99%
2,500	1,094	1,242	2,336	93%
3,000	1,313	1,388	2,701	90%
3,500	1,531	1,535	3,066	88%
4,000	1,750	1,682	3,432	86%
15 Years of Service:				
\$1,500	\$ 394	\$ 948	\$1,342	89%
2,000	525	1,095	1,620	81%
2,500	656	1,242	1,898	76%
3,000	788	1,388	2,176	73%
3,500	919	1,535	2,454	70%
4,000	1,050	1,682	2,732	68%

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 2020 - 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 Average Salary (FAS) ¹	LAGERS BENEFIT ³	Estimated Social Security ²	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 948	\$1,998	133%
2,000	1,400	1,095	2,495	125%
2,500	1,750	1,242	2,992	120%
3,000	2,100	1,388	3,488	116%
3,500	2,450	1,535	3,985	114%
4,000	2,800	1,682	4,482	112%
25 Years of Service:				
\$1,500	\$ 750	\$ 948	\$1,698	113%
2,000	1,000	1,095	2,095	105%
2,500	1,250	1,242	2,492	100%
3,000	1,500	1,388	2,888	96%
3,500	1,750	1,535	3,285	94%
4,000	2,000	1,682	3,682	92%
15 Years of Service:				
\$1,500	\$ 450	\$ 948	\$1,398	93%
2,000	600	1,095	1,695	85%
2,500	750	1,242	1,992	80%
3,000	900	1,388	2,288	76%
3,500	1,050	1,535	2,585	74%
4,000	1,200	1,682	2,882	72%

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 2020 - 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	\$ 948	\$1,050	\$1,473	70%	98%
2,000	1,400	700	1,095	1,400	1,795	70%	90%
2,500	1,750	875	1,242	1,750	2,117	70%	85%
3,000	2,100	1,050	1,388	2,100	2,438	70%	81%
3,500	2,450	1,225	1,535	2,450	2,760	70%	79%
4,000	2,800	1,400	1,682	2,800	3,082	70%	77%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 948	\$ 750	\$1,323	50%	88%
2,000	1,000	500	1,095	1,000	1,595	50%	80%
2,500	1,250	625	1,242	1,250	1,867	50%	75%
3,000	1,500	750	1,388	1,500	2,138	50%	71%
3,500	1,750	875	1,535	1,750	2,410	50%	69%
4,000	2,000	1,000	1,682	2,000	2,682	50%	67%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 948	\$ 450	\$1,173	30%	78%
2,000	600	300	1,095	600	1,395	30%	70%
2,500	750	375	1,242	750	1,617	30%	65%
3,000	900	450	1,388	900	1,838	30%	61%
3,500	1,050	525	1,535	1,050	2,060	30%	59%
4,000	1,200	600	1,682	1,200	2,282	30%	57%

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 2020 - 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	\$ 948	\$1,050	\$1,604	70%	107%
2,000	1,400	875	1,095	1,400	1,970	70%	99%
2,500	1,750	1,094	1,242	1,750	2,336	70%	93%
3,000	2,100	1,313	1,388	2,100	2,701	70%	90%
3,500	2,450	1,531	1,535	2,450	3,066	70%	88%
4,000	2,800	1,750	1,682	2,800	3,432	70%	86%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 948	\$ 750	\$1,417	50%	94%
2,000	1,000	625	1,095	1,000	1,720	50%	86%
2,500	1,250	781	1,242	1,250	2,023	50%	81%
3,000	1,500	938	1,388	1,500	2,326	50%	78%
3,500	1,750	1,094	1,535	1,750	2,629	50%	75%
4,000	2,000	1,250	1,682	2,000	2,932	50%	73%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 948	\$ 450	\$1,229	30%	82%
2,000	600	375	1,095	600	1,470	30%	74%
2,500	750	469	1,242	750	1,711	30%	68%
3,000	900	563	1,388	900	1,951	30%	65%
3,500	1,050	656	1,535	1,050	2,191	30%	63%
4,000	1,200	750	1,682	1,200	2,432	30%	61%

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 2020 - 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	\$ 948	\$1,050	\$1,736	70%	116%
2,000	1,400	1,050	1,095	1,400	2,145	70%	107%
2,500	1,750	1,313	1,242	1,750	2,555	70%	102%
3,000	2,100	1,575	1,388	2,100	2,963	70%	99%
3,500	2,450	1,838	1,535	2,450	3,373	70%	96%
4,000	2,800	2,100	1,682	2,800	3,782	70%	95%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 948	\$ 750	\$1,511	50%	101%
2,000	1,000	750	1,095	1,000	1,845	50%	92%
2,500	1,250	938	1,242	1,250	2,180	50%	87%
3,000	1,500	1,125	1,388	1,500	2,513	50%	84%
3,500	1,750	1,313	1,535	1,750	2,848	50%	81%
4,000	2,000	1,500	1,682	2,000	3,182	50%	80%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 948	\$ 450	\$1,286	30%	86%
2,000	600	450	1,095	600	1,545	30%	77%
2,500	750	563	1,242	750	1,805	30%	72%
3,000	900	675	1,388	900	2,063	30%	69%
3,500	1,050	788	1,535	1,050	2,323	30%	66%
4,000	1,200	900	1,682	1,200	2,582	30%	65%

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 2020 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

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

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 2020 - 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

High Ridge Fire Protection District - General

December 31, 2020

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39									
40-44									
45-49									
50-54	1		1					2	\$ 121,465
55-59									
60-64					1			1	\$ 61,071
65-69									
70 & Over									
Totals	1		1		1			3	\$ 182,536

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

Age: 55.2 years.

Benefit Service: 12.7 years.

Annual Pay: \$60,845.

High Ridge Fire Protection District - Fire

December 31, 2020

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29	6							6	\$ 385,134
30-34	1	2	2					5	\$ 361,391
35-39	4	2	1					7	\$ 447,511
40-44	1		2	1				4	\$ 313,407
45-49			2		1	1		4	\$ 296,559
50-54					1	1		2	\$ 177,766
55-59				1		2	3	6	\$ 513,895
60-64							1	1	\$ 105,103
65-69									
70 & Over									
Totals	12	4	7	2	2	4	4	35	\$ 2,600,766

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

Age: 41.1 years.

Benefit Service: 13.4 years.

Annual Pay: \$74,308.

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.



March 15, 2021 E-mail

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

Dear Bob:

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

High Ridge Fire Protection District

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



March 15, 2021

High Ridge Fire Protection District
High Ridge, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.660 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the December 31, 2020 Initial Valuation for the High Ridge Fire Protection District dated March 15, 2021.

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

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

Respectfully submitted,

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

Mita D. Drazilov, ASA, FCA, MAAA

High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2020	\$ 182,536	15.8%	\$28,841	\$ 255,034	19.6%	\$35,777	\$ 318,812	17.4%	\$31,761	\$ 278,118
2021	188,468	15.8	29,778	258,528	19.6	36,940	323,180	17.4	32,793	281,928
2022	194,593	15.8	30,746	261,788	19.6	38,140	327,255	17.4	33,859	285,483
2023	200,917	15.8	31,745	264,781	19.6	39,380	330,996	17.4	34,960	288,747
2024	207,447	15.8	32,777	267,471	19.6	40,660	334,359	17.4	36,096	291,681
2025	214,189	15.8	33,842	269,820	19.6	41,981	337,295	17.4	37,269	294,243
2026	221,150	15.8	34,942	271,785	19.6	43,345	339,752	17.4	38,480	296,386
2027	228,337	15.8	36,077	273,321	19.6	44,754	341,672	17.4	39,731	298,061
2028	235,758	15.8	37,250	274,378	19.6	46,209	342,993	17.4	41,022	299,214
2029	243,420	15.8	38,460	274,902	19.6	47,710	343,648	17.4	42,355	299,785

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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2020	\$ 182,536	20.9%	\$38,150	\$ 336,116	23.3%	\$42,531	\$ 382,561	24.2%	\$44,174	\$ 394,107
2021	188,468	20.9	39,390	340,721	23.3	43,913	387,802	24.2	45,609	399,506
2022	194,593	20.9	40,670	345,017	23.3	45,340	392,692	24.2	47,092	404,544
2023	200,917	20.9	41,992	348,962	23.3	46,814	397,182	24.2	48,622	409,169
2024	207,447	20.9	43,356	352,508	23.3	48,335	401,218	24.2	50,202	413,327
2025	214,189	20.9	44,766	355,604	23.3	49,906	404,742	24.2	51,834	416,957
2026	221,150	20.9	46,220	358,194	23.3	51,528	407,690	24.2	53,518	419,994
2027	228,337	20.9	47,722	360,218	23.3	53,203	409,994	24.2	55,258	422,368
2028	235,758	20.9	49,273	361,611	23.3	54,932	411,579	24.2	57,053	424,001
2029	243,420	20.9	50,875	362,301	23.3	56,717	412,365	24.2	58,908	424,811

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2020	\$ 182,536	27.1%	\$49,467	\$ 446,321	27.6%	\$50,380	\$ 452,093	31.0%	\$56,586	\$ 510,091
2021	188,468	27.1	51,075	452,436	27.6	52,017	458,287	31.0	58,425	517,079
2022	194,593	27.1	52,735	458,141	27.6	53,708	464,066	31.0	60,324	523,599
2023	200,917	27.1	54,449	463,379	27.6	55,453	469,372	31.0	62,284	529,585
2024	207,447	27.1	56,218	468,087	27.6	57,255	474,141	31.0	64,309	534,966
2025	214,189	27.1	58,045	472,198	27.6	59,116	478,305	31.0	66,399	539,664
2026	221,150	27.1	59,932	475,638	27.6	61,037	481,789	31.0	68,557	543,595
2027	228,337	27.1	61,879	478,326	27.6	63,021	484,512	31.0	70,784	546,667
2028	235,758	27.1	63,890	480,176	27.6	65,069	486,386	31.0	73,085	548,781
2029	243,420	27.1	65,967	481,093	27.6	67,184	487,315	31.0	75,460	549,829

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	13.9%	\$25,373	\$ 255,034	17.7%	\$32,309	\$ 318,812	15.5%	\$28,293	\$ 278,118
2021	188,468	13.9	26,197	258,528	17.7	33,359	323,180	15.5	29,213	281,928
2022	194,593	13.9	27,048	261,788	17.7	34,443	327,255	15.5	30,162	285,483
2023	200,917	13.9	27,927	264,781	17.7	35,562	330,996	15.5	31,142	288,747
2024	207,447	13.9	28,835	267,471	17.7	36,718	334,359	15.5	32,154	291,681
2025	214,189	13.9	29,772	269,820	17.7	37,911	337,295	15.5	33,199	294,243
2026	221,150	13.9	30,740	271,785	17.7	39,144	339,752	15.5	34,278	296,386
2027	228,337	13.9	31,739	273,321	17.7	40,416	341,672	15.5	35,392	298,061
2028	235,758	13.9	32,770	274,378	17.7	41,729	342,993	15.5	36,542	299,214
2029	243,420	13.9	33,835	274,902	17.7	43,085	343,648	15.5	37,730	299,785

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	
2020	\$ 182,536	19.0%	\$34,682	\$ 336,116	21.4%	\$39,063	\$ 382,561	22.3%	\$40,706	\$ 394,107
2021	188,468	19.0	35,809	340,721	21.4	40,332	387,802	22.3	42,028	399,506
2022	194,593	19.0	36,973	345,017	21.4	41,643	392,692	22.3	43,394	404,544
2023	200,917	19.0	38,174	348,962	21.4	42,996	397,182	22.3	44,804	409,169
2024	207,447	19.0	39,415	352,508	21.4	44,394	401,218	22.3	46,261	413,327
2025	214,189	19.0	40,696	355,604	21.4	45,836	404,742	22.3	47,764	416,957
2026	221,150	19.0	42,019	358,194	21.4	47,326	407,690	22.3	49,316	419,994
2027	228,337	19.0	43,384	360,218	21.4	48,864	409,994	22.3	50,919	422,368
2028	235,758	19.0	44,794	361,611	21.4	50,452	411,579	22.3	52,574	424,001
2029	243,420	19.0	46,250	362,301	21.4	52,092	412,365	22.3	54,283	424,811

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	
2020	\$ 182,536	25.2%	\$45,999	\$ 446,321	25.7%	\$46,912	\$ 452,093	29.1%	\$53,118	\$ 510,091
2021	188,468	25.2	47,494	452,436	25.7	48,436	458,287	29.1	54,844	517,079
2022	194,593	25.2	49,037	458,141	25.7	50,010	464,066	29.1	56,627	523,599
2023	200,917	25.2	50,631	463,379	25.7	51,636	469,372	29.1	58,467	529,585
2024	207,447	25.2	52,277	468,087	25.7	53,314	474,141	29.1	60,367	534,966
2025	214,189	25.2	53,976	472,198	25.7	55,047	478,305	29.1	62,329	539,664
2026	221,150	25.2	55,730	475,638	25.7	56,836	481,789	29.1	64,355	543,595
2027	228,337	25.2	57,541	478,326	25.7	58,683	484,512	29.1	66,446	546,667
2028	235,758	25.2	59,411	480,176	25.7	60,590	486,386	29.1	68,606	548,781
2029	243,420	25.2	61,342	481,093	25.7	62,559	487,315	29.1	70,835	549,829

Notes regarding the above projections:

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



High Ridge Fire Protection District - 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	
2020	\$ 182,536	12.0%	\$21,904	\$ 255,034	15.8%	\$28,841	\$ 318,812	13.6%	\$24,825	\$ 278,118
2021	188,468	12.0	22,616	258,528	15.8	29,778	323,180	13.6	25,632	281,928
2022	194,593	12.0	23,351	261,788	15.8	30,746	327,255	13.6	26,465	285,483
2023	200,917	12.0	24,110	264,781	15.8	31,745	330,996	13.6	27,325	288,747
2024	207,447	12.0	24,894	267,471	15.8	32,777	334,359	13.6	28,213	291,681
2025	214,189	12.0	25,703	269,820	15.8	33,842	337,295	13.6	29,130	294,243
2026	221,150	12.0	26,538	271,785	15.8	34,942	339,752	13.6	30,076	296,386
2027	228,337	12.0	27,400	273,321	15.8	36,077	341,672	13.6	31,054	298,061
2028	235,758	12.0	28,291	274,378	15.8	37,250	342,993	13.6	32,063	299,214
2029	243,420	12.0	29,210	274,902	15.8	38,460	343,648	13.6	33,105	299,785

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	
2020	\$ 182,536	17.1%	\$31,214	\$ 336,116	19.5%	\$35,595	\$ 382,561	20.4%	\$37,237	\$ 394,107
2021	188,468	17.1	32,228	340,721	19.5	36,751	387,802	20.4	38,447	399,506
2022	194,593	17.1	33,275	345,017	19.5	37,946	392,692	20.4	39,697	404,544
2023	200,917	17.1	34,357	348,962	19.5	39,179	397,182	20.4	40,987	409,169
2024	207,447	17.1	35,473	352,508	19.5	40,452	401,218	20.4	42,319	413,327
2025	214,189	17.1	36,626	355,604	19.5	41,767	404,742	20.4	43,695	416,957
2026	221,150	17.1	37,817	358,194	19.5	43,124	407,690	20.4	45,115	419,994
2027	228,337	17.1	39,046	360,218	19.5	44,526	409,994	20.4	46,581	422,368
2028	235,758	17.1	40,315	361,611	19.5	45,973	411,579	20.4	48,095	424,001
2029	243,420	17.1	41,625	362,301	19.5	47,467	412,365	20.4	49,658	424,811

