



The Initial Valuation For
City of Warson Woods
as of December 31, 2023



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March 1, 2024

City of Warson Woods
St. Louis, Missouri

Ladies and Gentlemen:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,
Gabriel, Roeder, Smith & Company



Mita D. Drazilov, ASA, FCA, MAAA



Alternate Plan Provisions Affecting Employer Contribution Rates

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

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

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

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

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

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

City of Warson Woods

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	6.50%	0.20%	2.30%	9.00%	7.10%	5.20%	3.30%
	Police	9.10	0.40	8.80	18.30	16.40	14.50	12.60
L-3	General	7.90	0.30	2.90	11.10	9.20	7.30	5.40
	Police	11.10	0.50	11.00	22.60	20.70	18.80	16.90
LT-4(65)	General	7.20	0.20	2.60	10.00	8.10	6.20	4.30
	Police	11.00	0.40	9.40	20.80	18.90	17.00	15.10
LT-5(65)	General	8.40	0.30	3.10	11.80	9.90	8.00	6.10
	Police	12.50	0.50	11.40	24.40	22.50	20.60	18.70
L-7	General	9.40	0.30	3.50	13.20	11.30	9.40	7.50
	Police	13.20	0.60	13.20	27.00	25.10	23.20	21.30
LT-8(65)	General	9.70	0.30	3.60	13.60	11.70	9.80	7.90
	Police	14.10	0.60	13.50	28.20	26.30	24.40	22.50
L-12	General	10.80	0.40	4.00	15.20	13.30	11.40	9.50
	Police	15.20	0.70	15.40	31.30	29.40	27.50	25.60
LT-14(65)	General	10.90	0.40	4.10	15.40	13.50	11.60	9.70
	Police	15.70	0.70	15.60	32.00	30.10	28.20	26.30
L-6	General	12.20	0.50	4.60	17.30	15.40	13.50	11.60
	Police	17.30	0.80	17.60	35.70	33.80	31.90	30.00

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

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

City of Warson Woods

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	6.70%	0.20%	2.40%	9.30%	7.40%	5.50%	3.60%
	Police	9.40	0.40	9.10	18.90	17.00	15.10	13.20
L-3	General	8.20	0.30	3.00	11.50	9.60	7.70	5.80
	Police	11.50	0.50	11.40	23.40	21.50	19.60	17.70
LT-4(65)	General	7.40	0.20	2.60	10.20	8.30	6.40	4.50
	Police	11.30	0.40	9.70	21.40	19.50	17.60	15.70
LT-5(65)	General	8.70	0.30	3.20	12.20	10.30	8.40	6.50
	Police	12.90	0.50	11.80	25.20	23.30	21.40	19.50
L-7	General	9.60	0.30	3.60	13.50	11.60	9.70	7.80
	Police	13.60	0.60	13.70	27.90	26.00	24.10	22.20
LT-8(65)	General	10.00	0.30	3.70	14.00	12.10	10.20	8.30
	Police	14.60	0.60	13.90	29.10	27.20	25.30	23.40
L-12	General	11.10	0.40	4.20	15.70	13.80	11.90	10.00
	Police	15.70	0.70	15.90	32.30	30.40	28.50	26.60
LT-14(65)	General	11.30	0.40	4.20	15.90	14.00	12.10	10.20
	Police	16.20	0.70	16.10	33.00	31.10	29.20	27.30
L-6	General	12.60	0.50	4.80	17.90	16.00	14.10	12.20
	Police	17.80	0.80	18.20	36.80	34.90	33.00	31.10

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

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

City of Warson Woods

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	6.80%	0.20%	2.30%	9.30%	7.40%	5.50%	3.60%
	Police	9.10	0.40	8.80	18.30	16.40	14.50	12.60
L-3	General	8.30	0.30	2.90	11.50	9.60	7.70	5.80
	Police	11.10	0.50	11.00	22.60	20.70	18.80	16.90
LT-4(65)	General	7.90	0.20	2.60	10.70	8.80	6.90	5.00
	Police	11.00	0.40	9.40	20.80	18.90	17.00	15.10
LT-5(65)	General	9.10	0.30	3.10	12.50	10.60	8.70	6.80
	Police	12.50	0.50	11.40	24.40	22.50	20.60	18.70
L-7	General	9.80	0.30	3.50	13.60	11.70	9.80	7.90
	Police	13.20	0.60	13.20	27.00	25.10	23.20	21.30
LT-8(65)	General	10.30	0.30	3.60	14.20	12.30	10.40	8.50
	Police	14.10	0.60	13.50	28.20	26.30	24.40	22.50
L-12	General	11.30	0.40	4.10	15.80	13.90	12.00	10.10
	Police	15.20	0.70	15.40	31.30	29.40	27.50	25.60
LT-14(65)	General	11.50	0.40	4.10	16.00	14.10	12.20	10.30
	Police	15.70	0.70	15.60	32.00	30.10	28.20	26.30
L-6	General	12.80	0.50	4.60	17.90	16.00	14.10	12.20
	Police	17.30	0.80	17.60	35.70	33.80	31.90	30.00

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

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

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

City of Warson Woods

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	7.00%	0.20%	2.40%	9.60%	7.70%	5.80%	3.90%
	Police	9.40	0.40	9.10	18.90	17.00	15.10	13.20
L-3	General	8.60	0.30	3.00	11.90	10.00	8.10	6.20
	Police	11.50	0.50	11.40	23.40	21.50	19.60	17.70
LT-4(65)	General	8.10	0.20	2.70	11.00	9.10	7.20	5.30
	Police	11.30	0.40	9.70	21.40	19.50	17.60	15.70
LT-5(65)	General	9.40	0.30	3.20	12.90	11.00	9.10	7.20
	Police	12.90	0.50	11.80	25.20	23.30	21.40	19.50
L-7	General	10.10	0.30	3.60	14.00	12.10	10.20	8.30
	Police	13.60	0.60	13.70	27.90	26.00	24.10	22.20
LT-8(65)	General	10.60	0.30	3.70	14.60	12.70	10.80	8.90
	Police	14.60	0.60	13.90	29.10	27.20	25.30	23.40
L-12	General	11.60	0.40	4.20	16.20	14.30	12.40	10.50
	Police	15.70	0.70	15.90	32.30	30.40	28.50	26.60
LT-14(65)	General	11.90	0.40	4.30	16.60	14.70	12.80	10.90
	Police	16.20	0.70	16.10	33.00	31.10	29.20	27.30
L-6	General	13.20	0.50	4.80	18.50	16.60	14.70	12.80
	Police	17.80	0.80	18.20	36.80	34.90	33.00	31.10

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

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

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

City of Warson Woods

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

Benefit Program	5 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 10,954	\$ 8,641	\$ 6,329	\$ 4,016
L-3	13,509	11,197	8,885	6,572
LT-4(65)	12,171	9,858	7,546	5,233
LT-5(65)	14,361	12,049	9,736	7,424
L-7	16,065	13,753	11,440	9,128
LT-8(65)	16,552	14,240	11,927	9,615
L-12	18,499	16,187	13,874	11,562
LT-14(65)	18,743	16,430	14,118	11,805
L-6	21,055	18,743	16,430	14,118

Benefit Program	3 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 11,319	\$ 9,006	\$ 6,694	\$ 4,381
L-3	13,996	11,684	9,371	7,059
LT-4(65)	12,414	10,102	7,789	5,477
LT-5(65)	14,848	12,536	10,223	7,911
L-7	16,430	14,118	11,805	9,493
LT-8(65)	17,039	14,726	12,414	10,102
L-12	19,108	16,795	14,483	12,171
LT-14(65)	19,351	17,039	14,726	12,414
L-6	21,785	19,473	17,161	14,848

Rule of 80 Retirement Eligibility

Benefit Program	5 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 11,319	\$ 9,006	\$ 6,694	\$ 4,381
L-3	13,996	11,684	9,371	7,059
LT-4(65)	13,023	10,710	8,398	6,085
LT-5(65)	15,213	12,901	10,588	8,276
L-7	16,552	14,240	11,927	9,615
LT-8(65)	17,282	14,970	12,657	10,345
L-12	19,230	16,917	14,605	12,292
LT-14(65)	19,473	17,161	14,848	12,536
L-6	21,785	19,473	17,161	14,848

Benefit Program	3 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 11,684	\$ 9,371	\$ 7,059	\$ 4,747
L-3	14,483	12,171	9,858	7,546
LT-4(65)	13,388	11,075	8,763	6,450
LT-5(65)	15,700	13,388	11,075	8,763
L-7	17,039	14,726	12,414	10,102
LT-8(65)	17,769	15,457	13,144	10,832
L-12	19,716	17,404	15,092	12,779
LT-14(65)	20,203	17,891	15,578	13,266
L-6	22,516	20,203	17,891	15,578

PLEASE NOTE THAT THE ABOVE INFORMATION IS BASED ON THE PERSONNEL AND PAYROLL DATA SUBMITTED FOR THE ACTUARIAL VALUATION. IN BUDGETING AMOUNTS FOR LAGERS CONTRIBUTIONS YOU SHOULD CONSIDER ANY CHANGES WHICH HAVE BEEN MADE SINCE DATA WAS SUBMITTED FOR THE VALUATION AND ANY CHANGES ANTICIPATED TO BE MADE BEFORE THE END OF THE PERIOD FOR WHICH YOU ARE PREPARING THE BUDGET.



City of Warson Woods

Employer Contribution Dollars Police

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

Regular Retirement Eligibility

Benefit Program	5 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 73,662	\$ 66,014	\$ 58,366	\$ 50,718
L-3	90,971	83,323	75,675	68,027
LT-4(65)	83,726	76,078	68,430	60,782
LT-5(65)	98,217	90,569	82,921	75,273
L-7	108,682	101,034	93,386	85,738
LT-8(65)	113,513	105,865	98,217	90,569
L-12	125,991	118,343	110,695	103,047
LT-14(65)	128,809	121,161	113,513	105,865
L-6	143,702	136,054	128,406	120,758

Benefit Program	3 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 76,078	\$ 68,430	\$ 60,782	\$ 53,134
L-3	94,191	86,543	78,895	71,247
LT-4(65)	86,141	78,493	70,845	63,197
LT-5(65)	101,437	93,789	86,141	78,493
L-7	112,305	104,657	97,009	89,361
LT-8(65)	117,135	109,487	101,839	94,191
L-12	130,016	122,368	114,720	107,072
LT-14(65)	132,834	125,186	117,538	109,890
L-6	148,130	140,482	132,834	125,186

Rule of 80 Retirement Eligibility

Benefit Program	5 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 73,662	\$ 66,014	\$ 58,366	\$ 50,718
L-3	90,971	83,323	75,675	68,027
LT-4(65)	83,726	76,078	68,430	60,782
LT-5(65)	98,217	90,569	82,921	75,273
L-7	108,682	101,034	93,386	85,738
LT-8(65)	113,513	105,865	98,217	90,569
L-12	125,991	118,343	110,695	103,047
LT-14(65)	128,809	121,161	113,513	105,865
L-6	143,702	136,054	128,406	120,758

Benefit Program	3 Year FAS			
	Member Contribution Rate			
	0%	2%	4%	6%
L-1	\$ 76,078	\$ 68,430	\$ 60,782	\$ 53,134
L-3	94,191	86,543	78,895	71,247
LT-4(65)	86,141	78,493	70,845	63,197
LT-5(65)	101,437	93,789	86,141	78,493
L-7	112,305	104,657	97,009	89,361
LT-8(65)	117,135	109,487	101,839	94,191
L-12	130,016	122,368	114,720	107,072
LT-14(65)	132,834	125,186	117,538	109,890
L-6	148,130	140,482	132,834	125,186

PLEASE NOTE THAT THE ABOVE INFORMATION IS BASED ON THE PERSONNEL AND PAYROLL DATA SUBMITTED FOR THE ACTUARIAL VALUATION. IN BUDGETING AMOUNTS FOR LAGERS CONTRIBUTIONS YOU SHOULD CONSIDER ANY CHANGES WHICH HAVE BEEN MADE SINCE DATA WAS SUBMITTED FOR THE VALUATION AND ANY CHANGES ANTICIPATED TO BE MADE BEFORE THE END OF THE PERIOD FOR WHICH YOU ARE PREPARING THE BUDGET.

City of Warson Woods

Employees and Payroll Included in the Valuation

	General	Police
Number of Employees	2	6
Annual Payroll	\$ 121,706	\$ 402,527

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

APPENDIX I

UNFUNDED ACTUARIAL ACCRUED LIABILITY

Unfunded Actuarial Accrued Liability (UAAL)

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

The policy of the LAGERS Board of Trustees provides that unfunded liabilities are to be paid for by level percent of payroll contributions over a period of 30 years. The contribution rates shown on pages 4 through 7 as the "Prior Service Cost Rate" are designed to pay for the applicable unfunded actuarial accrued liability. This procedure will allow your political subdivision to retire the unfunded actuarial accrued liability in an orderly fashion over a period of years without the need for an immediate large payment upon joining the System.

Should the governing body elect to grant credit for 100% of the employees' prior service, the unfunded actuarial accrued liability as of the date of this valuation would be as follows:

City of Warson Woods

Regular Retirement Eligibility

Benefit Group	Employee Group	Member Contribution Rate - 0%	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 48,030	\$ 49,634
	Police	608,090	627,627
L-3	General	60,035	62,034
	Police	760,085	784,536
LT-4(65)	General	53,279	55,048
	Police	645,054	665,866
LT-5(65)	General	63,965	66,099
	Police	787,817	813,216
L-7	General	72,060	74,430
	Police	912,116	941,442
LT-8(65)	General	74,674	77,132
	Police	930,605	960,561
L-12	General	84,057	86,843
	Police	1,064,141	1,098,361
LT-14(65)	General	85,370	88,207
	Police	1,073,374	1,107,907
L-6	General	96,071	99,247
	Police	1,216,152	1,255,270

City of Warson Woods

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	\$ 48,481	\$ 50,077
	Police	608,090	627,627
L-3	General	60,585	62,605
	Police	760,085	784,536
LT-4(65)	General	54,320	56,121
	Police	645,054	665,866
LT-5(65)	General	64,967	67,130
	Police	787,817	813,216
L-7	General	72,694	75,118
	Police	912,116	941,442
LT-8(65)	General	75,613	78,135
	Police	930,605	960,561
L-12	General	84,830	87,639
	Police	1,064,141	1,098,361
LT-14(65)	General	86,288	89,148
	Police	1,073,374	1,107,907
L-6	General	96,927	100,159
	Police	1,216,152	1,255,270

APPENDIX II

SUMMARY OF FINANCIAL ASSUMPTIONS

Summary of Assumptions Used in Actuarial Valuations

Assumptions Adopted by Board of Trustees After Consulting With Actuary

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

Schedule 1.

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

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

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

Schedule 2.

