



The Initial Valuation For
Johnson County
as of December 31, 2020



Table of Contents

	Page
Actuary's Certification Letter	1
Alternate Plans Available	3
Employer Contribution Rates	
Regular Eligibility:	
5-Year Final Average Salary	4
3-Year Final Average Salary	5
Rule of 80 Eligibility:	
5-Year Final Average Salary	6
3-Year Final Average Salary	7
Employer Contribution Dollars	8
Appendix I	
Unfunded Actuarial Accrued Liability	11
Appendix II	
Summary of Financial Assumptions	13
Appendix III	
Summary of LAGERS Provisions	17
Appendix IV	
Benefit Illustrations.....	20
Appendix V	
Age and Service Characteristics of Employees	29
Appendix VI	
Risk Commentary.....	31



March 16, 2021

Johnson County
Warrensburg, 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.

Johnson County

Employer Contribution Rates 5 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.60%	0.20%	0.90%	7.70%	5.80%	3.90%	2.00%
	Police	7.20	0.40	0.90	8.50	6.60	4.70	2.80
L-3	General	8.10	0.30	1.10	9.50	7.60	5.70	3.80
	Police	8.70	0.50	1.20	10.40	8.50	6.60	4.70
LT-4(65)	General	7.20	0.20	1.00	8.40	6.50	4.60	2.70
	Police	8.50	0.40	1.20	10.10	8.20	6.30	4.40
LT-5(65)	General	8.50	0.30	1.20	10.00	8.10	6.20	4.30
	Police	9.70	0.50	1.40	11.60	9.70	7.80	5.90
L-7	General	9.50	0.30	1.30	11.10	9.20	7.30	5.40
	Police	10.30	0.60	1.40	12.30	10.40	8.50	6.60
LT-8(65)	General	9.80	0.30	1.40	11.50	9.60	7.70	5.80
	Police	11.00	0.60	1.50	13.10	11.20	9.30	7.40
L-12	General	11.00	0.40	1.60	13.00	11.10	9.20	7.30
	Police	11.90	0.70	1.70	14.30	12.40	10.50	8.60
LT-14(65)	General	11.10	0.40	1.60	13.10	11.20	9.30	7.40
	Police	12.20	0.70	1.70	14.60	12.70	10.80	8.90
L-6	General	12.40	0.50	1.80	14.70	12.80	10.90	9.00
	Police	13.50	0.80	1.90	16.20	14.30	12.40	10.50

* Prior service credit was given for vesting purposes only.

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

Johnson County

Employer Contribution Rates 3 Year FAS - Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	6.80%	0.20%	0.90%	7.90%	6.00%	4.10%	2.20%
	Police	7.40	0.40	1.00	8.80	6.90	5.00	3.10
L-3	General	8.30	0.30	1.20	9.80	7.90	6.00	4.10
	Police	9.00	0.50	1.20	10.70	8.80	6.90	5.00
LT-4(65)	General	7.50	0.20	1.00	8.70	6.80	4.90	3.00
	Police	8.80	0.40	1.20	10.40	8.50	6.60	4.70
LT-5(65)	General	8.80	0.30	1.20	10.30	8.40	6.50	4.60
	Police	10.10	0.50	1.40	12.00	10.10	8.20	6.30
L-7	General	9.80	0.30	1.40	11.50	9.60	7.70	5.80
	Police	10.70	0.60	1.50	12.80	10.90	9.00	7.10
LT-8(65)	General	10.10	0.30	1.40	11.80	9.90	8.00	6.10
	Police	11.40	0.60	1.60	13.60	11.70	9.80	7.90
L-12	General	11.30	0.40	1.60	13.30	11.40	9.50	7.60
	Police	12.30	0.70	1.70	14.70	12.80	10.90	9.00
LT-14(65)	General	11.50	0.40	1.60	13.50	11.60	9.70	7.80
	Police	12.60	0.70	1.80	15.10	13.20	11.30	9.40
L-6	General	12.80	0.50	1.80	15.10	13.20	11.30	9.40
	Police	13.90	0.80	1.90	16.60	14.70	12.80	10.90

* Prior service credit was given for vesting purposes only.

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

Johnson County

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.00%	0.20%	0.90%	8.10%	6.20%	4.30%	2.40%
	Police	7.40	0.40	0.90	8.70	6.80	4.90	3.00
L-3	General	8.50	0.30	1.10	9.90	8.00	6.10	4.20
	Police	9.00	0.50	1.20	10.70	8.80	6.90	5.00
LT-4(65)	General	8.10	0.20	1.10	9.40	7.50	5.60	3.70
	Police	9.00	0.40	1.20	10.60	8.70	6.80	4.90
LT-5(65)	General	9.30	0.30	1.30	10.90	9.00	7.10	5.20
	Police	10.20	0.50	1.40	12.10	10.20	8.30	6.40
L-7	General	10.10	0.30	1.30	11.70	9.80	7.90	6.00
	Police	10.60	0.60	1.40	12.60	10.70	8.80	6.90
LT-8(65)	General	10.60	0.30	1.40	12.30	10.40	8.50	6.60
	Police	11.40	0.60	1.50	13.50	11.60	9.70	7.80
L-12	General	11.60	0.40	1.60	13.60	11.70	9.80	7.90
	Police	12.20	0.70	1.60	14.50	12.60	10.70	8.80
LT-14(65)	General	11.80	0.40	1.60	13.80	11.90	10.00	8.10
	Police	12.60	0.70	1.70	15.00	13.10	11.20	9.30
L-6	General	13.10	0.50	1.80	15.40	13.50	11.60	9.70
	Police	13.80	0.80	1.90	16.50	14.60	12.70	10.80

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

* Prior service credit was given for vesting purposes only.

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

Johnson County

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

Benefit Program	Employee Groups	Percents of Active Member Payroll						
		Normal Cost Rate	Casualty Rate	Prior Service Cost Rate *	Total Employer Contribution Rate Based Upon the Following Member Contribution Rates			
					0%	2%	4%	6%
L-1	General	7.20%	0.20%	0.90%	8.30%	6.40%	4.50%	2.60%
	Police	7.60	0.40	1.00	9.00	7.10	5.20	3.30
L-3	General	8.80	0.30	1.20	10.30	8.40	6.50	4.60
	Police	9.30	0.50	1.20	11.00	9.10	7.20	5.30
LT-4(65)	General	8.30	0.20	1.10	9.60	7.70	5.80	3.90
	Police	9.30	0.40	1.30	11.00	9.10	7.20	5.30
LT-5(65)	General	9.60	0.30	1.30	11.20	9.30	7.40	5.50
	Police	10.50	0.50	1.40	12.40	10.50	8.60	6.70
L-7	General	10.40	0.30	1.40	12.10	10.20	8.30	6.40
	Police	11.00	0.60	1.40	13.00	11.10	9.20	7.30
LT-8(65)	General	10.90	0.30	1.50	12.70	10.80	8.90	7.00
	Police	11.80	0.60	1.60	14.00	12.10	10.20	8.30
L-12	General	12.00	0.40	1.60	14.00	12.10	10.20	8.30
	Police	12.60	0.70	1.70	15.00	13.10	11.20	9.30
LT-14(65)	General	12.20	0.40	1.70	14.30	12.40	10.50	8.60
	Police	13.10	0.70	1.80	15.60	13.70	11.80	9.90
L-6	General	13.50	0.50	1.90	15.90	14.00	12.10	10.20
	Police	14.30	0.80	1.90	17.00	15.10	13.20	11.30

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

* Prior service credit was given for vesting purposes only.

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

Johnson County

Employer Contribution Dollars General

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

Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 395,483	\$ 297,896	\$ 200,309	\$ 102,723
L-3	487,933	390,347	292,760	195,173
LT-4(65)	431,436	333,849	236,262	138,676
LT-5(65)	513,614	416,027	318,441	220,854
L-7	570,112	472,525	374,938	277,352
LT-8(65)	590,656	493,070	395,483	297,896
L-12	667,698	570,112	472,525	374,938
LT-14(65)	672,834	575,248	477,661	380,074
L-6	755,013	657,426	559,839	462,253

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 405,755	\$ 308,168	\$ 210,582	\$ 112,995
L-3	503,342	405,755	308,168	210,582
LT-4(65)	446,844	349,258	251,671	154,084
LT-5(65)	529,022	431,436	333,849	236,262
L-7	590,656	493,070	395,483	297,896
LT-8(65)	606,065	508,478	410,891	313,305
L-12	683,107	585,520	487,933	390,347
LT-14(65)	693,379	595,792	498,206	400,619
L-6	775,557	677,971	580,384	482,797

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 416,027	\$ 318,441	\$ 220,854	\$ 123,267
L-3	508,478	410,891	313,305	215,718
LT-4(65)	482,797	385,211	287,624	190,037
LT-5(65)	559,839	462,253	364,666	267,079
L-7	600,928	503,342	405,755	308,168
LT-8(65)	631,745	534,159	436,572	338,985
L-12	698,515	600,928	503,342	405,755
LT-14(65)	708,787	611,201	513,614	416,027
L-6	790,966	693,379	595,792	498,206

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 426,300	\$ 328,713	\$ 231,126	\$ 133,540
L-3	529,022	431,436	333,849	236,262
LT-4(65)	493,070	395,483	297,896	200,309
LT-5(65)	575,248	477,661	380,074	282,488
L-7	621,473	523,886	426,300	328,713
LT-8(65)	652,290	554,703	457,117	359,530
L-12	719,060	621,473	523,886	426,300
LT-14(65)	734,468	636,881	539,295	441,708
L-6	816,646	719,060	621,473	523,886

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.

Johnson County

Employer Contribution Dollars Police

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

Regular Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 133,404	\$ 103,584	\$ 73,765	\$ 43,945
L-3	163,224	133,404	103,584	73,765
LT-4(65)	158,515	128,696	98,876	69,056
LT-5(65)	182,057	152,237	122,418	92,598
L-7	193,043	163,224	133,404	103,584
LT-8(65)	205,599	175,779	145,960	116,140
L-12	224,432	194,613	164,793	134,973
LT-14(65)	229,141	199,321	169,501	139,682
L-6	254,252	224,432	194,613	164,793

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 138,112	\$ 108,293	\$ 78,473	\$ 48,653
L-3	167,932	138,112	108,293	78,473
LT-4(65)	163,224	133,404	103,584	73,765
LT-5(65)	188,335	158,515	128,696	98,876
L-7	200,891	171,071	141,251	111,431
LT-8(65)	213,446	183,627	153,807	123,987
L-12	230,710	200,891	171,071	141,251
LT-14(65)	236,988	207,168	177,349	147,529
L-6	260,530	230,710	200,891	171,071

Rule of 80 Retirement Eligibility

5 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 136,543	\$ 106,723	\$ 76,903	\$ 47,084
L-3	167,932	138,112	108,293	78,473
LT-4(65)	166,363	136,543	106,723	76,903
LT-5(65)	189,904	160,085	130,265	100,445
L-7	197,752	167,932	138,112	108,293
LT-8(65)	211,877	182,057	152,237	122,418
L-12	227,571	197,752	167,932	138,112
LT-14(65)	235,419	205,599	175,779	145,960
L-6	258,961	229,141	199,321	169,501

3 Year FAS				
Benefit Program	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 141,251	\$ 111,431	\$ 81,612	\$ 51,792
L-3	172,640	142,821	113,001	83,181
LT-4(65)	172,640	142,821	113,001	83,181
LT-5(65)	194,613	164,793	134,973	105,154
L-7	204,030	174,210	144,390	114,570
LT-8(65)	219,724	189,904	160,085	130,265
L-12	235,419	205,599	175,779	145,960
LT-14(65)	244,835	215,016	185,196	155,376
L-6	266,808	236,988	207,168	177,349

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.

Johnson County

Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	143	39
Annual Payroll	\$ 5,136,141	\$ 1,569,458

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:

Johnson County

Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 807,248	\$ 833,157
	Police	260,785	269,285
L-3	General	1,008,847	1,041,364
	Police	325,905	336,678
LT-4(65)	General	881,341	909,909
	Police	324,632	335,503
LT-5(65)	General	1,064,540	1,098,987
	Police	373,804	386,260
L-7	General	1,210,724	1,249,722
	Police	391,122	404,066
LT-8(65)	General	1,247,879	1,288,138
	Police	422,976	437,116
L-12	General	1,412,585	1,458,000
	Police	456,291	471,437
LT-14(65)	General	1,431,086	1,477,201
	Police	472,241	487,977
L-6	General	1,614,466	1,666,403
	Police	521,471	538,664

Johnson County

Unfunded Actuarial Accrued Liability (UAAL)

Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 811,662	\$ 838,734
	Police	257,874	266,419
L-3	General	1,014,458	1,048,239
	Police	322,236	333,076
LT-4(65)	General	985,013	1,018,499
	Police	338,550	350,022
LT-5(65)	General	1,144,546	1,182,983
	Police	382,731	395,751
L-7	General	1,217,416	1,258,025
	Police	386,672	399,805
LT-8(65)	General	1,304,197	1,347,855
	Police	426,997	441,540
L-12	General	1,420,338	1,467,703
	Police	451,105	466,396
LT-14(65)	General	1,463,724	1,512,586
	Police	471,249	487,282
L-6	General	1,623,163	1,677,308
	Police	515,529	533,012

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

Sample Ages	Percent Increase in Individual's Pay During Next Year		
	General	Police/Public Safety	Fire
	25	6.55%	6.55%
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

Johnson County - 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	2							2	\$ 52,395
20-24	15							15	\$ 417,811
25-29	11	1						12	\$ 336,253
30-34	7	3	1					11	\$ 378,951
35-39	6	4	2	1				13	\$ 450,499
40-44	7	4		3	1			15	\$ 559,617
45-49	10	2		1	1	1		15	\$ 590,624
50-54	3	4	1		5			13	\$ 522,120
55-59	3	4	1	4		1	1	14	\$ 623,941
60-64	7	7	3	1				18	\$ 653,192
65-69	3	3	1			2		9	\$ 337,491
70 & Over	1	1	3			1		6	\$ 213,247
Totals	75	33	12	10	7	5	1	143	\$ 5,136,141

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

Age: 45.5 years.

Benefit Service: 0.0 years.

Annual Pay: \$35,917.

Johnson County - Police

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	4							4	\$ 141,024
25-29	8	1						9	\$ 313,040
30-34	1	2						3	\$ 126,798
35-39	3		1					4	\$ 152,838
40-44	2	4		1				7	\$ 280,385
45-49		3			1	1		5	\$ 244,533
50-54	1							1	\$ 35,048
55-59	1			1	1			3	\$ 128,523
60-64		1					1	2	\$ 84,531
65-69		1						1	\$ 62,738
70 & Over									
Totals	20	12	1	2	2	2		39	\$ 1,569,458

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

Age: 39.1 years.

Benefit Service: 0.0 years.

Annual Pay: \$40,243.