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	
2020	\$ 182,536	23.3%	\$42,531	\$ 446,321	23.8%	\$43,444	\$ 452,093	27.2%	\$49,650	\$ 510,091
2021	188,468	23.3	43,913	452,436	23.8	44,855	458,287	27.2	51,263	517,079
2022	194,593	23.3	45,340	458,141	23.8	46,313	464,066	27.2	52,929	523,599
2023	200,917	23.3	46,814	463,379	23.8	47,818	469,372	27.2	54,649	529,585
2024	207,447	23.3	48,335	468,087	23.8	49,372	474,141	27.2	56,426	534,966
2025	214,189	23.3	49,906	472,198	23.8	50,977	478,305	27.2	58,259	539,664
2026	221,150	23.3	51,528	475,638	23.8	52,634	481,789	27.2	60,153	543,595
2027	228,337	23.3	53,203	478,326	23.8	54,344	484,512	27.2	62,108	546,667
2028	235,758	23.3	54,932	480,176	23.8	56,110	486,386	27.2	64,126	548,781
2029	243,420	23.3	56,717	481,093	23.8	57,934	487,315	27.2	66,210	549,829

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	10.1%	\$18,436	\$ 255,034	13.9%	\$25,373	\$ 318,812	11.7%	\$21,357	\$ 278,118
2021	188,468	10.1	19,035	258,528	13.9	26,197	323,180	11.7	22,051	281,928
2022	194,593	10.1	19,654	261,788	13.9	27,048	327,255	11.7	22,767	285,483
2023	200,917	10.1	20,293	264,781	13.9	27,927	330,996	11.7	23,507	288,747
2024	207,447	10.1	20,952	267,471	13.9	28,835	334,359	11.7	24,271	291,681
2025	214,189	10.1	21,633	269,820	13.9	29,772	337,295	11.7	25,060	294,243
2026	221,150	10.1	22,336	271,785	13.9	30,740	339,752	11.7	25,875	296,386
2027	228,337	10.1	23,062	273,321	13.9	31,739	341,672	11.7	26,715	298,061
2028	235,758	10.1	23,812	274,378	13.9	32,770	342,993	11.7	27,584	299,214
2029	243,420	10.1	24,585	274,902	13.9	33,835	343,648	11.7	28,480	299,785

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	
2020	\$ 182,536	15.2%	\$27,745	\$ 336,116	17.6%	\$32,126	\$ 382,561	18.5%	\$33,769	\$ 394,107
2021	188,468	15.2	28,647	340,721	17.6	33,170	387,802	18.5	34,867	399,506
2022	194,593	15.2	29,578	345,017	17.6	34,248	392,692	18.5	36,000	404,544
2023	200,917	15.2	30,539	348,962	17.6	35,361	397,182	18.5	37,170	409,169
2024	207,447	15.2	31,532	352,508	17.6	36,511	401,218	18.5	38,378	413,327
2025	214,189	15.2	32,557	355,604	17.6	37,697	404,742	18.5	39,625	416,957
2026	221,150	15.2	33,615	358,194	17.6	38,922	407,690	18.5	40,913	419,994
2027	228,337	15.2	34,707	360,218	17.6	40,187	409,994	18.5	42,242	422,368
2028	235,758	15.2	35,835	361,611	17.6	41,493	411,579	18.5	43,615	424,001
2029	243,420	15.2	37,000	362,301	17.6	42,842	412,365	18.5	45,033	424,811

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	
2020	\$ 182,536	21.4%	\$39,063	\$ 446,321	21.9%	\$39,975	\$ 452,093	25.3%	\$46,182	\$ 510,091
2021	188,468	21.4	40,332	452,436	21.9	41,274	458,287	25.3	47,682	517,079
2022	194,593	21.4	41,643	458,141	21.9	42,616	464,066	25.3	49,232	523,599
2023	200,917	21.4	42,996	463,379	21.9	44,001	469,372	25.3	50,832	529,585
2024	207,447	21.4	44,394	468,087	21.9	45,431	474,141	25.3	52,484	534,966
2025	214,189	21.4	45,836	472,198	21.9	46,907	478,305	25.3	54,190	539,664
2026	221,150	21.4	47,326	475,638	21.9	48,432	481,789	25.3	55,951	543,595
2027	228,337	21.4	48,864	478,326	21.9	50,006	484,512	25.3	57,769	546,667
2028	235,758	21.4	50,452	480,176	21.9	51,631	486,386	25.3	59,647	548,781
2029	243,420	21.4	52,092	481,093	21.9	53,309	487,315	25.3	61,585	549,829

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	16.4%	\$29,936	\$ 263,622	20.2%	\$36,872	\$ 329,514	18.0%	\$32,856	\$ 287,494
2021	188,468	16.4	30,909	267,234	20.2	38,071	334,028	18.0	33,924	291,433
2022	194,593	16.4	31,913	270,604	20.2	39,308	338,240	18.0	35,027	295,108
2023	200,917	16.4	32,950	273,698	20.2	40,585	342,107	18.0	36,165	298,482
2024	207,447	16.4	34,021	276,479	20.2	41,904	345,583	18.0	37,340	301,515
2025	214,189	16.4	35,127	278,907	20.2	43,266	348,618	18.0	38,554	304,163
2026	221,150	16.4	36,269	280,939	20.2	44,672	351,157	18.0	39,807	306,379
2027	228,337	16.4	37,447	282,527	20.2	46,124	353,142	18.0	41,101	308,111
2028	235,758	16.4	38,664	283,620	20.2	47,623	354,508	18.0	42,436	309,302
2029	243,420	16.4	39,921	284,162	20.2	49,171	355,185	18.0	43,816	309,893

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	
2020	\$ 182,536	21.5%	\$39,245	\$ 347,439	24.1%	\$43,991	\$ 395,406	25.0%	\$45,634	\$ 407,352
2021	188,468	21.5	40,521	352,199	24.1	45,421	400,823	25.0	47,117	412,933
2022	194,593	21.5	41,837	356,640	24.1	46,897	405,877	25.0	48,648	418,140
2023	200,917	21.5	43,197	360,717	24.1	48,421	410,517	25.0	50,229	422,921
2024	207,447	21.5	44,601	364,382	24.1	49,995	414,688	25.0	51,862	427,218
2025	214,189	21.5	46,051	367,582	24.1	51,620	418,330	25.0	53,547	430,970
2026	221,150	21.5	47,547	370,260	24.1	53,297	421,377	25.0	55,288	434,109
2027	228,337	21.5	49,092	372,353	24.1	55,029	423,758	25.0	57,084	436,562
2028	235,758	21.5	50,688	373,793	24.1	56,818	425,397	25.0	58,940	438,250
2029	243,420	21.5	52,335	374,507	24.1	58,664	426,209	25.0	60,855	439,087

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	
2020	\$ 182,536	28.0%	\$51,110	\$ 461,330	28.4%	\$51,840	\$ 467,304	31.9%	\$58,229	\$ 527,228
2021	188,468	28.0	52,771	467,650	28.4	53,525	473,706	31.9	60,121	534,451
2022	194,593	28.0	54,486	473,547	28.4	55,264	479,679	31.9	62,075	541,190
2023	200,917	28.0	56,257	478,961	28.4	57,060	485,163	31.9	64,093	547,377
2024	207,447	28.0	58,085	483,828	28.4	58,915	490,093	31.9	66,176	552,939
2025	214,189	28.0	59,973	488,077	28.4	60,830	494,397	31.9	68,326	557,795
2026	221,150	28.0	61,922	491,632	28.4	62,807	497,998	31.9	70,547	561,858
2027	228,337	28.0	63,934	494,411	28.4	64,848	500,813	31.9	72,840	565,033
2028	235,758	28.0	66,012	496,323	28.4	66,955	502,750	31.9	75,207	567,218
2029	243,420	28.0	68,158	497,271	28.4	69,131	503,710	31.9	77,651	568,301

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	14.5%	\$26,468	\$ 263,622	18.3%	\$33,404	\$ 329,514	16.1%	\$29,388	\$ 287,494
2021	188,468	14.5	27,328	267,234	18.3	34,490	334,028	16.1	30,343	291,433
2022	194,593	14.5	28,216	270,604	18.3	35,611	338,240	16.1	31,329	295,108
2023	200,917	14.5	29,133	273,698	18.3	36,768	342,107	16.1	32,348	298,482
2024	207,447	14.5	30,080	276,479	18.3	37,963	345,583	16.1	33,399	301,515
2025	214,189	14.5	31,057	278,907	18.3	39,197	348,618	16.1	34,484	304,163
2026	221,150	14.5	32,067	280,939	18.3	40,470	351,157	16.1	35,605	306,379
2027	228,337	14.5	33,109	282,527	18.3	41,786	353,142	16.1	36,762	308,111
2028	235,758	14.5	34,185	283,620	18.3	43,144	354,508	16.1	37,957	309,302
2029	243,420	14.5	35,296	284,162	18.3	44,546	355,185	16.1	39,191	309,893

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	
2020	\$ 182,536	19.6%	\$35,777	\$ 347,439	22.2%	\$40,523	\$ 395,406	23.1%	\$42,166	\$ 407,352
2021	188,468	19.6	36,940	352,199	22.2	41,840	400,823	23.1	43,536	412,933
2022	194,593	19.6	38,140	356,640	22.2	43,200	405,877	23.1	44,951	418,140
2023	200,917	19.6	39,380	360,717	22.2	44,604	410,517	23.1	46,412	422,921
2024	207,447	19.6	40,660	364,382	22.2	46,053	414,688	23.1	47,920	427,218
2025	214,189	19.6	41,981	367,582	22.2	47,550	418,330	23.1	49,478	430,970
2026	221,150	19.6	43,345	370,260	22.2	49,095	421,377	23.1	51,086	434,109
2027	228,337	19.6	44,754	372,353	22.2	50,691	423,758	23.1	52,746	436,562
2028	235,758	19.6	46,209	373,793	22.2	52,338	425,397	23.1	54,460	438,250
2029	243,420	19.6	47,710	374,507	22.2	54,039	426,209	23.1	56,230	439,087

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	
2020	\$ 182,536	26.1%	\$47,642	\$ 461,330	26.5%	\$48,372	\$ 467,304	30.0%	\$54,761	\$ 527,228
2021	188,468	26.1	49,190	467,650	26.5	49,944	473,706	30.0	56,540	534,451
2022	194,593	26.1	50,789	473,547	26.5	51,567	479,679	30.0	58,378	541,190
2023	200,917	26.1	52,439	478,961	26.5	53,243	485,163	30.0	60,275	547,377
2024	207,447	26.1	54,144	483,828	26.5	54,973	490,093	30.0	62,234	552,939
2025	214,189	26.1	55,903	488,077	26.5	56,760	494,397	30.0	64,257	557,795
2026	221,150	26.1	57,720	491,632	26.5	58,605	497,998	30.0	66,345	561,858
2027	228,337	26.1	59,596	494,411	26.5	60,509	500,813	30.0	68,501	565,033
2028	235,758	26.1	61,533	496,323	26.5	62,476	502,750	30.0	70,727	567,218
2029	243,420	26.1	63,533	497,271	26.5	64,506	503,710	30.0	73,026	568,301

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	12.6%	\$23,000	\$ 263,622	16.4%	\$29,936	\$ 329,514	14.2%	\$25,920	\$ 287,494
2021	188,468	12.6	23,747	267,234	16.4	30,909	334,028	14.2	26,762	291,433
2022	194,593	12.6	24,519	270,604	16.4	31,913	338,240	14.2	27,632	295,108
2023	200,917	12.6	25,316	273,698	16.4	32,950	342,107	14.2	28,530	298,482
2024	207,447	12.6	26,138	276,479	16.4	34,021	345,583	14.2	29,457	301,515
2025	214,189	12.6	26,988	278,907	16.4	35,127	348,618	14.2	30,415	304,163
2026	221,150	12.6	27,865	280,939	16.4	36,269	351,157	14.2	31,403	306,379
2027	228,337	12.6	28,770	282,527	16.4	37,447	353,142	14.2	32,424	308,111
2028	235,758	12.6	29,706	283,620	16.4	38,664	354,508	14.2	33,478	309,302
2029	243,420	12.6	30,671	284,162	16.4	39,921	355,185	14.2	34,566	309,893

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	
2020	\$ 182,536	17.7%	\$32,309	\$ 347,439	20.3%	\$37,055	\$ 395,406	21.2%	\$38,698	\$ 407,352
2021	188,468	17.7	33,359	352,199	20.3	38,259	400,823	21.2	39,955	412,933
2022	194,593	17.7	34,443	356,640	20.3	39,502	405,877	21.2	41,254	418,140
2023	200,917	17.7	35,562	360,717	20.3	40,786	410,517	21.2	42,594	422,921
2024	207,447	17.7	36,718	364,382	20.3	42,112	414,688	21.2	43,979	427,218
2025	214,189	17.7	37,911	367,582	20.3	43,480	418,330	21.2	45,408	430,970
2026	221,150	17.7	39,144	370,260	20.3	44,893	421,377	21.2	46,884	434,109
2027	228,337	17.7	40,416	372,353	20.3	46,352	423,758	21.2	48,407	436,562
2028	235,758	17.7	41,729	373,793	20.3	47,859	425,397	21.2	49,981	438,250
2029	243,420	17.7	43,085	374,507	20.3	49,414	426,209	21.2	51,605	439,087

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	
2020	\$ 182,536	24.2%	\$44,174	\$ 461,330	24.6%	\$44,904	\$ 467,304	28.1%	\$51,293	\$ 527,228
2021	188,468	24.2	45,609	467,650	24.6	46,363	473,706	28.1	52,960	534,451
2022	194,593	24.2	47,092	473,547	24.6	47,870	479,679	28.1	54,681	541,190
2023	200,917	24.2	48,622	478,961	24.6	49,426	485,163	28.1	56,458	547,377
2024	207,447	24.2	50,202	483,828	24.6	51,032	490,093	28.1	58,293	552,939
2025	214,189	24.2	51,834	488,077	24.6	52,690	494,397	28.1	60,187	557,795
2026	221,150	24.2	53,518	491,632	24.6	54,403	497,998	28.1	62,143	561,858
2027	228,337	24.2	55,258	494,411	24.6	56,171	500,813	28.1	64,163	565,033
2028	235,758	24.2	57,053	496,323	24.6	57,996	502,750	28.1	66,248	567,218
2029	243,420	24.2	58,908	497,271	24.6	59,881	503,710	28.1	68,401	568,301

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	10.7%	\$19,531	\$ 263,622	14.5%	\$26,468	\$ 329,514	12.3%	\$22,452	\$ 287,494
2021	188,468	10.7	20,166	267,234	14.5	27,328	334,028	12.3	23,182	291,433
2022	194,593	10.7	20,821	270,604	14.5	28,216	338,240	12.3	23,935	295,108
2023	200,917	10.7	21,498	273,698	14.5	29,133	342,107	12.3	24,713	298,482
2024	207,447	10.7	22,197	276,479	14.5	30,080	345,583	12.3	25,516	301,515
2025	214,189	10.7	22,918	278,907	14.5	31,057	348,618	12.3	26,345	304,163
2026	221,150	10.7	23,663	280,939	14.5	32,067	351,157	12.3	27,201	306,379
2027	228,337	10.7	24,432	282,527	14.5	33,109	353,142	12.3	28,085	308,111
2028	235,758	10.7	25,226	283,620	14.5	34,185	354,508	12.3	28,998	309,302
2029	243,420	10.7	26,046	284,162	14.5	35,296	355,185	12.3	29,941	309,893