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

Early Retirement

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

Normal Retirement

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

Schedule 2. (Concluded)

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

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

APPENDIX III

SUMMARY OF LAGERS PROVISIONS

Missouri Local Government Employees Retirement System

Brief Summary of LAGERS

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

(Section references are to RSMo)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX IV

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	\$ 1,003	\$1,528	102%
2,000	700	1,145	1,845	92%
2,500	875	1,285	2,160	86%
3,000	1,050	1,426	2,476	83%
3,500	1,225	1,567	2,792	80%
4,000	1,400	1,707	3,107	78%
25 Years of Service:				
\$1,500	\$ 375	\$ 1,003	\$1,378	92%
2,000	500	1,145	1,645	82%
2,500	625	1,285	1,910	76%
3,000	750	1,426	2,176	73%
3,500	875	1,567	2,442	70%
4,000	1,000	1,707	2,707	68%
15 Years of Service:				
\$1,500	\$225	\$ 1,003	\$1,228	82%
2,000	300	1,145	1,445	72%
2,500	375	1,285	1,660	66%
3,000	450	1,426	1,876	63%
3,500	525	1,567	2,092	60%
4,000	600	1,707	2,307	58%

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 2023 - 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	\$ 1,003	\$1,659	111%
2,000	875	1,145	2,020	101%
2,500	1,094	1,285	2,379	95%
3,000	1,313	1,426	2,739	91%
3,500	1,531	1,567	3,098	89%
4,000	1,750	1,707	3,457	86%
25 Years of Service:				
\$1,500	\$ 469	\$ 1,003	\$1,472	98%
2,000	625	1,145	1,770	89%
2,500	781	1,285	2,066	83%
3,000	938	1,426	2,364	79%
3,500	1,094	1,567	2,661	76%
4,000	1,250	1,707	2,957	74%
15 Years of Service:				
\$1,500	\$281	\$ 1,003	\$1,284	86%
2,000	375	1,145	1,520	76%
2,500	469	1,285	1,754	70%
3,000	563	1,426	1,989	66%
3,500	656	1,567	2,223	64%
4,000	750	1,707	2,457	61%

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 2023 - 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	\$ 1,003	\$1,791	119%
2,000	1,050	1,145	2,195	110%
2,500	1,313	1,285	2,598	104%
3,000	1,575	1,426	3,001	100%
3,500	1,838	1,567	3,405	97%
4,000	2,100	1,707	3,807	95%
25 Years of Service:				
\$1,500	\$ 563	\$ 1,003	\$1,566	104%
2,000	750	1,145	1,895	95%
2,500	938	1,285	2,223	89%
3,000	1,125	1,426	2,551	85%
3,500	1,313	1,567	2,880	82%
4,000	1,500	1,707	3,207	80%
15 Years of Service:				
\$1,500	\$338	\$ 1,003	\$1,341	89%
2,000	450	1,145	1,595	80%
2,500	563	1,285	1,848	74%
3,000	675	1,426	2,101	70%
3,500	788	1,567	2,355	67%
4,000	900	1,707	2,607	65%

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 2023 - 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	\$ 1,003	\$1,922	128%
2,000	1,225	1,145	2,370	119%
2,500	1,531	1,285	2,816	113%
3,000	1,838	1,426	3,264	109%
3,500	2,144	1,567	3,711	106%
4,000	2,450	1,707	4,157	104%
25 Years of Service:				
\$1,500	\$ 656	\$ 1,003	\$1,659	111%
2,000	875	1,145	2,020	101%
2,500	1,094	1,285	2,379	95%
3,000	1,313	1,426	2,739	91%
3,500	1,531	1,567	3,098	89%
4,000	1,750	1,707	3,457	86%
15 Years of Service:				
\$1,500	\$ 394	\$ 1,003	\$1,397	93%
2,000	525	1,145	1,670	84%
2,500	656	1,285	1,941	78%
3,000	788	1,426	2,214	74%
3,500	919	1,567	2,486	71%
4,000	1,050	1,707	2,757	69%

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 2023 - 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	\$ 1,003	\$2,053	137%
2,000	1,400	1,145	2,545	127%
2,500	1,750	1,285	3,035	121%
3,000	2,100	1,426	3,526	118%
3,500	2,450	1,567	4,017	115%
4,000	2,800	1,707	4,507	113%
25 Years of Service:				
\$1,500	\$ 750	\$ 1,003	\$1,753	117%
2,000	1,000	1,145	2,145	107%
2,500	1,250	1,285	2,535	101%
3,000	1,500	1,426	2,926	98%
3,500	1,750	1,567	3,317	95%
4,000	2,000	1,707	3,707	93%
15 Years of Service:				
\$1,500	\$ 450	\$ 1,003	\$1,453	97%
2,000	600	1,145	1,745	87%
2,500	750	1,285	2,035	81%
3,000	900	1,426	2,326	78%
3,500	1,050	1,567	2,617	75%
4,000	1,200	1,707	2,907	73%

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 2023 - 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	\$ 1,003	\$1,050	\$1,528	70%	102%
2,000	1,400	700	1,145	1,400	1,845	70%	92%
2,500	1,750	875	1,285	1,750	2,160	70%	86%
3,000	2,100	1,050	1,426	2,100	2,476	70%	83%
3,500	2,450	1,225	1,567	2,450	2,792	70%	80%
4,000	2,800	1,400	1,707	2,800	3,107	70%	78%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 1,003	\$ 750	\$1,378	50%	92%
2,000	1,000	500	1,145	1,000	1,645	50%	82%
2,500	1,250	625	1,285	1,250	1,910	50%	76%
3,000	1,500	750	1,426	1,500	2,176	50%	73%
3,500	1,750	875	1,567	1,750	2,442	50%	70%
4,000	2,000	1,000	1,707	2,000	2,707	50%	68%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 1,003	\$ 450	\$1,228	30%	82%
2,000	600	300	1,145	600	1,445	30%	72%
2,500	750	375	1,285	750	1,660	30%	66%
3,000	900	450	1,426	900	1,876	30%	63%
3,500	1,050	525	1,567	1,050	2,092	30%	60%
4,000	1,200	600	1,707	1,200	2,307	30%	58%

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 2023 - 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	\$ 1,003	\$1,050	\$1,659	70%	111%
2,000	1,400	875	1,145	1,400	2,020	70%	101%
2,500	1,750	1,094	1,285	1,750	2,379	70%	95%
3,000	2,100	1,313	1,426	2,100	2,739	70%	91%
3,500	2,450	1,531	1,567	2,450	3,098	70%	89%
4,000	2,800	1,750	1,707	2,800	3,457	70%	86%
25 Years of Service:							
\$1,500	\$ 750	\$ 469	\$ 1,003	\$ 750	\$1,472	50%	98%
2,000	1,000	625	1,145	1,000	1,770	50%	89%
2,500	1,250	781	1,285	1,250	2,066	50%	83%
3,000	1,500	938	1,426	1,500	2,364	50%	79%
3,500	1,750	1,094	1,567	1,750	2,661	50%	76%
4,000	2,000	1,250	1,707	2,000	2,957	50%	74%
15 Years of Service:							
\$1,500	\$ 450	\$281	\$ 1,003	\$ 450	\$1,284	30%	86%
2,000	600	375	1,145	600	1,520	30%	76%
2,500	750	469	1,285	750	1,754	30%	70%
3,000	900	563	1,426	900	1,989	30%	66%
3,500	1,050	656	1,567	1,050	2,223	30%	64%
4,000	1,200	750	1,707	1,200	2,457	30%	61%

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 2023 - 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	\$ 1,003	\$1,050	\$1,791	70%	119%
2,000	1,400	1,050	1,145	1,400	2,195	70%	110%
2,500	1,750	1,313	1,285	1,750	2,598	70%	104%
3,000	2,100	1,575	1,426	2,100	3,001	70%	100%
3,500	2,450	1,838	1,567	2,450	3,405	70%	97%
4,000	2,800	2,100	1,707	2,800	3,807	70%	95%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 1,003	\$ 750	\$1,566	50%	104%
2,000	1,000	750	1,145	1,000	1,895	50%	95%
2,500	1,250	938	1,285	1,250	2,223	50%	89%
3,000	1,500	1,125	1,426	1,500	2,551	50%	85%
3,500	1,750	1,313	1,567	1,750	2,880	50%	82%
4,000	2,000	1,500	1,707	2,000	3,207	50%	80%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 1,003	\$ 450	\$1,341	30%	89%
2,000	600	450	1,145	600	1,595	30%	80%
2,500	750	563	1,285	750	1,848	30%	74%
3,000	900	675	1,426	900	2,101	30%	70%
3,500	1,050	788	1,567	1,050	2,355	30%	67%
4,000	1,200	900	1,707	1,200	2,607	30%	65%

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 2023 - 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	\$ 1,003	\$1,050	\$1,922	70%	128%
2,000	1,400	1,225	1,145	1,400	2,370	70%	119%
2,500	1,750	1,531	1,285	1,750	2,816	70%	113%
3,000	2,100	1,838	1,426	2,100	3,264	70%	109%
3,500	2,450	2,144	1,567	2,450	3,711	70%	106%
4,000	2,800	2,450	1,707	2,800	4,157	70%	104%
25 Years of Service:							
\$1,500	\$ 750	\$ 656	\$ 1,003	\$ 750	\$1,659	50%	111%
2,000	1,000	875	1,145	1,000	2,020	50%	101%
2,500	1,250	1,094	1,285	1,250	2,379	50%	95%
3,000	1,500	1,313	1,426	1,500	2,739	50%	91%
3,500	1,750	1,531	1,567	1,750	3,098	50%	89%
4,000	2,000	1,750	1,707	2,000	3,457	50%	86%
15 Years of Service:							
\$1,500	\$ 450	\$ 394	\$ 1,003	\$ 450	\$1,397	30%	93%
2,000	600	525	1,145	600	1,670	30%	84%
2,500	750	656	1,285	750	1,941	30%	78%
3,000	900	788	1,426	900	2,214	30%	74%
3,500	1,050	919	1,567	1,050	2,486	30%	71%
4,000	1,200	1,050	1,707	1,200	2,757	30%	69%

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 2023 - it does not include any amounts which might be payable to an eligible spouse or children.

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

APPENDIX V

AGE AND SERVICE CHARACTERISTICS OF EMPLOYEES

City of Warson Woods - General

December 31, 2023

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29	1							1	\$ 65,000
30-34									
35-39									
40-44									
45-49									
50-54									
55-59		1						1	\$ 56,706
60-64									
65-69									
70 & Over									
Totals	1	1						2	\$ 121,706

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

Age: 44.1 years.

Benefit Service: 3.6 years.

Annual Pay: \$60,853.

City of Warson Woods - Police

December 31, 2023

By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
Under 20									
20-24									
25-29									
30-34									
35-39									
40-44									
45-49		1						1	\$ 60,741
50-54	1							1	\$ 54,949
55-59	1		2					3	\$ 188,189
60-64									
65-69							1	1	\$ 98,648
70 & Over									
Totals	2	1	2				1	6	\$ 402,527

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

Age: 56.7 years.

Benefit Service: 11.7 years.

Annual Pay: \$67,088.

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 1, 2024 E-mail

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

Dear Mr. Betts:

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

City of Warson Woods

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 1, 2024

City of Warson Woods
St. Louis, Missouri

Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.665 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the December 31, 2023 Initial Valuation for the City of Warson Woods dated March 1, 2024.

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

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

Respectfully submitted,
Gabriel, Roeder, Smith & Company

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

Mita D. Drazilov, ASA, FCA, MAAA

City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.0%	\$10,954	\$ 48,030	11.1%	\$13,509	\$ 60,035	10.0%	\$12,171	\$ 53,279
2024	125,053	9.0	11,255	48,491	11.1	13,881	60,611	10.0	12,505	53,790
2025	128,492	9.0	11,564	48,904	11.1	14,263	61,127	10.0	12,849	54,248
2026	132,026	9.0	11,882	49,264	11.1	14,655	61,577	10.0	13,203	54,647
2027	135,657	9.0	12,209	49,565	11.1	15,058	61,953	10.0	13,566	54,981
2028	139,388	9.0	12,545	49,801	11.1	15,472	62,248	10.0	13,939	55,242
2029	143,221	9.0	12,890	49,964	11.1	15,898	62,452	10.0	14,322	55,423
2030	147,160	9.0	13,244	50,047	11.1	16,335	62,556	10.0	14,716	55,515
2031	151,207	9.0	13,609	50,042	11.1	16,784	62,550	10.0	15,121	55,510
2032	155,365	9.0	13,983	49,940	11.1	17,246	62,423	10.0	15,537	55,397

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	11.8%	\$14,361	\$ 63,965	13.2%	\$16,065	\$ 72,060	13.6%	\$16,552	\$ 74,674
2024	125,053	11.8	14,756	64,579	13.2	16,507	72,751	13.6	17,007	75,390
2025	128,492	11.8	15,162	65,129	13.2	16,961	73,371	13.6	17,475	76,032
2026	132,026	11.8	15,579	65,609	13.2	17,427	73,911	13.6	17,956	76,592
2027	135,657	11.8	16,008	66,010	13.2	17,907	74,363	13.6	18,449	77,060
2028	139,388	11.8	16,448	66,324	13.2	18,399	74,717	13.6	18,957	77,426
2029	143,221	11.8	16,900	66,541	13.2	18,905	74,962	13.6	19,478	77,680
2030	147,160	11.8	17,365	66,652	13.2	19,425	75,087	13.6	20,014	77,809
2031	151,207	11.8	17,842	66,646	13.2	19,959	75,080	13.6	20,564	77,802
2032	155,365	11.8	18,333	66,511	13.2	20,508	74,928	13.6	21,130	77,644

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	15.2%	\$18,499	\$ 84,057	15.4%	\$18,743	\$ 85,370	17.3%	\$21,055	\$ 96,071
2024	125,053	15.2	19,008	84,863	15.4	19,258	86,189	17.3	21,634	96,993
2025	128,492	15.2	19,531	85,586	15.4	19,788	86,923	17.3	22,229	97,819
2026	132,026	15.2	20,068	86,216	15.4	20,332	87,563	17.3	22,840	98,539
2027	135,657	15.2	20,620	86,743	15.4	20,891	88,098	17.3	23,469	99,141
2028	139,388	15.2	21,187	87,155	15.4	21,466	88,517	17.3	24,114	99,612
2029	143,221	15.2	21,770	87,441	15.4	22,056	88,807	17.3	24,777	99,938
2030	147,160	15.2	22,368	87,587	15.4	22,663	88,955	17.3	25,459	100,105
2031	151,207	15.2	22,983	87,579	15.4	23,286	88,946	17.3	26,159	100,095
2032	155,365	15.2	23,615	87,401	15.4	23,926	88,765	17.3	26,878	99,892

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	7.1%	\$8,641	\$ 48,030	9.2%	\$11,197	\$ 60,035	8.1%	\$9,858	\$ 53,279
2024	125,053	7.1	8,879	48,491	9.2	11,505	60,611	8.1	10,129	53,790
2025	128,492	7.1	9,123	48,904	9.2	11,821	61,127	8.1	10,408	54,248
2026	132,026	7.1	9,374	49,264	9.2	12,146	61,577	8.1	10,694	54,647
2027	135,657	7.1	9,632	49,565	9.2	12,480	61,953	8.1	10,988	54,981
2028	139,388	7.1	9,897	49,801	9.2	12,824	62,248	8.1	11,290	55,242
2029	143,221	7.1	10,169	49,964	9.2	13,176	62,452	8.1	11,601	55,423
2030	147,160	7.1	10,448	50,047	9.2	13,539	62,556	8.1	11,920	55,515
2031	151,207	7.1	10,736	50,042	9.2	13,911	62,550	8.1	12,248	55,510
2032	155,365	7.1	11,031	49,940	9.2	14,294	62,423	8.1	12,585	55,397

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.9%	\$12,049	\$ 63,965	11.3%	\$13,753	\$ 72,060	11.7%	\$14,240	\$ 74,674
2024	125,053	9.9	12,380	64,579	11.3	14,131	72,751	11.7	14,631	75,390
2025	128,492	9.9	12,721	65,129	11.3	14,520	73,371	11.7	15,034	76,032
2026	132,026	9.9	13,071	65,609	11.3	14,919	73,911	11.7	15,447	76,592
2027	135,657	9.9	13,430	66,010	11.3	15,329	74,363	11.7	15,872	77,060
2028	139,388	9.9	13,799	66,324	11.3	15,751	74,717	11.7	16,308	77,426
2029	143,221	9.9	14,179	66,541	11.3	16,184	74,962	11.7	16,757	77,680
2030	147,160	9.9	14,569	66,652	11.3	16,629	75,087	11.7	17,218	77,809
2031	151,207	9.9	14,969	66,646	11.3	17,086	75,080	11.7	17,691	77,802
2032	155,365	9.9	15,381	66,511	11.3	17,556	74,928	11.7	18,178	77,644

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	13.3%	\$16,187	\$ 84,057	13.5%	\$16,430	\$ 85,370	15.4%	\$18,743	\$ 96,071
2024	125,053	13.3	16,632	84,863	13.5	16,882	86,189	15.4	19,258	96,993
2025	128,492	13.3	17,089	85,586	13.5	17,346	86,923	15.4	19,788	97,819
2026	132,026	13.3	17,559	86,216	13.5	17,824	87,563	15.4	20,332	98,539
2027	135,657	13.3	18,042	86,743	13.5	18,314	88,098	15.4	20,891	99,141
2028	139,388	13.3	18,539	87,155	13.5	18,817	88,517	15.4	21,466	99,612
2029	143,221	13.3	19,048	87,441	13.5	19,335	88,807	15.4	22,056	99,938
2030	147,160	13.3	19,572	87,587	13.5	19,867	88,955	15.4	22,663	100,105
2031	151,207	13.3	20,111	87,579	13.5	20,413	88,946	15.4	23,286	100,095
2032	155,365	13.3	20,664	87,401	13.5	20,974	88,765	15.4	23,926	99,892