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 16, 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

Johnson County

Sincerely,

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

Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp



March 16, 2021

Johnson County
Warrensburg, 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 Johnson County dated March 16, 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

Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	7.7%	\$395,483	\$ 807,248	9.5%	\$487,933	\$ 1,008,847	8.4%	\$431,436	\$ 881,341
2021	5,303,065	7.7	408,336	818,307	9.5	503,791	1,022,668	8.4	445,457	893,415
2022	5,475,415	7.7	421,607	828,625	9.5	520,164	1,035,563	8.4	459,935	904,680
2023	5,653,366	7.7	435,309	838,099	9.5	537,070	1,047,403	8.4	474,883	915,023
2024	5,837,100	7.7	449,457	846,615	9.5	554,525	1,058,046	8.4	490,316	924,320
2025	6,026,806	7.7	464,064	854,050	9.5	572,547	1,067,338	8.4	506,252	932,438
2026	6,222,677	7.7	479,146	860,271	9.5	591,154	1,075,113	8.4	522,705	939,230
2027	6,424,914	7.7	494,718	865,133	9.5	610,367	1,081,189	8.4	539,693	944,538
2028	6,633,724	7.7	510,797	868,479	9.5	630,204	1,085,370	8.4	557,233	948,191
2029	6,849,320	7.7	527,398	870,137	9.5	650,685	1,087,442	8.4	575,343	950,002

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	\$ 5,136,141	10.0%	\$513,614	\$ 1,064,540	11.1%	\$570,112	\$ 1,210,724	11.5%	\$590,656	\$ 1,247,879
2021	5,303,065	10.0	530,307	1,079,124	11.1	588,640	1,227,311	11.5	609,852	1,264,975
2022	5,475,415	10.0	547,542	1,092,731	11.1	607,771	1,242,787	11.5	629,673	1,280,926
2023	5,653,366	10.0	565,337	1,105,224	11.1	627,524	1,256,996	11.5	650,137	1,295,571
2024	5,837,100	10.0	583,710	1,116,454	11.1	647,918	1,269,768	11.5	671,267	1,308,735
2025	6,026,806	10.0	602,681	1,126,259	11.1	668,975	1,280,920	11.5	693,083	1,320,229
2026	6,222,677	10.0	622,268	1,134,463	11.1	690,717	1,290,251	11.5	715,608	1,329,846
2027	6,424,914	10.0	642,491	1,140,875	11.1	713,165	1,297,543	11.5	738,865	1,337,362
2028	6,633,724	10.0	663,372	1,145,287	11.1	736,343	1,302,561	11.5	762,878	1,342,534
2029	6,849,320	10.0	684,932	1,147,474	11.1	760,275	1,305,048	11.5	787,672	1,345,098

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	\$ 5,136,141	13.0%	\$667,698	\$ 1,412,585	13.1%	\$672,834	\$ 1,431,086	14.7%	\$755,013	\$ 1,614,466
2021	5,303,065	13.0	689,398	1,431,937	13.1	694,702	1,450,692	14.7	779,551	1,636,584
2022	5,475,415	13.0	711,804	1,449,993	13.1	717,279	1,468,984	14.7	804,886	1,657,220
2023	5,653,366	13.0	734,938	1,466,571	13.1	740,591	1,485,779	14.7	831,045	1,676,167
2024	5,837,100	13.0	758,823	1,481,473	13.1	764,660	1,500,876	14.7	858,054	1,693,198
2025	6,026,806	13.0	783,485	1,494,484	13.1	789,512	1,514,057	14.7	885,940	1,708,068
2026	6,222,677	13.0	808,948	1,505,370	13.1	815,171	1,525,086	14.7	914,734	1,720,510
2027	6,424,914	13.0	835,239	1,513,878	13.1	841,664	1,533,705	14.7	944,462	1,730,234
2028	6,633,724	13.0	862,384	1,519,732	13.1	869,018	1,539,636	14.7	975,157	1,736,925
2029	6,849,320	13.0	890,412	1,522,634	13.1	897,261	1,542,576	14.7	1,006,850	1,740,242

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	5.8%	\$297,896	\$ 807,248	7.6%	\$390,347	\$ 1,008,847	6.5%	\$333,849	\$ 881,341
2021	5,303,065	5.8	307,578	818,307	7.6	403,033	1,022,668	6.5	344,699	893,415
2022	5,475,415	5.8	317,574	828,625	7.6	416,132	1,035,563	6.5	355,902	904,680
2023	5,653,366	5.8	327,895	838,099	7.6	429,656	1,047,403	6.5	367,469	915,023
2024	5,837,100	5.8	338,552	846,615	7.6	443,620	1,058,046	6.5	379,412	924,320
2025	6,026,806	5.8	349,555	854,050	7.6	458,037	1,067,338	6.5	391,742	932,438
2026	6,222,677	5.8	360,915	860,271	7.6	472,923	1,075,113	6.5	404,474	939,230
2027	6,424,914	5.8	372,645	865,133	7.6	488,293	1,081,189	6.5	417,619	944,538
2028	6,633,724	5.8	384,756	868,479	7.6	504,163	1,085,370	6.5	431,192	948,191
2029	6,849,320	5.8	397,261	870,137	7.6	520,548	1,087,442	6.5	445,206	950,002

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	\$ 5,136,141	8.1%	\$416,027	\$ 1,064,540	9.2%	\$472,525	\$ 1,210,724	9.6%	\$493,070	\$ 1,247,879
2021	5,303,065	8.1	429,548	1,079,124	9.2	487,882	1,227,311	9.6	509,094	1,264,975
2022	5,475,415	8.1	443,509	1,092,731	9.2	503,738	1,242,787	9.6	525,640	1,280,926
2023	5,653,366	8.1	457,923	1,105,224	9.2	520,110	1,256,996	9.6	542,723	1,295,571
2024	5,837,100	8.1	472,805	1,116,454	9.2	537,013	1,269,768	9.6	560,362	1,308,735
2025	6,026,806	8.1	488,171	1,126,259	9.2	554,466	1,280,920	9.6	578,573	1,320,229
2026	6,222,677	8.1	504,037	1,134,463	9.2	572,486	1,290,251	9.6	597,377	1,329,846
2027	6,424,914	8.1	520,418	1,140,875	9.2	591,092	1,297,543	9.6	616,792	1,337,362
2028	6,633,724	8.1	537,332	1,145,287	9.2	610,303	1,302,561	9.6	636,838	1,342,534
2029	6,849,320	8.1	554,795	1,147,474	9.2	630,137	1,305,048	9.6	657,535	1,345,098

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	\$ 5,136,141	11.1%	\$570,112	\$ 1,412,585	11.2%	\$575,248	\$ 1,431,086	12.8%	\$657,426	\$ 1,614,466
2021	5,303,065	11.1	588,640	1,431,937	11.2	593,943	1,450,692	12.8	678,792	1,636,584
2022	5,475,415	11.1	607,771	1,449,993	11.2	613,246	1,468,984	12.8	700,853	1,657,220
2023	5,653,366	11.1	627,524	1,466,571	11.2	633,177	1,485,779	12.8	723,631	1,676,167
2024	5,837,100	11.1	647,918	1,481,473	11.2	653,755	1,500,876	12.8	747,149	1,693,198
2025	6,026,806	11.1	668,975	1,494,484	11.2	675,002	1,514,057	12.8	771,431	1,708,068
2026	6,222,677	11.1	690,717	1,505,370	11.2	696,940	1,525,086	12.8	796,503	1,720,510
2027	6,424,914	11.1	713,165	1,513,878	11.2	719,590	1,533,705	12.8	822,389	1,730,234
2028	6,633,724	11.1	736,343	1,519,732	11.2	742,977	1,539,636	12.8	849,117	1,736,925
2029	6,849,320	11.1	760,275	1,522,634	11.2	767,124	1,542,576	12.8	876,713	1,740,242

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	3.9%	\$200,309	\$ 807,248	5.7%	\$292,760	\$ 1,008,847	4.6%	\$236,262	\$ 881,341
2021	5,303,065	3.9	206,820	818,307	5.7	302,275	1,022,668	4.6	243,941	893,415
2022	5,475,415	3.9	213,541	828,625	5.7	312,099	1,035,563	4.6	251,869	904,680
2023	5,653,366	3.9	220,481	838,099	5.7	322,242	1,047,403	4.6	260,055	915,023
2024	5,837,100	3.9	227,647	846,615	5.7	332,715	1,058,046	4.6	268,507	924,320
2025	6,026,806	3.9	235,045	854,050	5.7	343,528	1,067,338	4.6	277,233	932,438
2026	6,222,677	3.9	242,684	860,271	5.7	354,693	1,075,113	4.6	286,243	939,230
2027	6,424,914	3.9	250,572	865,133	5.7	366,220	1,081,189	4.6	295,546	944,538
2028	6,633,724	3.9	258,715	868,479	5.7	378,122	1,085,370	4.6	305,151	948,191
2029	6,849,320	3.9	267,123	870,137	5.7	390,411	1,087,442	4.6	315,069	950,002

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	\$ 5,136,141	6.2%	\$318,441	\$ 1,064,540	7.3%	\$374,938	\$ 1,210,724	7.7%	\$395,483	\$ 1,247,879
2021	5,303,065	6.2	328,790	1,079,124	7.3	387,124	1,227,311	7.7	408,336	1,264,975
2022	5,475,415	6.2	339,476	1,092,731	7.3	399,705	1,242,787	7.7	421,607	1,280,926
2023	5,653,366	6.2	350,509	1,105,224	7.3	412,696	1,256,996	7.7	435,309	1,295,571
2024	5,837,100	6.2	361,900	1,116,454	7.3	426,108	1,269,768	7.7	449,457	1,308,735
2025	6,026,806	6.2	373,662	1,126,259	7.3	439,957	1,280,920	7.7	464,064	1,320,229
2026	6,222,677	6.2	385,806	1,134,463	7.3	454,255	1,290,251	7.7	479,146	1,329,846
2027	6,424,914	6.2	398,345	1,140,875	7.3	469,019	1,297,543	7.7	494,718	1,337,362
2028	6,633,724	6.2	411,291	1,145,287	7.3	484,262	1,302,561	7.7	510,797	1,342,534
2029	6,849,320	6.2	424,658	1,147,474	7.3	500,000	1,305,048	7.7	527,398	1,345,098

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	\$ 5,136,141	9.2%	\$472,525	\$ 1,412,585	9.3%	\$477,661	\$ 1,431,086	10.9%	\$559,839	\$ 1,614,466
2021	5,303,065	9.2	487,882	1,431,937	9.3	493,185	1,450,692	10.9	578,034	1,636,584
2022	5,475,415	9.2	503,738	1,449,993	9.3	509,214	1,468,984	10.9	596,820	1,657,220
2023	5,653,366	9.2	520,110	1,466,571	9.3	525,763	1,485,779	10.9	616,217	1,676,167
2024	5,837,100	9.2	537,013	1,481,473	9.3	542,850	1,500,876	10.9	636,244	1,693,198
2025	6,026,806	9.2	554,466	1,494,484	9.3	560,493	1,514,057	10.9	656,922	1,708,068
2026	6,222,677	9.2	572,486	1,505,370	9.3	578,709	1,525,086	10.9	678,272	1,720,510
2027	6,424,914	9.2	591,092	1,513,878	9.3	597,517	1,533,705	10.9	700,316	1,730,234
2028	6,633,724	9.2	610,303	1,519,732	9.3	616,936	1,539,636	10.9	723,076	1,736,925
2029	6,849,320	9.2	630,137	1,522,634	9.3	636,987	1,542,576	10.9	746,576	1,740,242

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	2.0%	\$102,723	\$ 807,248	3.8%	\$195,173	\$ 1,008,847	2.7%	\$138,676	\$ 881,341
2021	5,303,065	2.0	106,061	818,307	3.8	201,516	1,022,668	2.7	143,183	893,415
2022	5,475,415	2.0	109,508	828,625	3.8	208,066	1,035,563	2.7	147,836	904,680
2023	5,653,366	2.0	113,067	838,099	3.8	214,828	1,047,403	2.7	152,641	915,023
2024	5,837,100	2.0	116,742	846,615	3.8	221,810	1,058,046	2.7	157,602	924,320
2025	6,026,806	2.0	120,536	854,050	3.8	229,019	1,067,338	2.7	162,724	932,438
2026	6,222,677	2.0	124,454	860,271	3.8	236,462	1,075,113	2.7	168,012	939,230
2027	6,424,914	2.0	128,498	865,133	3.8	244,147	1,081,189	2.7	173,473	944,538
2028	6,633,724	2.0	132,674	868,479	3.8	252,082	1,085,370	2.7	179,111	948,191
2029	6,849,320	2.0	136,986	870,137	3.8	260,274	1,087,442	2.7	184,932	950,002

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	\$ 5,136,141	4.3%	\$220,854	\$ 1,064,540	5.4%	\$277,352	\$ 1,210,724	5.8%	\$297,896	\$ 1,247,879
2021	5,303,065	4.3	228,032	1,079,124	5.4	286,366	1,227,311	5.8	307,578	1,264,975
2022	5,475,415	4.3	235,443	1,092,731	5.4	295,672	1,242,787	5.8	317,574	1,280,926
2023	5,653,366	4.3	243,095	1,105,224	5.4	305,282	1,256,996	5.8	327,895	1,295,571
2024	5,837,100	4.3	250,995	1,116,454	5.4	315,203	1,269,768	5.8	338,552	1,308,735
2025	6,026,806	4.3	259,153	1,126,259	5.4	325,448	1,280,920	5.8	349,555	1,320,229
2026	6,222,677	4.3	267,575	1,134,463	5.4	336,025	1,290,251	5.8	360,915	1,329,846
2027	6,424,914	4.3	276,271	1,140,875	5.4	346,945	1,297,543	5.8	372,645	1,337,362
2028	6,633,724	4.3	285,250	1,145,287	5.4	358,221	1,302,561	5.8	384,756	1,342,534
2029	6,849,320	4.3	294,521	1,147,474	5.4	369,863	1,305,048	5.8	397,261	1,345,098

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	\$ 5,136,141	7.3%	\$374,938	\$ 1,412,585	7.4%	\$380,074	\$ 1,431,086	9.0%	\$462,253	\$ 1,614,466
2021	5,303,065	7.3	387,124	1,431,937	7.4	392,427	1,450,692	9.0	477,276	1,636,584
2022	5,475,415	7.3	399,705	1,449,993	7.4	405,181	1,468,984	9.0	492,787	1,657,220
2023	5,653,366	7.3	412,696	1,466,571	7.4	418,349	1,485,779	9.0	508,803	1,676,167
2024	5,837,100	7.3	426,108	1,481,473	7.4	431,945	1,500,876	9.0	525,339	1,693,198
2025	6,026,806	7.3	439,957	1,494,484	7.4	445,984	1,514,057	9.0	542,413	1,708,068
2026	6,222,677	7.3	454,255	1,505,370	7.4	460,478	1,525,086	9.0	560,041	1,720,510
2027	6,424,914	7.3	469,019	1,513,878	7.4	475,444	1,533,705	9.0	578,242	1,730,234
2028	6,633,724	7.3	484,262	1,519,732	7.4	490,896	1,539,636	9.0	597,035	1,736,925
2029	6,849,320	7.3	500,000	1,522,634	7.4	506,850	1,542,576	9.0	616,439	1,740,242

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	7.9%	\$405,755	\$ 833,157	9.8%	\$503,342	\$ 1,041,364	8.7%	\$446,844	\$ 909,909
2021	5,303,065	7.9	418,942	844,571	9.8	519,700	1,055,631	8.7	461,367	922,375
2022	5,475,415	7.9	432,558	855,221	9.8	536,591	1,068,942	8.7	476,361	934,006
2023	5,653,366	7.9	446,616	864,999	9.8	554,030	1,081,163	8.7	491,843	944,684
2024	5,837,100	7.9	461,131	873,788	9.8	572,036	1,092,149	8.7	507,828	954,283
2025	6,026,806	7.9	476,118	881,462	9.8	590,627	1,101,741	8.7	524,332	962,664
2026	6,222,677	7.9	491,591	887,883	9.8	609,822	1,109,766	8.7	541,373	969,676
2027	6,424,914	7.9	507,568	892,901	9.8	629,642	1,116,038	8.7	558,968	975,156
2028	6,633,724	7.9	524,064	896,354	9.8	650,105	1,120,354	8.7	577,134	978,927
2029	6,849,320	7.9	541,096	898,066	9.8	671,233	1,122,493	8.7	595,891	980,796

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	\$ 5,136,141	10.3%	\$529,022	\$ 1,098,987	11.5%	\$590,656	\$ 1,249,722	11.8%	\$606,065	\$ 1,288,138
2021	5,303,065	10.3	546,216	1,114,043	11.5	609,852	1,266,843	11.8	625,762	1,305,785
2022	5,475,415	10.3	563,968	1,128,090	11.5	629,673	1,282,817	11.8	646,099	1,322,250
2023	5,653,366	10.3	582,297	1,140,987	11.5	650,137	1,297,483	11.8	667,097	1,337,367
2024	5,837,100	10.3	601,221	1,152,580	11.5	671,267	1,310,667	11.8	688,778	1,350,956
2025	6,026,806	10.3	620,761	1,162,702	11.5	693,083	1,322,178	11.8	711,163	1,362,821
2026	6,222,677	10.3	640,936	1,171,172	11.5	715,608	1,331,809	11.8	734,276	1,372,748
2027	6,424,914	10.3	661,766	1,177,791	11.5	738,865	1,339,336	11.8	758,140	1,380,506
2028	6,633,724	10.3	683,274	1,182,346	11.5	762,878	1,344,515	11.8	782,779	1,385,844
2029	6,849,320	10.3	705,480	1,184,604	11.5	787,672	1,347,082	11.8	808,220	1,388,490