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	
2020	\$ 182,536	15.8%	\$28,841	\$ 347,439	18.4%	\$33,587	\$ 395,406	19.3%	\$35,229	\$ 407,352
2021	188,468	15.8	29,778	352,199	18.4	34,678	400,823	19.3	36,374	412,933
2022	194,593	15.8	30,746	356,640	18.4	35,805	405,877	19.3	37,556	418,140
2023	200,917	15.8	31,745	360,717	18.4	36,969	410,517	19.3	38,777	422,921
2024	207,447	15.8	32,777	364,382	18.4	38,170	414,688	19.3	40,037	427,218
2025	214,189	15.8	33,842	367,582	18.4	39,411	418,330	19.3	41,338	430,970
2026	221,150	15.8	34,942	370,260	18.4	40,692	421,377	19.3	42,682	434,109
2027	228,337	15.8	36,077	372,353	18.4	42,014	423,758	19.3	44,069	436,562
2028	235,758	15.8	37,250	373,793	18.4	43,379	425,397	19.3	45,501	438,250
2029	243,420	15.8	38,460	374,507	18.4	44,789	426,209	19.3	46,980	439,087

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	
2020	\$ 182,536	22.3%	\$40,706	\$ 461,330	22.7%	\$41,436	\$ 467,304	26.2%	\$47,824	\$ 527,228
2021	188,468	22.3	42,028	467,650	22.7	42,782	473,706	26.2	49,379	534,451
2022	194,593	22.3	43,394	473,547	22.7	44,173	479,679	26.2	50,983	541,190
2023	200,917	22.3	44,804	478,961	22.7	45,608	485,163	26.2	52,640	547,377
2024	207,447	22.3	46,261	483,828	22.7	47,090	490,093	26.2	54,351	552,939
2025	214,189	22.3	47,764	488,077	22.7	48,621	494,397	26.2	56,118	557,795
2026	221,150	22.3	49,316	491,632	22.7	50,201	497,998	26.2	57,941	561,858
2027	228,337	22.3	50,919	494,411	22.7	51,832	500,813	26.2	59,824	565,033
2028	235,758	22.3	52,574	496,323	22.7	53,517	502,750	26.2	61,769	567,218
2029	243,420	22.3	54,283	497,271	22.7	55,256	503,710	26.2	63,776	568,301

Notes regarding the above projections:

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



High Ridge Fire Protection District - 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	
2020	\$ 182,536	15.9%	\$29,023	\$ 255,591	19.7%	\$35,960	\$ 319,507	17.7%	\$32,309	\$ 278,657
2021	188,468	15.9	29,966	259,093	19.7	37,128	323,884	17.7	33,359	282,475
2022	194,593	15.9	30,940	262,360	19.7	38,335	327,968	17.7	34,443	286,037
2023	200,917	15.9	31,946	265,360	19.7	39,581	331,718	17.7	35,562	289,307
2024	207,447	15.9	32,984	268,056	19.7	40,867	335,089	17.7	36,718	292,247
2025	214,189	15.9	34,056	270,410	19.7	42,195	338,032	17.7	37,911	294,814
2026	221,150	15.9	35,163	272,380	19.7	43,567	340,494	17.7	39,144	296,962
2027	228,337	15.9	36,306	273,919	19.7	44,982	342,418	17.7	40,416	298,640
2028	235,758	15.9	37,486	274,978	19.7	46,444	343,742	17.7	41,729	299,795
2029	243,420	15.9	38,704	275,503	19.7	47,954	344,398	17.7	43,085	300,367

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	
2020	\$ 182,536	21.1%	\$38,515	\$ 336,795	23.4%	\$42,713	\$ 383,384	24.3%	\$44,356	\$ 394,923
2021	188,468	21.1	39,767	341,409	23.4	44,102	388,636	24.3	45,798	400,333
2022	194,593	21.1	41,059	345,714	23.4	45,535	393,536	24.3	47,286	405,381
2023	200,917	21.1	42,393	349,667	23.4	47,015	398,035	24.3	48,823	410,016
2024	207,447	21.1	43,771	353,220	23.4	48,543	402,079	24.3	50,410	414,182
2025	214,189	21.1	45,194	356,322	23.4	50,120	405,610	24.3	52,048	417,819
2026	221,150	21.1	46,663	358,918	23.4	51,749	408,565	24.3	53,739	420,863
2027	228,337	21.1	48,179	360,946	23.4	53,431	410,874	24.3	55,486	423,242
2028	235,758	21.1	49,745	362,342	23.4	55,167	412,463	24.3	57,289	424,879
2029	243,420	21.1	51,362	363,034	23.4	56,960	413,251	24.3	59,151	425,690

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	
2020	\$ 182,536	27.3%	\$49,832	\$ 447,286	27.7%	\$50,562	\$ 453,053	31.1%	\$56,769	\$ 511,198
2021	188,468	27.3	51,452	453,414	27.7	52,206	459,260	31.1	58,614	518,201
2022	194,593	27.3	53,124	459,131	27.7	53,902	465,051	31.1	60,518	524,735
2023	200,917	27.3	54,850	464,380	27.7	55,654	470,368	31.1	62,485	530,734
2024	207,447	27.3	56,633	469,099	27.7	57,463	475,147	31.1	64,516	536,127
2025	214,189	27.3	58,474	473,219	27.7	59,330	479,320	31.1	66,613	540,835
2026	221,150	27.3	60,374	476,666	27.7	61,259	482,812	31.1	68,778	544,775
2027	228,337	27.3	62,336	479,360	27.7	63,249	485,541	31.1	71,013	547,854
2028	235,758	27.3	64,362	481,214	27.7	65,305	487,419	31.1	73,321	549,973
2029	243,420	27.3	66,454	482,133	27.7	67,427	488,350	31.1	75,704	551,023

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	14.0%	\$25,555	\$ 255,591	17.8%	\$32,491	\$ 319,507	15.8%	\$28,841	\$ 278,657
2021	188,468	14.0	26,386	259,093	17.8	33,547	323,884	15.8	29,778	282,475
2022	194,593	14.0	27,243	262,360	17.8	34,638	327,968	15.8	30,746	286,037
2023	200,917	14.0	28,128	265,360	17.8	35,763	331,718	15.8	31,745	289,307
2024	207,447	14.0	29,043	268,056	17.8	36,926	335,089	15.8	32,777	292,247
2025	214,189	14.0	29,986	270,410	17.8	38,126	338,032	15.8	33,842	294,814
2026	221,150	14.0	30,961	272,380	17.8	39,365	340,494	15.8	34,942	296,962
2027	228,337	14.0	31,967	273,919	17.8	40,644	342,418	15.8	36,077	298,640
2028	235,758	14.0	33,006	274,978	17.8	41,965	343,742	15.8	37,250	299,795
2029	243,420	14.0	34,079	275,503	17.8	43,329	344,398	15.8	38,460	300,367

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	
2020	\$ 182,536	19.2%	\$35,047	\$ 336,795	21.5%	\$39,245	\$ 383,384	22.4%	\$40,888	\$ 394,923
2021	188,468	19.2	36,186	341,409	21.5	40,521	388,636	22.4	42,217	400,333
2022	194,593	19.2	37,362	345,714	21.5	41,837	393,536	22.4	43,589	405,381
2023	200,917	19.2	38,576	349,667	21.5	43,197	398,035	22.4	45,005	410,016
2024	207,447	19.2	39,830	353,220	21.5	44,601	402,079	22.4	46,468	414,182
2025	214,189	19.2	41,124	356,322	21.5	46,051	405,610	22.4	47,978	417,819
2026	221,150	19.2	42,461	358,918	21.5	47,547	408,565	22.4	49,538	420,863
2027	228,337	19.2	43,841	360,946	21.5	49,092	410,874	22.4	51,147	423,242
2028	235,758	19.2	45,266	362,342	21.5	50,688	412,463	22.4	52,810	424,879
2029	243,420	19.2	46,737	363,034	21.5	52,335	413,251	22.4	54,526	425,690

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	
2020	\$ 182,536	25.4%	\$46,364	\$ 447,286	25.8%	\$47,094	\$ 453,053	29.2%	\$53,301	\$ 511,198
2021	188,468	25.4	47,871	453,414	25.8	48,625	459,260	29.2	55,033	518,201
2022	194,593	25.4	49,427	459,131	25.8	50,205	465,051	29.2	56,821	524,735
2023	200,917	25.4	51,033	464,380	25.8	51,837	470,368	29.2	58,668	530,734
2024	207,447	25.4	52,692	469,099	25.8	53,521	475,147	29.2	60,575	536,127
2025	214,189	25.4	54,404	473,219	25.8	55,261	479,320	29.2	62,543	540,835
2026	221,150	25.4	56,172	476,666	25.8	57,057	482,812	29.2	64,576	544,775
2027	228,337	25.4	57,998	479,360	25.8	58,911	485,541	29.2	66,674	547,854
2028	235,758	25.4	59,883	481,214	25.8	60,826	487,419	29.2	68,841	549,973
2029	243,420	25.4	61,829	482,133	25.8	62,802	488,350	29.2	71,079	551,023

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	12.1%	\$22,087	\$ 255,591	15.9%	\$29,023	\$ 319,507	13.9%	\$25,373	\$ 278,657
2021	188,468	12.1	22,805	259,093	15.9	29,966	323,884	13.9	26,197	282,475
2022	194,593	12.1	23,546	262,360	15.9	30,940	327,968	13.9	27,048	286,037
2023	200,917	12.1	24,311	265,360	15.9	31,946	331,718	13.9	27,927	289,307
2024	207,447	12.1	25,101	268,056	15.9	32,984	335,089	13.9	28,835	292,247
2025	214,189	12.1	25,917	270,410	15.9	34,056	338,032	13.9	29,772	294,814
2026	221,150	12.1	26,759	272,380	15.9	35,163	340,494	13.9	30,740	296,962
2027	228,337	12.1	27,629	273,919	15.9	36,306	342,418	13.9	31,739	298,640
2028	235,758	12.1	28,527	274,978	15.9	37,486	343,742	13.9	32,770	299,795
2029	243,420	12.1	29,454	275,503	15.9	38,704	344,398	13.9	33,835	300,367

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	
2020	\$ 182,536	17.3%	\$31,579	\$ 336,795	19.6%	\$35,777	\$ 383,384	20.5%	\$37,420	\$ 394,923
2021	188,468	17.3	32,605	341,409	19.6	36,940	388,636	20.5	38,636	400,333
2022	194,593	17.3	33,665	345,714	19.6	38,140	393,536	20.5	39,892	405,381
2023	200,917	17.3	34,759	349,667	19.6	39,380	398,035	20.5	41,188	410,016
2024	207,447	17.3	35,888	353,220	19.6	40,660	402,079	20.5	42,527	414,182
2025	214,189	17.3	37,055	356,322	19.6	41,981	405,610	20.5	43,909	417,819
2026	221,150	17.3	38,259	358,918	19.6	43,345	408,565	20.5	45,336	420,863
2027	228,337	17.3	39,502	360,946	19.6	44,754	410,874	20.5	46,809	423,242
2028	235,758	17.3	40,786	362,342	19.6	46,209	412,463	20.5	48,330	424,879
2029	243,420	17.3	42,112	363,034	19.6	47,710	413,251	20.5	49,901	425,690

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	
2020	\$ 182,536	23.5%	\$42,896	\$ 447,286	23.9%	\$43,626	\$ 453,053	27.3%	\$49,832	\$ 511,198
2021	188,468	23.5	44,290	453,414	23.9	45,044	459,260	27.3	51,452	518,201
2022	194,593	23.5	45,729	459,131	23.9	46,508	465,051	27.3	53,124	524,735
2023	200,917	23.5	47,215	464,380	23.9	48,019	470,368	27.3	54,850	530,734
2024	207,447	23.5	48,750	469,099	23.9	49,580	475,147	27.3	56,633	536,127
2025	214,189	23.5	50,334	473,219	23.9	51,191	479,320	27.3	58,474	540,835
2026	221,150	23.5	51,970	476,666	23.9	52,855	482,812	27.3	60,374	544,775
2027	228,337	23.5	53,659	479,360	23.9	54,573	485,541	27.3	62,336	547,854
2028	235,758	23.5	55,403	481,214	23.9	56,346	487,419	27.3	64,362	549,973
2029	243,420	23.5	57,204	482,133	23.9	58,177	488,350	27.3	66,454	551,023

Notes regarding the above projections:

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



High Ridge Fire Protection District - 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	
2020	\$ 182,536	10.2%	\$18,619	\$ 255,591	14.0%	\$25,555	\$ 319,507	12.0%	\$21,904	\$ 278,657
2021	188,468	10.2	19,224	259,093	14.0	26,386	323,884	12.0	22,616	282,475
2022	194,593	10.2	19,848	262,360	14.0	27,243	327,968	12.0	23,351	286,037
2023	200,917	10.2	20,494	265,360	14.0	28,128	331,718	12.0	24,110	289,307
2024	207,447	10.2	21,160	268,056	14.0	29,043	335,089	12.0	24,894	292,247
2025	214,189	10.2	21,847	270,410	14.0	29,986	338,032	12.0	25,703	294,814
2026	221,150	10.2	22,557	272,380	14.0	30,961	340,494	12.0	26,538	296,962
2027	228,337	10.2	23,290	273,919	14.0	31,967	342,418	12.0	27,400	298,640
2028	235,758	10.2	24,047	274,978	14.0	33,006	343,742	12.0	28,291	299,795
2029	243,420	10.2	24,829	275,503	14.0	34,079	344,398	12.0	29,210	300,367

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	
2020	\$ 182,536	15.4%	\$28,111	\$ 336,795	17.7%	\$32,309	\$ 383,384	18.6%	\$33,952	\$ 394,923
2021	188,468	15.4	29,024	341,409	17.7	33,359	388,636	18.6	35,055	400,333
2022	194,593	15.4	29,967	345,714	17.7	34,443	393,536	18.6	36,194	405,381
2023	200,917	15.4	30,941	349,667	17.7	35,562	398,035	18.6	37,371	410,016
2024	207,447	15.4	31,947	353,220	17.7	36,718	402,079	18.6	38,585	414,182
2025	214,189	15.4	32,985	356,322	17.7	37,911	405,610	18.6	39,839	417,819
2026	221,150	15.4	34,057	358,918	17.7	39,144	408,565	18.6	41,134	420,863
2027	228,337	15.4	35,164	360,946	17.7	40,416	410,874	18.6	42,471	423,242
2028	235,758	15.4	36,307	362,342	17.7	41,729	412,463	18.6	43,851	424,879
2029	243,420	15.4	37,487	363,034	17.7	43,085	413,251	18.6	45,276	425,690

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	
2020	\$ 182,536	21.6%	\$39,428	\$ 447,286	22.0%	\$40,158	\$ 453,053	25.4%	\$46,364	\$ 511,198
2021	188,468	21.6	40,709	453,414	22.0	41,463	459,260	25.4	47,871	518,201
2022	194,593	21.6	42,032	459,131	22.0	42,810	465,051	25.4	49,427	524,735
2023	200,917	21.6	43,398	464,380	22.0	44,202	470,368	25.4	51,033	530,734
2024	207,447	21.6	44,809	469,099	22.0	45,638	475,147	25.4	52,692	536,127
2025	214,189	21.6	46,265	473,219	22.0	47,122	479,320	25.4	54,404	540,835
2026	221,150	21.6	47,768	476,666	22.0	48,653	482,812	25.4	56,172	544,775
2027	228,337	21.6	49,321	479,360	22.0	50,234	485,541	25.4	57,998	547,854
2028	235,758	21.6	50,924	481,214	22.0	51,867	487,419	25.4	59,883	549,973
2029	243,420	21.6	52,579	482,133	22.0	53,552	488,350	25.4	61,829	551,023