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	5.2%	\$6,329	\$ 48,030	7.3%	\$8,885	\$ 60,035	6.2%	\$7,546	\$ 53,279
2024	125,053	5.2	6,503	48,491	7.3	9,129	60,611	6.2	7,753	53,790
2025	128,492	5.2	6,682	48,904	7.3	9,380	61,127	6.2	7,967	54,248
2026	132,026	5.2	6,865	49,264	7.3	9,638	61,577	6.2	8,186	54,647
2027	135,657	5.2	7,054	49,565	7.3	9,903	61,953	6.2	8,411	54,981
2028	139,388	5.2	7,248	49,801	7.3	10,175	62,248	6.2	8,642	55,242
2029	143,221	5.2	7,447	49,964	7.3	10,455	62,452	6.2	8,880	55,423
2030	147,160	5.2	7,652	50,047	7.3	10,743	62,556	6.2	9,124	55,515
2031	151,207	5.2	7,863	50,042	7.3	11,038	62,550	6.2	9,375	55,510
2032	155,365	5.2	8,079	49,940	7.3	11,342	62,423	6.2	9,633	55,397

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	8.0%	\$9,736	\$ 63,965	9.4%	\$11,440	\$ 72,060	9.8%	\$11,927	\$ 74,674
2024	125,053	8.0	10,004	64,579	9.4	11,755	72,751	9.8	12,255	75,390
2025	128,492	8.0	10,279	65,129	9.4	12,078	73,371	9.8	12,592	76,032
2026	132,026	8.0	10,562	65,609	9.4	12,410	73,911	9.8	12,939	76,592
2027	135,657	8.0	10,853	66,010	9.4	12,752	74,363	9.8	13,294	77,060
2028	139,388	8.0	11,151	66,324	9.4	13,102	74,717	9.8	13,660	77,426
2029	143,221	8.0	11,458	66,541	9.4	13,463	74,962	9.8	14,036	77,680
2030	147,160	8.0	11,773	66,652	9.4	13,833	75,087	9.8	14,422	77,809
2031	151,207	8.0	12,097	66,646	9.4	14,213	75,080	9.8	14,818	77,802
2032	155,365	8.0	12,429	66,511	9.4	14,604	74,928	9.8	15,226	77,644

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	11.4%	\$13,874	\$ 84,057	11.6%	\$14,118	\$ 85,370	13.5%	\$16,430	\$ 96,071
2024	125,053	11.4	14,256	84,863	11.6	14,506	86,189	13.5	16,882	96,993
2025	128,492	11.4	14,648	85,586	11.6	14,905	86,923	13.5	17,346	97,819
2026	132,026	11.4	15,051	86,216	11.6	15,315	87,563	13.5	17,824	98,539
2027	135,657	11.4	15,465	86,743	11.6	15,736	88,098	13.5	18,314	99,141
2028	139,388	11.4	15,890	87,155	11.6	16,169	88,517	13.5	18,817	99,612
2029	143,221	11.4	16,327	87,441	11.6	16,614	88,807	13.5	19,335	99,938
2030	147,160	11.4	16,776	87,587	11.6	17,071	88,955	13.5	19,867	100,105
2031	151,207	11.4	17,238	87,579	11.6	17,540	88,946	13.5	20,413	100,095
2032	155,365	11.4	17,712	87,401	11.6	18,022	88,765	13.5	20,974	99,892

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	3.3%	\$4,016	\$ 48,030	5.4%	\$6,572	\$ 60,035	4.3%	\$5,233	\$ 53,279
2024	125,053	3.3	4,127	48,491	5.4	6,753	60,611	4.3	5,377	53,790
2025	128,492	3.3	4,240	48,904	5.4	6,939	61,127	4.3	5,525	54,248
2026	132,026	3.3	4,357	49,264	5.4	7,129	61,577	4.3	5,677	54,647
2027	135,657	3.3	4,477	49,565	5.4	7,325	61,953	4.3	5,833	54,981
2028	139,388	3.3	4,600	49,801	5.4	7,527	62,248	4.3	5,994	55,242
2029	143,221	3.3	4,726	49,964	5.4	7,734	62,452	4.3	6,159	55,423
2030	147,160	3.3	4,856	50,047	5.4	7,947	62,556	4.3	6,328	55,515
2031	151,207	3.3	4,990	50,042	5.4	8,165	62,550	4.3	6,502	55,510
2032	155,365	3.3	5,127	49,940	5.4	8,390	62,423	4.3	6,681	55,397

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	6.1%	\$7,424	\$ 63,965	7.5%	\$9,128	\$ 72,060	7.9%	\$9,615	\$ 74,674
2024	125,053	6.1	7,628	64,579	7.5	9,379	72,751	7.9	9,879	75,390
2025	128,492	6.1	7,838	65,129	7.5	9,637	73,371	7.9	10,151	76,032
2026	132,026	6.1	8,054	65,609	7.5	9,902	73,911	7.9	10,430	76,592
2027	135,657	6.1	8,275	66,010	7.5	10,174	74,363	7.9	10,717	77,060
2028	139,388	6.1	8,503	66,324	7.5	10,454	74,717	7.9	11,012	77,426
2029	143,221	6.1	8,736	66,541	7.5	10,742	74,962	7.9	11,314	77,680
2030	147,160	6.1	8,977	66,652	7.5	11,037	75,087	7.9	11,626	77,809
2031	151,207	6.1	9,224	66,646	7.5	11,341	75,080	7.9	11,945	77,802
2032	155,365	6.1	9,477	66,511	7.5	11,652	74,928	7.9	12,274	77,644

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.5%	\$11,562	\$ 84,057	9.7%	\$11,805	\$ 85,370	11.6%	\$14,118	\$ 96,071
2024	125,053	9.5	11,880	84,863	9.7	12,130	86,189	11.6	14,506	96,993
2025	128,492	9.5	12,207	85,586	9.7	12,464	86,923	11.6	14,905	97,819
2026	132,026	9.5	12,542	86,216	9.7	12,807	87,563	11.6	15,315	98,539
2027	135,657	9.5	12,887	86,743	9.7	13,159	88,098	11.6	15,736	99,141
2028	139,388	9.5	13,242	87,155	9.7	13,521	88,517	11.6	16,169	99,612
2029	143,221	9.5	13,606	87,441	9.7	13,892	88,807	11.6	16,614	99,938
2030	147,160	9.5	13,980	87,587	9.7	14,275	88,955	11.6	17,071	100,105
2031	151,207	9.5	14,365	87,579	9.7	14,667	88,946	11.6	17,540	100,095
2032	155,365	9.5	14,760	87,401	9.7	15,070	88,765	11.6	18,022	99,892

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.3%	\$11,319	\$ 49,634	11.5%	\$13,996	\$ 62,034	10.2%	\$12,414	\$ 55,048
2024	125,053	9.3	11,630	50,110	11.5	14,381	62,629	10.2	12,755	55,576
2025	128,492	9.3	11,950	50,537	11.5	14,777	63,163	10.2	13,106	56,050
2026	132,026	9.3	12,278	50,909	11.5	15,183	63,628	10.2	13,467	56,463
2027	135,657	9.3	12,616	51,220	11.5	15,601	64,017	10.2	13,837	56,808
2028	139,388	9.3	12,963	51,464	11.5	16,030	64,321	10.2	14,218	57,078
2029	143,221	9.3	13,320	51,633	11.5	16,470	64,532	10.2	14,609	57,265
2030	147,160	9.3	13,686	51,719	11.5	16,923	64,640	10.2	15,010	57,360
2031	151,207	9.3	14,062	51,714	11.5	17,389	64,634	10.2	15,423	57,354
2032	155,365	9.3	14,449	51,609	11.5	17,867	64,503	10.2	15,847	57,238

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	12.2%	\$14,848	\$ 66,099	13.5%	\$16,430	\$ 74,430	14.0%	\$17,039	\$ 77,132
2024	125,053	12.2	15,256	66,733	13.5	16,882	75,144	14.0	17,507	77,872
2025	128,492	12.2	15,676	67,302	13.5	17,346	75,784	14.0	17,989	78,536
2026	132,026	12.2	16,107	67,798	13.5	17,824	76,342	14.0	18,484	79,114
2027	135,657	12.2	16,550	68,212	13.5	18,314	76,809	14.0	18,992	79,598
2028	139,388	12.2	17,005	68,536	13.5	18,817	77,174	14.0	19,514	79,976
2029	143,221	12.2	17,473	68,761	13.5	19,335	77,427	14.0	20,051	80,238
2030	147,160	12.2	17,954	68,876	13.5	19,867	77,556	14.0	20,602	80,372
2031	151,207	12.2	18,447	68,869	13.5	20,413	77,549	14.0	21,169	80,364
2032	155,365	12.2	18,955	68,729	13.5	20,974	77,392	14.0	21,751	80,201

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	15.7%	\$19,108	\$ 86,843	15.9%	\$19,351	\$ 88,207	17.9%	\$21,785	\$ 99,247
2024	125,053	15.7	19,633	87,676	15.9	19,883	89,053	17.9	22,384	100,199
2025	128,492	15.7	20,173	88,423	15.9	20,430	89,812	17.9	23,000	101,053
2026	132,026	15.7	20,728	89,074	15.9	20,992	90,473	17.9	23,633	101,797
2027	135,657	15.7	21,298	89,618	15.9	21,569	91,026	17.9	24,283	102,419
2028	139,388	15.7	21,884	90,044	15.9	22,163	91,459	17.9	24,950	102,906
2029	143,221	15.7	22,486	90,339	15.9	22,772	91,759	17.9	25,637	103,243
2030	147,160	15.7	23,104	90,490	15.9	23,398	91,912	17.9	26,342	103,415
2031	151,207	15.7	23,739	90,481	15.9	24,042	91,903	17.9	27,066	103,405
2032	155,365	15.7	24,392	90,297	15.9	24,703	91,716	17.9	27,810	103,195

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	7.4%	\$9,006	\$ 49,634	9.6%	\$11,684	\$ 62,034	8.3%	\$10,102	\$ 55,048
2024	125,053	7.4	9,254	50,110	9.6	12,005	62,629	8.3	10,379	55,576
2025	128,492	7.4	9,508	50,537	9.6	12,335	63,163	8.3	10,665	56,050
2026	132,026	7.4	9,770	50,909	9.6	12,674	63,628	8.3	10,958	56,463
2027	135,657	7.4	10,039	51,220	9.6	13,023	64,017	8.3	11,260	56,808
2028	139,388	7.4	10,315	51,464	9.6	13,381	64,321	8.3	11,569	57,078
2029	143,221	7.4	10,598	51,633	9.6	13,749	64,532	8.3	11,887	57,265
2030	147,160	7.4	10,890	51,719	9.6	14,127	64,640	8.3	12,214	57,360
2031	151,207	7.4	11,189	51,714	9.6	14,516	64,634	8.3	12,550	57,354
2032	155,365	7.4	11,497	51,609	9.6	14,915	64,503	8.3	12,895	57,238

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	10.3%	\$12,536	\$ 66,099	11.6%	\$14,118	\$ 74,430	12.1%	\$14,726	\$ 77,132
2024	125,053	10.3	12,880	66,733	11.6	14,506	75,144	12.1	15,131	77,872
2025	128,492	10.3	13,235	67,302	11.6	14,905	75,784	12.1	15,548	78,536
2026	132,026	10.3	13,599	67,798	11.6	15,315	76,342	12.1	15,975	79,114
2027	135,657	10.3	13,973	68,212	11.6	15,736	76,809	12.1	16,414	79,598
2028	139,388	10.3	14,357	68,536	11.6	16,169	77,174	12.1	16,866	79,976
2029	143,221	10.3	14,752	68,761	11.6	16,614	77,427	12.1	17,330	80,238
2030	147,160	10.3	15,157	68,876	11.6	17,071	77,556	12.1	17,806	80,372
2031	151,207	10.3	15,574	68,869	11.6	17,540	77,549	12.1	18,296	80,364
2032	155,365	10.3	16,003	68,729	11.6	18,022	77,392	12.1	18,799	80,201

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	13.8%	\$16,795	\$ 86,843	14.0%	\$17,039	\$ 88,207	16.0%	\$19,473	\$ 99,247
2024	125,053	13.8	17,257	87,676	14.0	17,507	89,053	16.0	20,008	100,199
2025	128,492	13.8	17,732	88,423	14.0	17,989	89,812	16.0	20,559	101,053
2026	132,026	13.8	18,220	89,074	14.0	18,484	90,473	16.0	21,124	101,797
2027	135,657	13.8	18,721	89,618	14.0	18,992	91,026	16.0	21,705	102,419
2028	139,388	13.8	19,236	90,044	14.0	19,514	91,459	16.0	22,302	102,906
2029	143,221	13.8	19,764	90,339	14.0	20,051	91,759	16.0	22,915	103,243
2030	147,160	13.8	20,308	90,490	14.0	20,602	91,912	16.0	23,546	103,415
2031	151,207	13.8	20,867	90,481	14.0	21,169	91,903	16.0	24,193	103,405
2032	155,365	13.8	21,440	90,297	14.0	21,751	91,716	16.0	24,858	103,195

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	5.5%	\$6,694	\$ 49,634	7.7%	\$9,371	\$ 62,034	6.4%	\$7,789	\$ 55,048
2024	125,053	5.5	6,878	50,110	7.7	9,629	62,629	6.4	8,003	55,576
2025	128,492	5.5	7,067	50,537	7.7	9,894	63,163	6.4	8,223	56,050
2026	132,026	5.5	7,261	50,909	7.7	10,166	63,628	6.4	8,450	56,463
2027	135,657	5.5	7,461	51,220	7.7	10,446	64,017	6.4	8,682	56,808
2028	139,388	5.5	7,666	51,464	7.7	10,733	64,321	6.4	8,921	57,078
2029	143,221	5.5	7,877	51,633	7.7	11,028	64,532	6.4	9,166	57,265
2030	147,160	5.5	8,094	51,719	7.7	11,331	64,640	6.4	9,418	57,360
2031	151,207	5.5	8,316	51,714	7.7	11,643	64,634	6.4	9,677	57,354
2032	155,365	5.5	8,545	51,609	7.7	11,963	64,503	6.4	9,943	57,238

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	8.4%	\$10,223	\$ 66,099	9.7%	\$11,805	\$ 74,430	10.2%	\$12,414	\$ 77,132
2024	125,053	8.4	10,504	66,733	9.7	12,130	75,144	10.2	12,755	77,872
2025	128,492	8.4	10,793	67,302	9.7	12,464	75,784	10.2	13,106	78,536
2026	132,026	8.4	11,090	67,798	9.7	12,807	76,342	10.2	13,467	79,114
2027	135,657	8.4	11,395	68,212	9.7	13,159	76,809	10.2	13,837	79,598
2028	139,388	8.4	11,709	68,536	9.7	13,521	77,174	10.2	14,218	79,976
2029	143,221	8.4	12,031	68,761	9.7	13,892	77,427	10.2	14,609	80,238
2030	147,160	8.4	12,361	68,876	9.7	14,275	77,556	10.2	15,010	80,372
2031	151,207	8.4	12,701	68,869	9.7	14,667	77,549	10.2	15,423	80,364
2032	155,365	8.4	13,051	68,729	9.7	15,070	77,392	10.2	15,847	80,201

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	11.9%	\$14,483	\$ 86,843	12.1%	\$14,726	\$ 88,207	14.1%	\$17,161	\$ 99,247
2024	125,053	11.9	14,881	87,676	12.1	15,131	89,053	14.1	17,632	100,199
2025	128,492	11.9	15,291	88,423	12.1	15,548	89,812	14.1	18,117	101,053
2026	132,026	11.9	15,711	89,074	12.1	15,975	90,473	14.1	18,616	101,797
2027	135,657	11.9	16,143	89,618	12.1	16,414	91,026	14.1	19,128	102,419
2028	139,388	11.9	16,587	90,044	12.1	16,866	91,459	14.1	19,654	102,906
2029	143,221	11.9	17,043	90,339	12.1	17,330	91,759	14.1	20,194	103,243
2030	147,160	11.9	17,512	90,490	12.1	17,806	91,912	14.1	20,750	103,415
2031	151,207	11.9	17,994	90,481	12.1	18,296	91,903	14.1	21,320	103,405
2032	155,365	11.9	18,488	90,297	12.1	18,799	91,716	14.1	21,906	103,195

Notes regarding the above projections:

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



City of Warson Woods - General

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	3.6%	\$4,381	\$ 49,634	5.8%	\$7,059	\$ 62,034	4.5%	\$5,477	\$ 55,048
2024	125,053	3.6	4,502	50,110	5.8	7,253	62,629	4.5	5,627	55,576
2025	128,492	3.6	4,626	50,537	5.8	7,453	63,163	4.5	5,782	56,050
2026	132,026	3.6	4,753	50,909	5.8	7,658	63,628	4.5	5,941	56,463
2027	135,657	3.6	4,884	51,220	5.8	7,868	64,017	4.5	6,105	56,808
2028	139,388	3.6	5,018	51,464	5.8	8,085	64,321	4.5	6,272	57,078
2029	143,221	3.6	5,156	51,633	5.8	8,307	64,532	4.5	6,445	57,265
2030	147,160	3.6	5,298	51,719	5.8	8,535	64,640	4.5	6,622	57,360
2031	151,207	3.6	5,443	51,714	5.8	8,770	64,634	4.5	6,804	57,354
2032	155,365	3.6	5,593	51,609	5.8	9,011	64,503	4.5	6,991	57,238