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	\$ 5,136,141	13.3%	\$683,107	\$ 1,458,000	13.5%	\$693,379	\$ 1,477,201	15.1%	\$775,557	\$ 1,666,403
2021	5,303,065	13.3	705,308	1,477,974	13.5	715,914	1,497,438	15.1	800,763	1,689,232
2022	5,475,415	13.3	728,230	1,496,610	13.5	739,181	1,516,320	15.1	826,788	1,710,532
2023	5,653,366	13.3	751,898	1,513,721	13.5	763,204	1,533,656	15.1	853,658	1,730,088
2024	5,837,100	13.3	776,334	1,529,102	13.5	788,009	1,549,239	15.1	881,402	1,747,667
2025	6,026,806	13.3	801,565	1,542,531	13.5	813,619	1,562,845	15.1	910,048	1,763,016
2026	6,222,677	13.3	827,616	1,553,767	13.5	840,061	1,574,229	15.1	939,624	1,775,858
2027	6,424,914	13.3	854,514	1,562,548	13.5	867,363	1,583,126	15.1	970,162	1,785,895
2028	6,633,724	13.3	882,285	1,568,590	13.5	895,553	1,589,248	15.1	1,001,692	1,792,801
2029	6,849,320	13.3	910,960	1,571,585	13.5	924,658	1,592,283	15.1	1,034,247	1,796,224

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	6.0%	\$308,168	\$ 833,157	7.9%	\$405,755	\$ 1,041,364	6.8%	\$349,258	\$ 909,909
2021	5,303,065	6.0	318,184	844,571	7.9	418,942	1,055,631	6.8	360,608	922,375
2022	5,475,415	6.0	328,525	855,221	7.9	432,558	1,068,942	6.8	372,328	934,006
2023	5,653,366	6.0	339,202	864,999	7.9	446,616	1,081,163	6.8	384,429	944,684
2024	5,837,100	6.0	350,226	873,788	7.9	461,131	1,092,149	6.8	396,923	954,283
2025	6,026,806	6.0	361,608	881,462	7.9	476,118	1,101,741	6.8	409,823	962,664
2026	6,222,677	6.0	373,361	887,883	7.9	491,591	1,109,766	6.8	423,142	969,676
2027	6,424,914	6.0	385,495	892,901	7.9	507,568	1,116,038	6.8	436,894	975,156
2028	6,633,724	6.0	398,023	896,354	7.9	524,064	1,120,354	6.8	451,093	978,927
2029	6,849,320	6.0	410,959	898,066	7.9	541,096	1,122,493	6.8	465,754	980,796

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	\$ 5,136,141	8.4%	\$431,436	\$ 1,098,987	9.6%	\$493,070	\$ 1,249,722	9.9%	\$508,478	\$ 1,288,138
2021	5,303,065	8.4	445,457	1,114,043	9.6	509,094	1,266,843	9.9	525,003	1,305,785
2022	5,475,415	8.4	459,935	1,128,090	9.6	525,640	1,282,817	9.9	542,066	1,322,250
2023	5,653,366	8.4	474,883	1,140,987	9.6	542,723	1,297,483	9.9	559,683	1,337,367
2024	5,837,100	8.4	490,316	1,152,580	9.6	560,362	1,310,667	9.9	577,873	1,350,956
2025	6,026,806	8.4	506,252	1,162,702	9.6	578,573	1,322,178	9.9	596,654	1,362,821
2026	6,222,677	8.4	522,705	1,171,172	9.6	597,377	1,331,809	9.9	616,045	1,372,748
2027	6,424,914	8.4	539,693	1,177,791	9.6	616,792	1,339,336	9.9	636,066	1,380,506
2028	6,633,724	8.4	557,233	1,182,346	9.6	636,838	1,344,515	9.9	656,739	1,385,844
2029	6,849,320	8.4	575,343	1,184,604	9.6	657,535	1,347,082	9.9	678,083	1,388,490

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	\$ 5,136,141	11.4%	\$585,520	\$ 1,458,000	11.6%	\$595,792	\$ 1,477,201	13.2%	\$677,971	\$ 1,666,403
2021	5,303,065	11.4	604,549	1,477,974	11.6	615,156	1,497,438	13.2	700,005	1,689,232
2022	5,475,415	11.4	624,197	1,496,610	11.6	635,148	1,516,320	13.2	722,755	1,710,532
2023	5,653,366	11.4	644,484	1,513,721	11.6	655,790	1,533,656	13.2	746,244	1,730,088
2024	5,837,100	11.4	665,429	1,529,102	11.6	677,104	1,549,239	13.2	770,497	1,747,667
2025	6,026,806	11.4	687,056	1,542,531	11.6	699,109	1,562,845	13.2	795,538	1,763,016
2026	6,222,677	11.4	709,385	1,553,767	11.6	721,831	1,574,229	13.2	821,393	1,775,858
2027	6,424,914	11.4	732,440	1,562,548	11.6	745,290	1,583,126	13.2	848,089	1,785,895
2028	6,633,724	11.4	756,245	1,568,590	11.6	769,512	1,589,248	13.2	875,652	1,792,801
2029	6,849,320	11.4	780,822	1,571,585	11.6	794,521	1,592,283	13.2	904,110	1,796,224

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	4.1%	\$210,582	\$ 833,157	6.0%	\$308,168	\$ 1,041,364	4.9%	\$251,671	\$ 909,909
2021	5,303,065	4.1	217,426	844,571	6.0	318,184	1,055,631	4.9	259,850	922,375
2022	5,475,415	4.1	224,492	855,221	6.0	328,525	1,068,942	4.9	268,295	934,006
2023	5,653,366	4.1	231,788	864,999	6.0	339,202	1,081,163	4.9	277,015	944,684
2024	5,837,100	4.1	239,321	873,788	6.0	350,226	1,092,149	4.9	286,018	954,283
2025	6,026,806	4.1	247,099	881,462	6.0	361,608	1,101,741	4.9	295,313	962,664
2026	6,222,677	4.1	255,130	887,883	6.0	373,361	1,109,766	4.9	304,911	969,676
2027	6,424,914	4.1	263,421	892,901	6.0	385,495	1,116,038	4.9	314,821	975,156
2028	6,633,724	4.1	271,983	896,354	6.0	398,023	1,120,354	4.9	325,052	978,927
2029	6,849,320	4.1	280,822	898,066	6.0	410,959	1,122,493	4.9	335,617	980,796

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	\$ 5,136,141	6.5%	\$333,849	\$ 1,098,987	7.7%	\$395,483	\$ 1,249,722	8.0%	\$410,891	\$ 1,288,138
2021	5,303,065	6.5	344,699	1,114,043	7.7	408,336	1,266,843	8.0	424,245	1,305,785
2022	5,475,415	6.5	355,902	1,128,090	7.7	421,607	1,282,817	8.0	438,033	1,322,250
2023	5,653,366	6.5	367,469	1,140,987	7.7	435,309	1,297,483	8.0	452,269	1,337,367
2024	5,837,100	6.5	379,412	1,152,580	7.7	449,457	1,310,667	8.0	466,968	1,350,956
2025	6,026,806	6.5	391,742	1,162,702	7.7	464,064	1,322,178	8.0	482,144	1,362,821
2026	6,222,677	6.5	404,474	1,171,172	7.7	479,146	1,331,809	8.0	497,814	1,372,748
2027	6,424,914	6.5	417,619	1,177,791	7.7	494,718	1,339,336	8.0	513,993	1,380,506
2028	6,633,724	6.5	431,192	1,182,346	7.7	510,797	1,344,515	8.0	530,698	1,385,844
2029	6,849,320	6.5	445,206	1,184,604	7.7	527,398	1,347,082	8.0	547,946	1,388,490

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	\$ 5,136,141	9.5%	\$487,933	\$ 1,458,000	9.7%	\$498,206	\$ 1,477,201	11.3%	\$580,384	\$ 1,666,403
2021	5,303,065	9.5	503,791	1,477,974	9.7	514,397	1,497,438	11.3	599,246	1,689,232
2022	5,475,415	9.5	520,164	1,496,610	9.7	531,115	1,516,320	11.3	618,722	1,710,532
2023	5,653,366	9.5	537,070	1,513,721	9.7	548,377	1,533,656	11.3	638,830	1,730,088
2024	5,837,100	9.5	554,525	1,529,102	9.7	566,199	1,549,239	11.3	659,592	1,747,667
2025	6,026,806	9.5	572,547	1,542,531	9.7	584,600	1,562,845	11.3	681,029	1,763,016
2026	6,222,677	9.5	591,154	1,553,767	9.7	603,600	1,574,229	11.3	703,163	1,775,858
2027	6,424,914	9.5	610,367	1,562,548	9.7	623,217	1,583,126	11.3	726,015	1,785,895
2028	6,633,724	9.5	630,204	1,568,590	9.7	643,471	1,589,248	11.3	749,611	1,792,801
2029	6,849,320	9.5	650,685	1,571,585	9.7	664,384	1,592,283	11.3	773,973	1,796,224

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.



Johnson County - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	2.2%	\$112,995	\$ 833,157	4.1%	\$210,582	\$ 1,041,364	3.0%	\$154,084	\$ 909,909
2021	5,303,065	2.2	116,667	844,571	4.1	217,426	1,055,631	3.0	159,092	922,375
2022	5,475,415	2.2	120,459	855,221	4.1	224,492	1,068,942	3.0	164,262	934,006
2023	5,653,366	2.2	124,374	864,999	4.1	231,788	1,081,163	3.0	169,601	944,684
2024	5,837,100	2.2	128,416	873,788	4.1	239,321	1,092,149	3.0	175,113	954,283
2025	6,026,806	2.2	132,590	881,462	4.1	247,099	1,101,741	3.0	180,804	962,664
2026	6,222,677	2.2	136,899	887,883	4.1	255,130	1,109,766	3.0	186,680	969,676
2027	6,424,914	2.2	141,348	892,901	4.1	263,421	1,116,038	3.0	192,747	975,156
2028	6,633,724	2.2	145,942	896,354	4.1	271,983	1,120,354	3.0	199,012	978,927
2029	6,849,320	2.2	150,685	898,066	4.1	280,822	1,122,493	3.0	205,480	980,796

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	\$ 5,136,141	4.6%	\$236,262	\$ 1,098,987	5.8%	\$297,896	\$ 1,249,722	6.1%	\$313,305	\$ 1,288,138
2021	5,303,065	4.6	243,941	1,114,043	5.8	307,578	1,266,843	6.1	323,487	1,305,785
2022	5,475,415	4.6	251,869	1,128,090	5.8	317,574	1,282,817	6.1	334,000	1,322,250
2023	5,653,366	4.6	260,055	1,140,987	5.8	327,895	1,297,483	6.1	344,855	1,337,367
2024	5,837,100	4.6	268,507	1,152,580	5.8	338,552	1,310,667	6.1	356,063	1,350,956
2025	6,026,806	4.6	277,233	1,162,702	5.8	349,555	1,322,178	6.1	367,635	1,362,821
2026	6,222,677	4.6	286,243	1,171,172	5.8	360,915	1,331,809	6.1	379,583	1,372,748
2027	6,424,914	4.6	295,546	1,177,791	5.8	372,645	1,339,336	6.1	391,920	1,380,506
2028	6,633,724	4.6	305,151	1,182,346	5.8	384,756	1,344,515	6.1	404,657	1,385,844
2029	6,849,320	4.6	315,069	1,184,604	5.8	397,261	1,347,082	6.1	417,809	1,388,490

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	\$ 5,136,141	7.6%	\$390,347	\$ 1,458,000	7.8%	\$400,619	\$ 1,477,201	9.4%	\$482,797	\$ 1,666,403
2021	5,303,065	7.6	403,033	1,477,974	7.8	413,639	1,497,438	9.4	498,488	1,689,232
2022	5,475,415	7.6	416,132	1,496,610	7.8	427,082	1,516,320	9.4	514,689	1,710,532
2023	5,653,366	7.6	429,656	1,513,721	7.8	440,963	1,533,656	9.4	531,416	1,730,088
2024	5,837,100	7.6	443,620	1,529,102	7.8	455,294	1,549,239	9.4	548,687	1,747,667
2025	6,026,806	7.6	458,037	1,542,531	7.8	470,091	1,562,845	9.4	566,520	1,763,016
2026	6,222,677	7.6	472,923	1,553,767	7.8	485,369	1,574,229	9.4	584,932	1,775,858
2027	6,424,914	7.6	488,293	1,562,548	7.8	501,143	1,583,126	9.4	603,942	1,785,895
2028	6,633,724	7.6	504,163	1,568,590	7.8	517,430	1,589,248	9.4	623,570	1,792,801
2029	6,849,320	7.6	520,548	1,571,585	7.8	534,247	1,592,283	9.4	643,836	1,796,224

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	8.1%	\$416,027	\$ 811,662	9.9%	\$508,478	\$ 1,014,458	9.4%	\$482,797	\$ 985,013
2021	5,303,065	8.1	429,548	822,782	9.9	525,003	1,028,356	9.4	498,488	998,508
2022	5,475,415	8.1	443,509	833,157	9.9	542,066	1,041,323	9.4	514,689	1,011,099
2023	5,653,366	8.1	457,923	842,682	9.9	559,683	1,053,228	9.4	531,416	1,022,659
2024	5,837,100	8.1	472,805	851,244	9.9	577,873	1,063,930	9.4	548,687	1,033,050
2025	6,026,806	8.1	488,171	858,720	9.9	596,654	1,073,274	9.4	566,520	1,042,123
2026	6,222,677	8.1	504,037	864,975	9.9	616,045	1,081,092	9.4	584,932	1,049,714
2027	6,424,914	8.1	520,418	869,864	9.9	636,066	1,087,202	9.4	603,942	1,055,647
2028	6,633,724	8.1	537,332	873,228	9.9	656,739	1,091,406	9.4	623,570	1,059,729
2029	6,849,320	8.1	554,795	874,895	9.9	678,083	1,093,490	9.4	643,836	1,061,753

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	\$ 5,136,141	10.9%	\$559,839	\$ 1,144,546	11.7%	\$600,928	\$ 1,217,416	12.3%	\$631,745	\$ 1,304,197
2021	5,303,065	10.9	578,034	1,160,226	11.7	620,459	1,234,094	12.3	652,277	1,322,064
2022	5,475,415	10.9	596,820	1,174,856	11.7	640,624	1,249,655	12.3	673,476	1,338,734
2023	5,653,366	10.9	616,217	1,188,288	11.7	661,444	1,263,942	12.3	695,364	1,354,040
2024	5,837,100	10.9	636,244	1,200,362	11.7	682,941	1,276,785	12.3	717,963	1,367,798
2025	6,026,806	10.9	656,922	1,210,904	11.7	705,136	1,287,998	12.3	741,297	1,379,810
2026	6,222,677	10.9	678,272	1,219,725	11.7	728,053	1,297,380	12.3	765,389	1,389,861
2027	6,424,914	10.9	700,316	1,226,618	11.7	751,715	1,304,712	12.3	790,264	1,397,716
2028	6,633,724	10.9	723,076	1,231,361	11.7	776,146	1,309,757	12.3	815,948	1,403,121
2029	6,849,320	10.9	746,576	1,233,712	11.7	801,370	1,312,258	12.3	842,466	1,405,800

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	\$ 5,136,141	13.6%	\$698,515	\$ 1,420,338	13.8%	\$708,787	\$ 1,463,724	15.4%	\$790,966	\$ 1,623,163
2021	5,303,065	13.6	721,217	1,439,796	13.8	731,823	1,483,777	15.4	816,672	1,645,400
2022	5,475,415	13.6	744,656	1,457,951	13.8	755,607	1,502,486	15.4	843,214	1,666,147
2023	5,653,366	13.6	768,858	1,474,620	13.8	780,165	1,519,664	15.4	870,618	1,685,196
2024	5,837,100	13.6	793,846	1,489,603	13.8	805,520	1,535,105	15.4	898,913	1,702,319
2025	6,026,806	13.6	819,646	1,502,685	13.8	831,699	1,548,587	15.4	928,128	1,717,269
2026	6,222,677	13.6	846,284	1,513,631	13.8	858,729	1,559,867	15.4	958,292	1,729,778
2027	6,424,914	13.6	873,788	1,522,186	13.8	886,638	1,568,683	15.4	989,437	1,739,554
2028	6,633,724	13.6	902,186	1,528,072	13.8	915,454	1,574,749	15.4	1,021,593	1,746,281
2029	6,849,320	13.6	931,508	1,530,990	13.8	945,206	1,577,756	15.4	1,054,795	1,749,615