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	16.4%	\$29,936	\$ 264,203	20.4%	\$37,237	\$ 330,240	18.3%	\$33,404	\$ 288,058
2021	188,468	16.4	30,909	267,823	20.4	38,447	334,764	18.3	34,490	292,004
2022	194,593	16.4	31,913	271,200	20.4	39,697	338,985	18.3	35,611	295,686
2023	200,917	16.4	32,950	274,301	20.4	40,987	342,861	18.3	36,768	299,067
2024	207,447	16.4	34,021	277,088	20.4	42,319	346,345	18.3	37,963	302,106
2025	214,189	16.4	35,127	279,521	20.4	43,695	349,387	18.3	39,197	304,759
2026	221,150	16.4	36,269	281,557	20.4	45,115	351,932	18.3	40,470	306,979
2027	228,337	16.4	37,447	283,148	20.4	46,581	353,921	18.3	41,786	308,714
2028	235,758	16.4	38,664	284,243	20.4	48,095	355,290	18.3	43,144	309,908
2029	243,420	16.4	39,921	284,786	20.4	49,658	355,968	18.3	44,546	310,500

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	
2020	\$ 182,536	21.7%	\$39,610	\$ 348,149	24.2%	\$44,174	\$ 396,276	25.1%	\$45,817	\$ 408,216
2021	188,468	21.7	40,898	352,919	24.2	45,609	401,705	25.1	47,305	413,808
2022	194,593	21.7	42,227	357,369	24.2	47,092	406,770	25.1	48,843	419,026
2023	200,917	21.7	43,599	361,455	24.2	48,622	411,421	25.1	50,430	423,817
2024	207,447	21.7	45,016	365,128	24.2	50,202	415,601	25.1	52,069	428,123
2025	214,189	21.7	46,479	368,335	24.2	51,834	419,251	25.1	53,761	431,883
2026	221,150	21.7	47,990	371,018	24.2	53,518	422,305	25.1	55,509	435,029
2027	228,337	21.7	49,549	373,115	24.2	55,258	424,692	25.1	57,313	437,488
2028	235,758	21.7	51,159	374,558	24.2	57,053	426,334	25.1	59,175	439,180
2029	243,420	21.7	52,822	375,273	24.2	58,908	427,148	25.1	61,098	440,019

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	
2020	\$ 182,536	28.2%	\$51,475	\$ 462,351	28.6%	\$52,205	\$ 468,319	32.1%	\$58,594	\$ 528,390
2021	188,468	28.2	53,148	468,685	28.6	53,902	474,735	32.1	60,498	535,629
2022	194,593	28.2	54,875	474,595	28.6	55,654	480,721	32.1	62,464	542,383
2023	200,917	28.2	56,659	480,021	28.6	57,462	486,217	32.1	64,494	548,584
2024	207,447	28.2	58,500	484,898	28.6	59,330	491,157	32.1	66,590	554,158
2025	214,189	28.2	60,401	489,157	28.6	61,258	495,471	32.1	68,755	559,025
2026	221,150	28.2	62,364	492,720	28.6	63,249	499,080	32.1	70,989	563,097
2027	228,337	28.2	64,391	495,505	28.6	65,304	501,901	32.1	73,296	566,279
2028	235,758	28.2	66,484	497,421	28.6	67,427	503,842	32.1	75,678	568,469
2029	243,420	28.2	68,644	498,371	28.6	69,618	504,804	32.1	78,138	569,554

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	14.5%	\$26,468	\$ 264,203	18.5%	\$33,769	\$ 330,240	16.4%	\$29,936	\$ 288,058
2021	188,468	14.5	27,328	267,823	18.5	34,867	334,764	16.4	30,909	292,004
2022	194,593	14.5	28,216	271,200	18.5	36,000	338,985	16.4	31,913	295,686
2023	200,917	14.5	29,133	274,301	18.5	37,170	342,861	16.4	32,950	299,067
2024	207,447	14.5	30,080	277,088	18.5	38,378	346,345	16.4	34,021	302,106
2025	214,189	14.5	31,057	279,521	18.5	39,625	349,387	16.4	35,127	304,759
2026	221,150	14.5	32,067	281,557	18.5	40,913	351,932	16.4	36,269	306,979
2027	228,337	14.5	33,109	283,148	18.5	42,242	353,921	16.4	37,447	308,714
2028	235,758	14.5	34,185	284,243	18.5	43,615	355,290	16.4	38,664	309,908
2029	243,420	14.5	35,296	284,786	18.5	45,033	355,968	16.4	39,921	310,500

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	
2020	\$ 182,536	19.8%	\$36,142	\$ 348,149	22.3%	\$40,706	\$ 396,276	23.2%	\$42,348	\$ 408,216
2021	188,468	19.8	37,317	352,919	22.3	42,028	401,705	23.2	43,725	413,808
2022	194,593	19.8	38,529	357,369	22.3	43,394	406,770	23.2	45,146	419,026
2023	200,917	19.8	39,782	361,455	22.3	44,804	411,421	23.2	46,613	423,817
2024	207,447	19.8	41,075	365,128	22.3	46,261	415,601	23.2	48,128	428,123
2025	214,189	19.8	42,409	368,335	22.3	47,764	419,251	23.2	49,692	431,883
2026	221,150	19.8	43,788	371,018	22.3	49,316	422,305	23.2	51,307	435,029
2027	228,337	19.8	45,211	373,115	22.3	50,919	424,692	23.2	52,974	437,488
2028	235,758	19.8	46,680	374,558	22.3	52,574	426,334	23.2	54,696	439,180
2029	243,420	19.8	48,197	375,273	22.3	54,283	427,148	23.2	56,473	440,019

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	
2020	\$ 182,536	26.3%	\$48,007	\$ 462,351	26.7%	\$48,737	\$ 468,319	30.2%	\$55,126	\$ 528,390
2021	188,468	26.3	49,567	468,685	26.7	50,321	474,735	30.2	56,917	535,629
2022	194,593	26.3	51,178	474,595	26.7	51,956	480,721	30.2	58,767	542,383
2023	200,917	26.3	52,841	480,021	26.7	53,645	486,217	30.2	60,677	548,584
2024	207,447	26.3	54,559	484,898	26.7	55,388	491,157	30.2	62,649	554,158
2025	214,189	26.3	56,332	489,157	26.7	57,188	495,471	30.2	64,685	559,025
2026	221,150	26.3	58,162	492,720	26.7	59,047	499,080	30.2	66,787	563,097
2027	228,337	26.3	60,053	495,505	26.7	60,966	501,901	30.2	68,958	566,279
2028	235,758	26.3	62,004	497,421	26.7	62,947	503,842	30.2	71,199	568,469
2029	243,420	26.3	64,019	498,371	26.7	64,993	504,804	30.2	73,513	569,554

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2020	\$ 182,536	12.6%	\$23,000	\$ 264,203	16.6%	\$30,301	\$ 330,240	14.5%	\$26,468	\$ 288,058
2021	188,468	12.6	23,747	267,823	16.6	31,286	334,764	14.5	27,328	292,004
2022	194,593	12.6	24,519	271,200	16.6	32,302	338,985	14.5	28,216	295,686
2023	200,917	12.6	25,316	274,301	16.6	33,352	342,861	14.5	29,133	299,067
2024	207,447	12.6	26,138	277,088	16.6	34,436	346,345	14.5	30,080	302,106
2025	214,189	12.6	26,988	279,521	16.6	35,555	349,387	14.5	31,057	304,759
2026	221,150	12.6	27,865	281,557	16.6	36,711	351,932	14.5	32,067	306,979
2027	228,337	12.6	28,770	283,148	16.6	37,904	353,921	14.5	33,109	308,714
2028	235,758	12.6	29,706	284,243	16.6	39,136	355,290	14.5	34,185	309,908
2029	243,420	12.6	30,671	284,786	16.6	40,408	355,968	14.5	35,296	310,500

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	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2020	\$ 182,536	17.9%	\$32,674	\$ 348,149	20.4%	\$37,237	\$ 396,276	21.3%	\$38,880	\$ 408,216
2021	188,468	17.9	33,736	352,919	20.4	38,447	401,705	21.3	40,144	413,808
2022	194,593	17.9	34,832	357,369	20.4	39,697	406,770	21.3	41,448	419,026
2023	200,917	17.9	35,964	361,455	20.4	40,987	411,421	21.3	42,795	423,817
2024	207,447	17.9	37,133	365,128	20.4	42,319	415,601	21.3	44,186	428,123
2025	214,189	17.9	38,340	368,335	20.4	43,695	419,251	21.3	45,622	431,883
2026	221,150	17.9	39,586	371,018	20.4	45,115	422,305	21.3	47,105	435,029
2027	228,337	17.9	40,872	373,115	20.4	46,581	424,692	21.3	48,636	437,488
2028	235,758	17.9	42,201	374,558	20.4	48,095	426,334	21.3	50,216	439,180
2029	243,420	17.9	43,572	375,273	20.4	49,658	427,148	21.3	51,848	440,019

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued	Estimated Employer Contribution		Unfunded Actuarial Accrued
		As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability	As a % of Payroll	Annual Dollars	Liability
2020	\$ 182,536	24.4%	\$44,539	\$ 462,351	24.8%	\$45,269	\$ 468,319	28.3%	\$51,658	\$ 528,390
2021	188,468	24.4	45,986	468,685	24.8	46,740	474,735	28.3	53,336	535,629
2022	194,593	24.4	47,481	474,595	24.8	48,259	480,721	28.3	55,070	542,383
2023	200,917	24.4	49,024	480,021	24.8	49,827	486,217	28.3	56,860	548,584
2024	207,447	24.4	50,617	484,898	24.8	51,447	491,157	28.3	58,708	554,158
2025	214,189	24.4	52,262	489,157	24.8	53,119	495,471	28.3	60,615	559,025
2026	221,150	24.4	53,961	492,720	24.8	54,845	499,080	28.3	62,585	563,097
2027	228,337	24.4	55,714	495,505	24.8	56,628	501,901	28.3	64,619	566,279
2028	235,758	24.4	57,525	497,421	24.8	58,468	503,842	28.3	66,720	568,469
2029	243,420	24.4	59,394	498,371	24.8	60,368	504,804	28.3	68,888	569,554

Notes regarding the above projections:

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



High Ridge Fire Protection District - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 182,536	10.7%	\$19,531	\$ 264,203	14.7%	\$26,833	\$ 330,240	12.6%	\$23,000	\$ 288,058
2021	188,468	10.7	20,166	267,823	14.7	27,705	334,764	12.6	23,747	292,004
2022	194,593	10.7	20,821	271,200	14.7	28,605	338,985	12.6	24,519	295,686
2023	200,917	10.7	21,498	274,301	14.7	29,535	342,861	12.6	25,316	299,067
2024	207,447	10.7	22,197	277,088	14.7	30,495	346,345	12.6	26,138	302,106
2025	214,189	10.7	22,918	279,521	14.7	31,486	349,387	12.6	26,988	304,759
2026	221,150	10.7	23,663	281,557	14.7	32,509	351,932	12.6	27,865	306,979
2027	228,337	10.7	24,432	283,148	14.7	33,566	353,921	12.6	28,770	308,714
2028	235,758	10.7	25,226	284,243	14.7	34,656	355,290	12.6	29,706	309,908
2029	243,420	10.7	26,046	284,786	14.7	35,783	355,968	12.6	30,671	310,500

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	
2020	\$ 182,536	16.0%	\$29,206	\$ 348,149	18.5%	\$33,769	\$ 396,276	19.4%	\$35,412	\$ 408,216
2021	188,468	16.0	30,155	352,919	18.5	34,867	401,705	19.4	36,563	413,808
2022	194,593	16.0	31,135	357,369	18.5	36,000	406,770	19.4	37,751	419,026
2023	200,917	16.0	32,147	361,455	18.5	37,170	411,421	19.4	38,978	423,817
2024	207,447	16.0	33,192	365,128	18.5	38,378	415,601	19.4	40,245	428,123
2025	214,189	16.0	34,270	368,335	18.5	39,625	419,251	19.4	41,553	431,883
2026	221,150	16.0	35,384	371,018	18.5	40,913	422,305	19.4	42,903	435,029
2027	228,337	16.0	36,534	373,115	18.5	42,242	424,692	19.4	44,297	437,488
2028	235,758	16.0	37,721	374,558	18.5	43,615	426,334	19.4	45,737	439,180
2029	243,420	16.0	38,947	375,273	18.5	45,033	427,148	19.4	47,223	440,019

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	
2020	\$ 182,536	22.5%	\$41,071	\$ 462,351	22.9%	\$41,801	\$ 468,319	26.4%	\$48,190	\$ 528,390
2021	188,468	22.5	42,405	468,685	22.9	43,159	474,735	26.4	49,756	535,629
2022	194,593	22.5	43,783	474,595	22.9	44,562	480,721	26.4	51,373	542,383
2023	200,917	22.5	45,206	480,021	22.9	46,010	486,217	26.4	53,042	548,584
2024	207,447	22.5	46,676	484,898	22.9	47,505	491,157	26.4	54,766	554,158
2025	214,189	22.5	48,193	489,157	22.9	49,049	495,471	26.4	56,546	559,025
2026	221,150	22.5	49,759	492,720	22.9	50,643	499,080	26.4	58,384	563,097
2027	228,337	22.5	51,376	495,505	22.9	52,289	501,901	26.4	60,281	566,279
2028	235,758	22.5	53,046	497,421	22.9	53,989	503,842	26.4	62,240	568,469
2029	243,420	22.5	54,770	498,371	22.9	55,743	504,804	26.4	64,263	569,554

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	17.0%	\$442,130	\$ 3,993,943	21.0%	\$546,161	\$ 4,992,409	21.0%	\$546,161	\$ 4,988,774
2021	2,685,291	17.0	456,499	4,048,659	21.0	563,911	5,060,804	21.0	563,911	5,057,119
2022	2,772,563	17.0	471,336	4,099,710	21.0	582,238	5,124,618	21.0	582,238	5,120,886
2023	2,862,671	17.0	486,654	4,146,582	21.0	601,161	5,183,207	21.0	601,161	5,179,433
2024	2,955,708	17.0	502,470	4,188,715	21.0	620,699	5,235,873	21.0	620,699	5,232,061
2025	3,051,769	17.0	518,801	4,225,502	21.0	640,871	5,281,856	21.0	640,871	5,278,011
2026	3,150,951	17.0	535,662	4,256,282	21.0	661,700	5,320,331	21.0	661,700	5,316,458
2027	3,253,357	17.0	553,071	4,280,337	21.0	683,205	5,350,400	21.0	683,205	5,346,505
2028	3,359,091	17.0	571,045	4,296,889	21.0	705,409	5,371,090	21.0	705,409	5,367,180
2029	3,468,261	17.0	589,604	4,305,094	21.0	728,335	5,381,346	21.0	728,335	5,377,428