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	6.5%	\$7,911	\$ 66,099	7.8%	\$9,493	\$ 74,430	8.3%	\$10,102	\$ 77,132
2024	125,053	6.5	8,128	66,733	7.8	9,754	75,144	8.3	10,379	77,872
2025	128,492	6.5	8,352	67,302	7.8	10,022	75,784	8.3	10,665	78,536
2026	132,026	6.5	8,582	67,798	7.8	10,298	76,342	8.3	10,958	79,114
2027	135,657	6.5	8,818	68,212	7.8	10,581	76,809	8.3	11,260	79,598
2028	139,388	6.5	9,060	68,536	7.8	10,872	77,174	8.3	11,569	79,976
2029	143,221	6.5	9,309	68,761	7.8	11,171	77,427	8.3	11,887	80,238
2030	147,160	6.5	9,565	68,876	7.8	11,478	77,556	8.3	12,214	80,372
2031	151,207	6.5	9,828	68,869	7.8	11,794	77,549	8.3	12,550	80,364
2032	155,365	6.5	10,099	68,729	7.8	12,118	77,392	8.3	12,895	80,201

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	10.0%	\$12,171	\$ 86,843	10.2%	\$12,414	\$ 88,207	12.2%	\$14,848	\$ 99,247
2024	125,053	10.0	12,505	87,676	10.2	12,755	89,053	12.2	15,256	100,199
2025	128,492	10.0	12,849	88,423	10.2	13,106	89,812	12.2	15,676	101,053
2026	132,026	10.0	13,203	89,074	10.2	13,467	90,473	12.2	16,107	101,797
2027	135,657	10.0	13,566	89,618	10.2	13,837	91,026	12.2	16,550	102,419
2028	139,388	10.0	13,939	90,044	10.2	14,218	91,459	12.2	17,005	102,906
2029	143,221	10.0	14,322	90,339	10.2	14,609	91,759	12.2	17,473	103,243
2030	147,160	10.0	14,716	90,490	10.2	15,010	91,912	12.2	17,954	103,415
2031	151,207	10.0	15,121	90,481	10.2	15,423	91,903	12.2	18,447	103,405
2032	155,365	10.0	15,537	90,297	10.2	15,847	91,716	12.2	18,955	103,195

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.3%	\$11,319	\$ 48,481	11.5%	\$13,996	\$ 60,585	10.7%	\$13,023	\$ 54,320
2024	125,053	9.3	11,630	48,946	11.5	14,381	61,166	10.7	13,381	54,841
2025	128,492	9.3	11,950	49,363	11.5	14,777	61,687	10.7	13,749	55,308
2026	132,026	9.3	12,278	49,727	11.5	15,183	62,141	10.7	14,127	55,715
2027	135,657	9.3	12,616	50,031	11.5	15,601	62,521	10.7	14,515	56,056
2028	139,388	9.3	12,963	50,269	11.5	16,030	62,818	10.7	14,915	56,322
2029	143,221	9.3	13,320	50,434	11.5	16,470	63,024	10.7	15,325	56,507
2030	147,160	9.3	13,686	50,518	11.5	16,923	63,129	10.7	15,746	56,601
2031	151,207	9.3	14,062	50,513	11.5	17,389	63,123	10.7	16,179	56,596
2032	155,365	9.3	14,449	50,410	11.5	17,867	62,995	10.7	16,624	56,481

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	12.5%	\$15,213	\$ 64,967	13.6%	\$16,552	\$ 72,694	14.2%	\$17,282	\$ 75,613
2024	125,053	12.5	15,632	65,590	13.6	17,007	73,391	14.2	17,758	76,338
2025	128,492	12.5	16,062	66,149	13.6	17,475	74,016	14.2	18,246	76,988
2026	132,026	12.5	16,503	66,636	13.6	17,956	74,561	14.2	18,748	77,555
2027	135,657	12.5	16,957	67,043	13.6	18,449	75,017	14.2	19,263	78,029
2028	139,388	12.5	17,424	67,362	13.6	18,957	75,374	14.2	19,793	78,400
2029	143,221	12.5	17,903	67,583	13.6	19,478	75,621	14.2	20,337	78,657
2030	147,160	12.5	18,395	67,696	13.6	20,014	75,747	14.2	20,897	78,788
2031	151,207	12.5	18,901	67,689	13.6	20,564	75,740	14.2	21,471	78,780
2032	155,365	12.5	19,421	67,552	13.6	21,130	75,586	14.2	22,062	78,620

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	15.8%	\$19,230	\$ 84,830	16.0%	\$19,473	\$ 86,288	17.9%	\$21,785	\$ 96,927
2024	125,053	15.8	19,758	85,644	16.0	20,008	87,116	17.9	22,384	97,857
2025	128,492	15.8	20,302	86,374	16.0	20,559	87,858	17.9	23,000	98,691
2026	132,026	15.8	20,860	87,010	16.0	21,124	88,505	17.9	23,633	99,418
2027	135,657	15.8	21,434	87,542	16.0	21,705	89,046	17.9	24,283	100,026
2028	139,388	15.8	22,023	87,958	16.0	22,302	89,469	17.9	24,950	100,502
2029	143,221	15.8	22,629	88,246	16.0	22,915	89,762	17.9	25,637	100,831
2030	147,160	15.8	23,251	88,393	16.0	23,546	89,912	17.9	26,342	100,999
2031	151,207	15.8	23,891	88,384	16.0	24,193	89,903	17.9	27,066	100,989
2032	155,365	15.8	24,548	88,205	16.0	24,858	89,720	17.9	27,810	100,784

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	7.4%	\$9,006	\$ 48,481	9.6%	\$11,684	\$ 60,585	8.8%	\$10,710	\$ 54,320
2024	125,053	7.4	9,254	48,946	9.6	12,005	61,166	8.8	11,005	54,841
2025	128,492	7.4	9,508	49,363	9.6	12,335	61,687	8.8	11,307	55,308
2026	132,026	7.4	9,770	49,727	9.6	12,674	62,141	8.8	11,618	55,715
2027	135,657	7.4	10,039	50,031	9.6	13,023	62,521	8.8	11,938	56,056
2028	139,388	7.4	10,315	50,269	9.6	13,381	62,818	8.8	12,266	56,322
2029	143,221	7.4	10,598	50,434	9.6	13,749	63,024	8.8	12,603	56,507
2030	147,160	7.4	10,890	50,518	9.6	14,127	63,129	8.8	12,950	56,601
2031	151,207	7.4	11,189	50,513	9.6	14,516	63,123	8.8	13,306	56,596
2032	155,365	7.4	11,497	50,410	9.6	14,915	62,995	8.8	13,672	56,481

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	10.6%	\$12,901	\$ 64,967	11.7%	\$14,240	\$ 72,694	12.3%	\$14,970	\$ 75,613
2024	125,053	10.6	13,256	65,590	11.7	14,631	73,391	12.3	15,382	76,338
2025	128,492	10.6	13,620	66,149	11.7	15,034	74,016	12.3	15,805	76,988
2026	132,026	10.6	13,995	66,636	11.7	15,447	74,561	12.3	16,239	77,555
2027	135,657	10.6	14,380	67,043	11.7	15,872	75,017	12.3	16,686	78,029
2028	139,388	10.6	14,775	67,362	11.7	16,308	75,374	12.3	17,145	78,400
2029	143,221	10.6	15,181	67,583	11.7	16,757	75,621	12.3	17,616	78,657
2030	147,160	10.6	15,599	67,696	11.7	17,218	75,747	12.3	18,101	78,788
2031	151,207	10.6	16,028	67,689	11.7	17,691	75,740	12.3	18,598	78,780
2032	155,365	10.6	16,469	67,552	11.7	18,178	75,586	12.3	19,110	78,620

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	13.9%	\$16,917	\$ 84,830	14.1%	\$17,161	\$ 86,288	16.0%	\$19,473	\$ 96,927
2024	125,053	13.9	17,382	85,644	14.1	17,632	87,116	16.0	20,008	97,857
2025	128,492	13.9	17,860	86,374	14.1	18,117	87,858	16.0	20,559	98,691
2026	132,026	13.9	18,352	87,010	14.1	18,616	88,505	16.0	21,124	99,418
2027	135,657	13.9	18,856	87,542	14.1	19,128	89,046	16.0	21,705	100,026
2028	139,388	13.9	19,375	87,958	14.1	19,654	89,469	16.0	22,302	100,502
2029	143,221	13.9	19,908	88,246	14.1	20,194	89,762	16.0	22,915	100,831
2030	147,160	13.9	20,455	88,393	14.1	20,750	89,912	16.0	23,546	100,999
2031	151,207	13.9	21,018	88,384	14.1	21,320	89,903	16.0	24,193	100,989
2032	155,365	13.9	21,596	88,205	14.1	21,906	89,720	16.0	24,858	100,784

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	5.5%	\$6,694	\$ 48,481	7.7%	\$9,371	\$ 60,585	6.9%	\$8,398	\$ 54,320
2024	125,053	5.5	6,878	48,946	7.7	9,629	61,166	6.9	8,629	54,841
2025	128,492	5.5	7,067	49,363	7.7	9,894	61,687	6.9	8,866	55,308
2026	132,026	5.5	7,261	49,727	7.7	10,166	62,141	6.9	9,110	55,715
2027	135,657	5.5	7,461	50,031	7.7	10,446	62,521	6.9	9,360	56,056
2028	139,388	5.5	7,666	50,269	7.7	10,733	62,818	6.9	9,618	56,322
2029	143,221	5.5	7,877	50,434	7.7	11,028	63,024	6.9	9,882	56,507
2030	147,160	5.5	8,094	50,518	7.7	11,331	63,129	6.9	10,154	56,601
2031	151,207	5.5	8,316	50,513	7.7	11,643	63,123	6.9	10,433	56,596
2032	155,365	5.5	8,545	50,410	7.7	11,963	62,995	6.9	10,720	56,481

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	8.7%	\$10,588	\$ 64,967	9.8%	\$11,927	\$ 72,694	10.4%	\$12,657	\$ 75,613
2024	125,053	8.7	10,880	65,590	9.8	12,255	73,391	10.4	13,006	76,338
2025	128,492	8.7	11,179	66,149	9.8	12,592	74,016	10.4	13,363	76,988
2026	132,026	8.7	11,486	66,636	9.8	12,939	74,561	10.4	13,731	77,555
2027	135,657	8.7	11,802	67,043	9.8	13,294	75,017	10.4	14,108	78,029
2028	139,388	8.7	12,127	67,362	9.8	13,660	75,374	10.4	14,496	78,400
2029	143,221	8.7	12,460	67,583	9.8	14,036	75,621	10.4	14,895	78,657
2030	147,160	8.7	12,803	67,696	9.8	14,422	75,747	10.4	15,305	78,788
2031	151,207	8.7	13,155	67,689	9.8	14,818	75,740	10.4	15,726	78,780
2032	155,365	8.7	13,517	67,552	9.8	15,226	75,586	10.4	16,158	78,620

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	12.0%	\$14,605	\$ 84,830	12.2%	\$14,848	\$ 86,288	14.1%	\$17,161	\$ 96,927
2024	125,053	12.0	15,006	85,644	12.2	15,256	87,116	14.1	17,632	97,857
2025	128,492	12.0	15,419	86,374	12.2	15,676	87,858	14.1	18,117	98,691
2026	132,026	12.0	15,843	87,010	12.2	16,107	88,505	14.1	18,616	99,418
2027	135,657	12.0	16,279	87,542	12.2	16,550	89,046	14.1	19,128	100,026
2028	139,388	12.0	16,727	87,958	12.2	17,005	89,469	14.1	19,654	100,502
2029	143,221	12.0	17,187	88,246	12.2	17,473	89,762	14.1	20,194	100,831
2030	147,160	12.0	17,659	88,393	12.2	17,954	89,912	14.1	20,750	100,999
2031	151,207	12.0	18,145	88,384	12.2	18,447	89,903	14.1	21,320	100,989
2032	155,365	12.0	18,644	88,205	12.2	18,955	89,720	14.1	21,906	100,784

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	3.6%	\$4,381	\$ 48,481	5.8%	\$7,059	\$ 60,585	5.0%	\$6,085	\$ 54,320
2024	125,053	3.6	4,502	48,946	5.8	7,253	61,166	5.0	6,253	54,841
2025	128,492	3.6	4,626	49,363	5.8	7,453	61,687	5.0	6,425	55,308
2026	132,026	3.6	4,753	49,727	5.8	7,658	62,141	5.0	6,601	55,715
2027	135,657	3.6	4,884	50,031	5.8	7,868	62,521	5.0	6,783	56,056
2028	139,388	3.6	5,018	50,269	5.8	8,085	62,818	5.0	6,969	56,322
2029	143,221	3.6	5,156	50,434	5.8	8,307	63,024	5.0	7,161	56,507
2030	147,160	3.6	5,298	50,518	5.8	8,535	63,129	5.0	7,358	56,601
2031	151,207	3.6	5,443	50,513	5.8	8,770	63,123	5.0	7,560	56,596
2032	155,365	3.6	5,593	50,410	5.8	9,011	62,995	5.0	7,768	56,481

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	6.8%	\$8,276	\$ 64,967	7.9%	\$9,615	\$ 72,694	8.5%	\$10,345	\$ 75,613
2024	125,053	6.8	8,504	65,590	7.9	9,879	73,391	8.5	10,630	76,338
2025	128,492	6.8	8,737	66,149	7.9	10,151	74,016	8.5	10,922	76,988
2026	132,026	6.8	8,978	66,636	7.9	10,430	74,561	8.5	11,222	77,555
2027	135,657	6.8	9,225	67,043	7.9	10,717	75,017	8.5	11,531	78,029
2028	139,388	6.8	9,478	67,362	7.9	11,012	75,374	8.5	11,848	78,400
2029	143,221	6.8	9,739	67,583	7.9	11,314	75,621	8.5	12,174	78,657
2030	147,160	6.8	10,007	67,696	7.9	11,626	75,747	8.5	12,509	78,788
2031	151,207	6.8	10,282	67,689	7.9	11,945	75,740	8.5	12,853	78,780
2032	155,365	6.8	10,565	67,552	7.9	12,274	75,586	8.5	13,206	78,620

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	10.1%	\$12,292	\$ 84,830	10.3%	\$12,536	\$ 86,288	12.2%	\$14,848	\$ 96,927
2024	125,053	10.1	12,630	85,644	10.3	12,880	87,116	12.2	15,256	97,857
2025	128,492	10.1	12,978	86,374	10.3	13,235	87,858	12.2	15,676	98,691
2026	132,026	10.1	13,335	87,010	10.3	13,599	88,505	12.2	16,107	99,418
2027	135,657	10.1	13,701	87,542	10.3	13,973	89,046	12.2	16,550	100,026
2028	139,388	10.1	14,078	87,958	10.3	14,357	89,469	12.2	17,005	100,502
2029	143,221	10.1	14,465	88,246	10.3	14,752	89,762	12.2	17,473	100,831
2030	147,160	10.1	14,863	88,393	10.3	15,157	89,912	12.2	17,954	100,999
2031	151,207	10.1	15,272	88,384	10.3	15,574	89,903	12.2	18,447	100,989
2032	155,365	10.1	15,692	88,205	10.3	16,003	89,720	12.2	18,955	100,784

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.6%	\$11,684	\$ 50,077	11.9%	\$14,483	\$ 62,605	11.0%	\$13,388	\$ 56,121
2024	125,053	9.6	12,005	50,557	11.9	14,881	63,206	11.0	13,756	56,659
2025	128,492	9.6	12,335	50,988	11.9	15,291	63,745	11.0	14,134	57,142
2026	132,026	9.6	12,674	51,363	11.9	15,711	64,214	11.0	14,523	57,563
2027	135,657	9.6	13,023	51,677	11.9	16,143	64,606	11.0	14,922	57,915
2028	139,388	9.6	13,381	51,923	11.9	16,587	64,913	11.0	15,333	58,190
2029	143,221	9.6	13,749	52,093	11.9	17,043	65,126	11.0	15,754	58,381
2030	147,160	9.6	14,127	52,180	11.9	17,512	65,235	11.0	16,188	58,478
2031	151,207	9.6	14,516	52,175	11.9	17,994	65,229	11.0	16,633	58,472
2032	155,365	9.6	14,915	52,069	11.9	18,488	65,097	11.0	17,090	58,353