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	6.2%	\$318,441	\$ 811,662	8.0%	\$410,891	\$ 1,014,458	7.5%	\$385,211	\$ 985,013
2021	5,303,065	6.2	328,790	822,782	8.0	424,245	1,028,356	7.5	397,730	998,508
2022	5,475,415	6.2	339,476	833,157	8.0	438,033	1,041,323	7.5	410,656	1,011,099
2023	5,653,366	6.2	350,509	842,682	8.0	452,269	1,053,228	7.5	424,002	1,022,659
2024	5,837,100	6.2	361,900	851,244	8.0	466,968	1,063,930	7.5	437,783	1,033,050
2025	6,026,806	6.2	373,662	858,720	8.0	482,144	1,073,274	7.5	452,010	1,042,123
2026	6,222,677	6.2	385,806	864,975	8.0	497,814	1,081,092	7.5	466,701	1,049,714
2027	6,424,914	6.2	398,345	869,864	8.0	513,993	1,087,202	7.5	481,869	1,055,647
2028	6,633,724	6.2	411,291	873,228	8.0	530,698	1,091,406	7.5	497,529	1,059,729
2029	6,849,320	6.2	424,658	874,895	8.0	547,946	1,093,490	7.5	513,699	1,061,753

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	\$ 5,136,141	9.0%	\$462,253	\$ 1,144,546	9.8%	\$503,342	\$ 1,217,416	10.4%	\$534,159	\$ 1,304,197
2021	5,303,065	9.0	477,276	1,160,226	9.8	519,700	1,234,094	10.4	551,519	1,322,064
2022	5,475,415	9.0	492,787	1,174,856	9.8	536,591	1,249,655	10.4	569,443	1,338,734
2023	5,653,366	9.0	508,803	1,188,288	9.8	554,030	1,263,942	10.4	587,950	1,354,040
2024	5,837,100	9.0	525,339	1,200,362	9.8	572,036	1,276,785	10.4	607,058	1,367,798
2025	6,026,806	9.0	542,413	1,210,904	9.8	590,627	1,287,998	10.4	626,788	1,379,810
2026	6,222,677	9.0	560,041	1,219,725	9.8	609,822	1,297,380	10.4	647,158	1,389,861
2027	6,424,914	9.0	578,242	1,226,618	9.8	629,642	1,304,712	10.4	668,191	1,397,716
2028	6,633,724	9.0	597,035	1,231,361	9.8	650,105	1,309,757	10.4	689,907	1,403,121
2029	6,849,320	9.0	616,439	1,233,712	9.8	671,233	1,312,258	10.4	712,329	1,405,800

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	\$ 5,136,141	11.7%	\$600,928	\$ 1,420,338	11.9%	\$611,201	\$ 1,463,724	13.5%	\$693,379	\$ 1,623,163
2021	5,303,065	11.7	620,459	1,439,796	11.9	631,065	1,483,777	13.5	715,914	1,645,400
2022	5,475,415	11.7	640,624	1,457,951	11.9	651,574	1,502,486	13.5	739,181	1,666,147
2023	5,653,366	11.7	661,444	1,474,620	11.9	672,751	1,519,664	13.5	763,204	1,685,196
2024	5,837,100	11.7	682,941	1,489,603	11.9	694,615	1,535,105	13.5	788,009	1,702,319
2025	6,026,806	11.7	705,136	1,502,685	11.9	717,190	1,548,587	13.5	813,619	1,717,269
2026	6,222,677	11.7	728,053	1,513,631	11.9	740,499	1,559,867	13.5	840,061	1,729,778
2027	6,424,914	11.7	751,715	1,522,186	11.9	764,565	1,568,683	13.5	867,363	1,739,554
2028	6,633,724	11.7	776,146	1,528,072	11.9	789,413	1,574,749	13.5	895,553	1,746,281
2029	6,849,320	11.7	801,370	1,530,990	11.9	815,069	1,577,756	13.5	924,658	1,749,615

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	4.3%	\$220,854	\$ 811,662	6.1%	\$313,305	\$ 1,014,458	5.6%	\$287,624	\$ 985,013
2021	5,303,065	4.3	228,032	822,782	6.1	323,487	1,028,356	5.6	296,972	998,508
2022	5,475,415	4.3	235,443	833,157	6.1	334,000	1,041,323	5.6	306,623	1,011,099
2023	5,653,366	4.3	243,095	842,682	6.1	344,855	1,053,228	5.6	316,588	1,022,659
2024	5,837,100	4.3	250,995	851,244	6.1	356,063	1,063,930	5.6	326,878	1,033,050
2025	6,026,806	4.3	259,153	858,720	6.1	367,635	1,073,274	5.6	337,501	1,042,123
2026	6,222,677	4.3	267,575	864,975	6.1	379,583	1,081,092	5.6	348,470	1,049,714
2027	6,424,914	4.3	276,271	869,864	6.1	391,920	1,087,202	5.6	359,795	1,055,647
2028	6,633,724	4.3	285,250	873,228	6.1	404,657	1,091,406	5.6	371,489	1,059,729
2029	6,849,320	4.3	294,521	874,895	6.1	417,809	1,093,490	5.6	383,562	1,061,753

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	\$ 5,136,141	7.1%	\$364,666	\$ 1,144,546	7.9%	\$405,755	\$ 1,217,416	8.5%	\$436,572	\$ 1,304,197
2021	5,303,065	7.1	376,518	1,160,226	7.9	418,942	1,234,094	8.5	450,761	1,322,064
2022	5,475,415	7.1	388,754	1,174,856	7.9	432,558	1,249,655	8.5	465,410	1,338,734
2023	5,653,366	7.1	401,389	1,188,288	7.9	446,616	1,263,942	8.5	480,536	1,354,040
2024	5,837,100	7.1	414,434	1,200,362	7.9	461,131	1,276,785	8.5	496,154	1,367,798
2025	6,026,806	7.1	427,903	1,210,904	7.9	476,118	1,287,998	8.5	512,279	1,379,810
2026	6,222,677	7.1	441,810	1,219,725	7.9	491,591	1,297,380	8.5	528,928	1,389,861
2027	6,424,914	7.1	456,169	1,226,618	7.9	507,568	1,304,712	8.5	546,118	1,397,716
2028	6,633,724	7.1	470,994	1,231,361	7.9	524,064	1,309,757	8.5	563,867	1,403,121
2029	6,849,320	7.1	486,302	1,233,712	7.9	541,096	1,312,258	8.5	582,192	1,405,800

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	\$ 5,136,141	9.8%	\$503,342	\$ 1,420,338	10.0%	\$513,614	\$ 1,463,724	11.6%	\$595,792	\$ 1,623,163
2021	5,303,065	9.8	519,700	1,439,796	10.0	530,307	1,483,777	11.6	615,156	1,645,400
2022	5,475,415	9.8	536,591	1,457,951	10.0	547,542	1,502,486	11.6	635,148	1,666,147
2023	5,653,366	9.8	554,030	1,474,620	10.0	565,337	1,519,664	11.6	655,790	1,685,196
2024	5,837,100	9.8	572,036	1,489,603	10.0	583,710	1,535,105	11.6	677,104	1,702,319
2025	6,026,806	9.8	590,627	1,502,685	10.0	602,681	1,548,587	11.6	699,109	1,717,269
2026	6,222,677	9.8	609,822	1,513,631	10.0	622,268	1,559,867	11.6	721,831	1,729,778
2027	6,424,914	9.8	629,642	1,522,186	10.0	642,491	1,568,683	11.6	745,290	1,739,554
2028	6,633,724	9.8	650,105	1,528,072	10.0	663,372	1,574,749	11.6	769,512	1,746,281
2029	6,849,320	9.8	671,233	1,530,990	10.0	684,932	1,577,756	11.6	794,521	1,749,615

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	2.4%	\$123,267	\$ 811,662	4.2%	\$215,718	\$ 1,014,458	3.7%	\$190,037	\$ 985,013
2021	5,303,065	2.4	127,274	822,782	4.2	222,729	1,028,356	3.7	196,213	998,508
2022	5,475,415	2.4	131,410	833,157	4.2	229,967	1,041,323	3.7	202,590	1,011,099
2023	5,653,366	2.4	135,681	842,682	4.2	237,441	1,053,228	3.7	209,175	1,022,659
2024	5,837,100	2.4	140,090	851,244	4.2	245,158	1,063,930	3.7	215,973	1,033,050
2025	6,026,806	2.4	144,643	858,720	4.2	253,126	1,073,274	3.7	222,992	1,042,123
2026	6,222,677	2.4	149,344	864,975	4.2	261,352	1,081,092	3.7	230,239	1,049,714
2027	6,424,914	2.4	154,198	869,864	4.2	269,846	1,087,202	3.7	237,722	1,055,647
2028	6,633,724	2.4	159,209	873,228	4.2	278,616	1,091,406	3.7	245,448	1,059,729
2029	6,849,320	2.4	164,384	874,895	4.2	287,671	1,093,490	3.7	253,425	1,061,753

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	\$ 5,136,141	5.2%	\$267,079	\$ 1,144,546	6.0%	\$308,168	\$ 1,217,416	6.6%	\$338,985	\$ 1,304,197
2021	5,303,065	5.2	275,759	1,160,226	6.0	318,184	1,234,094	6.6	350,002	1,322,064
2022	5,475,415	5.2	284,722	1,174,856	6.0	328,525	1,249,655	6.6	361,377	1,338,734
2023	5,653,366	5.2	293,975	1,188,288	6.0	339,202	1,263,942	6.6	373,122	1,354,040
2024	5,837,100	5.2	303,529	1,200,362	6.0	350,226	1,276,785	6.6	385,249	1,367,798
2025	6,026,806	5.2	313,394	1,210,904	6.0	361,608	1,287,998	6.6	397,769	1,379,810
2026	6,222,677	5.2	323,579	1,219,725	6.0	373,361	1,297,380	6.6	410,697	1,389,861
2027	6,424,914	5.2	334,096	1,226,618	6.0	385,495	1,304,712	6.6	424,044	1,397,716
2028	6,633,724	5.2	344,954	1,231,361	6.0	398,023	1,309,757	6.6	437,826	1,403,121
2029	6,849,320	5.2	356,165	1,233,712	6.0	410,959	1,312,258	6.6	452,055	1,405,800

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	\$ 5,136,141	7.9%	\$405,755	\$ 1,420,338	8.1%	\$416,027	\$ 1,463,724	9.7%	\$498,206	\$ 1,623,163
2021	5,303,065	7.9	418,942	1,439,796	8.1	429,548	1,483,777	9.7	514,397	1,645,400
2022	5,475,415	7.9	432,558	1,457,951	8.1	443,509	1,502,486	9.7	531,115	1,666,147
2023	5,653,366	7.9	446,616	1,474,620	8.1	457,923	1,519,664	9.7	548,377	1,685,196
2024	5,837,100	7.9	461,131	1,489,603	8.1	472,805	1,535,105	9.7	566,199	1,702,319
2025	6,026,806	7.9	476,118	1,502,685	8.1	488,171	1,548,587	9.7	584,600	1,717,269
2026	6,222,677	7.9	491,591	1,513,631	8.1	504,037	1,559,867	9.7	603,600	1,729,778
2027	6,424,914	7.9	507,568	1,522,186	8.1	520,418	1,568,683	9.7	623,217	1,739,554
2028	6,633,724	7.9	524,064	1,528,072	8.1	537,332	1,574,749	9.7	643,471	1,746,281
2029	6,849,320	7.9	541,096	1,530,990	8.1	554,795	1,577,756	9.7	664,384	1,749,615

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	8.3%	\$426,300	\$ 838,734	10.3%	\$529,022	\$ 1,048,239	9.6%	\$493,070	\$ 1,018,499
2021	5,303,065	8.3	440,154	850,225	10.3	546,216	1,062,600	9.6	509,094	1,032,452
2022	5,475,415	8.3	454,459	860,946	10.3	563,968	1,075,999	9.6	525,640	1,045,471
2023	5,653,366	8.3	469,229	870,789	10.3	582,297	1,088,301	9.6	542,723	1,057,424
2024	5,837,100	8.3	484,479	879,637	10.3	601,221	1,099,359	9.6	560,362	1,068,168
2025	6,026,806	8.3	500,225	887,362	10.3	620,761	1,109,014	9.6	578,573	1,077,549
2026	6,222,677	8.3	516,482	893,826	10.3	640,936	1,117,092	9.6	597,377	1,085,398
2027	6,424,914	8.3	533,268	898,878	10.3	661,766	1,123,405	9.6	616,792	1,091,532
2028	6,633,724	8.3	550,599	902,354	10.3	683,274	1,127,749	9.6	636,838	1,095,753
2029	6,849,320	8.3	568,494	904,077	10.3	705,480	1,129,902	9.6	657,535	1,097,845

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	\$ 5,136,141	11.2%	\$575,248	\$ 1,182,983	12.1%	\$621,473	\$ 1,258,025	12.7%	\$652,290	\$ 1,347,855
2021	5,303,065	11.2	593,943	1,199,190	12.1	641,671	1,275,260	12.7	673,489	1,366,320
2022	5,475,415	11.2	613,246	1,214,311	12.1	662,525	1,291,340	12.7	695,378	1,383,548
2023	5,653,366	11.2	633,177	1,228,194	12.1	684,057	1,306,104	12.7	717,977	1,399,366
2024	5,837,100	11.2	653,755	1,240,674	12.1	706,289	1,319,375	12.7	741,312	1,413,585
2025	6,026,806	11.2	675,002	1,251,570	12.1	729,244	1,330,962	12.7	765,404	1,426,000
2026	6,222,677	11.2	696,940	1,260,687	12.1	752,944	1,340,657	12.7	790,280	1,436,387
2027	6,424,914	11.2	719,590	1,267,812	12.1	777,415	1,348,234	12.7	815,964	1,444,505
2028	6,633,724	11.2	742,977	1,272,715	12.1	802,681	1,353,448	12.7	842,483	1,450,091
2029	6,849,320	11.2	767,124	1,275,145	12.1	828,768	1,356,032	12.7	869,864	1,452,860

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	\$ 5,136,141	14.0%	\$719,060	\$ 1,467,703	14.3%	\$734,468	\$ 1,512,586	15.9%	\$816,646	\$ 1,677,308
2021	5,303,065	14.0	742,429	1,487,810	14.3	758,338	1,533,308	15.9	843,187	1,700,287
2022	5,475,415	14.0	766,558	1,506,570	14.3	782,984	1,552,642	15.9	870,591	1,721,727
2023	5,653,366	14.0	791,471	1,523,795	14.3	808,431	1,570,393	15.9	898,885	1,741,411
2024	5,837,100	14.0	817,194	1,539,278	14.3	834,705	1,586,350	15.9	928,099	1,759,105
2025	6,026,806	14.0	843,753	1,552,796	14.3	861,833	1,600,282	15.9	958,262	1,774,554
2026	6,222,677	14.0	871,175	1,564,107	14.3	889,843	1,611,939	15.9	989,406	1,787,480
2027	6,424,914	14.0	899,488	1,572,947	14.3	918,763	1,621,049	15.9	1,021,561	1,797,582
2028	6,633,724	14.0	928,721	1,579,030	14.3	948,623	1,627,318	15.9	1,054,762	1,804,533
2029	6,849,320	14.0	958,905	1,582,045	14.3	979,453	1,630,425	15.9	1,089,042	1,807,979

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability	As a % of Payroll	Annual Dollars	Accrued Liability
2020	\$ 5,136,141	6.4%	\$328,713	\$ 838,734	8.4%	\$431,436	\$ 1,048,239	7.7%	\$395,483	\$ 1,018,499
2021	5,303,065	6.4	339,396	850,225	8.4	445,457	1,062,600	7.7	408,336	1,032,452
2022	5,475,415	6.4	350,427	860,946	8.4	459,935	1,075,999	7.7	421,607	1,045,471
2023	5,653,366	6.4	361,815	870,789	8.4	474,883	1,088,301	7.7	435,309	1,057,424
2024	5,837,100	6.4	373,574	879,637	8.4	490,316	1,099,359	7.7	449,457	1,068,168
2025	6,026,806	6.4	385,716	887,362	8.4	506,252	1,109,014	7.7	464,064	1,077,549
2026	6,222,677	6.4	398,251	893,826	8.4	522,705	1,117,092	7.7	479,146	1,085,398
2027	6,424,914	6.4	411,194	898,878	8.4	539,693	1,123,405	7.7	494,718	1,091,532
2028	6,633,724	6.4	424,558	902,354	8.4	557,233	1,127,749	7.7	510,797	1,095,753
2029	6,849,320	6.4	438,356	904,077	8.4	575,343	1,129,902	7.7	527,398	1,097,845