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2020	\$ 2,600,766	24.0%	\$624,184	\$ 5,738,610	25.0%	\$650,192	\$ 5,990,916	27.0%	\$702,207	\$ 6,488,353
2021	2,685,291	24.0	644,470	5,817,228	25.0	671,323	6,072,991	27.0	725,029	6,577,242
2022	2,772,563	24.0	665,415	5,890,580	25.0	693,141	6,149,568	27.0	748,592	6,660,177
2023	2,862,671	24.0	687,041	5,957,927	25.0	715,668	6,219,876	27.0	772,921	6,736,322
2024	2,955,708	24.0	709,370	6,018,465	25.0	738,927	6,283,076	27.0	798,041	6,804,769
2025	3,051,769	24.0	732,425	6,071,321	25.0	762,942	6,338,256	27.0	823,978	6,864,531
2026	3,150,951	24.0	756,228	6,115,547	25.0	787,738	6,384,426	27.0	850,757	6,914,535
2027	3,253,357	24.0	780,806	6,150,110	25.0	813,339	6,420,509	27.0	878,406	6,953,614
2028	3,359,091	24.0	806,182	6,173,893	25.0	839,773	6,445,337	27.0	906,955	6,980,504
2029	3,468,261	24.0	832,383	6,185,682	25.0	867,065	6,457,644	27.0	936,430	6,993,833

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	
2020	\$ 2,600,766	29.0%	\$754,222	\$ 6,989,362	30.0%	\$780,230	\$ 7,238,130	32.9%	\$855,652	\$ 7,987,775
2021	2,685,291	29.0	778,734	7,085,115	30.0	805,587	7,337,291	32.9	883,461	8,097,206
2022	2,772,563	29.0	804,043	7,174,454	30.0	831,769	7,429,810	32.9	912,173	8,199,307
2023	2,862,671	29.0	830,175	7,256,479	30.0	858,801	7,514,755	32.9	941,819	8,293,049
2024	2,955,708	29.0	857,155	7,330,211	30.0	886,712	7,591,112	32.9	972,428	8,377,314
2025	3,051,769	29.0	885,013	7,394,587	30.0	915,531	7,657,780	32.9	1,004,032	8,450,887
2026	3,150,951	29.0	913,776	7,448,452	30.0	945,285	7,713,562	32.9	1,036,663	8,512,446
2027	3,253,357	29.0	943,474	7,490,548	30.0	976,007	7,757,157	32.9	1,070,354	8,560,556
2028	3,359,091	29.0	974,136	7,519,514	30.0	1,007,727	7,787,154	32.9	1,105,141	8,593,660
2029	3,468,261	29.0	1,005,796	7,533,872	30.0	1,040,478	7,802,023	32.9	1,141,058	8,610,069

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	15.1%	\$392,716	\$ 3,993,943	19.1%	\$496,746	\$ 4,992,409	19.1%	\$496,746	\$ 4,988,774
2021	2,685,291	15.1	405,479	4,048,659	19.1	512,891	5,060,804	19.1	512,891	5,057,119
2022	2,772,563	15.1	418,657	4,099,710	19.1	529,560	5,124,618	19.1	529,560	5,120,886
2023	2,862,671	15.1	432,263	4,146,582	19.1	546,770	5,183,207	19.1	546,770	5,179,433
2024	2,955,708	15.1	446,312	4,188,715	19.1	564,540	5,235,873	19.1	564,540	5,232,061
2025	3,051,769	15.1	460,817	4,225,502	19.1	582,888	5,281,856	19.1	582,888	5,278,011
2026	3,150,951	15.1	475,794	4,256,282	19.1	601,832	5,320,331	19.1	601,832	5,316,458
2027	3,253,357	15.1	491,257	4,280,337	19.1	621,391	5,350,400	19.1	621,391	5,346,505
2028	3,359,091	15.1	507,223	4,296,889	19.1	641,586	5,371,090	19.1	641,586	5,367,180
2029	3,468,261	15.1	523,707	4,305,094	19.1	662,438	5,381,346	19.1	662,438	5,377,428

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2020	\$ 2,600,766	22.1%	\$574,769	\$ 5,738,610	23.1%	\$600,777	\$ 5,990,916	25.1%	\$652,792	\$ 6,488,353
2021	2,685,291	22.1	593,449	5,817,228	23.1	620,302	6,072,991	25.1	674,008	6,577,242
2022	2,772,563	22.1	612,736	5,890,580	23.1	640,462	6,149,568	25.1	695,913	6,660,177
2023	2,862,671	22.1	632,650	5,957,927	23.1	661,277	6,219,876	25.1	718,530	6,736,322
2024	2,955,708	22.1	653,211	6,018,465	23.1	682,769	6,283,076	25.1	741,883	6,804,769
2025	3,051,769	22.1	674,441	6,071,321	23.1	704,959	6,338,256	25.1	765,994	6,864,531
2026	3,150,951	22.1	696,360	6,115,547	23.1	727,870	6,384,426	25.1	790,889	6,914,535
2027	3,253,357	22.1	718,992	6,150,110	23.1	751,525	6,420,509	25.1	816,593	6,953,614
2028	3,359,091	22.1	742,359	6,173,893	23.1	775,950	6,445,337	25.1	843,132	6,980,504
2029	3,468,261	22.1	766,486	6,185,682	23.1	801,168	6,457,644	25.1	870,534	6,993,833

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	
2020	\$ 2,600,766	27.1%	\$704,808	\$ 6,989,362	28.1%	\$730,815	\$ 7,238,130	31.0%	\$806,237	\$ 7,987,775
2021	2,685,291	27.1	727,714	7,085,115	28.1	754,567	7,337,291	31.0	832,440	8,097,206
2022	2,772,563	27.1	751,365	7,174,454	28.1	779,090	7,429,810	31.0	859,495	8,199,307
2023	2,862,671	27.1	775,784	7,256,479	28.1	804,411	7,514,755	31.0	887,428	8,293,049
2024	2,955,708	27.1	800,997	7,330,211	28.1	830,554	7,591,112	31.0	916,269	8,377,314
2025	3,051,769	27.1	827,029	7,394,587	28.1	857,547	7,657,780	31.0	946,048	8,450,887
2026	3,150,951	27.1	853,908	7,448,452	28.1	885,417	7,713,562	31.0	976,795	8,512,446
2027	3,253,357	27.1	881,660	7,490,548	28.1	914,193	7,757,157	31.0	1,008,541	8,560,556
2028	3,359,091	27.1	910,314	7,519,514	28.1	943,905	7,787,154	31.0	1,041,318	8,593,660
2029	3,468,261	27.1	939,899	7,533,872	28.1	974,581	7,802,023	31.0	1,075,161	8,610,069

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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	
2020	\$ 2,600,766	13.2%	\$343,301	\$ 3,993,943	17.2%	\$447,332	\$ 4,992,409	17.2%	\$447,332	\$ 4,988,774
2021	2,685,291	13.2	354,458	4,048,659	17.2	461,870	5,060,804	17.2	461,870	5,057,119
2022	2,772,563	13.2	365,978	4,099,710	17.2	476,881	5,124,618	17.2	476,881	5,120,886
2023	2,862,671	13.2	377,873	4,146,582	17.2	492,379	5,183,207	17.2	492,379	5,179,433
2024	2,955,708	13.2	390,153	4,188,715	17.2	508,382	5,235,873	17.2	508,382	5,232,061
2025	3,051,769	13.2	402,834	4,225,502	17.2	524,904	5,281,856	17.2	524,904	5,278,011
2026	3,150,951	13.2	415,926	4,256,282	17.2	541,964	5,320,331	17.2	541,964	5,316,458
2027	3,253,357	13.2	429,443	4,280,337	17.2	559,577	5,350,400	17.2	559,577	5,346,505
2028	3,359,091	13.2	443,400	4,296,889	17.2	577,764	5,371,090	17.2	577,764	5,367,180
2029	3,468,261	13.2	457,810	4,305,094	17.2	596,541	5,381,346	17.2	596,541	5,377,428

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2020	\$ 2,600,766	20.2%	\$525,355	\$ 5,738,610	21.2%	\$551,362	\$ 5,990,916	23.2%	\$603,378	\$ 6,488,353
2021	2,685,291	20.2	542,429	5,817,228	21.2	569,282	6,072,991	23.2	622,988	6,577,242
2022	2,772,563	20.2	560,058	5,890,580	21.2	587,783	6,149,568	23.2	643,235	6,660,177
2023	2,862,671	20.2	578,260	5,957,927	21.2	606,886	6,219,876	23.2	664,140	6,736,322
2024	2,955,708	20.2	597,053	6,018,465	21.2	626,610	6,283,076	23.2	685,724	6,804,769
2025	3,051,769	20.2	616,457	6,071,321	21.2	646,975	6,338,256	23.2	708,010	6,864,531
2026	3,150,951	20.2	636,492	6,115,547	21.2	668,002	6,384,426	23.2	731,021	6,914,535
2027	3,253,357	20.2	657,178	6,150,110	21.2	689,712	6,420,509	23.2	754,779	6,953,614
2028	3,359,091	20.2	678,536	6,173,893	21.2	712,127	6,445,337	23.2	779,309	6,980,504
2029	3,468,261	20.2	700,589	6,185,682	21.2	735,271	6,457,644	23.2	804,637	6,993,833

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	
2020	\$ 2,600,766	25.2%	\$655,393	\$ 6,989,362	26.2%	\$681,401	\$ 7,238,130	29.1%	\$756,823	\$ 7,987,775
2021	2,685,291	25.2	676,693	7,085,115	26.2	703,546	7,337,291	29.1	781,420	8,097,206
2022	2,772,563	25.2	698,686	7,174,454	26.2	726,412	7,429,810	29.1	806,816	8,199,307
2023	2,862,671	25.2	721,393	7,256,479	26.2	750,020	7,514,755	29.1	833,037	8,293,049
2024	2,955,708	25.2	744,838	7,330,211	26.2	774,395	7,591,112	29.1	860,111	8,377,314
2025	3,051,769	25.2	769,046	7,394,587	26.2	799,563	7,657,780	29.1	888,065	8,450,887
2026	3,150,951	25.2	794,040	7,448,452	26.2	825,549	7,713,562	29.1	916,927	8,512,446
2027	3,253,357	25.2	819,846	7,490,548	26.2	852,380	7,757,157	29.1	946,727	8,560,556
2028	3,359,091	25.2	846,491	7,519,514	26.2	880,082	7,787,154	29.1	977,495	8,593,660
2029	3,468,261	25.2	874,002	7,533,872	26.2	908,684	7,802,023	29.1	1,009,264	8,610,069

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	11.3%	\$293,887	\$ 3,993,943	15.3%	\$397,917	\$ 4,992,409	15.3%	\$397,917	\$ 4,988,774
2021	2,685,291	11.3	303,438	4,048,659	15.3	410,850	5,060,804	15.3	410,850	5,057,119
2022	2,772,563	11.3	313,300	4,099,710	15.3	424,202	5,124,618	15.3	424,202	5,120,886
2023	2,862,671	11.3	323,482	4,146,582	15.3	437,989	5,183,207	15.3	437,989	5,179,433
2024	2,955,708	11.3	333,995	4,188,715	15.3	452,223	5,235,873	15.3	452,223	5,232,061
2025	3,051,769	11.3	344,850	4,225,502	15.3	466,921	5,281,856	15.3	466,921	5,278,011
2026	3,150,951	11.3	356,057	4,256,282	15.3	482,096	5,320,331	15.3	482,096	5,316,458
2027	3,253,357	11.3	367,629	4,280,337	15.3	497,764	5,350,400	15.3	497,764	5,346,505
2028	3,359,091	11.3	379,577	4,296,889	15.3	513,941	5,371,090	15.3	513,941	5,367,180
2029	3,468,261	11.3	391,913	4,305,094	15.3	530,644	5,381,346	15.3	530,644	5,377,428

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	
2020	\$ 2,600,766	18.3%	\$475,940	\$ 5,738,610	19.3%	\$501,948	\$ 5,990,916	21.3%	\$553,963	\$ 6,488,353
2021	2,685,291	18.3	491,408	5,817,228	19.3	518,261	6,072,991	21.3	571,967	6,577,242
2022	2,772,563	18.3	507,379	5,890,580	19.3	535,105	6,149,568	21.3	590,556	6,660,177
2023	2,862,671	18.3	523,869	5,957,927	19.3	552,496	6,219,876	21.3	609,749	6,736,322
2024	2,955,708	18.3	540,895	6,018,465	19.3	570,452	6,283,076	21.3	629,566	6,804,769
2025	3,051,769	18.3	558,474	6,071,321	19.3	588,991	6,338,256	21.3	650,027	6,864,531
2026	3,150,951	18.3	576,624	6,115,547	19.3	608,134	6,384,426	21.3	671,153	6,914,535
2027	3,253,357	18.3	595,364	6,150,110	19.3	627,898	6,420,509	21.3	692,965	6,953,614
2028	3,359,091	18.3	614,714	6,173,893	19.3	648,305	6,445,337	21.3	715,486	6,980,504
2029	3,468,261	18.3	634,692	6,185,682	19.3	669,374	6,457,644	21.3	738,740	6,993,833

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	
2020	\$ 2,600,766	23.3%	\$605,978	\$ 6,989,362	24.3%	\$631,986	\$ 7,238,130	27.2%	\$707,408	\$ 7,987,775
2021	2,685,291	23.3	625,673	7,085,115	24.3	652,526	7,337,291	27.2	730,399	8,097,206
2022	2,772,563	23.3	646,007	7,174,454	24.3	673,733	7,429,810	27.2	754,137	8,199,307
2023	2,862,671	23.3	667,002	7,256,479	24.3	695,629	7,514,755	27.2	778,647	8,293,049
2024	2,955,708	23.3	688,680	7,330,211	24.3	718,237	7,591,112	27.2	803,953	8,377,314
2025	3,051,769	23.3	711,062	7,394,587	24.3	741,580	7,657,780	27.2	830,081	8,450,887
2026	3,150,951	23.3	734,172	7,448,452	24.3	765,681	7,713,562	27.2	857,059	8,512,446
2027	3,253,357	23.3	758,032	7,490,548	24.3	790,566	7,757,157	27.2	884,913	8,560,556
2028	3,359,091	23.3	782,668	7,519,514	24.3	816,259	7,787,154	27.2	913,673	8,593,660
2029	3,468,261	23.3	808,105	7,533,872	24.3	842,787	7,802,023	27.2	943,367	8,610,069

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	17.6%	\$457,735	\$ 4,129,761	21.7%	\$564,366	\$ 5,162,208	21.7%	\$564,366	\$ 5,159,686
2021	2,685,291	17.6	472,611	4,186,338	21.7	582,708	5,232,929	21.7	582,708	5,230,373
2022	2,772,563	17.6	487,971	4,239,125	21.7	601,646	5,298,913	21.7	601,646	5,296,325
2023	2,862,671	17.6	503,830	4,287,591	21.7	621,200	5,359,495	21.7	621,200	5,356,878
2024	2,955,708	17.6	520,205	4,331,157	21.7	641,389	5,413,952	21.7	641,389	5,411,309
2025	3,051,769	17.6	537,111	4,369,195	21.7	662,234	5,461,499	21.7	662,234	5,458,833
2026	3,150,951	17.6	554,567	4,401,022	21.7	683,756	5,501,282	21.7	683,756	5,498,597
2027	3,253,357	17.6	572,591	4,425,895	21.7	705,978	5,532,373	21.7	705,978	5,529,673
2028	3,359,091	17.6	591,200	4,443,010	21.7	728,923	5,553,767	21.7	728,923	5,551,056
2029	3,468,261	17.6	610,414	4,451,494	21.7	752,613	5,564,372	21.7	752,613	5,561,656