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	12.9%	\$15,700	\$ 67,130	14.0%	\$17,039	\$ 75,118	14.6%	\$17,769	\$ 78,135
2024	125,053	12.9	16,132	67,774	14.0	17,507	75,839	14.6	18,258	78,885
2025	128,492	12.9	16,575	68,352	14.0	17,989	76,485	14.6	18,760	79,557
2026	132,026	12.9	17,031	68,855	14.0	18,484	77,048	14.6	19,276	80,143
2027	135,657	12.9	17,500	69,276	14.0	18,992	77,519	14.6	19,806	80,633
2028	139,388	12.9	17,981	69,605	14.0	19,514	77,888	14.6	20,351	81,016
2029	143,221	12.9	18,476	69,833	14.0	20,051	78,143	14.6	20,910	81,281
2030	147,160	12.9	18,984	69,949	14.0	20,602	78,273	14.6	21,485	81,416
2031	151,207	12.9	19,506	69,942	14.0	21,169	78,265	14.6	22,076	81,408
2032	155,365	12.9	20,042	69,800	14.0	21,751	78,106	14.6	22,683	81,243

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	16.2%	\$19,716	\$ 87,639	16.6%	\$20,203	\$ 89,148	18.5%	\$22,516	\$ 100,159
2024	125,053	16.2	20,259	88,480	16.6	20,759	90,003	18.5	23,135	101,120
2025	128,492	16.2	20,816	89,234	16.6	21,330	90,770	18.5	23,771	101,982
2026	132,026	16.2	21,388	89,891	16.6	21,916	91,438	18.5	24,425	102,733
2027	135,657	16.2	21,976	90,440	16.6	22,519	91,997	18.5	25,097	103,361
2028	139,388	16.2	22,581	90,870	16.6	23,138	92,434	18.5	25,787	103,852
2029	143,221	16.2	23,202	91,168	16.6	23,775	92,737	18.5	26,496	104,192
2030	147,160	16.2	23,840	91,320	16.6	24,429	92,892	18.5	27,225	104,366
2031	151,207	16.2	24,496	91,311	16.6	25,100	92,883	18.5	27,973	104,356
2032	155,365	16.2	25,169	91,126	16.6	25,791	92,694	18.5	28,743	104,144

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	7.7%	\$9,371	\$ 50,077	10.0%	\$12,171	\$ 62,605	9.1%	\$11,075	\$ 56,121
2024	125,053	7.7	9,629	50,557	10.0	12,505	63,206	9.1	11,380	56,659
2025	128,492	7.7	9,894	50,988	10.0	12,849	63,745	9.1	11,693	57,142
2026	132,026	7.7	10,166	51,363	10.0	13,203	64,214	9.1	12,014	57,563
2027	135,657	7.7	10,446	51,677	10.0	13,566	64,606	9.1	12,345	57,915
2028	139,388	7.7	10,733	51,923	10.0	13,939	64,913	9.1	12,684	58,190
2029	143,221	7.7	11,028	52,093	10.0	14,322	65,126	9.1	13,033	58,381
2030	147,160	7.7	11,331	52,180	10.0	14,716	65,235	9.1	13,392	58,478
2031	151,207	7.7	11,643	52,175	10.0	15,121	65,229	9.1	13,760	58,472
2032	155,365	7.7	11,963	52,069	10.0	15,537	65,097	9.1	14,138	58,353

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	11.0%	\$13,388	\$ 67,130	12.1%	\$14,726	\$ 75,118	12.7%	\$15,457	\$ 78,135
2024	125,053	11.0	13,756	67,774	12.1	15,131	75,839	12.7	15,882	78,885
2025	128,492	11.0	14,134	68,352	12.1	15,548	76,485	12.7	16,318	79,557
2026	132,026	11.0	14,523	68,855	12.1	15,975	77,048	12.7	16,767	80,143
2027	135,657	11.0	14,922	69,276	12.1	16,414	77,519	12.7	17,228	80,633
2028	139,388	11.0	15,333	69,605	12.1	16,866	77,888	12.7	17,702	81,016
2029	143,221	11.0	15,754	69,833	12.1	17,330	78,143	12.7	18,189	81,281
2030	147,160	11.0	16,188	69,949	12.1	17,806	78,273	12.7	18,689	81,416
2031	151,207	11.0	16,633	69,942	12.1	18,296	78,265	12.7	19,203	81,408
2032	155,365	11.0	17,090	69,800	12.1	18,799	78,106	12.7	19,731	81,243

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	14.3%	\$17,404	\$ 87,639	14.7%	\$17,891	\$ 89,148	16.6%	\$20,203	\$ 100,159
2024	125,053	14.3	17,883	88,480	14.7	18,383	90,003	16.6	20,759	101,120
2025	128,492	14.3	18,374	89,234	14.7	18,888	90,770	16.6	21,330	101,982
2026	132,026	14.3	18,880	89,891	14.7	19,408	91,438	16.6	21,916	102,733
2027	135,657	14.3	19,399	90,440	14.7	19,942	91,997	16.6	22,519	103,361
2028	139,388	14.3	19,932	90,870	14.7	20,490	92,434	16.6	23,138	103,852
2029	143,221	14.3	20,481	91,168	14.7	21,053	92,737	16.6	23,775	104,192
2030	147,160	14.3	21,044	91,320	14.7	21,633	92,892	16.6	24,429	104,366
2031	151,207	14.3	21,623	91,311	14.7	22,227	92,883	16.6	25,100	104,356
2032	155,365	14.3	22,217	91,126	14.7	22,839	92,694	16.6	25,791	104,144

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	5.8%	\$7,059	\$ 50,077	8.1%	\$9,858	\$ 62,605	7.2%	\$8,763	\$ 56,121
2024	125,053	5.8	7,253	50,557	8.1	10,129	63,206	7.2	9,004	56,659
2025	128,492	5.8	7,453	50,988	8.1	10,408	63,745	7.2	9,251	57,142
2026	132,026	5.8	7,658	51,363	8.1	10,694	64,214	7.2	9,506	57,563
2027	135,657	5.8	7,868	51,677	8.1	10,988	64,606	7.2	9,767	57,915
2028	139,388	5.8	8,085	51,923	8.1	11,290	64,913	7.2	10,036	58,190
2029	143,221	5.8	8,307	52,093	8.1	11,601	65,126	7.2	10,312	58,381
2030	147,160	5.8	8,535	52,180	8.1	11,920	65,235	7.2	10,596	58,478
2031	151,207	5.8	8,770	52,175	8.1	12,248	65,229	7.2	10,887	58,472
2032	155,365	5.8	9,011	52,069	8.1	12,585	65,097	7.2	11,186	58,353

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	9.1%	\$11,075	\$ 67,130	10.2%	\$12,414	\$ 75,118	10.8%	\$13,144	\$ 78,135
2024	125,053	9.1	11,380	67,774	10.2	12,755	75,839	10.8	13,506	78,885
2025	128,492	9.1	11,693	68,352	10.2	13,106	76,485	10.8	13,877	79,557
2026	132,026	9.1	12,014	68,855	10.2	13,467	77,048	10.8	14,259	80,143
2027	135,657	9.1	12,345	69,276	10.2	13,837	77,519	10.8	14,651	80,633
2028	139,388	9.1	12,684	69,605	10.2	14,218	77,888	10.8	15,054	81,016
2029	143,221	9.1	13,033	69,833	10.2	14,609	78,143	10.8	15,468	81,281
2030	147,160	9.1	13,392	69,949	10.2	15,010	78,273	10.8	15,893	81,416
2031	151,207	9.1	13,760	69,942	10.2	15,423	78,265	10.8	16,330	81,408
2032	155,365	9.1	14,138	69,800	10.2	15,847	78,106	10.8	16,779	81,243

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	12.4%	\$15,092	\$ 87,639	12.8%	\$15,578	\$ 89,148	14.7%	\$17,891	\$ 100,159
2024	125,053	12.4	15,507	88,480	12.8	16,007	90,003	14.7	18,383	101,120
2025	128,492	12.4	15,933	89,234	12.8	16,447	90,770	14.7	18,888	101,982
2026	132,026	12.4	16,371	89,891	12.8	16,899	91,438	14.7	19,408	102,733
2027	135,657	12.4	16,821	90,440	12.8	17,364	91,997	14.7	19,942	103,361
2028	139,388	12.4	17,284	90,870	12.8	17,842	92,434	14.7	20,490	103,852
2029	143,221	12.4	17,759	91,168	12.8	18,332	92,737	14.7	21,053	104,192
2030	147,160	12.4	18,248	91,320	12.8	18,836	92,892	14.7	21,633	104,366
2031	151,207	12.4	18,750	91,311	12.8	19,354	92,883	14.7	22,227	104,356
2032	155,365	12.4	19,265	91,126	12.8	19,887	92,694	14.7	22,839	104,144

Notes regarding the above projections:

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



City of Warson Woods - General

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	3.9%	\$4,747	\$ 50,077	6.2%	\$7,546	\$ 62,605	5.3%	\$6,450	\$ 56,121
2024	125,053	3.9	4,877	50,557	6.2	7,753	63,206	5.3	6,628	56,659
2025	128,492	3.9	5,011	50,988	6.2	7,967	63,745	5.3	6,810	57,142
2026	132,026	3.9	5,149	51,363	6.2	8,186	64,214	5.3	6,997	57,563
2027	135,657	3.9	5,291	51,677	6.2	8,411	64,606	5.3	7,190	57,915
2028	139,388	3.9	5,436	51,923	6.2	8,642	64,913	5.3	7,388	58,190
2029	143,221	3.9	5,586	52,093	6.2	8,880	65,126	5.3	7,591	58,381
2030	147,160	3.9	5,739	52,180	6.2	9,124	65,235	5.3	7,799	58,478
2031	151,207	3.9	5,897	52,175	6.2	9,375	65,229	5.3	8,014	58,472
2032	155,365	3.9	6,059	52,069	6.2	9,633	65,097	5.3	8,234	58,353

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	7.2%	\$8,763	\$ 67,130	8.3%	\$10,102	\$ 75,118	8.9%	\$10,832	\$ 78,135
2024	125,053	7.2	9,004	67,774	8.3	10,379	75,839	8.9	11,130	78,885
2025	128,492	7.2	9,251	68,352	8.3	10,665	76,485	8.9	11,436	79,557
2026	132,026	7.2	9,506	68,855	8.3	10,958	77,048	8.9	11,750	80,143
2027	135,657	7.2	9,767	69,276	8.3	11,260	77,519	8.9	12,073	80,633
2028	139,388	7.2	10,036	69,605	8.3	11,569	77,888	8.9	12,406	81,016
2029	143,221	7.2	10,312	69,833	8.3	11,887	78,143	8.9	12,747	81,281
2030	147,160	7.2	10,596	69,949	8.3	12,214	78,273	8.9	13,097	81,416
2031	151,207	7.2	10,887	69,942	8.3	12,550	78,265	8.9	13,457	81,408
2032	155,365	7.2	11,186	69,800	8.3	12,895	78,106	8.9	13,827	81,243

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 121,706	10.5%	\$12,779	\$ 87,639	10.9%	\$13,266	\$ 89,148	12.8%	\$15,578	\$ 100,159
2024	125,053	10.5	13,131	88,480	10.9	13,631	90,003	12.8	16,007	101,120
2025	128,492	10.5	13,492	89,234	10.9	14,006	90,770	12.8	16,447	101,982
2026	132,026	10.5	13,863	89,891	10.9	14,391	91,438	12.8	16,899	102,733
2027	135,657	10.5	14,244	90,440	10.9	14,787	91,997	12.8	17,364	103,361
2028	139,388	10.5	14,636	90,870	10.9	15,193	92,434	12.8	17,842	103,852
2029	143,221	10.5	15,038	91,168	10.9	15,611	92,737	12.8	18,332	104,192
2030	147,160	10.5	15,452	91,320	10.9	16,040	92,892	12.8	18,836	104,366
2031	151,207	10.5	15,877	91,311	10.9	16,482	92,883	12.8	19,354	104,356
2032	155,365	10.5	16,313	91,126	10.9	16,935	92,694	12.8	19,887	104,144