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	\$ 5,136,141	9.3%	\$477,661	\$ 1,182,983	10.2%	\$523,886	\$ 1,258,025	10.8%	\$554,703	\$ 1,347,855
2021	5,303,065	9.3	493,185	1,199,190	10.2	540,913	1,275,260	10.8	572,731	1,366,320
2022	5,475,415	9.3	509,214	1,214,311	10.2	558,492	1,291,340	10.8	591,345	1,383,548
2023	5,653,366	9.3	525,763	1,228,194	10.2	576,643	1,306,104	10.8	610,564	1,399,366
2024	5,837,100	9.3	542,850	1,240,674	10.2	595,384	1,319,375	10.8	630,407	1,413,585
2025	6,026,806	9.3	560,493	1,251,570	10.2	614,734	1,330,962	10.8	650,895	1,426,000
2026	6,222,677	9.3	578,709	1,260,687	10.2	634,713	1,340,657	10.8	672,049	1,436,387
2027	6,424,914	9.3	597,517	1,267,812	10.2	655,341	1,348,234	10.8	693,891	1,444,505
2028	6,633,724	9.3	616,936	1,272,715	10.2	676,640	1,353,448	10.8	716,442	1,450,091
2029	6,849,320	9.3	636,987	1,275,145	10.2	698,631	1,356,032	10.8	739,727	1,452,860

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	\$ 5,136,141	12.1%	\$621,473	\$ 1,467,703	12.4%	\$636,881	\$ 1,512,586	14.0%	\$719,060	\$ 1,677,308
2021	5,303,065	12.1	641,671	1,487,810	12.4	657,580	1,533,308	14.0	742,429	1,700,287
2022	5,475,415	12.1	662,525	1,506,570	12.4	678,951	1,552,642	14.0	766,558	1,721,727
2023	5,653,366	12.1	684,057	1,523,795	12.4	701,017	1,570,393	14.0	791,471	1,741,411
2024	5,837,100	12.1	706,289	1,539,278	12.4	723,800	1,586,350	14.0	817,194	1,759,105
2025	6,026,806	12.1	729,244	1,552,796	12.4	747,324	1,600,282	14.0	843,753	1,774,554
2026	6,222,677	12.1	752,944	1,564,107	12.4	771,612	1,611,939	14.0	871,175	1,787,480
2027	6,424,914	12.1	777,415	1,572,947	12.4	796,689	1,621,049	14.0	899,488	1,797,582
2028	6,633,724	12.1	802,681	1,579,030	12.4	822,582	1,627,318	14.0	928,721	1,804,533
2029	6,849,320	12.1	828,768	1,582,045	12.4	849,316	1,630,425	14.0	958,905	1,807,979

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	4.5%	\$231,126	\$ 838,734	6.5%	\$333,849	\$ 1,048,239	5.8%	\$297,896	\$ 1,018,499
2021	5,303,065	4.5	238,638	850,225	6.5	344,699	1,062,600	5.8	307,578	1,032,452
2022	5,475,415	4.5	246,394	860,946	6.5	355,902	1,075,999	5.8	317,574	1,045,471
2023	5,653,366	4.5	254,401	870,789	6.5	367,469	1,088,301	5.8	327,895	1,057,424
2024	5,837,100	4.5	262,670	879,637	6.5	379,412	1,099,359	5.8	338,552	1,068,168
2025	6,026,806	4.5	271,206	887,362	6.5	391,742	1,109,014	5.8	349,555	1,077,549
2026	6,222,677	4.5	280,020	893,826	6.5	404,474	1,117,092	5.8	360,915	1,085,398
2027	6,424,914	4.5	289,121	898,878	6.5	417,619	1,123,405	5.8	372,645	1,091,532
2028	6,633,724	4.5	298,518	902,354	6.5	431,192	1,127,749	5.8	384,756	1,095,753
2029	6,849,320	4.5	308,219	904,077	6.5	445,206	1,129,902	5.8	397,261	1,097,845

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	\$ 5,136,141	7.4%	\$380,074	\$ 1,182,983	8.3%	\$426,300	\$ 1,258,025	8.9%	\$457,117	\$ 1,347,855
2021	5,303,065	7.4	392,427	1,199,190	8.3	440,154	1,275,260	8.9	471,973	1,366,320
2022	5,475,415	7.4	405,181	1,214,311	8.3	454,459	1,291,340	8.9	487,312	1,383,548
2023	5,653,366	7.4	418,349	1,228,194	8.3	469,229	1,306,104	8.9	503,150	1,399,366
2024	5,837,100	7.4	431,945	1,240,674	8.3	484,479	1,319,375	8.9	519,502	1,413,585
2025	6,026,806	7.4	445,984	1,251,570	8.3	500,225	1,330,962	8.9	536,386	1,426,000
2026	6,222,677	7.4	460,478	1,260,687	8.3	516,482	1,340,657	8.9	553,818	1,436,387
2027	6,424,914	7.4	475,444	1,267,812	8.3	533,268	1,348,234	8.9	571,817	1,444,505
2028	6,633,724	7.4	490,896	1,272,715	8.3	550,599	1,353,448	8.9	590,401	1,450,091
2029	6,849,320	7.4	506,850	1,275,145	8.3	568,494	1,356,032	8.9	609,589	1,452,860

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	\$ 5,136,141	10.2%	\$523,886	\$ 1,467,703	10.5%	\$539,295	\$ 1,512,586	12.1%	\$621,473	\$ 1,677,308
2021	5,303,065	10.2	540,913	1,487,810	10.5	556,822	1,533,308	12.1	641,671	1,700,287
2022	5,475,415	10.2	558,492	1,506,570	10.5	574,919	1,552,642	12.1	662,525	1,721,727
2023	5,653,366	10.2	576,643	1,523,795	10.5	593,603	1,570,393	12.1	684,057	1,741,411
2024	5,837,100	10.2	595,384	1,539,278	10.5	612,896	1,586,350	12.1	706,289	1,759,105
2025	6,026,806	10.2	614,734	1,552,796	10.5	632,815	1,600,282	12.1	729,244	1,774,554
2026	6,222,677	10.2	634,713	1,564,107	10.5	653,381	1,611,939	12.1	752,944	1,787,480
2027	6,424,914	10.2	655,341	1,572,947	10.5	674,616	1,621,049	12.1	777,415	1,797,582
2028	6,633,724	10.2	676,640	1,579,030	10.5	696,541	1,627,318	12.1	802,681	1,804,533
2029	6,849,320	10.2	698,631	1,582,045	10.5	719,179	1,630,425	12.1	828,768	1,807,979

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.



Johnson County - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 5,136,141	2.6%	\$133,540	\$ 838,734	4.6%	\$236,262	\$ 1,048,239	3.9%	\$200,309	\$ 1,018,499
2021	5,303,065	2.6	137,880	850,225	4.6	243,941	1,062,600	3.9	206,820	1,032,452
2022	5,475,415	2.6	142,361	860,946	4.6	251,869	1,075,999	3.9	213,541	1,045,471
2023	5,653,366	2.6	146,988	870,789	4.6	260,055	1,088,301	3.9	220,481	1,057,424
2024	5,837,100	2.6	151,765	879,637	4.6	268,507	1,099,359	3.9	227,647	1,068,168
2025	6,026,806	2.6	156,697	887,362	4.6	277,233	1,109,014	3.9	235,045	1,077,549
2026	6,222,677	2.6	161,790	893,826	4.6	286,243	1,117,092	3.9	242,684	1,085,398
2027	6,424,914	2.6	167,048	898,878	4.6	295,546	1,123,405	3.9	250,572	1,091,532
2028	6,633,724	2.6	172,477	902,354	4.6	305,151	1,127,749	3.9	258,715	1,095,753
2029	6,849,320	2.6	178,082	904,077	4.6	315,069	1,129,902	3.9	267,123	1,097,845

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	\$ 5,136,141	5.5%	\$282,488	\$ 1,182,983	6.4%	\$328,713	\$ 1,258,025	7.0%	\$359,530	\$ 1,347,855
2021	5,303,065	5.5	291,669	1,199,190	6.4	339,396	1,275,260	7.0	371,215	1,366,320
2022	5,475,415	5.5	301,148	1,214,311	6.4	350,427	1,291,340	7.0	383,279	1,383,548
2023	5,653,366	5.5	310,935	1,228,194	6.4	361,815	1,306,104	7.0	395,736	1,399,366
2024	5,837,100	5.5	321,041	1,240,674	6.4	373,574	1,319,375	7.0	408,597	1,413,585
2025	6,026,806	5.5	331,474	1,251,570	6.4	385,716	1,330,962	7.0	421,876	1,426,000
2026	6,222,677	5.5	342,247	1,260,687	6.4	398,251	1,340,657	7.0	435,587	1,436,387
2027	6,424,914	5.5	353,370	1,267,812	6.4	411,194	1,348,234	7.0	449,744	1,444,505
2028	6,633,724	5.5	364,855	1,272,715	6.4	424,558	1,353,448	7.0	464,361	1,450,091
2029	6,849,320	5.5	376,713	1,275,145	6.4	438,356	1,356,032	7.0	479,452	1,452,860

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	\$ 5,136,141	8.3%	\$426,300	\$ 1,467,703	8.6%	\$441,708	\$ 1,512,586	10.2%	\$523,886	\$ 1,677,308
2021	5,303,065	8.3	440,154	1,487,810	8.6	456,064	1,533,308	10.2	540,913	1,700,287
2022	5,475,415	8.3	454,459	1,506,570	8.6	470,886	1,552,642	10.2	558,492	1,721,727
2023	5,653,366	8.3	469,229	1,523,795	8.6	486,189	1,570,393	10.2	576,643	1,741,411
2024	5,837,100	8.3	484,479	1,539,278	8.6	501,991	1,586,350	10.2	595,384	1,759,105
2025	6,026,806	8.3	500,225	1,552,796	8.6	518,305	1,600,282	10.2	614,734	1,774,554
2026	6,222,677	8.3	516,482	1,564,107	8.6	535,150	1,611,939	10.2	634,713	1,787,480
2027	6,424,914	8.3	533,268	1,572,947	8.6	552,543	1,621,049	10.2	655,341	1,797,582
2028	6,633,724	8.3	550,599	1,579,030	8.6	570,500	1,627,318	10.2	676,640	1,804,533
2029	6,849,320	8.3	568,494	1,582,045	8.6	589,042	1,630,425	10.2	698,631	1,807,979

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	8.5%	\$133,404	\$ 260,785	10.4%	\$163,224	\$ 325,905	10.1%	\$158,515	\$ 324,632
2021	1,620,465	8.5	137,740	264,358	10.4	168,528	330,370	10.1	163,667	329,079
2022	1,673,130	8.5	142,216	267,691	10.4	174,006	334,536	10.1	168,986	333,228
2023	1,727,507	8.5	146,838	270,751	10.4	179,661	338,361	10.1	174,478	337,038
2024	1,783,651	8.5	151,610	273,502	10.4	185,500	341,799	10.1	180,149	340,463
2025	1,841,620	8.5	156,538	275,904	10.4	191,528	344,801	10.1	186,004	343,453
2026	1,901,473	8.5	161,625	277,914	10.4	197,753	347,313	10.1	192,049	345,955
2027	1,963,271	8.5	166,878	279,485	10.4	204,180	349,276	10.1	198,290	347,910
2028	2,027,077	8.5	172,302	280,566	10.4	210,816	350,627	10.1	204,735	349,255
2029	2,092,957	8.5	177,901	281,102	10.4	217,668	351,297	10.1	211,389	349,922

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	\$ 1,569,458	11.6%	\$182,057	\$ 373,804	12.3%	\$193,043	\$ 391,122	13.1%	\$205,599	\$ 422,976
2021	1,620,465	11.6	187,974	378,925	12.3	199,317	396,480	13.1	212,281	428,771
2022	1,673,130	11.6	194,083	383,703	12.3	205,795	401,479	13.1	219,180	434,178
2023	1,727,507	11.6	200,391	388,090	12.3	212,483	406,069	13.1	226,303	439,142
2024	1,783,651	11.6	206,904	392,033	12.3	219,389	410,195	13.1	233,658	443,604
2025	1,841,620	11.6	213,628	395,476	12.3	226,519	413,797	13.1	241,252	447,500
2026	1,901,473	11.6	220,571	398,357	12.3	233,881	416,811	13.1	249,093	450,760
2027	1,963,271	11.6	227,739	400,608	12.3	241,482	419,167	13.1	257,189	453,308
2028	2,027,077	11.6	235,141	402,157	12.3	249,330	420,788	13.1	265,547	455,061
2029	2,092,957	11.6	242,783	402,925	12.3	257,434	421,591	13.1	274,177	455,930

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	\$ 1,569,458	14.3%	\$224,432	\$ 456,291	14.6%	\$229,141	\$ 472,241	16.2%	\$254,252	\$ 521,471
2021	1,620,465	14.3	231,726	462,542	14.6	236,588	478,711	16.2	262,515	528,615
2022	1,673,130	14.3	239,258	468,374	14.6	244,277	484,747	16.2	271,047	535,281
2023	1,727,507	14.3	247,034	473,729	14.6	252,216	490,289	16.2	279,856	541,401
2024	1,783,651	14.3	255,062	478,543	14.6	260,413	495,271	16.2	288,951	546,902
2025	1,841,620	14.3	263,352	482,746	14.6	268,877	499,621	16.2	298,342	551,705
2026	1,901,473	14.3	271,911	486,262	14.6	277,615	503,260	16.2	308,039	555,724
2027	1,963,271	14.3	280,748	489,010	14.6	286,638	506,104	16.2	318,050	558,865
2028	2,027,077	14.3	289,872	490,901	14.6	295,953	508,061	16.2	328,386	561,026
2029	2,092,957	14.3	299,293	491,838	14.6	305,572	509,031	16.2	339,059	562,097

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	6.6%	\$103,584	\$ 260,785	8.5%	\$133,404	\$ 325,905	8.2%	\$128,696	\$ 324,632
2021	1,620,465	6.6	106,951	264,358	8.5	137,740	330,370	8.2	132,878	329,079
2022	1,673,130	6.6	110,427	267,691	8.5	142,216	334,536	8.2	137,197	333,228
2023	1,727,507	6.6	114,015	270,751	8.5	146,838	338,361	8.2	141,656	337,038
2024	1,783,651	6.6	117,721	273,502	8.5	151,610	341,799	8.2	146,259	340,463
2025	1,841,620	6.6	121,547	275,904	8.5	156,538	344,801	8.2	151,013	343,453
2026	1,901,473	6.6	125,497	277,914	8.5	161,625	347,313	8.2	155,921	345,955
2027	1,963,271	6.6	129,576	279,485	8.5	166,878	349,276	8.2	160,988	347,910
2028	2,027,077	6.6	133,787	280,566	8.5	172,302	350,627	8.2	166,220	349,255
2029	2,092,957	6.6	138,135	281,102	8.5	177,901	351,297	8.2	171,622	349,922

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	\$ 1,569,458	9.7%	\$152,237	\$ 373,804	10.4%	\$163,224	\$ 391,122	11.2%	\$175,779	\$ 422,976
2021	1,620,465	9.7	157,185	378,925	10.4	168,528	396,480	11.2	181,492	428,771
2022	1,673,130	9.7	162,294	383,703	10.4	174,006	401,479	11.2	187,391	434,178
2023	1,727,507	9.7	167,568	388,090	10.4	179,661	406,069	11.2	193,481	439,142
2024	1,783,651	9.7	173,014	392,033	10.4	185,500	410,195	11.2	199,769	443,604
2025	1,841,620	9.7	178,637	395,476	10.4	191,528	413,797	11.2	206,261	447,500
2026	1,901,473	9.7	184,443	398,357	10.4	197,753	416,811	11.2	212,965	450,760
2027	1,963,271	9.7	190,437	400,608	10.4	204,180	419,167	11.2	219,886	453,308
2028	2,027,077	9.7	196,626	402,157	10.4	210,816	420,788	11.2	227,033	455,061
2029	2,092,957	9.7	203,017	402,925	10.4	217,668	421,591	11.2	234,411	455,930