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	
2020	\$ 2,600,766	24.8%	\$644,990	\$ 5,934,615	25.8%	\$670,998	\$ 6,194,713	27.8%	\$723,013	\$ 6,709,647
2021	2,685,291	24.8	665,952	6,015,918	25.8	692,805	6,279,580	27.8	746,511	6,801,568
2022	2,772,563	24.8	687,596	6,091,775	25.8	715,321	6,358,762	27.8	770,773	6,887,331
2023	2,862,671	24.8	709,942	6,161,422	25.8	738,569	6,431,461	27.8	795,823	6,966,073
2024	2,955,708	24.8	733,016	6,224,028	25.8	762,573	6,496,811	27.8	821,687	7,036,855
2025	3,051,769	24.8	756,839	6,278,690	25.8	787,356	6,553,868	27.8	848,392	7,098,655
2026	3,150,951	24.8	781,436	6,324,426	25.8	812,945	6,601,609	27.8	875,964	7,150,364
2027	3,253,357	24.8	806,833	6,360,170	25.8	839,366	6,638,919	27.8	904,433	7,190,776
2028	3,359,091	24.8	833,055	6,384,765	25.8	866,645	6,664,592	27.8	933,827	7,218,583
2029	3,468,261	24.8	860,129	6,396,957	25.8	894,811	6,677,318	27.8	964,177	7,232,367

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	
2020	\$ 2,600,766	30.0%	\$780,230	\$ 7,227,229	30.9%	\$803,637	\$ 7,484,659	34.0%	\$884,260	\$ 8,259,624
2021	2,685,291	30.0	805,587	7,326,241	30.9	829,755	7,587,198	34.0	912,999	8,372,780
2022	2,772,563	30.0	831,769	7,418,620	30.9	856,722	7,682,868	34.0	942,671	8,478,355
2023	2,862,671	30.0	858,801	7,503,437	30.9	884,565	7,770,706	34.0	973,308	8,575,287
2024	2,955,708	30.0	886,712	7,579,679	30.9	913,314	7,849,663	34.0	1,004,941	8,662,420
2025	3,051,769	30.0	915,531	7,646,246	30.9	942,997	7,918,601	34.0	1,037,601	8,738,496
2026	3,150,951	30.0	945,285	7,701,944	30.9	973,644	7,976,283	34.0	1,071,323	8,802,150
2027	3,253,357	30.0	976,007	7,745,473	30.9	1,005,287	8,021,362	34.0	1,106,141	8,851,897
2028	3,359,091	30.0	1,007,727	7,775,425	30.9	1,037,959	8,052,381	34.0	1,142,091	8,886,128
2029	3,468,261	30.0	1,040,478	7,790,272	30.9	1,071,693	8,067,757	34.0	1,179,209	8,903,096

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	15.7%	\$408,320	\$ 4,129,761	19.8%	\$514,952	\$ 5,162,208	19.8%	\$514,952	\$ 5,159,686
2021	2,685,291	15.7	421,591	4,186,338	19.8	531,688	5,232,929	19.8	531,688	5,230,373
2022	2,772,563	15.7	435,292	4,239,125	19.8	548,967	5,298,913	19.8	548,967	5,296,325
2023	2,862,671	15.7	449,439	4,287,591	19.8	566,809	5,359,495	19.8	566,809	5,356,878
2024	2,955,708	15.7	464,046	4,331,157	19.8	585,230	5,413,952	19.8	585,230	5,411,309
2025	3,051,769	15.7	479,128	4,369,195	19.8	604,250	5,461,499	19.8	604,250	5,458,833
2026	3,150,951	15.7	494,699	4,401,022	19.8	623,888	5,501,282	19.8	623,888	5,498,597
2027	3,253,357	15.7	510,777	4,425,895	19.8	644,165	5,532,373	19.8	644,165	5,529,673
2028	3,359,091	15.7	527,377	4,443,010	19.8	665,100	5,553,767	19.8	665,100	5,551,056
2029	3,468,261	15.7	544,517	4,451,494	19.8	686,716	5,564,372	19.8	686,716	5,561,656

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	
2020	\$ 2,600,766	22.9%	\$595,575	\$ 5,934,615	23.9%	\$621,583	\$ 6,194,713	25.9%	\$673,598	\$ 6,709,647
2021	2,685,291	22.9	614,932	6,015,918	23.9	641,785	6,279,580	25.9	695,490	6,801,568
2022	2,772,563	22.9	634,917	6,091,775	23.9	662,643	6,358,762	25.9	718,094	6,887,331
2023	2,862,671	22.9	655,552	6,161,422	23.9	684,178	6,431,461	25.9	741,432	6,966,073
2024	2,955,708	22.9	676,857	6,224,028	23.9	706,414	6,496,811	25.9	765,528	7,036,855
2025	3,051,769	22.9	698,855	6,278,690	23.9	729,373	6,553,868	25.9	790,408	7,098,655
2026	3,150,951	22.9	721,568	6,324,426	23.9	753,077	6,601,609	25.9	816,096	7,150,364
2027	3,253,357	22.9	745,019	6,360,170	23.9	777,552	6,638,919	25.9	842,619	7,190,776
2028	3,359,091	22.9	769,232	6,384,765	23.9	802,823	6,664,592	25.9	870,005	7,218,583
2029	3,468,261	22.9	794,232	6,396,957	23.9	828,914	6,677,318	25.9	898,280	7,232,367

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	
2020	\$ 2,600,766	28.1%	\$730,815	\$ 7,227,229	29.0%	\$754,222	\$ 7,484,659	32.1%	\$834,846	\$ 8,259,624
2021	2,685,291	28.1	754,567	7,326,241	29.0	778,734	7,587,198	32.1	861,978	8,372,780
2022	2,772,563	28.1	779,090	7,418,620	29.0	804,043	7,682,868	32.1	889,993	8,478,355
2023	2,862,671	28.1	804,411	7,503,437	29.0	830,175	7,770,706	32.1	918,917	8,575,287
2024	2,955,708	28.1	830,554	7,579,679	29.0	857,155	7,849,663	32.1	948,782	8,662,420
2025	3,051,769	28.1	857,547	7,646,246	29.0	885,013	7,918,601	32.1	979,618	8,738,496
2026	3,150,951	28.1	885,417	7,701,944	29.0	913,776	7,976,283	32.1	1,011,455	8,802,150
2027	3,253,357	28.1	914,193	7,745,473	29.0	943,474	8,021,362	32.1	1,044,328	8,851,897
2028	3,359,091	28.1	943,905	7,775,425	29.0	974,136	8,052,381	32.1	1,078,268	8,886,128
2029	3,468,261	28.1	974,581	7,790,272	29.0	1,005,796	8,067,757	32.1	1,113,312	8,903,096

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,600,766	13.8%	\$358,906	\$ 4,129,761	17.9%	\$465,537	\$ 5,162,208	17.9%	\$465,537	\$ 5,159,686
2021	2,685,291	13.8	370,570	4,186,338	17.9	480,667	5,232,929	17.9	480,667	5,230,373
2022	2,772,563	13.8	382,614	4,239,125	17.9	496,289	5,298,913	17.9	496,289	5,296,325
2023	2,862,671	13.8	395,049	4,287,591	17.9	512,418	5,359,495	17.9	512,418	5,356,878
2024	2,955,708	13.8	407,888	4,331,157	17.9	529,072	5,413,952	17.9	529,072	5,411,309
2025	3,051,769	13.8	421,144	4,369,195	17.9	546,267	5,461,499	17.9	546,267	5,458,833
2026	3,150,951	13.8	434,831	4,401,022	17.9	564,020	5,501,282	17.9	564,020	5,498,597
2027	3,253,357	13.8	448,963	4,425,895	17.9	582,351	5,532,373	17.9	582,351	5,529,673
2028	3,359,091	13.8	463,555	4,443,010	17.9	601,277	5,553,767	17.9	601,277	5,551,056
2029	3,468,261	13.8	478,620	4,451,494	17.9	620,819	5,564,372	17.9	620,819	5,561,656

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,600,766	21.0%	\$546,161	\$ 5,934,615	22.0%	\$572,169	\$ 6,194,713	24.0%	\$624,184	\$ 6,709,647
2021	2,685,291	21.0	563,911	6,015,918	22.0	590,764	6,279,580	24.0	644,470	6,801,568
2022	2,772,563	21.0	582,238	6,091,775	22.0	609,964	6,358,762	24.0	665,415	6,887,331
2023	2,862,671	21.0	601,161	6,161,422	22.0	629,788	6,431,461	24.0	687,041	6,966,073
2024	2,955,708	21.0	620,699	6,224,028	22.0	650,256	6,496,811	24.0	709,370	7,036,855
2025	3,051,769	21.0	640,871	6,278,690	22.0	671,389	6,553,868	24.0	732,425	7,098,655
2026	3,150,951	21.0	661,700	6,324,426	22.0	693,209	6,601,609	24.0	756,228	7,150,364
2027	3,253,357	21.0	683,205	6,360,170	22.0	715,739	6,638,919	24.0	780,806	7,190,776
2028	3,359,091	21.0	705,409	6,384,765	22.0	739,000	6,664,592	24.0	806,182	7,218,583
2029	3,468,261	21.0	728,335	6,396,957	22.0	763,017	6,677,318	24.0	832,383	7,232,367

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 2,600,766	26.2%	\$681,401	\$ 7,227,229	27.1%	\$704,808	\$ 7,484,659	30.2%	\$785,431	\$ 8,259,624
2021	2,685,291	26.2	703,546	7,326,241	27.1	727,714	7,587,198	30.2	810,958	8,372,780
2022	2,772,563	26.2	726,412	7,418,620	27.1	751,365	7,682,868	30.2	837,314	8,478,355
2023	2,862,671	26.2	750,020	7,503,437	27.1	775,784	7,770,706	30.2	864,527	8,575,287
2024	2,955,708	26.2	774,395	7,579,679	27.1	800,997	7,849,663	30.2	892,624	8,662,420
2025	3,051,769	26.2	799,563	7,646,246	27.1	827,029	7,918,601	30.2	921,634	8,738,496
2026	3,150,951	26.2	825,549	7,701,944	27.1	853,908	7,976,283	30.2	951,587	8,802,150
2027	3,253,357	26.2	852,380	7,745,473	27.1	881,660	8,021,362	30.2	982,514	8,851,897
2028	3,359,091	26.2	880,082	7,775,425	27.1	910,314	8,052,381	30.2	1,014,445	8,886,128
2029	3,468,261	26.2	908,684	7,790,272	27.1	939,899	8,067,757	30.2	1,047,415	8,903,096

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	11.9%	\$309,491	\$ 4,129,761	16.0%	\$416,123	\$ 5,162,208	16.0%	\$416,123	\$ 5,159,686
2021	2,685,291	11.9	319,550	4,186,338	16.0	429,647	5,232,929	16.0	429,647	5,230,373
2022	2,772,563	11.9	329,935	4,239,125	16.0	443,610	5,298,913	16.0	443,610	5,296,325
2023	2,862,671	11.9	340,658	4,287,591	16.0	458,027	5,359,495	16.0	458,027	5,356,878
2024	2,955,708	11.9	351,729	4,331,157	16.0	472,913	5,413,952	16.0	472,913	5,411,309
2025	3,051,769	11.9	363,161	4,369,195	16.0	488,283	5,461,499	16.0	488,283	5,458,833
2026	3,150,951	11.9	374,963	4,401,022	16.0	504,152	5,501,282	16.0	504,152	5,498,597
2027	3,253,357	11.9	387,149	4,425,895	16.0	520,537	5,532,373	16.0	520,537	5,529,673
2028	3,359,091	11.9	399,732	4,443,010	16.0	537,455	5,553,767	16.0	537,455	5,551,056
2029	3,468,261	11.9	412,723	4,451,494	16.0	554,922	5,564,372	16.0	554,922	5,561,656

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	
2020	\$ 2,600,766	19.1%	\$496,746	\$ 5,934,615	20.1%	\$522,754	\$ 6,194,713	22.1%	\$574,769	\$ 6,709,647
2021	2,685,291	19.1	512,891	6,015,918	20.1	539,743	6,279,580	22.1	593,449	6,801,568
2022	2,772,563	19.1	529,560	6,091,775	20.1	557,285	6,358,762	22.1	612,736	6,887,331
2023	2,862,671	19.1	546,770	6,161,422	20.1	575,397	6,431,461	22.1	632,650	6,966,073
2024	2,955,708	19.1	564,540	6,224,028	20.1	594,097	6,496,811	22.1	653,211	7,036,855
2025	3,051,769	19.1	582,888	6,278,690	20.1	613,406	6,553,868	22.1	674,441	7,098,655
2026	3,150,951	19.1	601,832	6,324,426	20.1	633,341	6,601,609	22.1	696,360	7,150,364
2027	3,253,357	19.1	621,391	6,360,170	20.1	653,925	6,638,919	22.1	718,992	7,190,776
2028	3,359,091	19.1	641,586	6,384,765	20.1	675,177	6,664,592	22.1	742,359	7,218,583
2029	3,468,261	19.1	662,438	6,396,957	20.1	697,120	6,677,318	22.1	766,486	7,232,367

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	
2020	\$ 2,600,766	24.3%	\$631,986	\$ 7,227,229	25.2%	\$655,393	\$ 7,484,659	28.3%	\$736,017	\$ 8,259,624
2021	2,685,291	24.3	652,526	7,326,241	25.2	676,693	7,587,198	28.3	759,937	8,372,780
2022	2,772,563	24.3	673,733	7,418,620	25.2	698,686	7,682,868	28.3	784,635	8,478,355
2023	2,862,671	24.3	695,629	7,503,437	25.2	721,393	7,770,706	28.3	810,136	8,575,287
2024	2,955,708	24.3	718,237	7,579,679	25.2	744,838	7,849,663	28.3	836,465	8,662,420
2025	3,051,769	24.3	741,580	7,646,246	25.2	769,046	7,918,601	28.3	863,651	8,738,496
2026	3,150,951	24.3	765,681	7,701,944	25.2	794,040	7,976,283	28.3	891,719	8,802,150
2027	3,253,357	24.3	790,566	7,745,473	25.2	819,846	8,021,362	28.3	920,700	8,851,897
2028	3,359,091	24.3	816,259	7,775,425	25.2	846,491	8,052,381	28.3	950,623	8,886,128
2029	3,468,261	24.3	842,787	7,790,272	25.2	874,002	8,067,757	28.3	981,518	8,903,096

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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	
2020	\$ 2,600,766	18.2%	\$473,339	\$ 4,289,205	22.4%	\$582,572	\$ 5,361,448	23.7%	\$616,382	\$ 5,712,157
2021	2,685,291	18.2	488,723	4,347,966	22.4	601,505	5,434,899	23.7	636,414	5,790,413
2022	2,772,563	18.2	504,606	4,402,791	22.4	621,054	5,503,430	23.7	657,097	5,863,426
2023	2,862,671	18.2	521,006	4,453,128	22.4	641,238	5,566,350	23.7	678,453	5,930,462
2024	2,955,708	18.2	537,939	4,498,376	22.4	662,079	5,622,909	23.7	700,503	5,990,721
2025	3,051,769	18.2	555,422	4,537,882	22.4	683,596	5,672,291	23.7	723,269	6,043,334
2026	3,150,951	18.2	573,473	4,570,937	22.4	705,813	5,713,610	23.7	746,775	6,087,356
2027	3,253,357	18.2	592,111	4,596,770	22.4	728,752	5,745,901	23.7	771,046	6,121,760
2028	3,359,091	18.2	611,355	4,614,546	22.4	752,436	5,768,121	23.7	796,105	6,145,433
2029	3,468,261	18.2	631,224	4,623,357	22.4	776,890	5,779,135	23.7	821,978	6,157,168