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	18.3%	\$73,662	\$ 608,090	22.6%	\$90,971	\$ 760,085	20.8%	\$83,726	\$ 645,054
2024	413,596	18.3	75,688	613,923	22.6	93,473	767,376	20.8	86,028	651,242
2025	424,970	18.3	77,770	619,154	22.6	96,043	773,915	20.8	88,394	656,791
2026	436,657	18.3	79,908	623,714	22.6	98,684	779,614	20.8	90,825	661,628
2027	448,665	18.3	82,106	627,526	22.6	101,398	784,379	20.8	93,322	665,672
2028	461,003	18.3	84,364	630,509	22.6	104,187	788,108	20.8	95,889	668,837
2029	473,681	18.3	86,684	632,575	22.6	107,052	790,691	20.8	98,526	671,029
2030	486,707	18.3	89,067	633,629	22.6	109,996	792,008	20.8	101,235	672,147
2031	500,091	18.3	91,517	633,568	22.6	113,021	791,932	20.8	104,019	672,082
2032	513,844	18.3	94,033	632,281	22.6	116,129	790,324	20.8	106,880	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	24.4%	\$98,217	\$ 787,817	27.0%	\$108,682	\$ 912,116	28.2%	\$113,513	\$ 930,605
2024	413,596	24.4	100,917	795,374	27.0	111,671	920,866	28.2	116,634	939,532
2025	424,970	24.4	103,693	802,152	27.0	114,742	928,713	28.2	119,842	947,538
2026	436,657	24.4	106,544	808,059	27.0	117,897	935,552	28.2	123,137	954,516
2027	448,665	24.4	109,474	812,998	27.0	121,140	941,270	28.2	126,524	960,350
2028	461,003	24.4	112,485	816,863	27.0	124,471	945,745	28.2	130,003	964,916
2029	473,681	24.4	115,578	819,540	27.0	127,894	948,844	28.2	133,578	968,078
2030	486,707	24.4	118,757	820,905	27.0	131,411	950,425	28.2	137,251	969,691
2031	500,091	24.4	122,022	820,826	27.0	135,025	950,334	28.2	141,026	969,598
2032	513,844	24.4	125,378	819,159	27.0	138,738	948,404	28.2	144,904	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	31.3%	\$125,991	\$ 1,064,141	32.0%	\$128,809	\$ 1,073,374	35.7%	\$143,702	\$ 1,216,152
2024	413,596	31.3	129,456	1,074,349	32.0	132,351	1,083,671	35.7	147,654	1,227,818
2025	424,970	31.3	133,016	1,083,504	32.0	135,990	1,092,905	35.7	151,714	1,238,280
2026	436,657	31.3	136,674	1,091,483	32.0	139,730	1,100,953	35.7	155,887	1,247,399
2027	448,665	31.3	140,432	1,098,154	32.0	143,573	1,107,682	35.7	160,173	1,255,023
2028	461,003	31.3	144,294	1,103,375	32.0	147,521	1,112,948	35.7	164,578	1,260,990
2029	473,681	31.3	148,262	1,106,991	32.0	151,578	1,116,595	35.7	169,104	1,265,122
2030	486,707	31.3	152,339	1,108,835	32.0	155,746	1,118,455	35.7	173,754	1,267,230
2031	500,091	31.3	156,528	1,108,728	32.0	160,029	1,118,347	35.7	178,532	1,267,108
2032	513,844	31.3	160,833	1,106,476	32.0	164,430	1,116,076	35.7	183,442	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	16.4%	\$66,014	\$ 608,090	20.7%	\$83,323	\$ 760,085	18.9%	\$76,078	\$ 645,054
2024	413,596	16.4	67,830	613,923	20.7	85,614	767,376	18.9	78,170	651,242
2025	424,970	16.4	69,695	619,154	20.7	87,969	773,915	18.9	80,319	656,791
2026	436,657	16.4	71,612	623,714	20.7	90,388	779,614	18.9	82,528	661,628
2027	448,665	16.4	73,581	627,526	20.7	92,874	784,379	18.9	84,798	665,672
2028	461,003	16.4	75,604	630,509	20.7	95,428	788,108	18.9	87,130	668,837
2029	473,681	16.4	77,684	632,575	20.7	98,052	790,691	18.9	89,526	671,029
2030	486,707	16.4	79,820	633,629	20.7	100,748	792,008	18.9	91,988	672,147
2031	500,091	16.4	82,015	633,568	20.7	103,519	791,932	18.9	94,517	672,082
2032	513,844	16.4	84,270	632,281	20.7	106,366	790,324	18.9	97,117	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	22.5%	\$90,569	\$ 787,817	25.1%	\$101,034	\$ 912,116	26.3%	\$105,865	\$ 930,605
2024	413,596	22.5	93,059	795,374	25.1	103,813	920,866	26.3	108,776	939,532
2025	424,970	22.5	95,618	802,152	25.1	106,667	928,713	26.3	111,767	947,538
2026	436,657	22.5	98,248	808,059	25.1	109,601	935,552	26.3	114,841	954,516
2027	448,665	22.5	100,950	812,998	25.1	112,615	941,270	26.3	117,999	960,350
2028	461,003	22.5	103,726	816,863	25.1	115,712	945,745	26.3	121,244	964,916
2029	473,681	22.5	106,578	819,540	25.1	118,894	948,844	26.3	124,578	968,078
2030	486,707	22.5	109,509	820,905	25.1	122,163	950,425	26.3	128,004	969,691
2031	500,091	22.5	112,520	820,826	25.1	125,523	950,334	26.3	131,524	969,598
2032	513,844	22.5	115,615	819,159	25.1	128,975	948,404	26.3	135,141	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	29.4%	\$118,343	\$ 1,064,141	30.1%	\$121,161	\$ 1,073,374	33.8%	\$136,054	\$ 1,216,152
2024	413,596	29.4	121,597	1,074,349	30.1	124,492	1,083,671	33.8	139,795	1,227,818
2025	424,970	29.4	124,941	1,083,504	30.1	127,916	1,092,905	33.8	143,640	1,238,280
2026	436,657	29.4	128,377	1,091,483	30.1	131,434	1,100,953	33.8	147,590	1,247,399
2027	448,665	29.4	131,908	1,098,154	30.1	135,048	1,107,682	33.8	151,649	1,255,023
2028	461,003	29.4	135,535	1,103,375	30.1	138,762	1,112,948	33.8	155,819	1,260,990
2029	473,681	29.4	139,262	1,106,991	30.1	142,578	1,116,595	33.8	160,104	1,265,122
2030	486,707	29.4	143,092	1,108,835	30.1	146,499	1,118,455	33.8	164,507	1,267,230
2031	500,091	29.4	147,027	1,108,728	30.1	150,527	1,118,347	33.8	169,031	1,267,108
2032	513,844	29.4	151,070	1,106,476	30.1	154,667	1,116,076	33.8	173,679	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	14.5%	\$58,366	\$ 608,090	18.8%	\$75,675	\$ 760,085	17.0%	\$68,430	\$ 645,054
2024	413,596	14.5	59,971	613,923	18.8	77,756	767,376	17.0	70,311	651,242
2025	424,970	14.5	61,621	619,154	18.8	79,894	773,915	17.0	72,245	656,791
2026	436,657	14.5	63,315	623,714	18.8	82,092	779,614	17.0	74,232	661,628
2027	448,665	14.5	65,056	627,526	18.8	84,349	784,379	17.0	76,273	665,672
2028	461,003	14.5	66,845	630,509	18.8	86,669	788,108	17.0	78,371	668,837
2029	473,681	14.5	68,684	632,575	18.8	89,052	790,691	17.0	80,526	671,029
2030	486,707	14.5	70,573	633,629	18.8	91,501	792,008	17.0	82,740	672,147
2031	500,091	14.5	72,513	633,568	18.8	94,017	791,932	17.0	85,015	672,082
2032	513,844	14.5	74,507	632,281	18.8	96,603	790,324	17.0	87,353	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	20.6%	\$82,921	\$ 787,817	23.2%	\$93,386	\$ 912,116	24.4%	\$98,217	\$ 930,605
2024	413,596	20.6	85,201	795,374	23.2	95,954	920,866	24.4	100,917	939,532
2025	424,970	20.6	87,544	802,152	23.2	98,593	928,713	24.4	103,693	947,538
2026	436,657	20.6	89,951	808,059	23.2	101,304	935,552	24.4	106,544	954,516
2027	448,665	20.6	92,425	812,998	23.2	104,090	941,270	24.4	109,474	960,350
2028	461,003	20.6	94,967	816,863	23.2	106,953	945,745	24.4	112,485	964,916
2029	473,681	20.6	97,578	819,540	23.2	109,894	948,844	24.4	115,578	968,078
2030	486,707	20.6	100,262	820,905	23.2	112,916	950,425	24.4	118,757	969,691
2031	500,091	20.6	103,019	820,826	23.2	116,021	950,334	24.4	122,022	969,598
2032	513,844	20.6	105,852	819,159	23.2	119,212	948,404	24.4	125,378	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	27.5%	\$110,695	\$ 1,064,141	28.2%	\$113,513	\$ 1,073,374	31.9%	\$128,406	\$ 1,216,152
2024	413,596	27.5	113,739	1,074,349	28.2	116,634	1,083,671	31.9	131,937	1,227,818
2025	424,970	27.5	116,867	1,083,504	28.2	119,842	1,092,905	31.9	135,565	1,238,280
2026	436,657	27.5	120,081	1,091,483	28.2	123,137	1,100,953	31.9	139,294	1,247,399
2027	448,665	27.5	123,383	1,098,154	28.2	126,524	1,107,682	31.9	143,124	1,255,023
2028	461,003	27.5	126,776	1,103,375	28.2	130,003	1,112,948	31.9	147,060	1,260,990
2029	473,681	27.5	130,262	1,106,991	28.2	133,578	1,116,595	31.9	151,104	1,265,122
2030	486,707	27.5	133,844	1,108,835	28.2	137,251	1,118,455	31.9	155,260	1,267,230
2031	500,091	27.5	137,525	1,108,728	28.2	141,026	1,118,347	31.9	159,529	1,267,108
2032	513,844	27.5	141,307	1,106,476	28.2	144,904	1,116,076	31.9	163,916	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	12.6%	\$50,718	\$ 608,090	16.9%	\$68,027	\$ 760,085	15.1%	\$60,782	\$ 645,054
2024	413,596	12.6	52,113	613,923	16.9	69,898	767,376	15.1	62,453	651,242
2025	424,970	12.6	53,546	619,154	16.9	71,820	773,915	15.1	64,170	656,791
2026	436,657	12.6	55,019	623,714	16.9	73,795	779,614	15.1	65,935	661,628
2027	448,665	12.6	56,532	627,526	16.9	75,824	784,379	15.1	67,748	665,672
2028	461,003	12.6	58,086	630,509	16.9	77,910	788,108	15.1	69,611	668,837
2029	473,681	12.6	59,684	632,575	16.9	80,052	790,691	15.1	71,526	671,029
2030	486,707	12.6	61,325	633,629	16.9	82,253	792,008	15.1	73,493	672,147
2031	500,091	12.6	63,011	633,568	16.9	84,515	791,932	15.1	75,514	672,082
2032	513,844	12.6	64,744	632,281	16.9	86,840	790,324	15.1	77,590	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	18.7%	\$75,273	\$ 787,817	21.3%	\$85,738	\$ 912,116	22.5%	\$90,569	\$ 930,605
2024	413,596	18.7	77,342	795,374	21.3	88,096	920,866	22.5	93,059	939,532
2025	424,970	18.7	79,469	802,152	21.3	90,519	928,713	22.5	95,618	947,538
2026	436,657	18.7	81,655	808,059	21.3	93,008	935,552	22.5	98,248	954,516
2027	448,665	18.7	83,900	812,998	21.3	95,566	941,270	22.5	100,950	960,350
2028	461,003	18.7	86,208	816,863	21.3	98,194	945,745	22.5	103,726	964,916
2029	473,681	18.7	88,578	819,540	21.3	100,894	948,844	22.5	106,578	968,078
2030	486,707	18.7	91,014	820,905	21.3	103,669	950,425	22.5	109,509	969,691
2031	500,091	18.7	93,517	820,826	21.3	106,519	950,334	22.5	112,520	969,598
2032	513,844	18.7	96,089	819,159	21.3	109,449	948,404	22.5	115,615	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	25.6%	\$103,047	\$ 1,064,141	26.3%	\$105,865	\$ 1,073,374	30.0%	\$120,758	\$ 1,216,152
2024	413,596	25.6	105,881	1,074,349	26.3	108,776	1,083,671	30.0	124,079	1,227,818
2025	424,970	25.6	108,792	1,083,504	26.3	111,767	1,092,905	30.0	127,491	1,238,280
2026	436,657	25.6	111,784	1,091,483	26.3	114,841	1,100,953	30.0	130,997	1,247,399
2027	448,665	25.6	114,858	1,098,154	26.3	117,999	1,107,682	30.0	134,600	1,255,023
2028	461,003	25.6	118,017	1,103,375	26.3	121,244	1,112,948	30.0	138,301	1,260,990
2029	473,681	25.6	121,262	1,106,991	26.3	124,578	1,116,595	30.0	142,104	1,265,122
2030	486,707	25.6	124,597	1,108,835	26.3	128,004	1,118,455	30.0	146,012	1,267,230
2031	500,091	25.6	128,023	1,108,728	26.3	131,524	1,118,347	30.0	150,027	1,267,108
2032	513,844	25.6	131,544	1,106,476	26.3	135,141	1,116,076	30.0	154,153	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	18.9%	\$76,078	\$ 627,627	23.4%	\$94,191	\$ 784,536	21.4%	\$86,141	\$ 665,866
2024	413,596	18.9	78,170	633,648	23.4	96,781	792,062	21.4	88,510	672,253
2025	424,970	18.9	80,319	639,047	23.4	99,443	798,811	21.4	90,944	677,981
2026	436,657	18.9	82,528	643,753	23.4	102,178	804,694	21.4	93,445	682,974
2027	448,665	18.9	84,798	647,688	23.4	104,988	809,612	21.4	96,014	687,148
2028	461,003	18.9	87,130	650,767	23.4	107,875	813,461	21.4	98,655	690,415
2029	473,681	18.9	89,526	652,900	23.4	110,841	816,127	21.4	101,368	692,678
2030	486,707	18.9	91,988	653,988	23.4	113,889	817,487	21.4	104,155	693,832
2031	500,091	18.9	94,517	653,925	23.4	117,021	817,408	21.4	107,019	693,765
2032	513,844	18.9	97,117	652,597	23.4	120,239	815,748	21.4	109,963	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	25.2%	\$101,437	\$ 813,216	27.9%	\$112,305	\$ 941,442	29.1%	\$117,135	\$ 960,561
2024	413,596	25.2	104,226	821,017	27.9	115,393	950,473	29.1	120,356	969,775
2025	424,970	25.2	107,092	828,013	27.9	118,567	958,572	29.1	123,666	978,039
2026	436,657	25.2	110,038	834,111	27.9	121,827	965,631	29.1	127,067	985,242
2027	448,665	25.2	113,064	839,209	27.9	125,178	971,533	29.1	130,562	991,264
2028	461,003	25.2	116,173	843,199	27.9	128,620	976,152	29.1	134,152	995,977
2029	473,681	25.2	119,368	845,962	27.9	132,157	979,351	29.1	137,841	999,241
2030	486,707	25.2	122,650	847,371	27.9	135,791	980,983	29.1	141,632	1,000,906
2031	500,091	25.2	126,023	847,289	27.9	139,525	980,889	29.1	145,526	1,000,810
2032	513,844	25.2	129,489	845,568	27.9	143,362	978,897	29.1	149,529	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	32.3%	\$130,016	\$ 1,098,361	33.0%	\$132,834	\$ 1,107,907	36.8%	\$148,130	\$ 1,255,270
2024	413,596	32.3	133,592	1,108,897	33.0	136,487	1,118,535	36.8	152,203	1,267,311
2025	424,970	32.3	137,265	1,118,346	33.0	140,240	1,128,066	36.8	156,389	1,278,110
2026	436,657	32.3	141,040	1,126,582	33.0	144,097	1,136,373	36.8	160,690	1,287,522
2027	448,665	32.3	144,919	1,133,468	33.0	148,059	1,143,319	36.8	165,109	1,295,392
2028	461,003	32.3	148,904	1,138,857	33.0	152,131	1,148,755	36.8	169,649	1,301,551
2029	473,681	32.3	152,999	1,142,589	33.0	156,315	1,152,520	36.8	174,315	1,305,816
2030	486,707	32.3	157,206	1,144,493	33.0	160,613	1,154,440	36.8	179,108	1,307,992
2031	500,091	32.3	161,529	1,144,383	33.0	165,030	1,154,329	36.8	184,033	1,307,866
2032	513,844	32.3	165,972	1,142,059	33.0	169,569	1,151,985	36.8	189,095	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	17.0%	\$68,430	\$ 627,627	21.5%	\$86,543	\$ 784,536	19.5%	\$78,493	\$ 665,866
2024	413,596	17.0	70,311	633,648	21.5	88,923	792,062	19.5	80,651	672,253
2025	424,970	17.0	72,245	639,047	21.5	91,369	798,811	19.5	82,869	677,981
2026	436,657	17.0	74,232	643,753	21.5	93,881	804,694	19.5	85,148	682,974
2027	448,665	17.0	76,273	647,688	21.5	96,463	809,612	19.5	87,490	687,148
2028	461,003	17.0	78,371	650,767	21.5	99,116	813,461	19.5	89,896	690,415
2029	473,681	17.0	80,526	652,900	21.5	101,841	816,127	19.5	92,368	692,678
2030	486,707	17.0	82,740	653,988	21.5	104,642	817,487	19.5	94,908	693,832
2031	500,091	17.0	85,015	653,925	21.5	107,520	817,408	19.5	97,518	693,765
2032	513,844	17.0	87,353	652,597	21.5	110,476	815,748	19.5	100,200	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	23.3%	\$93,789	\$ 813,216	26.0%	\$104,657	\$ 941,442	27.2%	\$109,487	\$ 960,561
2024	413,596	23.3	96,368	821,017	26.0	107,535	950,473	27.2	112,498	969,775
2025	424,970	23.3	99,018	828,013	26.0	110,492	958,572	27.2	115,592	978,039
2026	436,657	23.3	101,741	834,111	26.0	113,531	965,631	27.2	118,771	985,242
2027	448,665	23.3	104,539	839,209	26.0	116,653	971,533	27.2	122,037	991,264
2028	461,003	23.3	107,414	843,199	26.0	119,861	976,152	27.2	125,393	995,977
2029	473,681	23.3	110,368	845,962	26.0	123,157	979,351	27.2	128,841	999,241
2030	486,707	23.3	113,403	847,371	26.0	126,544	980,983	27.2	132,384	1,000,906
2031	500,091	23.3	116,521	847,289	26.0	130,024	980,889	27.2	136,025	1,000,810