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	\$ 1,569,458	12.4%	\$194,613	\$ 456,291	12.7%	\$199,321	\$ 472,241	14.3%	\$224,432	\$ 521,471
2021	1,620,465	12.4	200,938	462,542	12.7	205,799	478,711	14.3	231,726	528,615
2022	1,673,130	12.4	207,468	468,374	12.7	212,488	484,747	14.3	239,258	535,281
2023	1,727,507	12.4	214,211	473,729	12.7	219,393	490,289	14.3	247,034	541,401
2024	1,783,651	12.4	221,173	478,543	12.7	226,524	495,271	14.3	255,062	546,902
2025	1,841,620	12.4	228,361	482,746	12.7	233,886	499,621	14.3	263,352	551,705
2026	1,901,473	12.4	235,783	486,262	12.7	241,487	503,260	14.3	271,911	555,724
2027	1,963,271	12.4	243,446	489,010	12.7	249,335	506,104	14.3	280,748	558,865
2028	2,027,077	12.4	251,358	490,901	12.7	257,439	508,061	14.3	289,872	561,026
2029	2,092,957	12.4	259,527	491,838	12.7	265,806	509,031	14.3	299,293	562,097

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	4.7%	\$73,765	\$ 260,785	6.6%	\$103,584	\$ 325,905	6.3%	\$98,876	\$ 324,632
2021	1,620,465	4.7	76,162	264,358	6.6	106,951	330,370	6.3	102,089	329,079
2022	1,673,130	4.7	78,637	267,691	6.6	110,427	334,536	6.3	105,407	333,228
2023	1,727,507	4.7	81,193	270,751	6.6	114,015	338,361	6.3	108,833	337,038
2024	1,783,651	4.7	83,832	273,502	6.6	117,721	341,799	6.3	112,370	340,463
2025	1,841,620	4.7	86,556	275,904	6.6	121,547	344,801	6.3	116,022	343,453
2026	1,901,473	4.7	89,369	277,914	6.6	125,497	347,313	6.3	119,793	345,955
2027	1,963,271	4.7	92,274	279,485	6.6	129,576	349,276	6.3	123,686	347,910
2028	2,027,077	4.7	95,273	280,566	6.6	133,787	350,627	6.3	127,706	349,255
2029	2,092,957	4.7	98,369	281,102	6.6	138,135	351,297	6.3	131,856	349,922

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	\$ 1,569,458	7.8%	\$122,418	\$ 373,804	8.5%	\$133,404	\$ 391,122	9.3%	\$145,960	\$ 422,976
2021	1,620,465	7.8	126,396	378,925	8.5	137,740	396,480	9.3	150,703	428,771
2022	1,673,130	7.8	130,504	383,703	8.5	142,216	401,479	9.3	155,601	434,178
2023	1,727,507	7.8	134,746	388,090	8.5	146,838	406,069	9.3	160,658	439,142
2024	1,783,651	7.8	139,125	392,033	8.5	151,610	410,195	9.3	165,880	443,604
2025	1,841,620	7.8	143,646	395,476	8.5	156,538	413,797	9.3	171,271	447,500
2026	1,901,473	7.8	148,315	398,357	8.5	161,625	416,811	9.3	176,837	450,760
2027	1,963,271	7.8	153,135	400,608	8.5	166,878	419,167	9.3	182,584	453,308
2028	2,027,077	7.8	158,112	402,157	8.5	172,302	420,788	9.3	188,518	455,061
2029	2,092,957	7.8	163,251	402,925	8.5	177,901	421,591	9.3	194,645	455,930

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	\$ 1,569,458	10.5%	\$164,793	\$ 456,291	10.8%	\$169,501	\$ 472,241	12.4%	\$194,613	\$ 521,471
2021	1,620,465	10.5	170,149	462,542	10.8	175,010	478,711	12.4	200,938	528,615
2022	1,673,130	10.5	175,679	468,374	10.8	180,698	484,747	12.4	207,468	535,281
2023	1,727,507	10.5	181,388	473,729	10.8	186,571	490,289	12.4	214,211	541,401
2024	1,783,651	10.5	187,283	478,543	10.8	192,634	495,271	12.4	221,173	546,902
2025	1,841,620	10.5	193,370	482,746	10.8	198,895	499,621	12.4	228,361	551,705
2026	1,901,473	10.5	199,655	486,262	10.8	205,359	503,260	12.4	235,783	555,724
2027	1,963,271	10.5	206,143	489,010	10.8	212,033	506,104	12.4	243,446	558,865
2028	2,027,077	10.5	212,843	490,901	10.8	218,924	508,061	12.4	251,358	561,026
2029	2,092,957	10.5	219,760	491,838	10.8	226,039	509,031	12.4	259,527	562,097

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	2.8%	\$43,945	\$ 260,785	4.7%	\$73,765	\$ 325,905	4.4%	\$69,056	\$ 324,632
2021	1,620,465	2.8	45,373	264,358	4.7	76,162	330,370	4.4	71,300	329,079
2022	1,673,130	2.8	46,848	267,691	4.7	78,637	334,536	4.4	73,618	333,228
2023	1,727,507	2.8	48,370	270,751	4.7	81,193	338,361	4.4	76,010	337,038
2024	1,783,651	2.8	49,942	273,502	4.7	83,832	341,799	4.4	78,481	340,463
2025	1,841,620	2.8	51,565	275,904	4.7	86,556	344,801	4.4	81,031	343,453
2026	1,901,473	2.8	53,241	277,914	4.7	89,369	347,313	4.4	83,665	345,955
2027	1,963,271	2.8	54,972	279,485	4.7	92,274	349,276	4.4	86,384	347,910
2028	2,027,077	2.8	56,758	280,566	4.7	95,273	350,627	4.4	89,191	349,255
2029	2,092,957	2.8	58,603	281,102	4.7	98,369	351,297	4.4	92,090	349,922

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	\$ 1,569,458	5.9%	\$92,598	\$ 373,804	6.6%	\$103,584	\$ 391,122	7.4%	\$116,140	\$ 422,976
2021	1,620,465	5.9	95,607	378,925	6.6	106,951	396,480	7.4	119,914	428,771
2022	1,673,130	5.9	98,715	383,703	6.6	110,427	401,479	7.4	123,812	434,178
2023	1,727,507	5.9	101,923	388,090	6.6	114,015	406,069	7.4	127,836	439,142
2024	1,783,651	5.9	105,235	392,033	6.6	117,721	410,195	7.4	131,990	443,604
2025	1,841,620	5.9	108,656	395,476	6.6	121,547	413,797	7.4	136,280	447,500
2026	1,901,473	5.9	112,187	398,357	6.6	125,497	416,811	7.4	140,709	450,760
2027	1,963,271	5.9	115,833	400,608	6.6	129,576	419,167	7.4	145,282	453,308
2028	2,027,077	5.9	119,598	402,157	6.6	133,787	420,788	7.4	150,004	455,061
2029	2,092,957	5.9	123,484	402,925	6.6	138,135	421,591	7.4	154,879	455,930

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	\$ 1,569,458	8.6%	\$134,973	\$ 456,291	8.9%	\$139,682	\$ 472,241	10.5%	\$164,793	\$ 521,471
2021	1,620,465	8.6	139,360	462,542	8.9	144,221	478,711	10.5	170,149	528,615
2022	1,673,130	8.6	143,889	468,374	8.9	148,909	484,747	10.5	175,679	535,281
2023	1,727,507	8.6	148,566	473,729	8.9	153,748	490,289	10.5	181,388	541,401
2024	1,783,651	8.6	153,394	478,543	8.9	158,745	495,271	10.5	187,283	546,902
2025	1,841,620	8.6	158,379	482,746	8.9	163,904	499,621	10.5	193,370	551,705
2026	1,901,473	8.6	163,527	486,262	8.9	169,231	503,260	10.5	199,655	555,724
2027	1,963,271	8.6	168,841	489,010	8.9	174,731	506,104	10.5	206,143	558,865
2028	2,027,077	8.6	174,329	490,901	8.9	180,410	508,061	10.5	212,843	561,026
2029	2,092,957	8.6	179,994	491,838	8.9	186,273	509,031	10.5	219,760	562,097

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	8.8%	\$138,112	\$ 269,285	10.7%	\$167,932	\$ 336,678	10.4%	\$163,224	\$ 335,503
2021	1,620,465	8.8	142,601	272,974	10.7	173,390	341,290	10.4	168,528	340,099
2022	1,673,130	8.8	147,235	276,416	10.7	179,025	345,593	10.4	174,006	344,387
2023	1,727,507	8.8	152,021	279,576	10.7	184,843	349,544	10.4	179,661	348,324
2024	1,783,651	8.8	156,961	282,417	10.7	190,851	353,096	10.4	185,500	351,863
2025	1,841,620	8.8	162,063	284,897	10.7	197,053	356,197	10.4	191,528	354,953
2026	1,901,473	8.8	167,330	286,972	10.7	203,458	358,792	10.4	197,753	357,539
2027	1,963,271	8.8	172,768	288,594	10.7	210,070	360,820	10.4	204,180	359,560
2028	2,027,077	8.8	178,383	289,710	10.7	216,897	362,215	10.4	210,816	360,950
2029	2,092,957	8.8	184,180	290,263	10.7	223,946	362,907	10.4	217,668	361,639

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	\$ 1,569,458	12.0%	\$188,335	\$ 386,260	12.8%	\$200,891	\$ 404,066	13.6%	\$213,446	\$ 437,116
2021	1,620,465	12.0	194,456	391,552	12.8	207,420	409,602	13.6	220,383	443,104
2022	1,673,130	12.0	200,776	396,489	12.8	214,161	414,767	13.6	227,546	448,691
2023	1,727,507	12.0	207,301	401,022	12.8	221,121	419,509	13.6	234,941	453,821
2024	1,783,651	12.0	214,038	405,097	12.8	228,307	423,772	13.6	242,577	458,432
2025	1,841,620	12.0	220,994	408,655	12.8	235,727	427,494	13.6	250,460	462,458
2026	1,901,473	12.0	228,177	411,632	12.8	243,389	430,608	13.6	258,600	465,827
2027	1,963,271	12.0	235,593	413,958	12.8	251,299	433,042	13.6	267,005	468,460
2028	2,027,077	12.0	243,249	415,559	12.8	259,466	434,717	13.6	275,682	470,272
2029	2,092,957	12.0	251,155	416,352	12.8	267,898	435,547	13.6	284,642	471,170

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	\$ 1,569,458	14.7%	\$230,710	\$ 471,437	15.1%	\$236,988	\$ 487,977	16.6%	\$260,530	\$ 538,664
2021	1,620,465	14.7	238,208	477,896	15.1	244,690	494,662	16.6	268,997	546,044
2022	1,673,130	14.7	245,950	483,922	15.1	252,643	500,899	16.6	277,740	552,929
2023	1,727,507	14.7	253,944	489,455	15.1	260,854	506,626	16.6	286,766	559,251
2024	1,783,651	14.7	262,197	494,428	15.1	269,331	511,774	16.6	296,086	564,934
2025	1,841,620	14.7	270,718	498,770	15.1	278,085	516,269	16.6	305,709	569,895
2026	1,901,473	14.7	279,517	502,403	15.1	287,122	520,030	16.6	315,645	574,046
2027	1,963,271	14.7	288,601	505,242	15.1	296,454	522,969	16.6	325,903	577,290
2028	2,027,077	14.7	297,980	507,196	15.1	306,089	524,991	16.6	336,495	579,522
2029	2,092,957	14.7	307,665	508,164	15.1	316,037	525,993	16.6	347,431	580,629

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	6.9%	\$108,293	\$ 269,285	8.8%	\$138,112	\$ 336,678	8.5%	\$133,404	\$ 335,503
2021	1,620,465	6.9	111,812	272,974	8.8	142,601	341,290	8.5	137,740	340,099
2022	1,673,130	6.9	115,446	276,416	8.8	147,235	345,593	8.5	142,216	344,387
2023	1,727,507	6.9	119,198	279,576	8.8	152,021	349,544	8.5	146,838	348,324
2024	1,783,651	6.9	123,072	282,417	8.8	156,961	353,096	8.5	151,610	351,863
2025	1,841,620	6.9	127,072	284,897	8.8	162,063	356,197	8.5	156,538	354,953
2026	1,901,473	6.9	131,202	286,972	8.8	167,330	358,792	8.5	161,625	357,539
2027	1,963,271	6.9	135,466	288,594	8.8	172,768	360,820	8.5	166,878	359,560
2028	2,027,077	6.9	139,868	289,710	8.8	178,383	362,215	8.5	172,302	360,950
2029	2,092,957	6.9	144,414	290,263	8.8	184,180	362,907	8.5	177,901	361,639

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	\$ 1,569,458	10.1%	\$158,515	\$ 386,260	10.9%	\$171,071	\$ 404,066	11.7%	\$183,627	\$ 437,116
2021	1,620,465	10.1	163,667	391,552	10.9	176,631	409,602	11.7	189,594	443,104
2022	1,673,130	10.1	168,986	396,489	10.9	182,371	414,767	11.7	195,756	448,691
2023	1,727,507	10.1	174,478	401,022	10.9	188,298	419,509	11.7	202,118	453,821
2024	1,783,651	10.1	180,149	405,097	10.9	194,418	423,772	11.7	208,687	458,432
2025	1,841,620	10.1	186,004	408,655	10.9	200,737	427,494	11.7	215,470	462,458
2026	1,901,473	10.1	192,049	411,632	10.9	207,261	430,608	11.7	222,472	465,827
2027	1,963,271	10.1	198,290	413,958	10.9	213,997	433,042	11.7	229,703	468,460
2028	2,027,077	10.1	204,735	415,559	10.9	220,951	434,717	11.7	237,168	470,272
2029	2,092,957	10.1	211,389	416,352	10.9	228,132	435,547	11.7	244,876	471,170

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	\$ 1,569,458	12.8%	\$200,891	\$ 471,437	13.2%	\$207,168	\$ 487,977	14.7%	\$230,710	\$ 538,664
2021	1,620,465	12.8	207,420	477,896	13.2	213,901	494,662	14.7	238,208	546,044
2022	1,673,130	12.8	214,161	483,922	13.2	220,853	500,899	14.7	245,950	552,929
2023	1,727,507	12.8	221,121	489,455	13.2	228,031	506,626	14.7	253,944	559,251
2024	1,783,651	12.8	228,307	494,428	13.2	235,442	511,774	14.7	262,197	564,934
2025	1,841,620	12.8	235,727	498,770	13.2	243,094	516,269	14.7	270,718	569,895
2026	1,901,473	12.8	243,389	502,403	13.2	250,994	520,030	14.7	279,517	574,046
2027	1,963,271	12.8	251,299	505,242	13.2	259,152	522,969	14.7	288,601	577,290
2028	2,027,077	12.8	259,466	507,196	13.2	267,574	524,991	14.7	297,980	579,522
2029	2,092,957	12.8	267,898	508,164	13.2	276,270	525,993	14.7	307,665	580,629

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	5.0%	\$78,473	\$ 269,285	6.9%	\$108,293	\$ 336,678	6.6%	\$103,584	\$ 335,503
2021	1,620,465	5.0	81,023	272,974	6.9	111,812	341,290	6.6	106,951	340,099
2022	1,673,130	5.0	83,657	276,416	6.9	115,446	345,593	6.6	110,427	344,387
2023	1,727,507	5.0	86,375	279,576	6.9	119,198	349,544	6.6	114,015	348,324
2024	1,783,651	5.0	89,183	282,417	6.9	123,072	353,096	6.6	117,721	351,863
2025	1,841,620	5.0	92,081	284,897	6.9	127,072	356,197	6.6	121,547	354,953
2026	1,901,473	5.0	95,074	286,972	6.9	131,202	358,792	6.6	125,497	357,539
2027	1,963,271	5.0	98,164	288,594	6.9	135,466	360,820	6.6	129,576	359,560
2028	2,027,077	5.0	101,354	289,710	6.9	139,868	362,215	6.6	133,787	360,950
2029	2,092,957	5.0	104,648	290,263	6.9	144,414	362,907	6.6	138,135	361,639

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	\$ 1,569,458	8.2%	\$128,696	\$ 386,260	9.0%	\$141,251	\$ 404,066	9.8%	\$153,807	\$ 437,116
2021	1,620,465	8.2	132,878	391,552	9.0	145,842	409,602	9.8	158,806	443,104
2022	1,673,130	8.2	137,197	396,489	9.0	150,582	414,767	9.8	163,967	448,691
2023	1,727,507	8.2	141,656	401,022	9.0	155,476	419,509	9.8	169,296	453,821
2024	1,783,651	8.2	146,259	405,097	9.0	160,529	423,772	9.8	174,798	458,432
2025	1,841,620	8.2	151,013	408,655	9.0	165,746	427,494	9.8	180,479	462,458
2026	1,901,473	8.2	155,921	411,632	9.0	171,133	430,608	9.8	186,344	465,827
2027	1,963,271	8.2	160,988	413,958	9.0	176,694	433,042	9.8	192,401	468,460
2028	2,027,077	8.2	166,220	415,559	9.0	182,437	434,717	9.8	198,654	470,272
2029	2,092,957	8.2	171,622	416,352	9.0	188,366	435,547	9.8	205,110	471,170

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	\$ 1,569,458	10.9%	\$171,071	\$ 471,437	11.3%	\$177,349	\$ 487,977	12.8%	\$200,891	\$ 538,664
2021	1,620,465	10.9	176,631	477,896	11.3	183,113	494,662	12.8	207,420	546,044
2022	1,673,130	10.9	182,371	483,922	11.3	189,064	500,899	12.8	214,161	552,929
2023	1,727,507	10.9	188,298	489,455	11.3	195,208	506,626	12.8	221,121	559,251
2024	1,783,651	10.9	194,418	494,428	11.3	201,553	511,774	12.8	228,307	564,934
2025	1,841,620	10.9	200,737	498,770	11.3	208,103	516,269	12.8	235,727	569,895
2026	1,901,473	10.9	207,261	502,403	11.3	214,866	520,030	12.8	243,389	574,046
2027	1,963,271	10.9	213,997	505,242	11.3	221,850	522,969	12.8	251,299	577,290
2028	2,027,077	10.9	220,951	507,196	11.3	229,060	524,991	12.8	259,466	579,522
2029	2,092,957	10.9	228,132	508,164	11.3	236,504	525,993	12.8	267,898	580,629

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.