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	
2020	\$ 2,600,766	26.5%	\$689,203	\$ 6,428,661	26.6%	\$691,804	\$ 6,433,784	29.5%	\$767,226	\$ 7,145,307
2021	2,685,291	26.5	711,602	6,516,733	26.6	714,287	6,521,926	29.5	792,161	7,243,197
2022	2,772,563	26.5	734,729	6,598,905	26.6	737,502	6,604,163	29.5	817,906	7,334,529
2023	2,862,671	26.5	758,608	6,674,350	26.6	761,470	6,679,668	29.5	844,488	7,418,384
2024	2,955,708	26.5	783,263	6,742,167	26.6	786,218	6,747,540	29.5	871,934	7,493,762
2025	3,051,769	26.5	808,719	6,801,379	26.6	811,771	6,806,799	29.5	900,272	7,559,575
2026	3,150,951	26.5	835,002	6,850,923	26.6	838,153	6,856,382	29.5	929,531	7,614,642
2027	3,253,357	26.5	862,140	6,889,642	26.6	865,393	6,895,132	29.5	959,740	7,657,677
2028	3,359,091	26.5	890,159	6,916,285	26.6	893,518	6,921,796	29.5	990,932	7,687,290
2029	3,468,261	26.5	919,089	6,929,491	26.6	922,557	6,935,013	29.5	1,023,137	7,701,969

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	
2020	\$ 2,600,766	31.0%	\$806,237	\$ 7,506,116	32.4%	\$842,648	\$ 7,861,855	35.2%	\$915,470	\$ 8,578,315
2021	2,685,291	31.0	832,440	7,608,949	32.4	870,034	7,969,561	35.2	945,222	8,695,837
2022	2,772,563	31.0	859,495	7,704,893	32.4	898,310	8,070,052	35.2	975,942	8,805,486
2023	2,862,671	31.0	887,428	7,792,983	32.4	927,505	8,162,316	35.2	1,007,660	8,906,159
2024	2,955,708	31.0	916,269	7,872,167	32.4	957,649	8,245,253	35.2	1,040,409	8,996,654
2025	3,051,769	31.0	946,048	7,941,303	32.4	988,773	8,317,666	35.2	1,074,223	9,075,666
2026	3,150,951	31.0	976,795	7,999,150	32.4	1,020,908	8,378,255	35.2	1,109,135	9,141,776
2027	3,253,357	31.0	1,008,541	8,044,359	32.4	1,054,088	8,425,606	35.2	1,145,182	9,193,442
2028	3,359,091	31.0	1,041,318	8,075,467	32.4	1,088,345	8,458,188	35.2	1,182,400	9,228,993
2029	3,468,261	31.0	1,075,161	8,090,887	32.4	1,123,717	8,474,339	35.2	1,220,828	9,246,616

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	16.3%	\$423,925	\$ 4,289,205	20.5%	\$533,157	\$ 5,361,448	21.8%	\$566,967	\$ 5,712,157
2021	2,685,291	16.3	437,702	4,347,966	20.5	550,485	5,434,899	21.8	585,393	5,790,413
2022	2,772,563	16.3	451,928	4,402,791	20.5	568,375	5,503,430	21.8	604,419	5,863,426
2023	2,862,671	16.3	466,615	4,453,128	20.5	586,848	5,566,350	21.8	624,062	5,930,462
2024	2,955,708	16.3	481,780	4,498,376	20.5	605,920	5,622,909	21.8	644,344	5,990,721
2025	3,051,769	16.3	497,438	4,537,882	20.5	625,613	5,672,291	21.8	665,286	6,043,334
2026	3,150,951	16.3	513,605	4,570,937	20.5	645,945	5,713,610	21.8	686,907	6,087,356
2027	3,253,357	16.3	530,297	4,596,770	20.5	666,938	5,745,901	21.8	709,232	6,121,760
2028	3,359,091	16.3	547,532	4,614,546	20.5	688,614	5,768,121	21.8	732,282	6,145,433
2029	3,468,261	16.3	565,327	4,623,357	20.5	710,994	5,779,135	21.8	756,081	6,157,168

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	
2020	\$ 2,600,766	24.6%	\$639,788	\$ 6,428,661	24.7%	\$642,389	\$ 6,433,784	27.6%	\$717,811	\$ 7,145,307
2021	2,685,291	24.6	660,582	6,516,733	24.7	663,267	6,521,926	27.6	741,140	7,243,197
2022	2,772,563	24.6	682,050	6,598,905	24.7	684,823	6,604,163	27.6	765,227	7,334,529
2023	2,862,671	24.6	704,217	6,674,350	24.7	707,080	6,679,668	27.6	790,097	7,418,384
2024	2,955,708	24.6	727,104	6,742,167	24.7	730,060	6,747,540	27.6	815,775	7,493,762
2025	3,051,769	24.6	750,735	6,801,379	24.7	753,787	6,806,799	27.6	842,288	7,559,575
2026	3,150,951	24.6	775,134	6,850,923	24.7	778,285	6,856,382	27.6	869,662	7,614,642
2027	3,253,357	24.6	800,326	6,889,642	24.7	803,579	6,895,132	27.6	897,927	7,657,677
2028	3,359,091	24.6	826,336	6,916,285	24.7	829,695	6,921,796	27.6	927,109	7,687,290
2029	3,468,261	24.6	853,192	6,929,491	24.7	856,660	6,935,013	27.6	957,240	7,701,969

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	
2020	\$ 2,600,766	29.1%	\$756,823	\$ 7,506,116	30.5%	\$793,234	\$ 7,861,855	33.3%	\$866,055	\$ 8,578,315
2021	2,685,291	29.1	781,420	7,608,949	30.5	819,014	7,969,561	33.3	894,202	8,695,837
2022	2,772,563	29.1	806,816	7,704,893	30.5	845,632	8,070,052	33.3	923,263	8,805,486
2023	2,862,671	29.1	833,037	7,792,983	30.5	873,115	8,162,316	33.3	953,269	8,906,159
2024	2,955,708	29.1	860,111	7,872,167	30.5	901,491	8,245,253	33.3	984,251	8,996,654
2025	3,051,769	29.1	888,065	7,941,303	30.5	930,790	8,317,666	33.3	1,016,239	9,075,666
2026	3,150,951	29.1	916,927	7,999,150	30.5	961,040	8,378,255	33.3	1,049,267	9,141,776
2027	3,253,357	29.1	946,727	8,044,359	30.5	992,274	8,425,606	33.3	1,083,368	9,193,442
2028	3,359,091	29.1	977,495	8,075,467	30.5	1,024,523	8,458,188	33.3	1,118,577	9,228,993
2029	3,468,261	29.1	1,009,264	8,090,887	30.5	1,057,820	8,474,339	33.3	1,154,931	9,246,616

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	14.4%	\$374,510	\$ 4,289,205	18.6%	\$483,742	\$ 5,361,448	19.9%	\$517,552	\$ 5,712,157
2021	2,685,291	14.4	386,682	4,347,966	18.6	499,464	5,434,899	19.9	534,373	5,790,413
2022	2,772,563	14.4	399,249	4,402,791	18.6	515,697	5,503,430	19.9	551,740	5,863,426
2023	2,862,671	14.4	412,225	4,453,128	18.6	532,457	5,566,350	19.9	569,672	5,930,462
2024	2,955,708	14.4	425,622	4,498,376	18.6	549,762	5,622,909	19.9	588,186	5,990,721
2025	3,051,769	14.4	439,455	4,537,882	18.6	567,629	5,672,291	19.9	607,302	6,043,334
2026	3,150,951	14.4	453,737	4,570,937	18.6	586,077	5,713,610	19.9	627,039	6,087,356
2027	3,253,357	14.4	468,483	4,596,770	18.6	605,124	5,745,901	19.9	647,418	6,121,760
2028	3,359,091	14.4	483,709	4,614,546	18.6	624,791	5,768,121	19.9	668,459	6,145,433
2029	3,468,261	14.4	499,430	4,623,357	18.6	645,097	5,779,135	19.9	690,184	6,157,168

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	
2020	\$ 2,600,766	22.7%	\$590,374	\$ 6,428,661	22.8%	\$592,975	\$ 6,433,784	25.7%	\$668,397	\$ 7,145,307
2021	2,685,291	22.7	609,561	6,516,733	22.8	612,246	6,521,926	25.7	690,120	7,243,197
2022	2,772,563	22.7	629,372	6,598,905	22.8	632,144	6,604,163	25.7	712,549	7,334,529
2023	2,862,671	22.7	649,826	6,674,350	22.8	652,689	6,679,668	25.7	735,706	7,418,384
2024	2,955,708	22.7	670,946	6,742,167	22.8	673,901	6,747,540	25.7	759,617	7,493,762
2025	3,051,769	22.7	692,752	6,801,379	22.8	695,803	6,806,799	25.7	784,305	7,559,575
2026	3,150,951	22.7	715,266	6,850,923	22.8	718,417	6,856,382	25.7	809,794	7,614,642
2027	3,253,357	22.7	738,512	6,889,642	22.8	741,765	6,895,132	25.7	836,113	7,657,677
2028	3,359,091	22.7	762,514	6,916,285	22.8	765,873	6,921,796	25.7	863,286	7,687,290
2029	3,468,261	22.7	787,295	6,929,491	22.8	790,764	6,935,013	25.7	891,343	7,701,969

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	
2020	\$ 2,600,766	27.2%	\$707,408	\$ 7,506,116	28.6%	\$743,819	\$ 7,861,855	31.4%	\$816,641	\$ 8,578,315
2021	2,685,291	27.2	730,399	7,608,949	28.6	767,993	7,969,561	31.4	843,181	8,695,837
2022	2,772,563	27.2	754,137	7,704,893	28.6	792,953	8,070,052	31.4	870,585	8,805,486
2023	2,862,671	27.2	778,647	7,792,983	28.6	818,724	8,162,316	31.4	898,879	8,906,159
2024	2,955,708	27.2	803,953	7,872,167	28.6	845,332	8,245,253	31.4	928,092	8,996,654
2025	3,051,769	27.2	830,081	7,941,303	28.6	872,806	8,317,666	31.4	958,255	9,075,666
2026	3,150,951	27.2	857,059	7,999,150	28.6	901,172	8,378,255	31.4	989,399	9,141,776
2027	3,253,357	27.2	884,913	8,044,359	28.6	930,460	8,425,606	31.4	1,021,554	9,193,442
2028	3,359,091	27.2	913,673	8,075,467	28.6	960,700	8,458,188	31.4	1,054,755	9,228,993
2029	3,468,261	27.2	943,367	8,090,887	28.6	991,923	8,474,339	31.4	1,089,034	9,246,616

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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	
2020	\$ 2,600,766	12.5%	\$325,096	\$ 4,289,205	16.7%	\$434,328	\$ 5,361,448	18.0%	\$468,138	\$ 5,712,157
2021	2,685,291	12.5	335,661	4,347,966	16.7	448,444	5,434,899	18.0	483,352	5,790,413
2022	2,772,563	12.5	346,570	4,402,791	16.7	463,018	5,503,430	18.0	499,061	5,863,426
2023	2,862,671	12.5	357,834	4,453,128	16.7	478,066	5,566,350	18.0	515,281	5,930,462
2024	2,955,708	12.5	369,464	4,498,376	16.7	493,603	5,622,909	18.0	532,027	5,990,721
2025	3,051,769	12.5	381,471	4,537,882	16.7	509,645	5,672,291	18.0	549,318	6,043,334
2026	3,150,951	12.5	393,869	4,570,937	16.7	526,209	5,713,610	18.0	567,171	6,087,356
2027	3,253,357	12.5	406,670	4,596,770	16.7	543,311	5,745,901	18.0	585,604	6,121,760
2028	3,359,091	12.5	419,886	4,614,546	16.7	560,968	5,768,121	18.0	604,636	6,145,433
2029	3,468,261	12.5	433,533	4,623,357	16.7	579,200	5,779,135	18.0	624,287	6,157,168

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	
2020	\$ 2,600,766	20.8%	\$540,959	\$ 6,428,661	20.9%	\$543,560	\$ 6,433,784	23.8%	\$618,982	\$ 7,145,307
2021	2,685,291	20.8	558,541	6,516,733	20.9	561,226	6,521,926	23.8	639,099	7,243,197
2022	2,772,563	20.8	576,693	6,598,905	20.9	579,466	6,604,163	23.8	659,870	7,334,529
2023	2,862,671	20.8	595,436	6,674,350	20.9	598,298	6,679,668	23.8	681,316	7,418,384
2024	2,955,708	20.8	614,787	6,742,167	20.9	617,743	6,747,540	23.8	703,459	7,493,762
2025	3,051,769	20.8	634,768	6,801,379	20.9	637,820	6,806,799	23.8	726,321	7,559,575
2026	3,150,951	20.8	655,398	6,850,923	20.9	658,549	6,856,382	23.8	749,926	7,614,642
2027	3,253,357	20.8	676,698	6,889,642	20.9	679,952	6,895,132	23.8	774,299	7,657,677
2028	3,359,091	20.8	698,691	6,916,285	20.9	702,050	6,921,796	23.8	799,464	7,687,290
2029	3,468,261	20.8	721,398	6,929,491	20.9	724,867	6,935,013	23.8	825,446	7,701,969

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	
2020	\$ 2,600,766	25.3%	\$657,994	\$ 7,506,116	26.7%	\$694,405	\$ 7,861,855	29.5%	\$767,226	\$ 8,578,315
2021	2,685,291	25.3	679,379	7,608,949	26.7	716,973	7,969,561	29.5	792,161	8,695,837
2022	2,772,563	25.3	701,458	7,704,893	26.7	740,274	8,070,052	29.5	817,906	8,805,486
2023	2,862,671	25.3	724,256	7,792,983	26.7	764,333	8,162,316	29.5	844,488	8,906,159
2024	2,955,708	25.3	747,794	7,872,167	26.7	789,174	8,245,253	29.5	871,934	8,996,654
2025	3,051,769	25.3	772,098	7,941,303	26.7	814,822	8,317,666	29.5	900,272	9,075,666
2026	3,150,951	25.3	797,191	7,999,150	26.7	841,304	8,378,255	29.5	929,531	9,141,776
2027	3,253,357	25.3	823,099	8,044,359	26.7	868,646	8,425,606	29.5	959,740	9,193,442
2028	3,359,091	25.3	849,850	8,075,467	26.7	896,877	8,458,188	29.5	990,932	9,228,993
2029	3,468,261	25.3	877,470	8,090,887	26.7	926,026	8,474,339	29.5	1,023,137	9,246,616