2032	513,844	23.3	119,726	845,568	26.0	133,599	978,897	27.2	139,766	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	30.4%	\$122,368	\$ 1,098,361	31.1%	\$125,186	\$ 1,107,907	34.9%	\$140,482	\$ 1,255,270
2024	413,596	30.4	125,733	1,108,897	31.1	128,628	1,118,535	34.9	144,345	1,267,311
2025	424,970	30.4	129,191	1,118,346	31.1	132,166	1,128,066	34.9	148,315	1,278,110
2026	436,657	30.4	132,744	1,126,582	31.1	135,800	1,136,373	34.9	152,393	1,287,522
2027	448,665	30.4	136,394	1,133,468	31.1	139,535	1,143,319	34.9	156,584	1,295,392
2028	461,003	30.4	140,145	1,138,857	31.1	143,372	1,148,755	34.9	160,890	1,301,551
2029	473,681	30.4	143,999	1,142,589	31.1	147,315	1,152,520	34.9	165,315	1,305,816
2030	486,707	30.4	147,959	1,144,493	31.1	151,366	1,154,440	34.9	169,861	1,307,992
2031	500,091	30.4	152,028	1,144,383	31.1	155,528	1,154,329	34.9	174,532	1,307,866
2032	513,844	30.4	156,209	1,142,059	31.1	159,805	1,151,985	34.9	179,332	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	15.1%	\$60,782	\$ 627,627	19.6%	\$78,895	\$ 784,536	17.6%	\$70,845	\$ 665,866
2024	413,596	15.1	62,453	633,648	19.6	81,065	792,062	17.6	72,793	672,253
2025	424,970	15.1	64,170	639,047	19.6	83,294	798,811	17.6	74,795	677,981
2026	436,657	15.1	65,935	643,753	19.6	85,585	804,694	17.6	76,852	682,974
2027	448,665	15.1	67,748	647,688	19.6	87,938	809,612	17.6	78,965	687,148
2028	461,003	15.1	69,611	650,767	19.6	90,357	813,461	17.6	81,137	690,415
2029	473,681	15.1	71,526	652,900	19.6	92,841	816,127	17.6	83,368	692,678
2030	486,707	15.1	73,493	653,988	19.6	95,395	817,487	17.6	85,660	693,832
2031	500,091	15.1	75,514	653,925	19.6	98,018	817,408	17.6	88,016	693,765
2032	513,844	15.1	77,590	652,597	19.6	100,713	815,748	17.6	90,437	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	21.4%	\$86,141	\$ 813,216	24.1%	\$97,009	\$ 941,442	25.3%	\$101,839	\$ 960,561
2024	413,596	21.4	88,510	821,017	24.1	99,677	950,473	25.3	104,640	969,775
2025	424,970	21.4	90,944	828,013	24.1	102,418	958,572	25.3	107,517	978,039
2026	436,657	21.4	93,445	834,111	24.1	105,234	965,631	25.3	110,474	985,242
2027	448,665	21.4	96,014	839,209	24.1	108,128	971,533	25.3	113,512	991,264
2028	461,003	21.4	98,655	843,199	24.1	111,102	976,152	25.3	116,634	995,977
2029	473,681	21.4	101,368	845,962	24.1	114,157	979,351	25.3	119,841	999,241
2030	486,707	21.4	104,155	847,371	24.1	117,296	980,983	25.3	123,137	1,000,906
2031	500,091	21.4	107,019	847,289	24.1	120,522	980,889	25.3	126,523	1,000,810
2032	513,844	21.4	109,963	845,568	24.1	123,836	978,897	25.3	130,003	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	28.5%	\$114,720	\$ 1,098,361	29.2%	\$117,538	\$ 1,107,907	33.0%	\$132,834	\$ 1,255,270
2024	413,596	28.5	117,875	1,108,897	29.2	120,770	1,118,535	33.0	136,487	1,267,311
2025	424,970	28.5	121,116	1,118,346	29.2	124,091	1,128,066	33.0	140,240	1,278,110
2026	436,657	28.5	124,447	1,126,582	29.2	127,504	1,136,373	33.0	144,097	1,287,522
2027	448,665	28.5	127,870	1,133,468	29.2	131,010	1,143,319	33.0	148,059	1,295,392
2028	461,003	28.5	131,386	1,138,857	29.2	134,613	1,148,755	33.0	152,131	1,301,551
2029	473,681	28.5	134,999	1,142,589	29.2	138,315	1,152,520	33.0	156,315	1,305,816
2030	486,707	28.5	138,711	1,144,493	29.2	142,118	1,154,440	33.0	160,613	1,307,992
2031	500,091	28.5	142,526	1,144,383	29.2	146,027	1,154,329	33.0	165,030	1,307,866
2032	513,844	28.5	146,446	1,142,059	29.2	150,042	1,151,985	33.0	169,569	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	13.2%	\$53,134	\$ 627,627	17.7%	\$71,247	\$ 784,536	15.7%	\$63,197	\$ 665,866
2024	413,596	13.2	54,595	633,648	17.7	73,206	792,062	15.7	64,935	672,253
2025	424,970	13.2	56,096	639,047	17.7	75,220	798,811	15.7	66,720	677,981
2026	436,657	13.2	57,639	643,753	17.7	77,288	804,694	15.7	68,555	682,974
2027	448,665	13.2	59,224	647,688	17.7	79,414	809,612	15.7	70,440	687,148
2028	461,003	13.2	60,852	650,767	17.7	81,598	813,461	15.7	72,377	690,415
2029	473,681	13.2	62,526	652,900	17.7	83,842	816,127	15.7	74,368	692,678
2030	486,707	13.2	64,245	653,988	17.7	86,147	817,487	15.7	76,413	693,832
2031	500,091	13.2	66,012	653,925	17.7	88,516	817,408	15.7	78,514	693,765
2032	513,844	13.2	67,827	652,597	17.7	90,950	815,748	15.7	80,674	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	19.5%	\$78,493	\$ 813,216	22.2%	\$89,361	\$ 941,442	23.4%	\$94,191	\$ 960,561
2024	413,596	19.5	80,651	821,017	22.2	91,818	950,473	23.4	96,781	969,775
2025	424,970	19.5	82,869	828,013	22.2	94,343	958,572	23.4	99,443	978,039
2026	436,657	19.5	85,148	834,111	22.2	96,938	965,631	23.4	102,178	985,242
2027	448,665	19.5	87,490	839,209	22.2	99,604	971,533	23.4	104,988	991,264
2028	461,003	19.5	89,896	843,199	22.2	102,343	976,152	23.4	107,875	995,977
2029	473,681	19.5	92,368	845,962	22.2	105,157	979,351	23.4	110,841	999,241
2030	486,707	19.5	94,908	847,371	22.2	108,049	980,983	23.4	113,889	1,000,906
2031	500,091	19.5	97,518	847,289	22.2	111,020	980,889	23.4	117,021	1,000,810
2032	513,844	19.5	100,200	845,568	22.2	114,073	978,897	23.4	120,239	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	26.6%	\$107,072	\$ 1,098,361	27.3%	\$109,890	\$ 1,107,907	31.1%	\$125,186	\$ 1,255,270
2024	413,596	26.6	110,017	1,108,897	27.3	112,912	1,118,535	31.1	128,628	1,267,311
2025	424,970	26.6	113,042	1,118,346	27.3	116,017	1,128,066	31.1	132,166	1,278,110
2026	436,657	26.6	116,151	1,126,582	27.3	119,207	1,136,373	31.1	135,800	1,287,522
2027	448,665	26.6	119,345	1,133,468	27.3	122,486	1,143,319	31.1	139,535	1,295,392
2028	461,003	26.6	122,627	1,138,857	27.3	125,854	1,148,755	31.1	143,372	1,301,551
2029	473,681	26.6	125,999	1,142,589	27.3	129,315	1,152,520	31.1	147,315	1,305,816
2030	486,707	26.6	129,464	1,144,493	27.3	132,871	1,154,440	31.1	151,366	1,307,992
2031	500,091	26.6	133,024	1,144,383	27.3	136,525	1,154,329	31.1	155,528	1,307,866
2032	513,844	26.6	136,683	1,142,059	27.3	140,279	1,151,985	31.1	159,805	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	18.3%	\$73,662	\$ 608,090	22.6%	\$90,971	\$ 760,085	20.8%	\$83,726	\$ 645,054
2024	413,596	18.3	75,688	613,923	22.6	93,473	767,376	20.8	86,028	651,242
2025	424,970	18.3	77,770	619,154	22.6	96,043	773,915	20.8	88,394	656,791
2026	436,657	18.3	79,908	623,714	22.6	98,684	779,614	20.8	90,825	661,628
2027	448,665	18.3	82,106	627,526	22.6	101,398	784,379	20.8	93,322	665,672
2028	461,003	18.3	84,364	630,509	22.6	104,187	788,108	20.8	95,889	668,837
2029	473,681	18.3	86,684	632,575	22.6	107,052	790,691	20.8	98,526	671,029
2030	486,707	18.3	89,067	633,629	22.6	109,996	792,008	20.8	101,235	672,147
2031	500,091	18.3	91,517	633,568	22.6	113,021	791,932	20.8	104,019	672,082
2032	513,844	18.3	94,033	632,281	22.6	116,129	790,324	20.8	106,880	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	24.4%	\$98,217	\$ 787,817	27.0%	\$108,682	\$ 912,116	28.2%	\$113,513	\$ 930,605
2024	413,596	24.4	100,917	795,374	27.0	111,671	920,866	28.2	116,634	939,532
2025	424,970	24.4	103,693	802,152	27.0	114,742	928,713	28.2	119,842	947,538
2026	436,657	24.4	106,544	808,059	27.0	117,897	935,552	28.2	123,137	954,516
2027	448,665	24.4	109,474	812,998	27.0	121,140	941,270	28.2	126,524	960,350
2028	461,003	24.4	112,485	816,863	27.0	124,471	945,745	28.2	130,003	964,916
2029	473,681	24.4	115,578	819,540	27.0	127,894	948,844	28.2	133,578	968,078
2030	486,707	24.4	118,757	820,905	27.0	131,411	950,425	28.2	137,251	969,691
2031	500,091	24.4	122,022	820,826	27.0	135,025	950,334	28.2	141,026	969,598
2032	513,844	24.4	125,378	819,159	27.0	138,738	948,404	28.2	144,904	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	31.3%	\$125,991	\$ 1,064,141	32.0%	\$128,809	\$ 1,073,374	35.7%	\$143,702	\$ 1,216,152
2024	413,596	31.3	129,456	1,074,349	32.0	132,351	1,083,671	35.7	147,654	1,227,818
2025	424,970	31.3	133,016	1,083,504	32.0	135,990	1,092,905	35.7	151,714	1,238,280
2026	436,657	31.3	136,674	1,091,483	32.0	139,730	1,100,953	35.7	155,887	1,247,399
2027	448,665	31.3	140,432	1,098,154	32.0	143,573	1,107,682	35.7	160,173	1,255,023
2028	461,003	31.3	144,294	1,103,375	32.0	147,521	1,112,948	35.7	164,578	1,260,990
2029	473,681	31.3	148,262	1,106,991	32.0	151,578	1,116,595	35.7	169,104	1,265,122
2030	486,707	31.3	152,339	1,108,835	32.0	155,746	1,118,455	35.7	173,754	1,267,230
2031	500,091	31.3	156,528	1,108,728	32.0	160,029	1,118,347	35.7	178,532	1,267,108
2032	513,844	31.3	160,833	1,106,476	32.0	164,430	1,116,076	35.7	183,442	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	16.4%	\$66,014	\$ 608,090	20.7%	\$83,323	\$ 760,085	18.9%	\$76,078	\$ 645,054
2024	413,596	16.4	67,830	613,923	20.7	85,614	767,376	18.9	78,170	651,242
2025	424,970	16.4	69,695	619,154	20.7	87,969	773,915	18.9	80,319	656,791
2026	436,657	16.4	71,612	623,714	20.7	90,388	779,614	18.9	82,528	661,628
2027	448,665	16.4	73,581	627,526	20.7	92,874	784,379	18.9	84,798	665,672
2028	461,003	16.4	75,604	630,509	20.7	95,428	788,108	18.9	87,130	668,837
2029	473,681	16.4	77,684	632,575	20.7	98,052	790,691	18.9	89,526	671,029
2030	486,707	16.4	79,820	633,629	20.7	100,748	792,008	18.9	91,988	672,147
2031	500,091	16.4	82,015	633,568	20.7	103,519	791,932	18.9	94,517	672,082
2032	513,844	16.4	84,270	632,281	20.7	106,366	790,324	18.9	97,117	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	22.5%	\$90,569	\$ 787,817	25.1%	\$101,034	\$ 912,116	26.3%	\$105,865	\$ 930,605
2024	413,596	22.5	93,059	795,374	25.1	103,813	920,866	26.3	108,776	939,532
2025	424,970	22.5	95,618	802,152	25.1	106,667	928,713	26.3	111,767	947,538
2026	436,657	22.5	98,248	808,059	25.1	109,601	935,552	26.3	114,841	954,516
2027	448,665	22.5	100,950	812,998	25.1	112,615	941,270	26.3	117,999	960,350
2028	461,003	22.5	103,726	816,863	25.1	115,712	945,745	26.3	121,244	964,916
2029	473,681	22.5	106,578	819,540	25.1	118,894	948,844	26.3	124,578	968,078
2030	486,707	22.5	109,509	820,905	25.1	122,163	950,425	26.3	128,004	969,691
2031	500,091	22.5	112,520	820,826	25.1	125,523	950,334	26.3	131,524	969,598
2032	513,844	22.5	115,615	819,159	25.1	128,975	948,404	26.3	135,141	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	29.4%	\$118,343	\$ 1,064,141	30.1%	\$121,161	\$ 1,073,374	33.8%	\$136,054	\$ 1,216,152
2024	413,596	29.4	121,597	1,074,349	30.1	124,492	1,083,671	33.8	139,795	1,227,818
2025	424,970	29.4	124,941	1,083,504	30.1	127,916	1,092,905	33.8	143,640	1,238,280
2026	436,657	29.4	128,377	1,091,483	30.1	131,434	1,100,953	33.8	147,590	1,247,399
2027	448,665	29.4	131,908	1,098,154	30.1	135,048	1,107,682	33.8	151,649	1,255,023
2028	461,003	29.4	135,535	1,103,375	30.1	138,762	1,112,948	33.8	155,819	1,260,990
2029	473,681	29.4	139,262	1,106,991	30.1	142,578	1,116,595	33.8	160,104	1,265,122
2030	486,707	29.4	143,092	1,108,835	30.1	146,499	1,118,455	33.8	164,507	1,267,230
2031	500,091	29.4	147,027	1,108,728	30.1	150,527	1,118,347	33.8	169,031	1,267,108
2032	513,844	29.4	151,070	1,106,476	30.1	154,667	1,116,076	33.8	173,679	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	14.5%	\$58,366	\$ 608,090	18.8%	\$75,675	\$ 760,085	17.0%	\$68,430	\$ 645,054
2024	413,596	14.5	59,971	613,923	18.8	77,756	767,376	17.0	70,311	651,242
2025	424,970	14.5	61,621	619,154	18.8	79,894	773,915	17.0	72,245	656,791
2026	436,657	14.5	63,315	623,714	18.8	82,092	779,614	17.0	74,232	661,628
2027	448,665	14.5	65,056	627,526	18.8	84,349	784,379	17.0	76,273	665,672
2028	461,003	14.5	66,845	630,509	18.8	86,669	788,108	17.0	78,371	668,837
2029	473,681	14.5	68,684	632,575	18.8	89,052	790,691	17.0	80,526	671,029
2030	486,707	14.5	70,573	633,629	18.8	91,501	792,008	17.0	82,740	672,147
2031	500,091	14.5	72,513	633,568	18.8	94,017	791,932	17.0	85,015	672,082
2032	513,844	14.5	74,507	632,281	18.8	96,603	790,324	17.0	87,353	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	20.6%	\$82,921	\$ 787,817	23.2%	\$93,386	\$ 912,116	24.4%	\$98,217	\$ 930,605
2024	413,596	20.6	85,201	795,374	23.2	95,954	920,866	24.4	100,917	939,532
2025	424,970	20.6	87,544	802,152	23.2	98,593	928,713	24.4	103,693	947,538
2026	436,657	20.6	89,951	808,059	23.2	101,304	935,552	24.4	106,544	954,516
2027	448,665	20.6	92,425	812,998	23.2	104,090	941,270	24.4	109,474	960,350
2028	461,003	20.6	94,967	816,863	23.2	106,953	945,745	24.4	112,485	964,916
2029	473,681	20.6	97,578	819,540	23.2	109,894	948,844	24.4	115,578	968,078
2030	486,707	20.6	100,262	820,905	23.2	112,916	950,425	24.4	118,757	969,691
2031	500,091	20.6	103,019	820,826	23.2	116,021	950,334	24.4	122,022	969,598
2032	513,844	20.6	105,852	819,159	23.2	119,212	948,404	24.4	125,378	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	27.5%	\$110,695	\$ 1,064,141	28.2%	\$113,513	\$ 1,073,374	31.9%	\$128,406	\$ 1,216,152
2024	413,596	27.5	113,739	1,074,349	28.2	116,634	1,083,671	31.9	131,937	1,227,818
2025	424,970	27.5	116,867	1,083,504	28.2	119,842	1,092,905	31.9	135,565	1,238,280
2026	436,657	27.5	120,081	1,091,483	28.2	123,137	1,100,953	31.9	139,294	1,247,399
2027	448,665	27.5	123,383	1,098,154	28.2	126,524	1,107,682	31.9	143,124	1,255,023
2028	461,003	27.5	126,776	1,103,375	28.2	130,003	1,112,948	31.9	147,060	1,260,990
2029	473,681	27.5	130,262	1,106,991	28.2	133,578	1,116,595	31.9	151,104	1,265,122
2030	486,707	27.5	133,844	1,108,835	28.2	137,251	1,118,455	31.9	155,260	1,267,230
2031	500,091	27.5	137,525	1,108,728	28.2	141,026	1,118,347	31.9	159,529	1,267,108
2032	513,844	27.5	141,307	1,106,476	28.2	144,904	1,116,076	31.9	163,916	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	12.6%	\$50,718	\$ 608,090	16.9%	\$68,027	\$ 760,085	15.1%	\$60,782	\$ 645,054
2024	413,596	12.6	52,113	613,923	16.9	69,898	767,376	15.1	62,453	651,242
2025	424,970	12.6	53,546	619,154	16.9	71,820	773,915	15.1	64,170	656,791
2026	436,657	12.6	55,019	623,714	16.9	73,795	779,614	15.1	65,935	661,628
2027	448,665	12.6	56,532	627,526	16.9	75,824	784,379	15.1	67,748	665,672
2028	461,003	12.6	58,086	630,509	16.9	77,910	788,108	15.1	69,611	668,837
2029	473,681	12.6	59,684	632,575	16.9	80,052	790,691	15.1	71,526	671,029
2030	486,707	12.6	61,325	633,629	16.9	82,253	792,008	15.1	73,493	672,147
2031	500,091	12.6	63,011	633,568	16.9	84,515	791,932	15.1	75,514	672,082
2032	513,844	12.6	64,744	632,281	16.9	86,840	790,324	15.1	77,590	670,717