Johnson County - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	3.1%	\$48,653	\$ 269,285	5.0%	\$78,473	\$ 336,678	4.7%	\$73,765	\$ 335,503
2021	1,620,465	3.1	50,234	272,974	5.0	81,023	341,290	4.7	76,162	340,099
2022	1,673,130	3.1	51,867	276,416	5.0	83,657	345,593	4.7	78,637	344,387
2023	1,727,507	3.1	53,553	279,576	5.0	86,375	349,544	4.7	81,193	348,324
2024	1,783,651	3.1	55,293	282,417	5.0	89,183	353,096	4.7	83,832	351,863
2025	1,841,620	3.1	57,090	284,897	5.0	92,081	356,197	4.7	86,556	354,953
2026	1,901,473	3.1	58,946	286,972	5.0	95,074	358,792	4.7	89,369	357,539
2027	1,963,271	3.1	60,861	288,594	5.0	98,164	360,820	4.7	92,274	359,560
2028	2,027,077	3.1	62,839	289,710	5.0	101,354	362,215	4.7	95,273	360,950
2029	2,092,957	3.1	64,882	290,263	5.0	104,648	362,907	4.7	98,369	361,639

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	\$ 1,569,458	6.3%	\$98,876	\$ 386,260	7.1%	\$111,431	\$ 404,066	7.9%	\$123,987	\$ 437,116
2021	1,620,465	6.3	102,089	391,552	7.1	115,053	409,602	7.9	128,017	443,104
2022	1,673,130	6.3	105,407	396,489	7.1	118,792	414,767	7.9	132,177	448,691
2023	1,727,507	6.3	108,833	401,022	7.1	122,653	419,509	7.9	136,473	453,821
2024	1,783,651	6.3	112,370	405,097	7.1	126,639	423,772	7.9	140,908	458,432
2025	1,841,620	6.3	116,022	408,655	7.1	130,755	427,494	7.9	145,488	462,458
2026	1,901,473	6.3	119,793	411,632	7.1	135,005	430,608	7.9	150,216	465,827
2027	1,963,271	6.3	123,686	413,958	7.1	139,392	433,042	7.9	155,098	468,460
2028	2,027,077	6.3	127,706	415,559	7.1	143,922	434,717	7.9	160,139	470,272
2029	2,092,957	6.3	131,856	416,352	7.1	148,600	435,547	7.9	165,344	471,170

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	\$ 1,569,458	9.0%	\$141,251	\$ 471,437	9.4%	\$147,529	\$ 487,977	10.9%	\$171,071	\$ 538,664
2021	1,620,465	9.0	145,842	477,896	9.4	152,324	494,662	10.9	176,631	546,044
2022	1,673,130	9.0	150,582	483,922	9.4	157,274	500,899	10.9	182,371	552,929
2023	1,727,507	9.0	155,476	489,455	9.4	162,386	506,626	10.9	188,298	559,251
2024	1,783,651	9.0	160,529	494,428	9.4	167,663	511,774	10.9	194,418	564,934
2025	1,841,620	9.0	165,746	498,770	9.4	173,112	516,269	10.9	200,737	569,895
2026	1,901,473	9.0	171,133	502,403	9.4	178,738	520,030	10.9	207,261	574,046
2027	1,963,271	9.0	176,694	505,242	9.4	184,547	522,969	10.9	213,997	577,290
2028	2,027,077	9.0	182,437	507,196	9.4	190,545	524,991	10.9	220,951	579,522
2029	2,092,957	9.0	188,366	508,164	9.4	196,738	525,993	10.9	228,132	580,629

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	8.7%	\$136,543	\$ 257,874	10.7%	\$167,932	\$ 322,236	10.6%	\$166,363	\$ 338,550
2021	1,620,465	8.7	140,980	261,407	10.7	173,390	326,651	10.6	171,769	343,188
2022	1,673,130	8.7	145,562	264,703	10.7	179,025	330,770	10.6	177,352	347,515
2023	1,727,507	8.7	150,293	267,729	10.7	184,843	334,552	10.6	183,116	351,488
2024	1,783,651	8.7	155,178	270,449	10.7	190,851	337,951	10.6	189,067	355,059
2025	1,841,620	8.7	160,221	272,824	10.7	197,053	340,919	10.6	195,212	358,177
2026	1,901,473	8.7	165,428	274,811	10.7	203,458	343,402	10.6	201,556	360,786
2027	1,963,271	8.7	170,805	276,364	10.7	210,070	345,343	10.6	208,107	362,825
2028	2,027,077	8.7	176,356	277,433	10.7	216,897	346,678	10.6	214,870	364,228
2029	2,092,957	8.7	182,087	277,963	10.7	223,946	347,340	10.6	221,853	364,923

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	\$ 1,569,458	12.1%	\$189,904	\$ 382,731	12.6%	\$197,752	\$ 386,672	13.5%	\$211,877	\$ 426,997
2021	1,620,465	12.1	196,076	387,974	12.6	204,179	391,969	13.5	218,763	432,847
2022	1,673,130	12.1	202,449	392,866	12.6	210,814	396,911	13.5	225,873	438,305
2023	1,727,507	12.1	209,028	397,358	12.6	217,666	401,449	13.5	233,213	443,316
2024	1,783,651	12.1	215,822	401,396	12.6	224,740	405,528	13.5	240,793	447,820
2025	1,841,620	12.1	222,836	404,921	12.6	232,044	409,089	13.5	248,619	451,753
2026	1,901,473	12.1	230,078	407,871	12.6	239,586	412,069	13.5	256,699	455,044
2027	1,963,271	12.1	237,556	410,176	12.6	247,372	414,398	13.5	265,042	457,616
2028	2,027,077	12.1	245,276	411,762	12.6	255,412	416,000	13.5	273,655	459,386
2029	2,092,957	12.1	253,248	412,548	12.6	263,713	416,794	13.5	282,549	460,263

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	\$ 1,569,458	14.5%	\$227,571	\$ 451,105	15.0%	\$235,419	\$ 471,249	16.5%	\$258,961	\$ 515,529
2021	1,620,465	14.5	234,967	457,285	15.0	243,070	477,705	16.5	267,377	522,592
2022	1,673,130	14.5	242,604	463,051	15.0	250,970	483,729	16.5	276,066	529,182
2023	1,727,507	14.5	250,489	468,345	15.0	259,126	489,259	16.5	285,039	535,232
2024	1,783,651	14.5	258,629	473,104	15.0	267,548	494,230	16.5	294,302	540,670
2025	1,841,620	14.5	267,035	477,259	15.0	276,243	498,571	16.5	303,867	545,418
2026	1,901,473	14.5	275,714	480,736	15.0	285,221	502,203	16.5	313,743	549,391
2027	1,963,271	14.5	284,674	483,453	15.0	294,491	505,041	16.5	323,940	552,496
2028	2,027,077	14.5	293,926	485,323	15.0	304,062	506,994	16.5	334,468	554,633
2029	2,092,957	14.5	303,479	486,250	15.0	313,944	507,962	16.5	345,338	555,692

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	6.8%	\$106,723	\$ 257,874	8.8%	\$138,112	\$ 322,236	8.7%	\$136,543	\$ 338,550
2021	1,620,465	6.8	110,192	261,407	8.8	142,601	326,651	8.7	140,980	343,188
2022	1,673,130	6.8	113,773	264,703	8.8	147,235	330,770	8.7	145,562	347,515
2023	1,727,507	6.8	117,470	267,729	8.8	152,021	334,552	8.7	150,293	351,488
2024	1,783,651	6.8	121,288	270,449	8.8	156,961	337,951	8.7	155,178	355,059
2025	1,841,620	6.8	125,230	272,824	8.8	162,063	340,919	8.7	160,221	358,177
2026	1,901,473	6.8	129,300	274,811	8.8	167,330	343,402	8.7	165,428	360,786
2027	1,963,271	6.8	133,502	276,364	8.8	172,768	345,343	8.7	170,805	362,825
2028	2,027,077	6.8	137,841	277,433	8.8	178,383	346,678	8.7	176,356	364,228
2029	2,092,957	6.8	142,321	277,963	8.8	184,180	347,340	8.7	182,087	364,923

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	\$ 1,569,458	10.2%	\$160,085	\$ 382,731	10.7%	\$167,932	\$ 386,672	11.6%	\$182,057	\$ 426,997
2021	1,620,465	10.2	165,287	387,974	10.7	173,390	391,969	11.6	187,974	432,847
2022	1,673,130	10.2	170,659	392,866	10.7	179,025	396,911	11.6	194,083	438,305
2023	1,727,507	10.2	176,206	397,358	10.7	184,843	401,449	11.6	200,391	443,316
2024	1,783,651	10.2	181,932	401,396	10.7	190,851	405,528	11.6	206,904	447,820
2025	1,841,620	10.2	187,845	404,921	10.7	197,053	409,089	11.6	213,628	451,753
2026	1,901,473	10.2	193,950	407,871	10.7	203,458	412,069	11.6	220,571	455,044
2027	1,963,271	10.2	200,254	410,176	10.7	210,070	414,398	11.6	227,739	457,616
2028	2,027,077	10.2	206,762	411,762	10.7	216,897	416,000	11.6	235,141	459,386
2029	2,092,957	10.2	213,482	412,548	10.7	223,946	416,794	11.6	242,783	460,263

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	\$ 1,569,458	12.6%	\$197,752	\$ 451,105	13.1%	\$205,599	\$ 471,249	14.6%	\$229,141	\$ 515,529
2021	1,620,465	12.6	204,179	457,285	13.1	212,281	477,705	14.6	236,588	522,592
2022	1,673,130	12.6	210,814	463,051	13.1	219,180	483,729	14.6	244,277	529,182
2023	1,727,507	12.6	217,666	468,345	13.1	226,303	489,259	14.6	252,216	535,232
2024	1,783,651	12.6	224,740	473,104	13.1	233,658	494,230	14.6	260,413	540,670
2025	1,841,620	12.6	232,044	477,259	13.1	241,252	498,571	14.6	268,877	545,418
2026	1,901,473	12.6	239,586	480,736	13.1	249,093	502,203	14.6	277,615	549,391
2027	1,963,271	12.6	247,372	483,453	13.1	257,189	505,041	14.6	286,638	552,496
2028	2,027,077	12.6	255,412	485,323	13.1	265,547	506,994	14.6	295,953	554,633
2029	2,092,957	12.6	263,713	486,250	13.1	274,177	507,962	14.6	305,572	555,692

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	4.9%	\$76,903	\$ 257,874	6.9%	\$108,293	\$ 322,236	6.8%	\$106,723	\$ 338,550
2021	1,620,465	4.9	79,403	261,407	6.9	111,812	326,651	6.8	110,192	343,188
2022	1,673,130	4.9	81,983	264,703	6.9	115,446	330,770	6.8	113,773	347,515
2023	1,727,507	4.9	84,648	267,729	6.9	119,198	334,552	6.8	117,470	351,488
2024	1,783,651	4.9	87,399	270,449	6.9	123,072	337,951	6.8	121,288	355,059
2025	1,841,620	4.9	90,239	272,824	6.9	127,072	340,919	6.8	125,230	358,177
2026	1,901,473	4.9	93,172	274,811	6.9	131,202	343,402	6.8	129,300	360,786
2027	1,963,271	4.9	96,200	276,364	6.9	135,466	345,343	6.8	133,502	362,825
2028	2,027,077	4.9	99,327	277,433	6.9	139,868	346,678	6.8	137,841	364,228
2029	2,092,957	4.9	102,555	277,963	6.9	144,414	347,340	6.8	142,321	364,923

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	\$ 1,569,458	8.3%	\$130,265	\$ 382,731	8.8%	\$138,112	\$ 386,672	9.7%	\$152,237	\$ 426,997
2021	1,620,465	8.3	134,499	387,974	8.8	142,601	391,969	9.7	157,185	432,847
2022	1,673,130	8.3	138,870	392,866	8.8	147,235	396,911	9.7	162,294	438,305
2023	1,727,507	8.3	143,383	397,358	8.8	152,021	401,449	9.7	167,568	443,316
2024	1,783,651	8.3	148,043	401,396	8.8	156,961	405,528	9.7	173,014	447,820
2025	1,841,620	8.3	152,854	404,921	8.8	162,063	409,089	9.7	178,637	451,753
2026	1,901,473	8.3	157,822	407,871	8.8	167,330	412,069	9.7	184,443	455,044
2027	1,963,271	8.3	162,951	410,176	8.8	172,768	414,398	9.7	190,437	457,616
2028	2,027,077	8.3	168,247	411,762	8.8	178,383	416,000	9.7	196,626	459,386
2029	2,092,957	8.3	173,715	412,548	8.8	184,180	416,794	9.7	203,017	460,263

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	\$ 1,569,458	10.7%	\$167,932	\$ 451,105	11.2%	\$175,779	\$ 471,249	12.7%	\$199,321	\$ 515,529
2021	1,620,465	10.7	173,390	457,285	11.2	181,492	477,705	12.7	205,799	522,592
2022	1,673,130	10.7	179,025	463,051	11.2	187,391	483,729	12.7	212,488	529,182
2023	1,727,507	10.7	184,843	468,345	11.2	193,481	489,259	12.7	219,393	535,232
2024	1,783,651	10.7	190,851	473,104	11.2	199,769	494,230	12.7	226,524	540,670
2025	1,841,620	10.7	197,053	477,259	11.2	206,261	498,571	12.7	233,886	545,418
2026	1,901,473	10.7	203,458	480,736	11.2	212,965	502,203	12.7	241,487	549,391
2027	1,963,271	10.7	210,070	483,453	11.2	219,886	505,041	12.7	249,335	552,496
2028	2,027,077	10.7	216,897	485,323	11.2	227,033	506,994	12.7	257,439	554,633
2029	2,092,957	10.7	223,946	486,250	11.2	234,411	507,962	12.7	265,806	555,692

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	3.0%	\$47,084	\$ 257,874	5.0%	\$78,473	\$ 322,236	4.9%	\$76,903	\$ 338,550
2021	1,620,465	3.0	48,614	261,407	5.0	81,023	326,651	4.9	79,403	343,188
2022	1,673,130	3.0	50,194	264,703	5.0	83,657	330,770	4.9	81,983	347,515
2023	1,727,507	3.0	51,825	267,729	5.0	86,375	334,552	4.9	84,648	351,488
2024	1,783,651	3.0	53,510	270,449	5.0	89,183	337,951	4.9	87,399	355,059
2025	1,841,620	3.0	55,249	272,824	5.0	92,081	340,919	4.9	90,239	358,177
2026	1,901,473	3.0	57,044	274,811	5.0	95,074	343,402	4.9	93,172	360,786
2027	1,963,271	3.0	58,898	276,364	5.0	98,164	345,343	4.9	96,200	362,825
2028	2,027,077	3.0	60,812	277,433	5.0	101,354	346,678	4.9	99,327	364,228
2029	2,092,957	3.0	62,789	277,963	5.0	104,648	347,340	4.9	102,555	364,923