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	18.8%	\$488,944	\$ 4,438,864	23.2%	\$603,378	\$ 5,548,479	24.5%	\$637,188	\$ 5,912,779
2021	2,685,291	18.8	504,835	4,499,676	23.2	622,988	5,624,492	24.5	657,896	5,993,783
2022	2,772,563	18.8	521,242	4,556,414	23.2	643,235	5,695,413	24.5	679,278	6,069,361
2023	2,862,671	18.8	538,182	4,608,507	23.2	664,140	5,760,528	24.5	701,354	6,138,752
2024	2,955,708	18.8	555,673	4,655,334	23.2	685,724	5,819,060	24.5	724,148	6,201,127
2025	3,051,769	18.8	573,733	4,696,219	23.2	708,010	5,870,165	24.5	747,683	6,255,587
2026	3,150,951	18.8	592,379	4,730,428	23.2	731,021	5,912,925	24.5	771,983	6,301,155
2027	3,253,357	18.8	611,631	4,757,163	23.2	754,779	5,946,343	24.5	797,072	6,336,767
2028	3,359,091	18.8	631,509	4,775,559	23.2	779,309	5,969,338	24.5	822,977	6,361,272
2029	3,468,261	18.8	652,033	4,784,678	23.2	804,637	5,980,736	24.5	849,724	6,373,419

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	
2020	\$ 2,600,766	27.5%	\$715,211	\$ 6,653,898	27.5%	\$715,211	\$ 6,658,325	30.4%	\$790,633	\$ 7,395,273
2021	2,685,291	27.5	738,455	6,745,055	27.5	738,455	6,749,543	30.4	816,328	7,496,587
2022	2,772,563	27.5	762,455	6,830,106	27.5	762,455	6,834,650	30.4	842,859	7,591,114
2023	2,862,671	27.5	787,235	6,908,194	27.5	787,235	6,912,790	30.4	870,252	7,677,903
2024	2,955,708	27.5	812,820	6,978,388	27.5	812,820	6,983,030	30.4	898,535	7,755,917
2025	3,051,769	27.5	839,236	7,039,675	27.5	839,236	7,044,357	30.4	927,738	7,824,032
2026	3,150,951	27.5	866,512	7,090,954	27.5	866,512	7,095,671	30.4	957,889	7,881,025
2027	3,253,357	27.5	894,673	7,131,030	27.5	894,673	7,135,773	30.4	989,021	7,925,566
2028	3,359,091	27.5	923,750	7,158,606	27.5	923,750	7,163,367	30.4	1,021,164	7,956,215
2029	3,468,261	27.5	953,772	7,172,275	27.5	953,772	7,177,045	30.4	1,054,351	7,971,407

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	
2020	\$ 2,600,766	32.0%	\$832,245	\$ 7,767,999	33.5%	\$871,257	\$ 8,136,447	36.4%	\$946,679	\$ 8,877,630
2021	2,685,291	32.0	859,293	7,874,419	33.5	899,572	8,247,915	36.4	977,446	8,999,252
2022	2,772,563	32.0	887,220	7,973,710	33.5	928,809	8,351,916	36.4	1,009,213	9,112,727
2023	2,862,671	32.0	916,055	8,064,873	33.5	958,995	8,447,403	36.4	1,042,012	9,216,912
2024	2,955,708	32.0	945,827	8,146,819	33.5	990,162	8,533,236	36.4	1,075,878	9,310,564
2025	3,051,769	32.0	976,566	8,218,367	33.5	1,022,343	8,608,178	36.4	1,110,844	9,392,333
2026	3,150,951	32.0	1,008,304	8,278,232	33.5	1,055,569	8,670,883	36.4	1,146,946	9,460,750
2027	3,253,357	32.0	1,041,074	8,325,018	33.5	1,089,875	8,719,888	36.4	1,184,222	9,514,219
2028	3,359,091	32.0	1,074,909	8,357,211	33.5	1,125,295	8,753,608	36.4	1,222,709	9,551,011
2029	3,468,261	32.0	1,109,844	8,373,169	33.5	1,161,867	8,770,323	36.4	1,262,447	9,569,248

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	16.9%	\$439,529	\$ 4,438,864	21.3%	\$553,963	\$ 5,548,479	22.6%	\$587,773	\$ 5,912,779
2021	2,685,291	16.9	453,814	4,499,676	21.3	571,967	5,624,492	22.6	606,876	5,993,783
2022	2,772,563	16.9	468,563	4,556,414	21.3	590,556	5,695,413	22.6	626,599	6,069,361
2023	2,862,671	16.9	483,791	4,608,507	21.3	609,749	5,760,528	22.6	646,964	6,138,752
2024	2,955,708	16.9	499,515	4,655,334	21.3	629,566	5,819,060	22.6	667,990	6,201,127
2025	3,051,769	16.9	515,749	4,696,219	21.3	650,027	5,870,165	22.6	689,700	6,255,587
2026	3,150,951	16.9	532,511	4,730,428	21.3	671,153	5,912,925	22.6	712,115	6,301,155
2027	3,253,357	16.9	549,817	4,757,163	21.3	692,965	5,946,343	22.6	735,259	6,336,767
2028	3,359,091	16.9	567,686	4,775,559	21.3	715,486	5,969,338	22.6	759,155	6,361,272
2029	3,468,261	16.9	586,136	4,784,678	21.3	738,740	5,980,736	22.6	783,827	6,373,419

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	
2020	\$ 2,600,766	25.6%	\$665,796	\$ 6,653,898	25.6%	\$665,796	\$ 6,658,325	28.5%	\$741,218	\$ 7,395,273
2021	2,685,291	25.6	687,434	6,745,055	25.6	687,434	6,749,543	28.5	765,308	7,496,587
2022	2,772,563	25.6	709,776	6,830,106	25.6	709,776	6,834,650	28.5	790,180	7,591,114
2023	2,862,671	25.6	732,844	6,908,194	25.6	732,844	6,912,790	28.5	815,861	7,677,903
2024	2,955,708	25.6	756,661	6,978,388	25.6	756,661	6,983,030	28.5	842,377	7,755,917
2025	3,051,769	25.6	781,253	7,039,675	25.6	781,253	7,044,357	28.5	869,754	7,824,032
2026	3,150,951	25.6	806,643	7,090,954	25.6	806,643	7,095,671	28.5	898,021	7,881,025
2027	3,253,357	25.6	832,859	7,131,030	25.6	832,859	7,135,773	28.5	927,207	7,925,566
2028	3,359,091	25.6	859,927	7,158,606	25.6	859,927	7,163,367	28.5	957,341	7,956,215
2029	3,468,261	25.6	887,875	7,172,275	25.6	887,875	7,177,045	28.5	988,454	7,971,407

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	
2020	\$ 2,600,766	30.1%	\$782,831	\$ 7,767,999	31.6%	\$821,842	\$ 8,136,447	34.5%	\$897,264	\$ 8,877,630
2021	2,685,291	30.1	808,273	7,874,419	31.6	848,552	8,247,915	34.5	926,425	8,999,252
2022	2,772,563	30.1	834,541	7,973,710	31.6	876,130	8,351,916	34.5	956,534	9,112,727
2023	2,862,671	30.1	861,664	8,064,873	31.6	904,604	8,447,403	34.5	987,621	9,216,912
2024	2,955,708	30.1	889,668	8,146,819	31.6	934,004	8,533,236	34.5	1,019,719	9,310,564
2025	3,051,769	30.1	918,582	8,218,367	31.6	964,359	8,608,178	34.5	1,052,860	9,392,333
2026	3,150,951	30.1	948,436	8,278,232	31.6	995,701	8,670,883	34.5	1,087,078	9,460,750
2027	3,253,357	30.1	979,260	8,325,018	31.6	1,028,061	8,719,888	34.5	1,122,408	9,514,219
2028	3,359,091	30.1	1,011,086	8,357,211	31.6	1,061,473	8,753,608	34.5	1,158,886	9,551,011
2029	3,468,261	30.1	1,043,947	8,373,169	31.6	1,095,970	8,770,323	34.5	1,196,550	9,569,248

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	15.0%	\$390,115	\$ 4,438,864	19.4%	\$504,549	\$ 5,548,479	20.7%	\$538,359	\$ 5,912,779
2021	2,685,291	15.0	402,794	4,499,676	19.4	520,946	5,624,492	20.7	555,855	5,993,783
2022	2,772,563	15.0	415,884	4,556,414	19.4	537,877	5,695,413	20.7	573,921	6,069,361
2023	2,862,671	15.0	429,401	4,608,507	19.4	555,358	5,760,528	20.7	592,573	6,138,752
2024	2,955,708	15.0	443,356	4,655,334	19.4	573,407	5,819,060	20.7	611,832	6,201,127
2025	3,051,769	15.0	457,765	4,696,219	19.4	592,043	5,870,165	20.7	631,716	6,255,587
2026	3,150,951	15.0	472,643	4,730,428	19.4	611,284	5,912,925	20.7	652,247	6,301,155
2027	3,253,357	15.0	488,004	4,757,163	19.4	631,151	5,946,343	20.7	673,445	6,336,767
2028	3,359,091	15.0	503,864	4,775,559	19.4	651,664	5,969,338	20.7	695,332	6,361,272
2029	3,468,261	15.0	520,239	4,784,678	19.4	672,843	5,980,736	20.7	717,930	6,373,419

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	
2020	\$ 2,600,766	23.7%	\$616,382	\$ 6,653,898	23.7%	\$616,382	\$ 6,658,325	26.6%	\$691,804	\$ 7,395,273
2021	2,685,291	23.7	636,414	6,745,055	23.7	636,414	6,749,543	26.6	714,287	7,496,587
2022	2,772,563	23.7	657,097	6,830,106	23.7	657,097	6,834,650	26.6	737,502	7,591,114
2023	2,862,671	23.7	678,453	6,908,194	23.7	678,453	6,912,790	26.6	761,470	7,677,903
2024	2,955,708	23.7	700,503	6,978,388	23.7	700,503	6,983,030	26.6	786,218	7,755,917
2025	3,051,769	23.7	723,269	7,039,675	23.7	723,269	7,044,357	26.6	811,771	7,824,032
2026	3,150,951	23.7	746,775	7,090,954	23.7	746,775	7,095,671	26.6	838,153	7,881,025
2027	3,253,357	23.7	771,046	7,131,030	23.7	771,046	7,135,773	26.6	865,393	7,925,566
2028	3,359,091	23.7	796,105	7,158,606	23.7	796,105	7,163,367	26.6	893,518	7,956,215
2029	3,468,261	23.7	821,978	7,172,275	23.7	821,978	7,177,045	26.6	922,557	7,971,407

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	
2020	\$ 2,600,766	28.2%	\$733,416	\$ 7,767,999	29.7%	\$772,428	\$ 8,136,447	32.6%	\$847,850	\$ 8,877,630
2021	2,685,291	28.2	757,252	7,874,419	29.7	797,531	8,247,915	32.6	875,405	8,999,252
2022	2,772,563	28.2	781,863	7,973,710	29.7	823,451	8,351,916	32.6	903,856	9,112,727
2023	2,862,671	28.2	807,273	8,064,873	29.7	850,213	8,447,403	32.6	933,231	9,216,912
2024	2,955,708	28.2	833,510	8,146,819	29.7	877,845	8,533,236	32.6	963,561	9,310,564
2025	3,051,769	28.2	860,599	8,218,367	29.7	906,375	8,608,178	32.6	994,877	9,392,333
2026	3,150,951	28.2	888,568	8,278,232	29.7	935,832	8,670,883	32.6	1,027,210	9,460,750
2027	3,253,357	28.2	917,447	8,325,018	29.7	966,247	8,719,888	32.6	1,060,594	9,514,219
2028	3,359,091	28.2	947,264	8,357,211	29.7	997,650	8,753,608	32.6	1,095,064	9,551,011
2029	3,468,261	28.2	978,050	8,373,169	29.7	1,030,074	8,770,323	32.6	1,130,653	9,569,248

Notes regarding the above projections:

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



High Ridge Fire Protection District - Fire

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2020	\$ 2,600,766	13.1%	\$340,700	\$ 4,438,864	17.5%	\$455,134	\$ 5,548,479	18.8%	\$488,944	\$ 5,912,779
2021	2,685,291	13.1	351,773	4,499,676	17.5	469,926	5,624,492	18.8	504,835	5,993,783
2022	2,772,563	13.1	363,206	4,556,414	17.5	485,199	5,695,413	18.8	521,242	6,069,361
2023	2,862,671	13.1	375,010	4,608,507	17.5	500,967	5,760,528	18.8	538,182	6,138,752
2024	2,955,708	13.1	387,198	4,655,334	17.5	517,249	5,819,060	18.8	555,673	6,201,127
2025	3,051,769	13.1	399,782	4,696,219	17.5	534,060	5,870,165	18.8	573,733	6,255,587
2026	3,150,951	13.1	412,775	4,730,428	17.5	551,416	5,912,925	18.8	592,379	6,301,155
2027	3,253,357	13.1	426,190	4,757,163	17.5	569,337	5,946,343	18.8	611,631	6,336,767
2028	3,359,091	13.1	440,041	4,775,559	17.5	587,841	5,969,338	18.8	631,509	6,361,272
2029	3,468,261	13.1	454,342	4,784,678	17.5	606,946	5,980,736	18.8	652,033	6,373,419

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	
2020	\$ 2,600,766	21.8%	\$566,967	\$ 6,653,898	21.8%	\$566,967	\$ 6,658,325	24.7%	\$642,389	\$ 7,395,273
2021	2,685,291	21.8	585,393	6,745,055	21.8	585,393	6,749,543	24.7	663,267	7,496,587
2022	2,772,563	21.8	604,419	6,830,106	21.8	604,419	6,834,650	24.7	684,823	7,591,114
2023	2,862,671	21.8	624,062	6,908,194	21.8	624,062	6,912,790	24.7	707,080	7,677,903
2024	2,955,708	21.8	644,344	6,978,388	21.8	644,344	6,983,030	24.7	730,060	7,755,917
2025	3,051,769	21.8	665,286	7,039,675	21.8	665,286	7,044,357	24.7	753,787	7,824,032
2026	3,150,951	21.8	686,907	7,090,954	21.8	686,907	7,095,671	24.7	778,285	7,881,025
2027	3,253,357	21.8	709,232	7,131,030	21.8	709,232	7,135,773	24.7	803,579	7,925,566
2028	3,359,091	21.8	732,282	7,158,606	21.8	732,282	7,163,367	24.7	829,695	7,956,215
2029	3,468,261	21.8	756,081	7,172,275	21.8	756,081	7,177,045	24.7	856,660	7,971,407

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	
2020	\$ 2,600,766	26.3%	\$684,001	\$ 7,767,999	27.8%	\$723,013	\$ 8,136,447	30.7%	\$798,435	\$ 8,877,630
2021	2,685,291	26.3	706,232	7,874,419	27.8	746,511	8,247,915	30.7	824,384	8,999,252
2022	2,772,563	26.3	729,184	7,973,710	27.8	770,773	8,351,916	30.7	851,177	9,112,727
2023	2,862,671	26.3	752,882	8,064,873	27.8	795,823	8,447,403	30.7	878,840	9,216,912
2024	2,955,708	26.3	777,351	8,146,819	27.8	821,687	8,533,236	30.7	907,402	9,310,564
2025	3,051,769	26.3	802,615	8,218,367	27.8	848,392	8,608,178	30.7	936,893	9,392,333
2026	3,150,951	26.3	828,700	8,278,232	27.8	875,964	8,670,883	30.7	967,342	9,460,750
2027	3,253,357	26.3	855,633	8,325,018	27.8	904,433	8,719,888	30.7	998,781	9,514,219
2028	3,359,091	26.3	883,441	8,357,211	27.8	933,827	8,753,608	30.7	1,031,241	9,551,011
2029	3,468,261	26.3	912,153	8,373,169	27.8	964,177	8,770,323	30.7	1,064,756	9,569,248

Notes regarding the above projections:

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