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	18.7%	\$75,273	\$ 787,817	21.3%	\$85,738	\$ 912,116	22.5%	\$90,569	\$ 930,605
2024	413,596	18.7	77,342	795,374	21.3	88,096	920,866	22.5	93,059	939,532
2025	424,970	18.7	79,469	802,152	21.3	90,519	928,713	22.5	95,618	947,538
2026	436,657	18.7	81,655	808,059	21.3	93,008	935,552	22.5	98,248	954,516
2027	448,665	18.7	83,900	812,998	21.3	95,566	941,270	22.5	100,950	960,350
2028	461,003	18.7	86,208	816,863	21.3	98,194	945,745	22.5	103,726	964,916
2029	473,681	18.7	88,578	819,540	21.3	100,894	948,844	22.5	106,578	968,078
2030	486,707	18.7	91,014	820,905	21.3	103,669	950,425	22.5	109,509	969,691
2031	500,091	18.7	93,517	820,826	21.3	106,519	950,334	22.5	112,520	969,598
2032	513,844	18.7	96,089	819,159	21.3	109,449	948,404	22.5	115,615	967,629

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	25.6%	\$103,047	\$ 1,064,141	26.3%	\$105,865	\$ 1,073,374	30.0%	\$120,758	\$ 1,216,152
2024	413,596	25.6	105,881	1,074,349	26.3	108,776	1,083,671	30.0	124,079	1,227,818
2025	424,970	25.6	108,792	1,083,504	26.3	111,767	1,092,905	30.0	127,491	1,238,280
2026	436,657	25.6	111,784	1,091,483	26.3	114,841	1,100,953	30.0	130,997	1,247,399
2027	448,665	25.6	114,858	1,098,154	26.3	117,999	1,107,682	30.0	134,600	1,255,023
2028	461,003	25.6	118,017	1,103,375	26.3	121,244	1,112,948	30.0	138,301	1,260,990
2029	473,681	25.6	121,262	1,106,991	26.3	124,578	1,116,595	30.0	142,104	1,265,122
2030	486,707	25.6	124,597	1,108,835	26.3	128,004	1,118,455	30.0	146,012	1,267,230
2031	500,091	25.6	128,023	1,108,728	26.3	131,524	1,118,347	30.0	150,027	1,267,108
2032	513,844	25.6	131,544	1,106,476	26.3	135,141	1,116,076	30.0	154,153	1,264,535

Notes regarding the above projections:

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



City of Warson Woods - Police

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

Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	18.9%	\$76,078	\$ 627,627	23.4%	\$94,191	\$ 784,536	21.4%	\$86,141	\$ 665,866
2024	413,596	18.9	78,170	633,648	23.4	96,781	792,062	21.4	88,510	672,253
2025	424,970	18.9	80,319	639,047	23.4	99,443	798,811	21.4	90,944	677,981
2026	436,657	18.9	82,528	643,753	23.4	102,178	804,694	21.4	93,445	682,974
2027	448,665	18.9	84,798	647,688	23.4	104,988	809,612	21.4	96,014	687,148
2028	461,003	18.9	87,130	650,767	23.4	107,875	813,461	21.4	98,655	690,415
2029	473,681	18.9	89,526	652,900	23.4	110,841	816,127	21.4	101,368	692,678
2030	486,707	18.9	91,988	653,988	23.4	113,889	817,487	21.4	104,155	693,832
2031	500,091	18.9	94,517	653,925	23.4	117,021	817,408	21.4	107,019	693,765
2032	513,844	18.9	97,117	652,597	23.4	120,239	815,748	21.4	109,963	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	25.2%	\$101,437	\$ 813,216	27.9%	\$112,305	\$ 941,442	29.1%	\$117,135	\$ 960,561
2024	413,596	25.2	104,226	821,017	27.9	115,393	950,473	29.1	120,356	969,775
2025	424,970	25.2	107,092	828,013	27.9	118,567	958,572	29.1	123,666	978,039
2026	436,657	25.2	110,038	834,111	27.9	121,827	965,631	29.1	127,067	985,242
2027	448,665	25.2	113,064	839,209	27.9	125,178	971,533	29.1	130,562	991,264
2028	461,003	25.2	116,173	843,199	27.9	128,620	976,152	29.1	134,152	995,977
2029	473,681	25.2	119,368	845,962	27.9	132,157	979,351	29.1	137,841	999,241
2030	486,707	25.2	122,650	847,371	27.9	135,791	980,983	29.1	141,632	1,000,906
2031	500,091	25.2	126,023	847,289	27.9	139,525	980,889	29.1	145,526	1,000,810
2032	513,844	25.2	129,489	845,568	27.9	143,362	978,897	29.1	149,529	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	32.3%	\$130,016	\$ 1,098,361	33.0%	\$132,834	\$ 1,107,907	36.8%	\$148,130	\$ 1,255,270
2024	413,596	32.3	133,592	1,108,897	33.0	136,487	1,118,535	36.8	152,203	1,267,311
2025	424,970	32.3	137,265	1,118,346	33.0	140,240	1,128,066	36.8	156,389	1,278,110
2026	436,657	32.3	141,040	1,126,582	33.0	144,097	1,136,373	36.8	160,690	1,287,522
2027	448,665	32.3	144,919	1,133,468	33.0	148,059	1,143,319	36.8	165,109	1,295,392
2028	461,003	32.3	148,904	1,138,857	33.0	152,131	1,148,755	36.8	169,649	1,301,551
2029	473,681	32.3	152,999	1,142,589	33.0	156,315	1,152,520	36.8	174,315	1,305,816
2030	486,707	32.3	157,206	1,144,493	33.0	160,613	1,154,440	36.8	179,108	1,307,992
2031	500,091	32.3	161,529	1,144,383	33.0	165,030	1,154,329	36.8	184,033	1,307,866
2032	513,844	32.3	165,972	1,142,059	33.0	169,569	1,151,985	36.8	189,095	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	17.0%	\$68,430	\$ 627,627	21.5%	\$86,543	\$ 784,536	19.5%	\$78,493	\$ 665,866
2024	413,596	17.0	70,311	633,648	21.5	88,923	792,062	19.5	80,651	672,253
2025	424,970	17.0	72,245	639,047	21.5	91,369	798,811	19.5	82,869	677,981
2026	436,657	17.0	74,232	643,753	21.5	93,881	804,694	19.5	85,148	682,974
2027	448,665	17.0	76,273	647,688	21.5	96,463	809,612	19.5	87,490	687,148
2028	461,003	17.0	78,371	650,767	21.5	99,116	813,461	19.5	89,896	690,415
2029	473,681	17.0	80,526	652,900	21.5	101,841	816,127	19.5	92,368	692,678
2030	486,707	17.0	82,740	653,988	21.5	104,642	817,487	19.5	94,908	693,832
2031	500,091	17.0	85,015	653,925	21.5	107,520	817,408	19.5	97,518	693,765
2032	513,844	17.0	87,353	652,597	21.5	110,476	815,748	19.5	100,200	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	23.3%	\$93,789	\$ 813,216	26.0%	\$104,657	\$ 941,442	27.2%	\$109,487	\$ 960,561
2024	413,596	23.3	96,368	821,017	26.0	107,535	950,473	27.2	112,498	969,775
2025	424,970	23.3	99,018	828,013	26.0	110,492	958,572	27.2	115,592	978,039
2026	436,657	23.3	101,741	834,111	26.0	113,531	965,631	27.2	118,771	985,242
2027	448,665	23.3	104,539	839,209	26.0	116,653	971,533	27.2	122,037	991,264
2028	461,003	23.3	107,414	843,199	26.0	119,861	976,152	27.2	125,393	995,977
2029	473,681	23.3	110,368	845,962	26.0	123,157	979,351	27.2	128,841	999,241
2030	486,707	23.3	113,403	847,371	26.0	126,544	980,983	27.2	132,384	1,000,906
2031	500,091	23.3	116,521	847,289	26.0	130,024	980,889	27.2	136,025	1,000,810
2032	513,844	23.3	119,726	845,568	26.0	133,599	978,897	27.2	139,766	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	30.4%	\$122,368	\$ 1,098,361	31.1%	\$125,186	\$ 1,107,907	34.9%	\$140,482	\$ 1,255,270
2024	413,596	30.4	125,733	1,108,897	31.1	128,628	1,118,535	34.9	144,345	1,267,311
2025	424,970	30.4	129,191	1,118,346	31.1	132,166	1,128,066	34.9	148,315	1,278,110
2026	436,657	30.4	132,744	1,126,582	31.1	135,800	1,136,373	34.9	152,393	1,287,522
2027	448,665	30.4	136,394	1,133,468	31.1	139,535	1,143,319	34.9	156,584	1,295,392
2028	461,003	30.4	140,145	1,138,857	31.1	143,372	1,148,755	34.9	160,890	1,301,551
2029	473,681	30.4	143,999	1,142,589	31.1	147,315	1,152,520	34.9	165,315	1,305,816
2030	486,707	30.4	147,959	1,144,493	31.1	151,366	1,154,440	34.9	169,861	1,307,992
2031	500,091	30.4	152,028	1,144,383	31.1	155,528	1,154,329	34.9	174,532	1,307,866
2032	513,844	30.4	156,209	1,142,059	31.1	159,805	1,151,985	34.9	179,332	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	15.1%	\$60,782	\$ 627,627	19.6%	\$78,895	\$ 784,536	17.6%	\$70,845	\$ 665,866
2024	413,596	15.1	62,453	633,648	19.6	81,065	792,062	17.6	72,793	672,253
2025	424,970	15.1	64,170	639,047	19.6	83,294	798,811	17.6	74,795	677,981
2026	436,657	15.1	65,935	643,753	19.6	85,585	804,694	17.6	76,852	682,974
2027	448,665	15.1	67,748	647,688	19.6	87,938	809,612	17.6	78,965	687,148
2028	461,003	15.1	69,611	650,767	19.6	90,357	813,461	17.6	81,137	690,415
2029	473,681	15.1	71,526	652,900	19.6	92,841	816,127	17.6	83,368	692,678
2030	486,707	15.1	73,493	653,988	19.6	95,395	817,487	17.6	85,660	693,832
2031	500,091	15.1	75,514	653,925	19.6	98,018	817,408	17.6	88,016	693,765
2032	513,844	15.1	77,590	652,597	19.6	100,713	815,748	17.6	90,437	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	21.4%	\$86,141	\$ 813,216	24.1%	\$97,009	\$ 941,442	25.3%	\$101,839	\$ 960,561
2024	413,596	21.4	88,510	821,017	24.1	99,677	950,473	25.3	104,640	969,775
2025	424,970	21.4	90,944	828,013	24.1	102,418	958,572	25.3	107,517	978,039
2026	436,657	21.4	93,445	834,111	24.1	105,234	965,631	25.3	110,474	985,242
2027	448,665	21.4	96,014	839,209	24.1	108,128	971,533	25.3	113,512	991,264
2028	461,003	21.4	98,655	843,199	24.1	111,102	976,152	25.3	116,634	995,977
2029	473,681	21.4	101,368	845,962	24.1	114,157	979,351	25.3	119,841	999,241
2030	486,707	21.4	104,155	847,371	24.1	117,296	980,983	25.3	123,137	1,000,906
2031	500,091	21.4	107,019	847,289	24.1	120,522	980,889	25.3	126,523	1,000,810
2032	513,844	21.4	109,963	845,568	24.1	123,836	978,897	25.3	130,003	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	28.5%	\$114,720	\$ 1,098,361	29.2%	\$117,538	\$ 1,107,907	33.0%	\$132,834	\$ 1,255,270
2024	413,596	28.5	117,875	1,108,897	29.2	120,770	1,118,535	33.0	136,487	1,267,311
2025	424,970	28.5	121,116	1,118,346	29.2	124,091	1,128,066	33.0	140,240	1,278,110
2026	436,657	28.5	124,447	1,126,582	29.2	127,504	1,136,373	33.0	144,097	1,287,522
2027	448,665	28.5	127,870	1,133,468	29.2	131,010	1,143,319	33.0	148,059	1,295,392
2028	461,003	28.5	131,386	1,138,857	29.2	134,613	1,148,755	33.0	152,131	1,301,551
2029	473,681	28.5	134,999	1,142,589	29.2	138,315	1,152,520	33.0	156,315	1,305,816
2030	486,707	28.5	138,711	1,144,493	29.2	142,118	1,154,440	33.0	160,613	1,307,992
2031	500,091	28.5	142,526	1,144,383	29.2	146,027	1,154,329	33.0	165,030	1,307,866
2032	513,844	28.5	146,446	1,142,059	29.2	150,042	1,151,985	33.0	169,569	1,305,210

Notes regarding the above projections:

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



City of Warson Woods - 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	
2023	\$ 402,527	13.2%	\$53,134	\$ 627,627	17.7%	\$71,247	\$ 784,536	15.7%	\$63,197	\$ 665,866
2024	413,596	13.2	54,595	633,648	17.7	73,206	792,062	15.7	64,935	672,253
2025	424,970	13.2	56,096	639,047	17.7	75,220	798,811	15.7	66,720	677,981
2026	436,657	13.2	57,639	643,753	17.7	77,288	804,694	15.7	68,555	682,974
2027	448,665	13.2	59,224	647,688	17.7	79,414	809,612	15.7	70,440	687,148
2028	461,003	13.2	60,852	650,767	17.7	81,598	813,461	15.7	72,377	690,415
2029	473,681	13.2	62,526	652,900	17.7	83,842	816,127	15.7	74,368	692,678
2030	486,707	13.2	64,245	653,988	17.7	86,147	817,487	15.7	76,413	693,832
2031	500,091	13.2	66,012	653,925	17.7	88,516	817,408	15.7	78,514	693,765
2032	513,844	13.2	67,827	652,597	17.7	90,950	815,748	15.7	80,674	692,356

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	19.5%	\$78,493	\$ 813,216	22.2%	\$89,361	\$ 941,442	23.4%	\$94,191	\$ 960,561
2024	413,596	19.5	80,651	821,017	22.2	91,818	950,473	23.4	96,781	969,775
2025	424,970	19.5	82,869	828,013	22.2	94,343	958,572	23.4	99,443	978,039
2026	436,657	19.5	85,148	834,111	22.2	96,938	965,631	23.4	102,178	985,242
2027	448,665	19.5	87,490	839,209	22.2	99,604	971,533	23.4	104,988	991,264
2028	461,003	19.5	89,896	843,199	22.2	102,343	976,152	23.4	107,875	995,977
2029	473,681	19.5	92,368	845,962	22.2	105,157	979,351	23.4	110,841	999,241
2030	486,707	19.5	94,908	847,371	22.2	108,049	980,983	23.4	113,889	1,000,906
2031	500,091	19.5	97,518	847,289	22.2	111,020	980,889	23.4	117,021	1,000,810
2032	513,844	19.5	100,200	845,568	22.2	114,073	978,897	23.4	120,239	998,778

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability	Estimated Employer Contribution		Unfunded Actuarial Accrued Liability
		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars		As a % of Payroll	Annual Dollars	
2023	\$ 402,527	26.6%	\$107,072	\$ 1,098,361	27.3%	\$109,890	\$ 1,107,907	31.1%	\$125,186	\$ 1,255,270
2024	413,596	26.6	110,017	1,108,897	27.3	112,912	1,118,535	31.1	128,628	1,267,311
2025	424,970	26.6	113,042	1,118,346	27.3	116,017	1,128,066	31.1	132,166	1,278,110
2026	436,657	26.6	116,151	1,126,582	27.3	119,207	1,136,373	31.1	135,800	1,287,522
2027	448,665	26.6	119,345	1,133,468	27.3	122,486	1,143,319	31.1	139,535	1,295,392
2028	461,003	26.6	122,627	1,138,857	27.3	125,854	1,148,755	31.1	143,372	1,301,551
2029	473,681	26.6	125,999	1,142,589	27.3	129,315	1,152,520	31.1	147,315	1,305,816
2030	486,707	26.6	129,464	1,144,493	27.3	132,871	1,154,440	31.1	151,366	1,307,992
2031	500,091	26.6	133,024	1,144,383	27.3	136,525	1,154,329	31.1	155,528	1,307,866
2032	513,844	26.6	136,683	1,142,059	27.3	140,279	1,151,985	31.1	159,805	1,305,210

Notes regarding the above projections:

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