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	\$ 1,569,458	6.4%	\$100,445	\$ 382,731	6.9%	\$108,293	\$ 386,672	7.8%	\$122,418	\$ 426,997
2021	1,620,465	6.4	103,710	387,974	6.9	111,812	391,969	7.8	126,396	432,847
2022	1,673,130	6.4	107,080	392,866	6.9	115,446	396,911	7.8	130,504	438,305
2023	1,727,507	6.4	110,560	397,358	6.9	119,198	401,449	7.8	134,746	443,316
2024	1,783,651	6.4	114,154	401,396	6.9	123,072	405,528	7.8	139,125	447,820
2025	1,841,620	6.4	117,864	404,921	6.9	127,072	409,089	7.8	143,646	451,753
2026	1,901,473	6.4	121,694	407,871	6.9	131,202	412,069	7.8	148,315	455,044
2027	1,963,271	6.4	125,649	410,176	6.9	135,466	414,398	7.8	153,135	457,616
2028	2,027,077	6.4	129,733	411,762	6.9	139,868	416,000	7.8	158,112	459,386
2029	2,092,957	6.4	133,949	412,548	6.9	144,414	416,794	7.8	163,251	460,263

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	\$ 1,569,458	8.8%	\$138,112	\$ 451,105	9.3%	\$145,960	\$ 471,249	10.8%	\$169,501	\$ 515,529
2021	1,620,465	8.8	142,601	457,285	9.3	150,703	477,705	10.8	175,010	522,592
2022	1,673,130	8.8	147,235	463,051	9.3	155,601	483,729	10.8	180,698	529,182
2023	1,727,507	8.8	152,021	468,345	9.3	160,658	489,259	10.8	186,571	535,232
2024	1,783,651	8.8	156,961	473,104	9.3	165,880	494,230	10.8	192,634	540,670
2025	1,841,620	8.8	162,063	477,259	9.3	171,271	498,571	10.8	198,895	545,418
2026	1,901,473	8.8	167,330	480,736	9.3	176,837	502,203	10.8	205,359	549,391
2027	1,963,271	8.8	172,768	483,453	9.3	182,584	505,041	10.8	212,033	552,496
2028	2,027,077	8.8	178,383	485,323	9.3	188,518	506,994	10.8	218,924	554,633
2029	2,092,957	8.8	184,180	486,250	9.3	194,645	507,962	10.8	226,039	555,692

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	9.0%	\$141,251	\$ 266,419	11.0%	\$172,640	\$ 333,076	11.0%	\$172,640	\$ 350,022
2021	1,620,465	9.0	145,842	270,069	11.0	178,251	337,639	11.0	178,251	354,817
2022	1,673,130	9.0	150,582	273,474	11.0	184,044	341,896	11.0	184,044	359,291
2023	1,727,507	9.0	155,476	276,601	11.0	190,026	345,805	11.0	190,026	363,399
2024	1,783,651	9.0	160,529	279,412	11.0	196,202	349,319	11.0	196,202	367,091
2025	1,841,620	9.0	165,746	281,866	11.0	202,578	352,387	11.0	202,578	370,315
2026	1,901,473	9.0	171,133	283,919	11.0	209,162	354,954	11.0	209,162	373,013
2027	1,963,271	9.0	176,694	285,524	11.0	215,960	356,960	11.0	215,960	375,121
2028	2,027,077	9.0	182,437	286,628	11.0	222,978	358,340	11.0	222,978	376,572
2029	2,092,957	9.0	188,366	287,175	11.0	230,225	359,024	11.0	230,225	377,291

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	\$ 1,569,458	12.4%	\$194,613	\$ 395,751	13.0%	\$204,030	\$ 399,805	14.0%	\$219,724	\$ 441,540
2021	1,620,465	12.4	200,938	401,173	13.0	210,660	405,282	14.0	226,865	447,589
2022	1,673,130	12.4	207,468	406,232	13.0	217,507	410,392	14.0	234,238	453,233
2023	1,727,507	12.4	214,211	410,876	13.0	224,576	415,084	14.0	241,851	458,415
2024	1,783,651	12.4	221,173	415,051	13.0	231,875	419,302	14.0	249,711	463,073
2025	1,841,620	12.4	228,361	418,696	13.0	239,411	422,984	14.0	257,827	467,140
2026	1,901,473	12.4	235,783	421,746	13.0	247,191	426,065	14.0	266,206	470,543
2027	1,963,271	12.4	243,446	424,130	13.0	255,225	428,473	14.0	274,858	473,202
2028	2,027,077	12.4	251,358	425,770	13.0	263,520	430,130	14.0	283,791	475,032
2029	2,092,957	12.4	259,527	426,583	13.0	272,084	430,951	14.0	293,014	475,939

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	\$ 1,569,458	15.0%	\$235,419	\$ 466,396	15.6%	\$244,835	\$ 487,282	17.0%	\$266,808	\$ 533,012
2021	1,620,465	15.0	243,070	472,786	15.6	252,793	493,958	17.0	275,479	540,314
2022	1,673,130	15.0	250,970	478,748	15.6	261,008	500,186	17.0	284,432	547,127
2023	1,727,507	15.0	259,126	484,221	15.6	269,491	505,905	17.0	293,676	553,382
2024	1,783,651	15.0	267,548	489,141	15.6	278,250	511,045	17.0	303,221	559,005
2025	1,841,620	15.0	276,243	493,437	15.6	287,293	515,533	17.0	313,075	563,914
2026	1,901,473	15.0	285,221	497,031	15.6	296,630	519,288	17.0	323,250	568,022
2027	1,963,271	15.0	294,491	499,840	15.6	306,270	522,223	17.0	333,756	571,232
2028	2,027,077	15.0	304,062	501,773	15.6	316,224	524,242	17.0	344,603	573,441
2029	2,092,957	15.0	313,944	502,731	15.6	326,501	525,243	17.0	355,803	574,536

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	7.1%	\$111,431	\$ 266,419	9.1%	\$142,821	\$ 333,076	9.1%	\$142,821	\$ 350,022
2021	1,620,465	7.1	115,053	270,069	9.1	147,462	337,639	9.1	147,462	354,817
2022	1,673,130	7.1	118,792	273,474	9.1	152,255	341,896	9.1	152,255	359,291
2023	1,727,507	7.1	122,653	276,601	9.1	157,203	345,805	9.1	157,203	363,399
2024	1,783,651	7.1	126,639	279,412	9.1	162,312	349,319	9.1	162,312	367,091
2025	1,841,620	7.1	130,755	281,866	9.1	167,587	352,387	9.1	167,587	370,315
2026	1,901,473	7.1	135,005	283,919	9.1	173,034	354,954	9.1	173,034	373,013
2027	1,963,271	7.1	139,392	285,524	9.1	178,658	356,960	9.1	178,658	375,121
2028	2,027,077	7.1	143,922	286,628	9.1	184,464	358,340	9.1	184,464	376,572
2029	2,092,957	7.1	148,600	287,175	9.1	190,459	359,024	9.1	190,459	377,291

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	\$ 1,569,458	10.5%	\$164,793	\$ 395,751	11.1%	\$174,210	\$ 399,805	12.1%	\$189,904	\$ 441,540
2021	1,620,465	10.5	170,149	401,173	11.1	179,872	405,282	12.1	196,076	447,589
2022	1,673,130	10.5	175,679	406,232	11.1	185,717	410,392	12.1	202,449	453,233
2023	1,727,507	10.5	181,388	410,876	11.1	191,753	415,084	12.1	209,028	458,415
2024	1,783,651	10.5	187,283	415,051	11.1	197,985	419,302	12.1	215,822	463,073
2025	1,841,620	10.5	193,370	418,696	11.1	204,420	422,984	12.1	222,836	467,140
2026	1,901,473	10.5	199,655	421,746	11.1	211,064	426,065	12.1	230,078	470,543
2027	1,963,271	10.5	206,143	424,130	11.1	217,923	428,473	12.1	237,556	473,202
2028	2,027,077	10.5	212,843	425,770	11.1	225,006	430,130	12.1	245,276	475,032
2029	2,092,957	10.5	219,760	426,583	11.1	232,318	430,951	12.1	253,248	475,939

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	\$ 1,569,458	13.1%	\$205,599	\$ 466,396	13.7%	\$215,016	\$ 487,282	15.1%	\$236,988	\$ 533,012
2021	1,620,465	13.1	212,281	472,786	13.7	222,004	493,958	15.1	244,690	540,314
2022	1,673,130	13.1	219,180	478,748	13.7	229,219	500,186	15.1	252,643	547,127
2023	1,727,507	13.1	226,303	484,221	13.7	236,668	505,905	15.1	260,854	553,382
2024	1,783,651	13.1	233,658	489,141	13.7	244,360	511,045	15.1	269,331	559,005
2025	1,841,620	13.1	241,252	493,437	13.7	252,302	515,533	15.1	278,085	563,914
2026	1,901,473	13.1	249,093	497,031	13.7	260,502	519,288	15.1	287,122	568,022
2027	1,963,271	13.1	257,189	499,840	13.7	268,968	522,223	15.1	296,454	571,232
2028	2,027,077	13.1	265,547	501,773	13.7	277,710	524,242	15.1	306,089	573,441
2029	2,092,957	13.1	274,177	502,731	13.7	286,735	525,243	15.1	316,037	574,536

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	5.2%	\$81,612	\$ 266,419	7.2%	\$113,001	\$ 333,076	7.2%	\$113,001	\$ 350,022
2021	1,620,465	5.2	84,264	270,069	7.2	116,673	337,639	7.2	116,673	354,817
2022	1,673,130	5.2	87,003	273,474	7.2	120,465	341,896	7.2	120,465	359,291
2023	1,727,507	5.2	89,830	276,601	7.2	124,381	345,805	7.2	124,381	363,399
2024	1,783,651	5.2	92,750	279,412	7.2	128,423	349,319	7.2	128,423	367,091
2025	1,841,620	5.2	95,764	281,866	7.2	132,597	352,387	7.2	132,597	370,315
2026	1,901,473	5.2	98,877	283,919	7.2	136,906	354,954	7.2	136,906	373,013
2027	1,963,271	5.2	102,090	285,524	7.2	141,356	356,960	7.2	141,356	375,121
2028	2,027,077	5.2	105,408	286,628	7.2	145,950	358,340	7.2	145,950	376,572
2029	2,092,957	5.2	108,834	287,175	7.2	150,693	359,024	7.2	150,693	377,291

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	\$ 1,569,458	8.6%	\$134,973	\$ 395,751	9.2%	\$144,390	\$ 399,805	10.2%	\$160,085	\$ 441,540
2021	1,620,465	8.6	139,360	401,173	9.2	149,083	405,282	10.2	165,287	447,589
2022	1,673,130	8.6	143,889	406,232	9.2	153,928	410,392	10.2	170,659	453,233
2023	1,727,507	8.6	148,566	410,876	9.2	158,931	415,084	10.2	176,206	458,415
2024	1,783,651	8.6	153,394	415,051	9.2	164,096	419,302	10.2	181,932	463,073
2025	1,841,620	8.6	158,379	418,696	9.2	169,429	422,984	10.2	187,845	467,140
2026	1,901,473	8.6	163,527	421,746	9.2	174,936	426,065	10.2	193,950	470,543
2027	1,963,271	8.6	168,841	424,130	9.2	180,621	428,473	10.2	200,254	473,202
2028	2,027,077	8.6	174,329	425,770	9.2	186,491	430,130	10.2	206,762	475,032
2029	2,092,957	8.6	179,994	426,583	9.2	192,552	430,951	10.2	213,482	475,939

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	\$ 1,569,458	11.2%	\$175,779	\$ 466,396	11.8%	\$185,196	\$ 487,282	13.2%	\$207,168	\$ 533,012
2021	1,620,465	11.2	181,492	472,786	11.8	191,215	493,958	13.2	213,901	540,314
2022	1,673,130	11.2	187,391	478,748	11.8	197,429	500,186	13.2	220,853	547,127
2023	1,727,507	11.2	193,481	484,221	11.8	203,846	505,905	13.2	228,031	553,382
2024	1,783,651	11.2	199,769	489,141	11.8	210,471	511,045	13.2	235,442	559,005
2025	1,841,620	11.2	206,261	493,437	11.8	217,311	515,533	13.2	243,094	563,914
2026	1,901,473	11.2	212,965	497,031	11.8	224,374	519,288	13.2	250,994	568,022
2027	1,963,271	11.2	219,886	499,840	11.8	231,666	522,223	13.2	259,152	571,232
2028	2,027,077	11.2	227,033	501,773	11.8	239,195	524,242	13.2	267,574	573,441
2029	2,092,957	11.2	234,411	502,731	11.8	246,969	525,243	13.2	276,270	574,536

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.



Johnson County - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial 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	\$ 1,569,458	3.3%	\$51,792	\$ 266,419	5.3%	\$83,181	\$ 333,076	5.3%	\$83,181	\$ 350,022
2021	1,620,465	3.3	53,475	270,069	5.3	85,885	337,639	5.3	85,885	354,817
2022	1,673,130	3.3	55,213	273,474	5.3	88,676	341,896	5.3	88,676	359,291
2023	1,727,507	3.3	57,008	276,601	5.3	91,558	345,805	5.3	91,558	363,399
2024	1,783,651	3.3	58,860	279,412	5.3	94,534	349,319	5.3	94,534	367,091
2025	1,841,620	3.3	60,773	281,866	5.3	97,606	352,387	5.3	97,606	370,315
2026	1,901,473	3.3	62,749	283,919	5.3	100,778	354,954	5.3	100,778	373,013
2027	1,963,271	3.3	64,788	285,524	5.3	104,053	356,960	5.3	104,053	375,121
2028	2,027,077	3.3	66,894	286,628	5.3	107,435	358,340	5.3	107,435	376,572
2029	2,092,957	3.3	69,068	287,175	5.3	110,927	359,024	5.3	110,927	377,291

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	\$ 1,569,458	6.7%	\$105,154	\$ 395,751	7.3%	\$114,570	\$ 399,805	8.3%	\$130,265	\$ 441,540
2021	1,620,465	6.7	108,571	401,173	7.3	118,294	405,282	8.3	134,499	447,589
2022	1,673,130	6.7	112,100	406,232	7.3	122,138	410,392	8.3	138,870	453,233
2023	1,727,507	6.7	115,743	410,876	7.3	126,108	415,084	8.3	143,383	458,415
2024	1,783,651	6.7	119,505	415,051	7.3	130,207	419,302	8.3	148,043	463,073
2025	1,841,620	6.7	123,389	418,696	7.3	134,438	422,984	8.3	152,854	467,140
2026	1,901,473	6.7	127,399	421,746	7.3	138,808	426,065	8.3	157,822	470,543
2027	1,963,271	6.7	131,539	424,130	7.3	143,319	428,473	8.3	162,951	473,202
2028	2,027,077	6.7	135,814	425,770	7.3	147,977	430,130	8.3	168,247	475,032
2029	2,092,957	6.7	140,228	426,583	7.3	152,786	430,951	8.3	173,715	475,939

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	\$ 1,569,458	9.3%	\$145,960	\$ 466,396	9.9%	\$155,376	\$ 487,282	11.3%	\$177,349	\$ 533,012
2021	1,620,465	9.3	150,703	472,786	9.9	160,426	493,958	11.3	183,113	540,314
2022	1,673,130	9.3	155,601	478,748	9.9	165,640	500,186	11.3	189,064	547,127
2023	1,727,507	9.3	160,658	484,221	9.9	171,023	505,905	11.3	195,208	553,382
2024	1,783,651	9.3	165,880	489,141	9.9	176,581	511,045	11.3	201,553	559,005
2025	1,841,620	9.3	171,271	493,437	9.9	182,320	515,533	11.3	208,103	563,914
2026	1,901,473	9.3	176,837	497,031	9.9	188,246	519,288	11.3	214,866	568,022
2027	1,963,271	9.3	182,584	499,840	9.9	194,364	522,223	11.3	221,850	571,232
2028	2,027,077	9.3	188,518	501,773	9.9	200,681	524,242	11.3	229,060	573,441
2029	2,092,957	9.3	194,645	502,731	9.9	207,203	525,243	11.3	236,504	574,536

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.

